58

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Columbia County Building Permit Application - "Owner and Contractor Signature Page"

CODES: 2020 Florida Building Code 7th Edition and the 2017 National Electrical Code.

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

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

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

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

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

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

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

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

State of Florida Notary Signature (For the Contractor)

ELAINE K. TOLAR
MY COMMISSION # HH 149907
EXPIRES: October 2, 2025
Bonded Thru Notary Public Underwriters

Lot 58



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

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

Date/Time Issued:

6/22/2020 2:42:15 PM

Address:

661 SW CHESTERFIELD CIR

City:

LAKE CITY

State:

FL

Zip Code

32024

Parcel ID

24-4S-16-03117-158

REMARKS:

This is a verified Current address for Building General in Columbia County ${\sf FL}$

Verification ID: 6c323463-a30e-4885-bdbc-43d7de2cc2e6

Address was reassigned from old address: LOT58 SW CHESTERFIELD CIR

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

Issuance of a 9-1-1 address for your property should not be construed by you or anyone else to mean that your property is buildable pursuant to the Columbia County Land Development Regulations. To determine whether your property is eligible for a building permit please contact the Building and Zoning Department.

Address Issued By:

GIS Specialist

Columbia County GIS/911 Addressing Coordinator



STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. 23-0547
DATE PAID: 12013123
FEE PAID: RECEIPT #: 2027393

APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR: [x] New System [] Ex [] Repair DEALT OME	xisting System [] Holding Tank [] Innovative bandonment [] Temporary []
	RTH FLORIDA SEPTIC TANK INC TELEPHONE: 386-755-6372
741 SF ST	ATE ROAD 100, LAKE CITY FL 32025
MAILING ADDRESS:	7112 110712 100, 12112 0117 112 02020
BY A PERSON LICENSED PURSUANT APPLICANT'S RESPONSIBILITY TO	OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED T TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE O PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR TING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.
PROPERTY INFORMATION	OSTDS REMEDIATION PLAN? [Y] [N]
LOT: 58 BLOCK: PH 2 ST	UBDIVISION: CROSSWINDS PLATTED:
PROPERTY ID #: 24-4S-16-03	117-158 zoning: i/m or equivalent: [Y / 🐚]
PROPERTY SIZE: 0.52 ACRES	WATER SUPPLY: [x] PRIVATE PUBLIC []<=2000GPD []>2000GPD
IS SEWER AVAILABLE AS PER 381	1.0065, FS? [Y / 🔞] DISTANCE TO SEWER: FT
PROPERTY ADDRESS: 661 SW C	CHESTERFIELD CIR, LAKE CITY FL
DIRECTIONS TO PROPERTY:	
BUILDING INFORMATION	[x] RESIDENTIAL [] COMMERCIAL
Unit Type of	No. of Building Commercial/Institutional System Design
No. Establishment	Bedrooms Area Sqft Table I, Chapter 62-6, FAC
1 NEW HOME	3 1000
2	
3	randon ra
4	
[] Floor/Equipment Drains SIGNATURE:	[] Other (Specify)

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION APPLICATION FOR CONSTRUCTION PERMIT

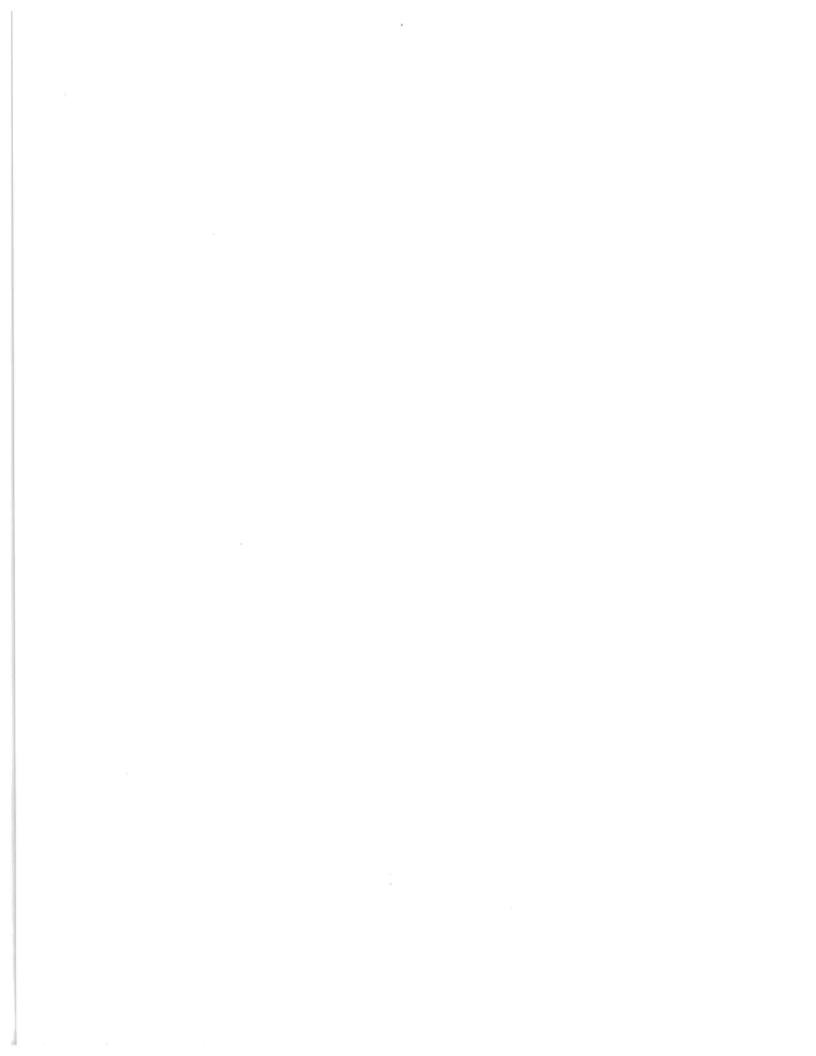
PART II - SITEPLAN

Wangacoday

Notes:			
Site Plan submitted by:	6999 DOTE: 12-11-2023		
Plan Approved	Not Approved	E	Date (/16/24)
	ES2	Countie	County Health Departmen

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DEP 4015, 06-21-2022 (Obsoletes previous editions which may not be used) Incorporated: 62-6.004, F.A.C.





Department of State / Division of Corporations / Search Records / Search by Entity Name /

Detail by Entity Name

Florida Profit Corporation
TRENT GIEBEIG CONSTRUCTION, INC.

Filing Information

Document Number

P03000124288

FEI/EIN Number

- 55-0851512

Date Filed

10/27/2003

State

FL

Status

ACTIVE

Last Event

CANCEL ADM DISS/REV

Event Date Filed

10/04/2006

Event Effective Date

NONE

Principal Address

697 SE HOLLY TERRACE LAKE CITY, FL 32025

Changed: 10/04/2006

Mailing Address

697 SE HOLLY TERRACE LAKE CITY, FL 32025

Changed: 10/04/2006

Registered Agent Name & Address

GIEBEIG, BRIAN TRENT 697 SE HOLLY TERRACE LAKE CITY, FL 32025

Address Changed: 10/04/2006

Officer/Director Detail
Name & Address

Title D

GIEBEIG, BRIAN TRENT 697 SE HOLLY TERRACE LAKE CITY, FL 32025

nst. Number: 202312023973 Book: 1505 Page: 16 Page 1 of 3 Date: 12/20/2023 Time: 3:13 PM Imps M Swisher Jr Clerk of Courts, Columbia County, Florida Doc Deed: 210.00

BSG:lss 8678.01-23-171 12/01/2023

> This instrument prepared by Bonnie S. Green Darby Peele & Green, PLLC Attorney at Law 1241 South Marion Avenue Lake City, Florida 32025

The preparer of this instrument has not been provided with a survey to show the quantity of lands included, or the location of the boundaries and has prepared this document without the benefit of a survey.

INT. P
CONSIDERATION 35, 0

Columbia, County, By: KH

Deputy ClerkDoc Stamp-Deed: 210.00

WARRANTY DEED

WITNESSETH:

That the Grantor, for and in consideration of the sum of TEN AND NO/100 (\$10.00) DOLLARS and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee, all that certain land situate in Columbia County, Florida, viz:

Lot 58 of CROSSWINDS, PHASE TWO, according to the Plat thereof as recorded in Plat Book 8, Page 83, of the public records of Columbia County, Florida.

Tax Parcel No. 24-4S-16-03117-158

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT#	JOB NAME	***************************************	

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

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

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

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

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

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

A&B Well Drilling, Inc.

5673 NW Lake Jeffery Road Lake City, FL 32055 Telephone: (386) 758-3409 Cell: (386) 623-3151 Fax: (386) 758-3410 Owner: Bruce Park

January 30, 2024
To: Columbia County Building Department
Description of Well to be installed for CustomerTrent Giebeig Const
Located @ Address:661 SW Chesterfield Cir
1 HP 20 GPM submersible pump, 11/4" drop pipe, 85 gallon captive tank, and backflow prevention With SRWMD permit.
_Bruce Park
Sincerely, Bruce N. Park
President



STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. 23-03-7
DATE PAID:
FEE PAID:
RECEIPT #: 2027-373

APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR: [X] New System [] Existing System [] Holding Tank [] Innovative [] Repair [] Abandonment [] Temporary []
APPLICANT: DEALT OMEGA PROPERTIES LLC EMAIL: NFLSEPTICTANK@COMCAST.NET
AGENT: ROBERT FORD III- NORTH FLORIDA SEPTIC TANK INC TELEPHONE: 386-755-6372
MAILING ADDRESS: 741 SE STATE ROAD 100, LAKE CITY FL 32025
TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.
PROPERTY INFORMATION OSTDS REMEDIATION PLAN? TYNN DE LOT: 58 BLOCK: PH 2 SUBDIVISION: CROSSWINDS PLATTED:
PROPERTY ID #: 24-4S-16-03117-158 ZONING: I/M OR EQUIVALENT: [Y / N]
PROPERTY SIZE: 0.52 ACRES WATER SUPPLY: [x] PRIVATE PUBLIC []<=2000GPD []>2000GPD
IS SEWER AVAILABLE AS PER 381.0065, FS? [Y/W] DISTANCE TO SEWER: FT. PROPERTY ADDRESS: 661 SW CHESTERFIELD CIR, LAKE CITY FL
DIRECTIONS TO PROPERTY:
BUILDING INFORMATION [x] RESIDENTIAL [] COMMERCIAL
Unit Type of No. of Building Commercial/Institutional System Design No. Establishment Bedrooms Area Sqft Table I, Chapter 62-6, FAC
1 NEW HOME 3 1000
2
3
4
[] Floor/Equipment Drains [] Other (Specify) SIGNATURE: DATE: 12-11-2023
SIGNATURE:

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION APPLICATION FOR CONSTRUCTION PERMIT

1 =40' Permit Application Number ----- PART II - SITEPLAN 6.512 0 0 Notes: Robert Ford 999 Site Plan submitted by: Date: 12-11-2023 Plan Approved Not Approved_ Date 1/6/24 By_

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DEP 4015, 06-21-2022 (Obsoletes previous editions which may not be used) Incorporated: 62-6.004,F.A.C.

		,	

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

24-45-16-03117-158

Clerk's Office Stamp

Inst: 202412002805 Date: 02/15/2024 Time: 11:05AM

Page 1 of 1 B: 1508 P: 93, James M Swisher Jr, Clerk of Court Columbia, County, By: KH

Dennty Clerk

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.
1. Description of property (legal description): LOF 58 CVOSS Winds SID Phase I a) Street (job) Address: 66 SW Chesterfield Circle Lake City FL 32024
2. General description of improvements: New Residential Construction
3. Owner Information or Lessee information if the Lessee contracted for the improvements: a) Name and address: TVENT GIENE'S CONSTRUCTION INC LAKE CITY FL 32025 b) Name and address of fee simple titleholder (if other than owner) c) Interest in property FEE Simple
4. Contractor Information a) Name and address: Trent Giebeig Construction Inc 697 56 Holly Terrace b) Telephone No.: 386-397-0545
5. Surety Information (if applicable, a copy of the payment bond is attached):
a) Name and address:
c) Telephone No.:
6. Lender
a) Name and address:
b) Phone No
7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713 13(1)(a)7., Florida Statutes:
a) Name and address:
b) Telephone No.:
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in
Section 713.13(I)(b), Florida Statutes:
a) Name:OF
b) Telephone No.:
9. Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified):
WARNING TO OWNED. ANY DAVAGENTS MADE BY THE OWNED ACTED THE SYDIDATION OF THE MOTICE OF
WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.
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COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

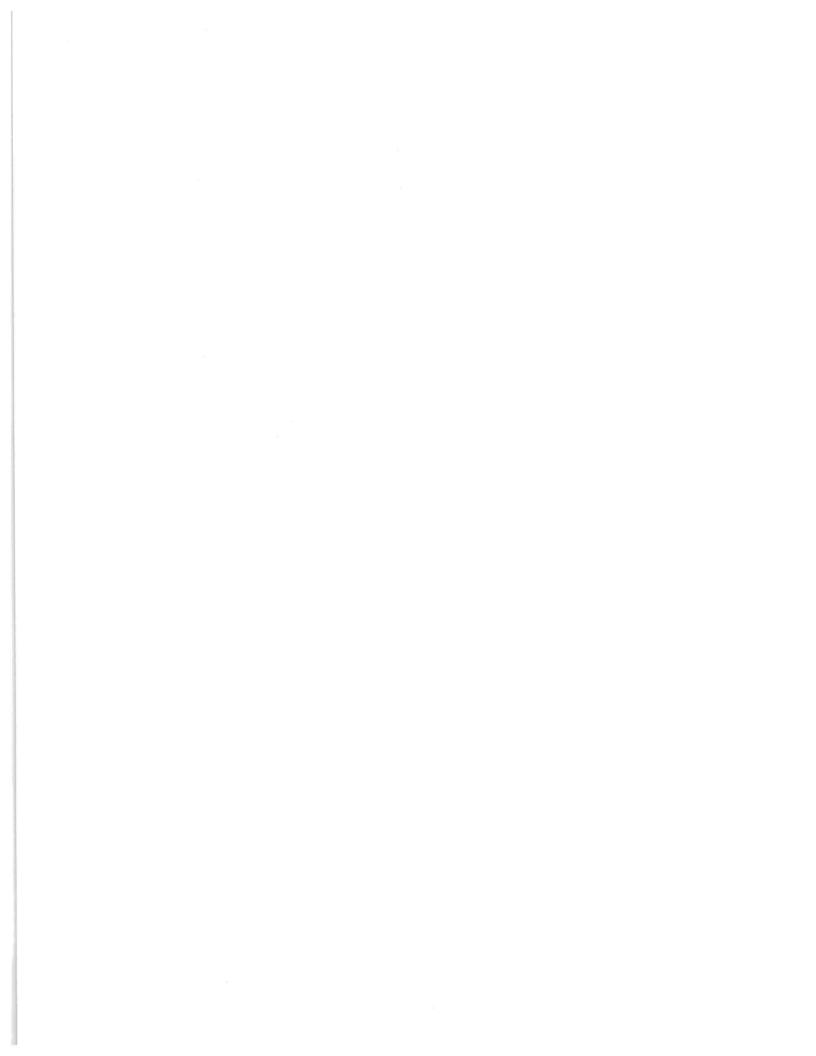
MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2023 EFFECTIVE 1 JANUARY 2024 AND THE NATIONAL ELECTRICAL 2020 EFFECTIVE 1 JANUARY 2024

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS, FBC 1609.1 THRU 1609.6.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609.3(1)
THROUGH 1609.3(4) ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER
STRUCTURES Revised 7/1/20

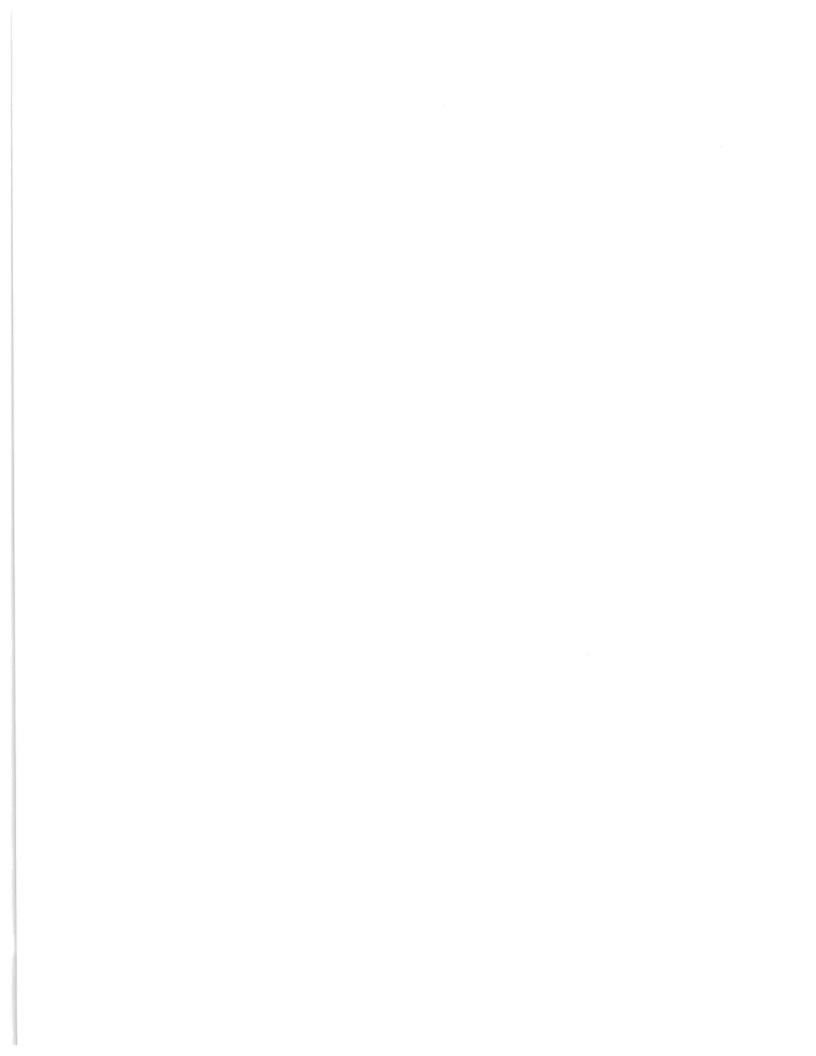
Si	Submit Online at- http://www.columbiacountyfla.com/BuildingandZoning.as GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			Items to Include- Each Box shall be Circled as Applicable	
		Sele	ct Fr	om Drop	down
	Two (2) complete sets of plans containing the following:				
	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	1			
3	Condition space (Sq. Ft.) 1624 Total (Sq. Ft.) under roof 2256	Y	es	No	NA
shal Sit	tigners name and signature shall be on all documents and a licensed architect or engineer, signature are libe affixed to the plans and documents as per the FLORIDA BUILDING CODES BUILDING 107.1 The Plan information including: Dimensions of lot or parcel of land	nd of	ncial	embossed	i seal
	Dimensions of all building set backs	-	1	-	-
		-	_	-	-
	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.	-/			
0			Ap	Circled as plicable	
8	Plans or specifications must show compliance with FBCR Chapter 3	Ye		No	NA
9	Basic wind speed (3-second gust), miles per hour	Selec	et Fr	om Drop	down
10	(Wind exposure – if more than one wind exposure	-	1		-
	is used, the wind exposure and applicable wind direction shall be indicated)	-			
11	Wind importance factor and nature of occupancy	-	-		-
.	wind importance factor and nature of occupancy	-			
12	The applicable internal account of the Country of t	\vdash			1
13	The applicable internal pressure coefficient. Components and Cladding				-
13	The applicable internal pressure coefficient, Components and Cladding 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.	-			
	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component,				
Ele	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.	<u>-</u>	1		
	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. Evations Drawing including:		<u> </u>		
Ele 14 15	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. • vations Drawing including: All side views of the structure	_] -	<u> </u>		
Ele	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. **vations** Drawing including: All side views of the structure Roof pitch	-1 -	Ė		
Ele 14 15 16	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. **vations Drawing including:* All side views of the structure Roof pitch Overhang dimensions and detail with attic ventilation Location, size and height above roof of chimneys	[] 	-		
Ele 14 15	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. **vations Drawing including:* All side views of the structure Roof pitch Overhang dimensions and detail with attic ventilation	- - - - -			



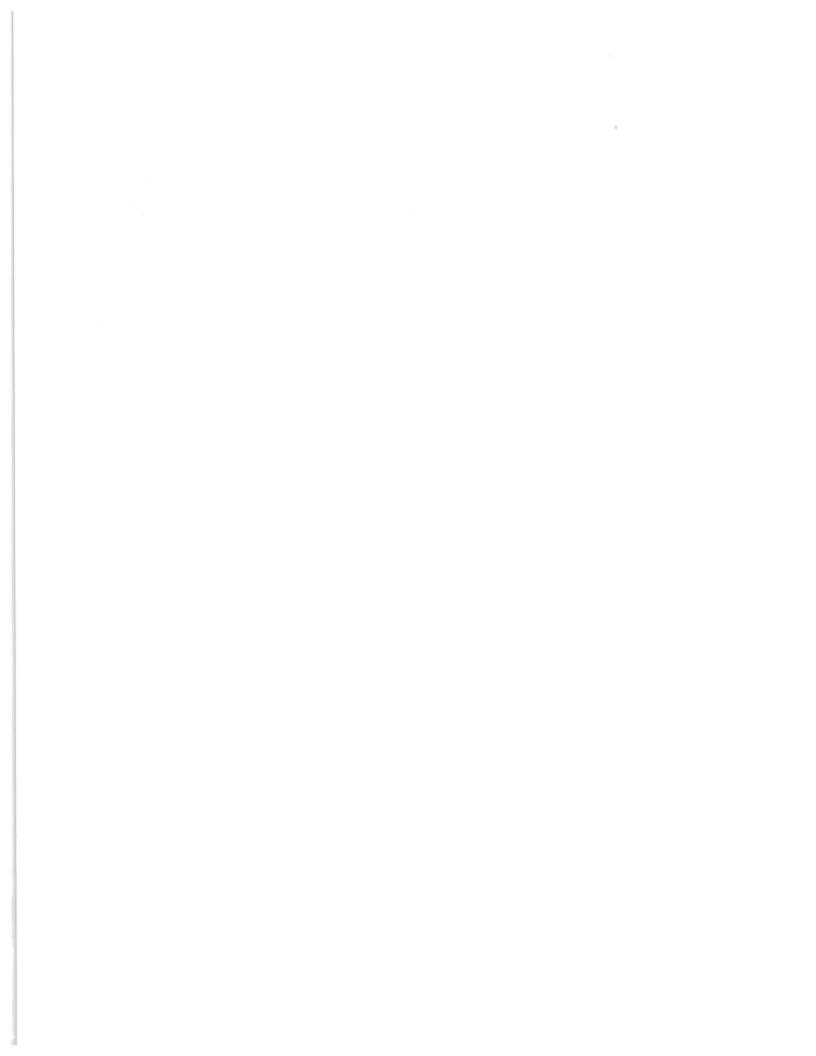
Floor Plan Including: Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, 21 deck, balconies Raised floor surfaces located more than 30 inches above the floor or grade -23 All exterior and interior shear walls indicated -Shear wall opening shown (Windows, Doors and Garage doors) Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBCR 312.2.1 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass. 26 Safety glazing of glass where needed Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth 27 (see chapter 10 and chapter 24 of FBCR) 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: Items to Include-APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL Each Box shall be Circled as Applicable FBCR 403: Foundation Plans Select From Drop down 30 Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing. All posts and/or column footing including size and reinforcing 31 32 Any special support required by soil analysis such as piling. Assumed load-bearing valve of soil Pound Per Square Foot Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3 FBCR 506: CONCRETE SLAB ON GRADE 35 | Show Va or retarder (6mil. Polyethylene with joints overlaid 6 inches and sealed) 36 | Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports FBCR 318: PROTECTION AGAINST TERMITES 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 37 termiticides FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls) 38 Show all materials making up walls, wall height, and Block size, mortar type

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

39 Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement



Fl	oor Framing System: First and/or second story				
	Floor truss package shall including layout and details, signed and sealed by Florida Registered		1	2	
40		- 1	- 1	1	1
	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls,				
41					
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers	٦,		4	
43		1.		V	
44		1.		40	
45		-		1	
46				1	
47		-1		- '4	
48		-			
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &	-			
49		.	.		
50					-+
51		-		-	-H
$\overline{}$	Provide live and dead load rating of floor framing systems (psf).	-		_	-
-	Trovice in a did dad rating of ricor training systems (psr).		-		$ \vdash$ \vdash
FB	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION				
12311		DECITION OF	Items t	o Includ	lo.
199	GENERAL REQUIREMENTS:		Security World	ox shall	0-6,511,117,167.5
100	APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			cled as	DC
100				plicable	
-		alaa			d
53		T	IFOII	Drop	down
54		- /			
54		-	-		
	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural				
55	members, showing fastener schedule attachment on the edges & intermediate of the areas structural	-			
_	panel sheathing				
	Show all required connectors with a max uplift rating and required number of connectors and				
56					
_	rafter systems				
	Show sizes, type, span lengths and required number of support jack studs, king studs	_			
57	for shear wall opening and girder or header per FBC 2304.3.				
58		-			
	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural	_			
59	panel sheathing edges & intermediate areas	-3			
60	A detail showing gable truss bracing, wall balloon framing details or/and wall hinge bracing detail	-			
1000					
F	BC :ROOF SYSTEMS:				
61	Truss design drawing shall meet section FBC 2303.1 Wood trusses	-	1		
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	-			
63		-			
64		-			
65	Provide dead load rating of trusses	-	1		
F	BC 2304.4:Conventional Roof Framing Layout				
66		Г	. 1		
67	Connectors to wall assemblies' include assemblies' resistance to uplift rating	-	1		
		-			
	Valley framing and support details	-	-		
09	Provide dead load rating of rafter system	-	1		
HAT.	C 2204 9 DOOF SHEATHING				
-	BC 2304.8 ROOF SHEATHING				
70	Include all materials which will make up the roof decking, identification of structural panel	7.2.2	1		
	sheathing, grade, thickness	-			
71	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	-			



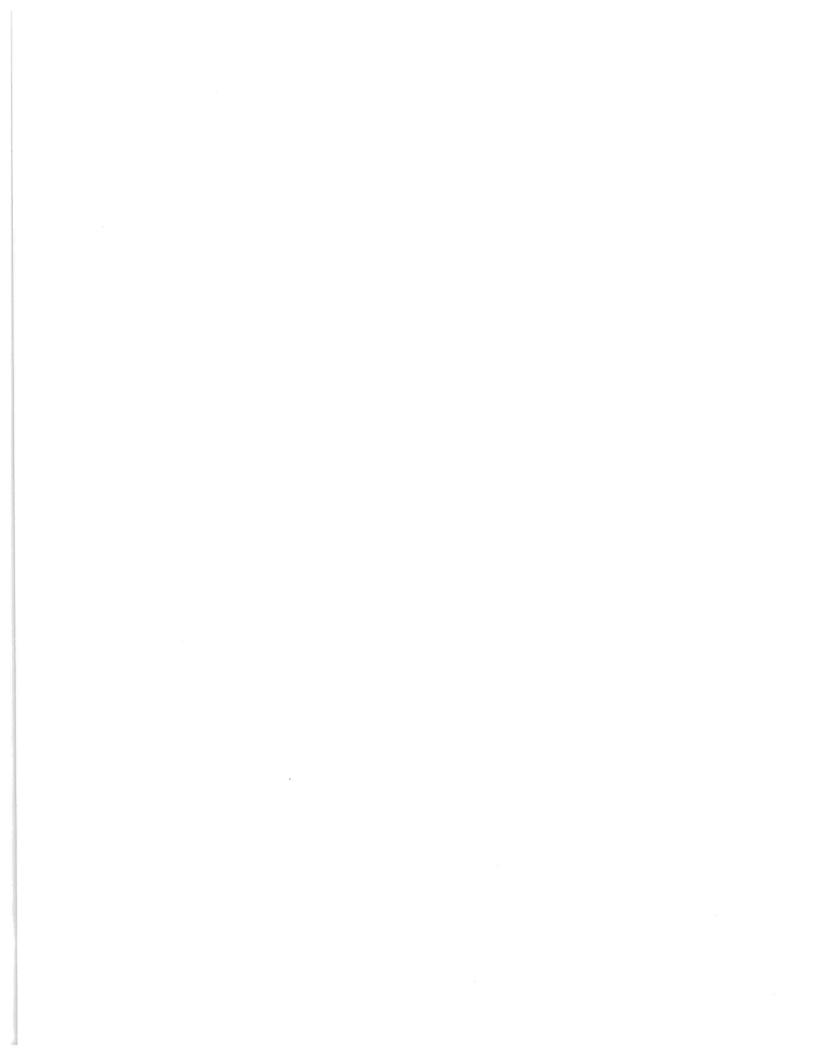
ROOF ASSEMBLIES FRC Chapter 9

72	Include all materials which will make up the roof assembles covering	-	1		1
73	Submit Florida Product Approval numbers for each component of the roof assembles covering	-			1

FBC Energy Chapter 4

Residential construction shall comply with this code by using the following compliance methods in the FBC Chapter 4, Residential buildings compliance methods. Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			Items to Include- Each Box shall be Circled as Applicable		
		Selec	t froi	n Drop	Down
74		-	1	I	
75	TO SERVICE TO SERVICE STATE OF THE SERVICE STATE ST	-			
_	Exterior wall cavity	-			
77	Crawl space	-			j
H	VAC information				
78	Submit two copies of a Manual J sizing equipment or equivalent computation study	T-	200	T	T
79	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required	-			
80		1_	.1	+	+
81	All fixtures waste water lines shall be shown on the foundationplan Show the location of water heater	<u>-</u>	1		
Pri	ivate Potable Water		2/		
Pro-	Pump motor horse power	T-			
	Reservoir pressure tank gallon capacity	+	1	-	-
85	Rating of cycle stop valve if used	 -	+	-	+
	ectrical layout shown including	1-	-		1
86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	T-	,	T	
87				1	
	by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	-			
88	Show the location of smoke detectors & Carbon monoxide detectors	-	1	1	
89	Show service panel, sub-panel, location(s) and total ampere ratings	-	1	1	
90	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a	-			
91	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 Appliances and HVAC equipment and disconnects				
92		-		-	
72	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter, Protection device.	-			



Notice Of Commencement:

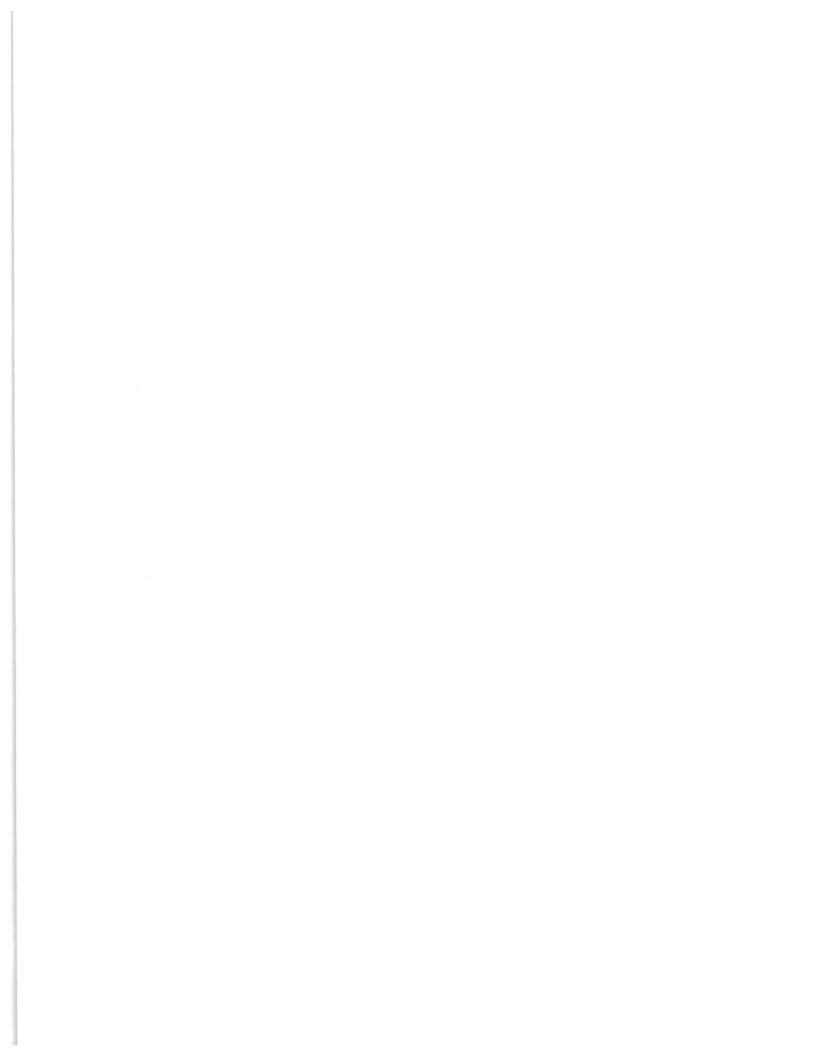
A notice of commencement form RECORDED in the Columbia County Clerk Office is required to be filed with the Building Department BEFORE ANY INSPECTIONS can be performed.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Items to Include-Each Box shall be Circled as Applicable

[]	TEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.	Select from 1	Drop down
93	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted.	-/	orsp down
94	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	-/	
95	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	- /	
96	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	-	1
97	Toilet facilities shall be provided for all construction sites	- /	
98	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	-	/
99	Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations (Municpde.cpm)	-	/
100			
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.0	0 -	/
102	Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	-/	
103	911 Address: An application for a 911 address must be applied for and received through the Columbia County Office of 911 Addressing Department online.	- /	

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



Disclosure Statement for Owner Builders:

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

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

Section 105 of the Florida Building Code defines the:

Time limitation of application.

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

Single-family residential dwelling.

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

Permit intent.

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

If work has commenced.

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

New Permit.

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

Work Shall Be:

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

The Fee:

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

Notification:

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

App 764196

661 SW Chester Field

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	Masonite	any suring Steel	FL 22513-R6
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
	T I		
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI	3540	FL-17676-R21
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			-
A. SIDING	James Hardir	100	F1-12192-06
B. SOFFITS	Kaycan	lap Vingl + Aluminum Sotfit	FL-13/92-R6 FL-16503
C. STOREFRONTS	Nugeur	VIVO / HIMINAII 201811	FL-10505
D. GLASS BLOCK			<u> </u>
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	GAF	Architectura)	FL 10124-R24
B. NON-STRUCT METAL		THE CONTRACT OF THE CONTRACT O	101010110
C. ROOFING TILES			<u> </u>
D. SINGLE PLY ROOF			
E. OTHER	Rhino	Synthetic felt	FL-15216-86
		1	
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			T
C. TRUSS PLATES			1
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

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

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

NOTES:	



Building and Zoning Department

New Residential Construction Application

Invoice

64196

Applicant Information

TRENT GIEBEIG 697 SW HOLLY TERR LAKE CITY, FL32025

Invoice Date

Permit #

Amount Due

\$1,462.44

02/15/2024

Job Location

Parcel: 24-4S-16-03117-158

Owner: TRENT GIEBEIG CONSTRUCTION, INC,

Address: 661 SW CHESTERFIELD CIR

LAKE CITY, FL32024

Contractor Information

BRIAN T GIEBEIG TRENT GIEBEIG CONSTRUCTION,INC. 697 SE HOLLY TERRACE LAKE CITY, FL 32025

Contact Us

Phone: (386) 758-1008

Customer Service Hours: Monday-Friday From 8:00 A.M. to 4:30 P.M.

Email:

bldginfo@columbiacountyfla.com

Website:

http://www.columbiacountyfla.com/BuildingandZoning.asp

Address:

Building and Zoning Ste. B-21 135 NE Hernando Ave. Lake City. FL 32055

Invoice History

<u>Date</u>	<u>Description</u>	<u>Amount</u>
02/14/2024	Payment: Check	(\$15.00)
02/14/2024	Fee: Application Fee	\$15.00
02/15/2024	Fee: Building Permit Fee Based on Total Area (Sqft)	\$1082.88
02/15/2024	Fee: Plan Review	\$270.72
02/15/2024	Fee: Certificate Fee	\$13.54
02/15/2024	Fee: DBPR - Surcharge / Radon	\$20.30
02/15/2024	Fee: Flood Zone Certification Fee	\$25.00
02/15/2024	Fee: Zoning Certification Fee	\$50.00
	Amount Due:	\$1462.44

Credit card payments can be made online here (fees apply)

Fee balances are not immediately updated using online Credit Card. If you have paid permit fees using the online application site or by another method such as check or cash, please allow time for your payment to be processed.

Inspection Office Hours

Monday - Friday From 8:00 AM to 10:00 AM and From 1:30 PM to 3:00 PM

Regular Inspection Schedules

All areas North of County Road 242
From 10:00 AM to Noon

All areas South of County Road 242

Inspection Requests

Online: (Preferred Method) www.columbiacountyfla.com/InspectionRequest.asp Voice Mail: 386-719-2023 or Phone: 386-758-1008

All Driveway Inspections: 386-758-1019

Septic Release Inspections: 386-758-1058

IMPORTANT NOTICE:

Any inspection requested after 4:30 pm, no matter the method, will be received the next business day and will be scheduled by the earliest time slot.

All Inspections require 24 hours notice.

Emergencies will be inspected as soon as possible.

Columbia County, FL. Building and Zoning Payment Options

1) Cash:

Payments can be made in cash by visiting the Building and Zoning office at:

135 NE Hernando St. Lake City FL. 32025

2) Checks and Money Orders:

Please make checks out to "Board of County Commissioners" (be sure and reference the application number on the check) and deliver in person or mail to:

Building and Zoning Post Office Box 1529 Lake City, FL 32056-1529

3) Online with Credit Card (Visa, Master Card, Discovery, AmEX) The card processing company charges an additional 3% for a convenience fee.

You may receive a separate email receipt from PayGov.US

Payments are not accepted by phone.



Building and Zoning Department

Culvert Application

Invoice

64218

Applicant Information

TRENT GIEBEIG 697 SW HOLLY TERR LAKE CITY, FL32025

Invoice Date

Permit #

Amount Due

02/15/2024

Job Location

\$25.00

Parcel: 24-4S-16-03117-158

Owner: TRENT GIEBEIG CONSTRUCTION, INC.

Address: 661 SW CHESTERFIELD CIR

LAKE CITY, FL32024

Contractor Information

BRIAN T GIEBEIG TRENT GIEBEIG CONSTRUCTION,INC. 697 SE HOLLY TERRACE LAKE CITY, FL 32025

Contact Us

Phone: (386) 758-1008

Customer Service Hours: Monday-Friday From 8:00 A.M. to 4:30 P.M.

Email:

bldginfo@columbiacountyfla.com

Website

http://www.columbiacountyfla.com/BuildingandZoning.asp

Address:

Building and Zoning Ste. B-21 135 NE Hernando Ave. Lake City, FL 32055

Invoice History

Date

Description

Amount

02/15/2024

Fee: Culvert

\$25.00

Amount Due:

\$25.00

Credit card payments can be made online here (fees apply)

Fee balances are not immediately updated using online Credit Card. If you have paid permit fees using the online application site or by another method such as check or cash, please allow time for your payment to be processed.

Inspection Office Hours

Monday - Friday From 8:00 AM to 10:00 AM and From 1:30 PM to 3:00 PM

Regular Inspection Schedules

All areas North of County Road 242 From 10:00 AM to Noon

All areas South of County Road 242 From 3:00 PM to 5:00 PM

Inspection Requests

Online: (Preferred Method)

www.columbiacountyfla.com/InspectionRequest.asp

All Driveway Inspections: 386-758-1019

Voice Mail: 386-719-2023 or Phone: 386-758-1008

Septic Release Inspections: 386-758-1058

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The card processing company charges an additional 3% for
a convenience fee.

You may receive a separate email receipt from PayGov.US

Payments are not accepted by phone.

New Residential Construction Application #64196

Wednesday, February 14, 2024 8:02 AM



APPLICANT	: TRENT GIEBEIG			PHONE: 386-397-05	545
ADDRESS:	697 SW HOLLY TERR LAKE	CITY, FL 32025			
OWNER:	TRENT GIEBEIG CONSTRU	ICTION, INC,		PHONE: 386-397-05	545
ADDRESS:	661 SW CHESTERFIELD CI	R LAKE CITY, FL 32024	1	::	
PARCEL ID:	24-4S-16-03117-158		SUBDIVISION: CR	OSSWINDS PHASE 2	
LOT: 58	BLOCK:	PHASE:		UNIT:	ACRES: 0.53
CONTRACT	OR	TYPE	LIC#	BUSINESS NAME	Carte Ct. D. Children Inc.
BRIAN T GIE	BEIG	General	CRC1330693	TRENT GIEBEIG COI	NSTRUCTION,INC.
CONSTRUC	TION DETAILS				
	ing an existing home?			N	No
This is the co	enstruction of a			on	Single Family Dwelling
If Other, expl	ain the use of the structure.			10 21/	
Total Estima				2-14-24	200000
Structure Siz	е				
Heated Area	(Sqft)				1624
Total Area (S	Sqft)				2256
Stories					1
Building Heig	ht				
Driveway acc	cess to property:				Culvert Permit
Existing hom	es on property?				0
Fire sprinkler	s?				No
If yes, bluepr	ints included?				No
Provide actu	al distance of structure from pro	operty lines:			
Site Plan Set	backs Front				30'
Site Plan Set	back Side 1				20'
Site Plan Set	back Side 2				30'
Site Plan Set	backs Rear				128'
Septic# (00-0	0000) or (X00-000)				23-0847
Power Comp	any				Clay Elec.
Service Amp	s				
Zoning Appli	cations applied for:				
ROOF OPTIC	ONS				
Sealed roof of	lecking options. (Must select or	ne option per FBC 2023	8th Edition)	two layers of felt underla	yment comply ASTM 0226 Type II

two layers of felt underlayment comply ASTM 0226 Type II or ASTM D4869 Type III or IV, or two layers of a synthetic underlayment meeting the performance requirements specified, lapped and fastened as specified.

Review Notes: NEEDED:

*GIEBEIG UPDATED WORKERS COMP

*OWNER AND CONTRACTOR SIGNATURE PAGE

PRIOR TO INSPECTIONS
RECORDED NOC

^{*}UPDATED RESIDENTIAL CHECKLIST-- ONE SUBMITTED IS OUTDATED

	*			

MiTe

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

RE: 3833091 - GIEBEIG - LOT 58 CW

MiTek, Inc.

Site Information:

Customer Info: GIEBEIG CONST. Project Name: Spec Hse Model: St. Johns Modified 434.1200

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Subdivision: Crosswinds

Lot/Block: 58

Address: TBD, TBD

State: FL

City: Columbia Cty

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2023/TPI2014

Wind Code: ASCE 7-22

Wind Speed: 130 mph

Design Program: MiTek 20/20 8.7

Roof Load: 37.0 psf

Floor Load: N/A psf

This package includes 29 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No. 123456789101123	Seal# T32687492 T32687494 T32687495 T32687496 T32687497 T32687499 T32687501 T32687501 T32687502	Truss Name CJ1 CJ3 CJ5 EJ5 EJ7 HJ7 HJ9 T03 T03G T04 T05 T06	Date 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24	No. 15 16 17 18 19 20 21 22 23 24 25 67	Seal# T32687506 T32687507 T32687509 T32687511 T32687512 T32687513 T32687515 T32687516 T32687516 T32687517	Truss Name T09 T10 T11 T12 T13 T14 T15 T16 T17 T18 T18G T19	Date 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24 1/22/24
12	T32687503	T06		26	T32687517	T19	1/22/24
13	T32687504	T07		27	T32687518	T19A	1/22/24
14	T32687505	T08		28	T32687519	T20	1/22/24



This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: ORegan, Philip My license renewal date for the state of Florida is February 28, 2025.

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



Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

MiTek®

RE: 3833091 - GIEBEIG - LOT 58 CW

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Customer Info: GIEBEIG CONST. Project Name: Spec Hse Model: St. Johns Modified

.ot/Block: 58 Subdivision: Crosswinds

Lot/Block: 58 Address: TBD, TBD City: Columbia Cty

State: FL

No. Seal# Truss Name Date 29 T32687520 T21 1/22/24 Job -Truss Truss Type Qty GIEBEIG - LOT 58 CW T32687492 3833091 CJ1 Jack-Open 8 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Jan 19 13:07:56 2024 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-xOOtyez6PqSze4cN6asyAvdEobZrbmiOPGu?QXztnTn Scale = 1:9.5 3 0-4-11 6.00 12 0-10-3 0-10-3 0-4-3

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	DIATES	CDID
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.00	(100)	>999	240	PLATES	GRIP
TCDL	7.0	Lumber DOL	1.25	100000000000000000000000000000000000000						V	MT20	244/190
	100000000000000000000000000000000000000			BC	0.06	Vert(CT)	0.00	1	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MP						Weight: 7 lb	FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD**

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=52(LC 12) Max Uplift 3=-26(LC 1), 2=-121(LC 12), 4=-47(LC 1) Max Grav 3=19(LC 16), 2=254(LC 1), 4=34(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
- 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. S\$126 MITek Inc. DBA MITek USA FL Cert 6634 16623 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 22,2024

MARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE, Design valid for use only with MITek® connectors. This design is based only upon parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly manage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



GIEBEIG - LOT 58 CW Truss Type Qty Truss Job T32687493 8 JACK-OPEN CJ3 3833091 Job Reference (optional) 8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Jan 19 13:07:57 2024 Page 1 Lake City, FL - 32055 Builders FirstSource (Lake City,FL), ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-QayFA_kA8aqFEBagHNBi69PX?t2KD?XewdYy_ztnTm Scale = 1:14.6 6.00 12 1-5-8 0-4-3 10 3x4 =

									CSO SEPERASON	
SPACING.	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
THE RESERVE TO SERVE THE PARTY OF THE PARTY			0.30	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
A CONTRACTOR OF THE PROPERTY O		2007				4-7	>999	180	27.55	
The state of the s		2.0034210				3				
Control of the Contro	ALCOHOL STATE OF THE PARTY OF T	2000000		11012(01)	0.00	•	1110		Weight: 13 lb	FT = 20%
	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES	Plate Grip DOL 1.25 TC Lumber DOL 1.25 BC Rep Stress Incr YES WB	Plate Grip DOL 1.25 TC 0.30 Lumber DOL 1.25 BC 0.06 Rep Stress Incr YES WB 0.00	Plate Grip DOL 1.25 TC 0.30 Vert(LL) Lumber DOL 1.25 BC 0.06 Vert(CT) Rep Stress Incr YES WB 0.00 Horz(CT)	Plate Grip DOL 1.25 TC 0.30 Vert(LL) -0.00 Lumber DOL 1.25 BC 0.06 Vert(CT) -0.01	Plate Grip DOL 1.25 TC 0.30 Vert(LL) -0.00 4-7 Lumber DOL 1.25 BC 0.06 Vert(CT) -0.01 4-7 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3	Plate Grip DOL 1.25 TC 0.30 Vert(LL) -0.00 4-7 >999 Lumber DOL 1.25 BC 0.06 Vert(CT) -0.01 4-7 >999 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a	Plate Grip DOL 1.25 TC 0.30 Vert(LL) -0.00 4-7 >999 240 Lumber DOL 1.25 BC 0.06 Vert(CT) -0.01 4-7 >999 180 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a	Plate Grip DOL 1.25 TC 0.30 Vert(LL) -0.00 4-7 >999 240 MT20 Lumber DOL 1.25 BC 0.06 Vert(CT) -0.01 4-7 >999 180 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=90(LC 12)

Max Uplift 3=-35(LC 12), 2=-92(LC 12), 4=-16(LC 9)

Max Grav 3=52(LC 1), 2=253(LC 1), 4=47(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 3-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cort 6634 16025 Swingley Ridge Rd. Chenterfield, MO 63017

January 22,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building design are must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job + Truss Truss Type Qty GIEBEIG - LOT 58 CW T32687494 3833091 CJ5 Jack-Open Job Reference (optional) 8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Jan 19 13:07:58 2024 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-unWeNK_MxSihtOmmD?uQFKiaHPBj3gFhsaN6UQztnTI Scale = 1:19.5 6.00 12 0-4-3

						7						
LOADING TCLL TCDL	(psf) 20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.30 0.23	DEFL. Vert(LL) Vert(CT)	in -0.02 -0.05	(loc) 4-7 4-7	l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2023/T	YES PI2014	WB Matri	0.00 x-MP	Horz(CT)	0.00	3	n/a	n/a	Weight; 19 lb	FT = 20%

LUMBER-

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

TOP CHORD BOT CHORD

5-0-0

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=128(LC 12)

Max Uplift 3=-74(LC 12), 2=-98(LC 12)

Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES- (7

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J, O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chenterfield, MO 63017 Date:

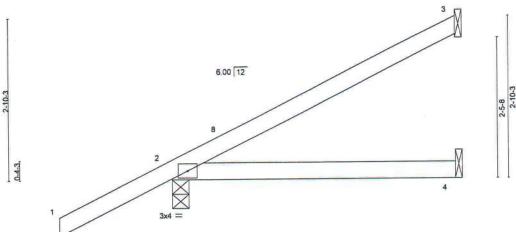
January 22,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent loolapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPIT Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



GIEBEIG - LOT 58 CW Qty Truss Type Truss .lob T32687495 3 JACK-OPEN EJ5 3833091 Job Reference (optional) 8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Jan 19 13:07:59 2024 Page 1 Lake City, FL - 32055 Builders FirstSource (Lake City,FL), ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-Mz30ag?_ilqYVYLyniPfnXFl1pXyo6Vq5D6f1sztnTk Scale = 1:19.5



							-0-0				1	
LOADING TCLL TCDL	(psf) 20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.30 0.23	DEFL. Vert(LL) Vert(CT)	in -0.02 -0.05	(loc) 4-7 4-7	I/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL	0.0 *	Rep Stress Incr Code FBC2023/T	YES PI2014	WB Matri:	0.00 x-MP	Horz(CT)	0.00	3	n/a	n/a	Weight: 19 lb	FT = 20%

LUMBER-

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

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=128(LC 12)

Max Uplift 3=-74(LC 12), 2=-98(LC 12)

Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

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.

> This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE. No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters share research and individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Qty GIEBEIG - LOT 58 CW Truss Truss Type Job T32687496 23 EJ7 JACK 3833091 Job Reference (optional) 8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Jan 19 13:08:00 2024 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-q9dOo00cT3yP6hw9LPwuKlnr3DpuXZlzKtsCZlztnTj

> 6.00 12 F 3x4 /

DADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	V defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1,25	TC	0.60	Vert(LL)	0.10	4-7	>837	240	MT20	244/190
	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.21	4-7	>395	180	54477402040	
100000		YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	I.	
DL 0.0 *	Rep Stress Incr Code FBC2023/T			x-MP	11012(01)	0.00	-	1110	100	Weight: 26 lb	FT = 20%

LUMBER-

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

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=161(LC 12)

Max Uplift 3=-97(LC 12), 2=-110(LC 12) Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb)
- 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

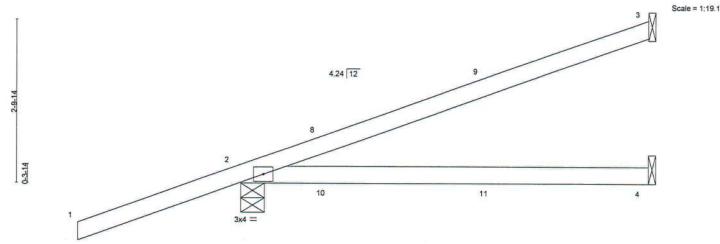
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

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| Truss | Trus



		7-0-14										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.10	4-7	>836	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.15	4-7	>565	180		2111100
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS			_			Weight: 26 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-TOP CHORD 7-0-14

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-15, 4=Mechanical

Max Horz 2=147(LC 25)

Max Uplift 3=-90(LC 8), 2=-200(LC 4), 4=-41(LC 5) Max Grav 3=141(LC 1), 2=347(LC 1), 4=110(LC 3)

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

NOTES- (9)

- Wind: ASCÉ 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=200.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-5-12, 63 lb down and 103 lb up at 1-5-12, and 21 lb down and 40 lb up at 4-3-11, and 21 lb down and 40 lb up at 4-3-11 on top chord, and 52 lb down and 75 lb up at 1-5-12, 52 lb down and 75 lb up at 1-5-12, and 45 lb down and 23 lb up at 4-3-11, and 45 lb down and 23 lb up at 4-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) 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.

LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-3=-54, 4-5=-20

Concentrated Loads (lb)

Vert: 8=49(F=24, B=24) 10=70(F=35, B=35) 11=4(F=2, B=2)

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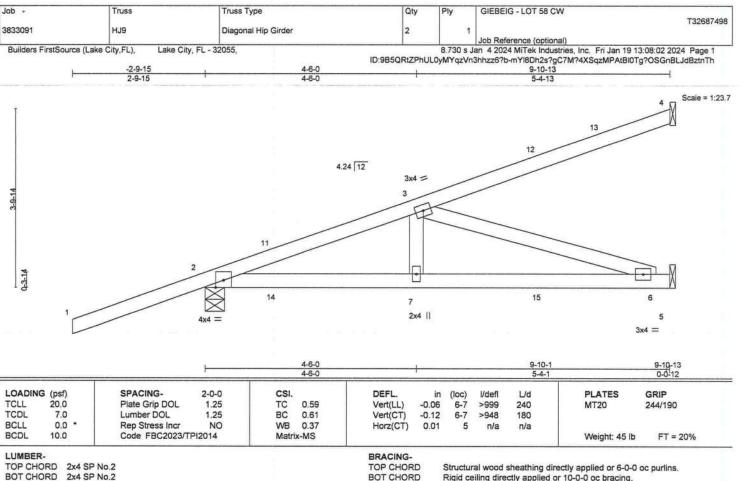
Philip J. O'Regan PE No. 58126 MITek luc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 22,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





WEBS REACTIONS.

2x4 SP No.2 BOT CHORD 2x4 SP No.3

(size) 4=Mechanical, 2=0-4-15, 5=Mechanical Max Horz 2=180(LC 4)

Max Uplift 4=-90(LC 4), 2=-231(LC 4), 5=-76(LC 8) Max Grav 4=150(LC 1), 2=466(LC 1), 5=268(LC 3)

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

TOP CHORD 2-3=-661/257

BOT CHORD 2-7=-298/608, 6-7=-298/608 WEBS 3-7=-3/251, 3-6=-638/312

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=231.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-5-12, 63 lb down and 103 lb up at 1-5-12, 21 lb down and 40 lb up at 4-3-11, 21 lb down and 40 lb up at 4-3-11, and 44 lb down and 83 lb up at 7-1-10, and 44 lb down and 83 lb up at 7-1-10 on top chord, and 26 lb down and 75 lb up at 1-5-12, 26 lb down and 75 lb up at 1-5-12, 19 lb down and 23 lb up at 4-3-11, 19 lb down and 23 lb up at 4-3-11, and 42 lb down at 7-1-10, and 42 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) 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.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 7=4(F=2, B=2) 11=49(F=24, B=24) 12=-63(F=-31, B=-31) 14=70(F=35, B=35) 15=-49(F=-25, B=-25)

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Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Regnu PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfluid, MO 63017

January 22,2024

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Sfructural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 58 CW	•
						T32687499
3833091	TO3	Common	9	1		
					Job Reference (optional)	
Builders FirstSource	e (Lake City,FL), Lake Ci	ty, FL - 32055,	100000000000000000000000000000000000000	8.730 s J	lan 4 2024 MiTek Industries, Inc. Fri Ja	n 19 13:08:04 2024 Page 1
	PROPERTY OF THE PROPERTY OF TH	95 (2000)	ID:9B5QRt	ZPhUL0yM	IYqzVn3hhzz6?b-ixtveN37XITrbJEwaF?	qUbyacq3tTJjZFVqQi4ztnTf
-2-0-0	4-9-0	10-0-0	-	15-3-0	20-0-0	22-0-0
2-0-0	4-9-0	5-3-0		5-3-0	4-9-0	2-0-0

4x4 = Scale = 1:39.0

4

6.00 12

2x4 \(\) 18

3

10

9

8

3x4 = 3x6 = 3x4 =

	1	6-7-1 6-7-1		-		13-4-15 6-9-14					20-0-0 6-7-1		
	0.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.44	DEFL. Vert(LL)	-0.17	(loc) 8-10	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190	
BCLL	7.0 0.0 * 0.0	Lumber DOL Rep Stress Incr Code FBC2023/T	1.25 NO PI2014	BC WB Matri	0.95 0.26 x-MS	Vert(CT) Horz(CT)	-0.34 0.04	8-10 6	>706 n/a	180 n/a	Weight: 96 lb	FT = 20%	

LUMBER-

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

3x6 =

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins.

Rigid ceiling directly applied or 8-9-2 oc bracing.

REACTIONS. (size

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=100(LC 12)

Max Uplift 2=-308(LC 12), 6=-308(LC 13)

Max Grav 2=1053(LC 1), 6=1053(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1772/482, 3-4=-1621/461, 4-5=-1621/466, 5-6=-1772/482

BOT CHORD 2-10=-442/1541, 8-10=-207/1017, 6-8=-359/1541

WEBS 4-8=-213/676, 4-10=-213/676

NOTES- (8)

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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=308, 6=308.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 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.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

3x6 =

Philip J. O'Regan PE No. 58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfleid, MO 63017 Date:

January 22,2024

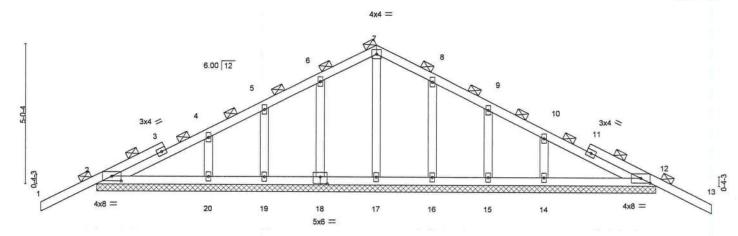
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job -	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 58 CW	
3833091	T03G	Common Supported Gable	1	1		T3268750
Duildes FirstCourse	a /I also City F1 \ I also	Oib. El 20055			Job Reference (optional)	
Builders FirstSource	e (Lake City,FL), Lake	City, FL - 32055,	ID-9850P+7Phi		lan 4 2024 MiTek Industries, Inc. Fri Jan 19 n3hhzz6?b-B7RHrj4IHbbhDTo68zW31oVoLE	
-2-0	0-0	10-0-0	ID.SDSQRIZEFIC	occylol i qzv	20-0-0	22-0-0
2-0-	-0 '	10-0-0			10-0-0	2-0-0

Scale = 1:39.7



						20-0-0						
Plate Off	sets (X,Y)-	[2:0-4-0,0-2-1], [12:0-4-0,	.0-2-1], [18:0-3	-0,0-3-0]		20-0-0						
LOADIN	ar .	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.02	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.02	13	n/r	120	123963000	138.00 to 308.00 to
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-S						Weight: 105 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.).

Rigid ceiling directly applied or 6-0-0 oc bracing.

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 20-0-0

(lb) - Max Horz 2=-95(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14

Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 16, 15, 14 except 2=265(LC 25), 12=265(LC

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

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 20, 16, 15, 14.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Philip J. O'Regna PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

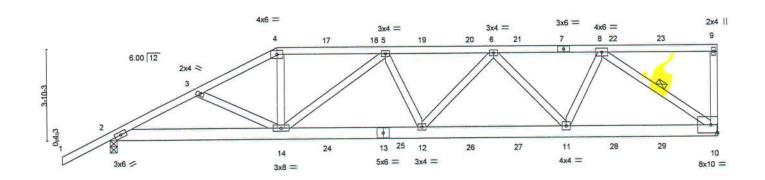
January 22,2024

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GIEBEIG - LOT 58 CW Truss Type Qty Joh Truss T32687501 T04 Half Hip Girder 3833091 Job Reference (optional) 8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Jan 19 13:08:07 2024 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-7WY1GP5?pDrPSmyVFNYX6Da2D18ugal?xT24JOztnTc Lake City, FL - 32055 Builders FirstSource (Lake City,FL), 25-5-0 16-0-12 20-7-2

Scale = 1:46.1



1	7-0-0 7-0-0	13-0-8 6-0-8	1	19-1-0 6-0-8		25-5-0 6-4-0		
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2023/TPI2014	CSI. TC 0.60 BC 0.74 WB 0.65 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.15 12-14 >999 -0.29 12-14 >999 0.08 10 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 156 lb	GRIP 244/190 FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

WEBS

REACTIONS.

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

2x4 SP No.3

(size) 10=Mechanical, 2=0-3-8

Max Horz 2=169(LC 8)

Max Uplift 10=-657(LC 5), 2=-581(LC 8) Max Grav 10=2087(LC 1), 2=1817(LC 1)

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

TOP CHORD 2-3=-3475/109

2-3=-3475/1092, 3-4=-3300/1027, 4-5=-2971/957, 5-6=-3617/1107, 6-8=-2686/810,

9-10=-291/171

BOT CHORD 2-14=-1064/3084, 12-14=-1167/3618, 11-12=-1079/3356, 10-11=-718/2211

WEBS 4-14=-242/1096, 5-14=-877/341, 6-12=-83/433, 6-11=-1020/427, 8-11=-245/1191,

8-10=-2710/880

NOTES- (11)

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Refer to girder(s) for truss to truss connections.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=657, 2=581.

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 100 lb up at 7-0-0, 106 lb down and 100 lb up at 9-0-12, 106 lb down and 100 lb up at 11-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 15-0-12, 106 lb down and 100 lb up at 15-0-12, 106 lb down and 100 lb up at 15-0-12, 106 lb down and 100 lb up at 121-0-12, and 106 lb down and 100 lb up at 21-0-12, and 106 lb down and 100 lb up at 25-3-4 on top chord, and 296 lb down and 103 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, and 106 lb down at 15-0-12, 85 lb

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Structural wood sheathing directly applied or 2-9-14 oc purlins,

8-10

Rigid ceiling directly applied or 6-10-8 oc bracing.

except end verticals.

1 Row at midpt

Philip J. O'Regan PE No. 58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 22,2024

LOAD CASE(S) Standard

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Job +	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 58 CW
3833091	T04	Half Hip Girder	1	1	13268/501
	1030	1025 69 F O 1 10 10 10 10 10 10 10 10 10 10 10 10 1			Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Jan 19 13:08:07 2024 Page 2 ID:985QRtZPhUL0yMYqzVn3hhzz6?b-7WY1GP5?pDrPSmyVFNYX6Da2D18ugal?xT24JOztnTc

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-9=-54, 2-10=-20

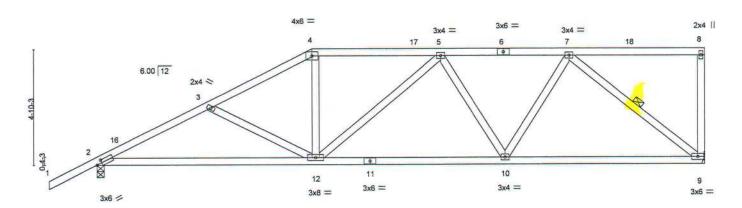
Concentrated Loads (lb)

Tarted Load's (m) 7=-106(B) 9=-127(B) 10=-69(B) 14=-287(B) 12=-61(B) 11=-61(B) 17=-106(B) 18=-106(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-106(B) 23=-106(B) 24=-61(B) 25=-61(B) 26=-61(B) 27=-61(B) 28=-61(B) 29=-61(B)



Job	Truss	Truss Type		Qty	Ply	GIEBEIG - LOT 58 CW		T32687502
3833091	T05	Half Hip		1	1	Job Reference (optional)		102001002
Builders FirstSource	(Lake City,FL), Lake	City, FL - 32055,	ID:9B	50RtZP	8.730 s J	an 4 2024 MiTek Industries, In Vn3hhzz6?b-bi6QTl6daWzG4v		
-2-0-0	4-9-4	9-0-0	14-4-8			19-9-0	25-5-0	
2-0-0	4-9-4	4-2-12	5-4-8			5-4-8	5-8-0	

Scale = 1:46.1



	9-0-0				17-0-12 8-0-12					25-5-0 8-4-4			
Plate Offse	ets (X,Y)-	[2:0-2-9,0-1-8]				G-U-12					V-1-1		
LOADING	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.41	DEFL. Vert(LL)	in -0.14	(loc) 12-15	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190	
TCDL BCLL BCDL	7.0 0.0 *	Lumber DOL Rep Stress Incr Code FBC2023/T	1.25 YES PI2014	BC WB Matrix	0.74 0.35 -MS	Vert(CT) Horz(CT)	-0.29 0.05	12-15 9	>999 n/a	180 n/a	Weight: 136 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD WEBS

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 9=Mechanical, 2=0-3-8

Max Horz 2=207(LC 12)

Max Uplift 9=-291(LC 9), 2=-319(LC 12) Max Grav 9=931(LC 1), 2=1047(LC 1)

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

TOP CHORD 2-3=-1668/492, 3-4=-1406/399, 4-5=-1217/392, 5-7=-1143/330

BOT CHORD 2-12=-556/1467, 10-12=-397/1286, 9-10=-293/901

WEBS 3-12=-294/186, 4-12=-45/408, 5-10=-281/187, 7-10=-127/490, 7-9=-1140/376

NOTES- (9

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 25-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=291, 2=319.
- 9) 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 4-4-12 oc purlins,

Rigid ceiling directly applied or 7-10-14 oc bracing.

except end verticals.

1 Row at midpt

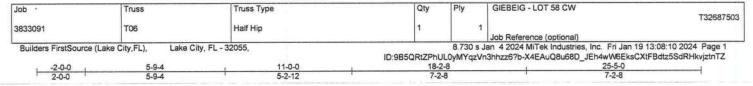
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

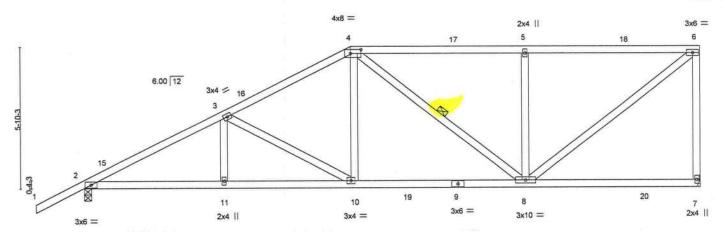
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





Scale = 1:45.9



	1	3-9-4		11-0-0			10-2-0					
		5-9-4		5-2-12			7-2-8				7-2-8	
Plate Offse	ets (X,Y)-	[4:0-5-4,0-2-0]					7501-211-211					
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	0.64	Vert(LL)	-0.10	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.18	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matrix	x-MS						Weight: 143 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

18-2-8

LUMBER-

TOP CHORD 2x4 SP No.2

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

REACTIONS.

(size) 7=Mechanical, 2=0-3-8

Max Horz 2=246(LC 12) Max Uplift 7=-283(LC 9), 2=-318(LC 12) Max Grav 7=1042(LC 2), 2=1108(LC 2)

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

2-3=-1827/460, 3-4=-1364/369, 4-5=-1010/276, 5-6=-1010/276, 6-7=-908/300 TOP CHORD

2-11=-557/1594, 10-11=-557/1594, 8-10=-371/1182 BOT CHORD

3-10=-494/214, 4-10=-66/480, 4-8=-251/129, 5-8=-451/254, 6-8=-344/1259 WEBS

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 25-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

11-0-0

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

25-5-0

Structural wood sheathing directly applied or 4-1-8 oc purlins,

Rigid ceiling directly applied or 7-10-12 oc bracing.

except end verticals.

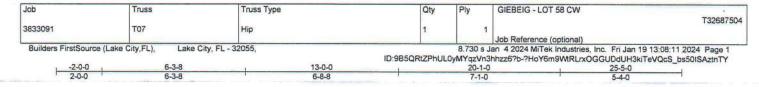
1 Row at midpt

Philip J. O'Regau PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly and permanent properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly and properly general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





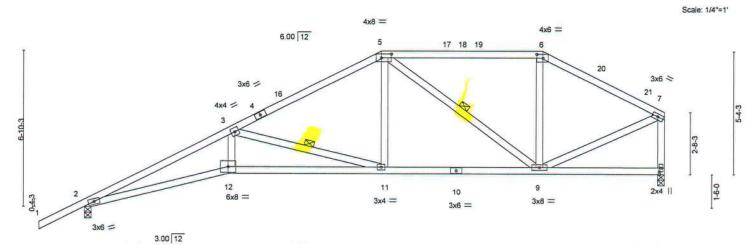


Plate Offsets (X,Y)-	6-3-8 6-3-8 [5:0-5-4,0-2-0], [6:0-3-4,0-2-0]	13-0-0 6-8-8	20-1-0 7-1-0	25-5-0 5-4-0
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	TC 0.65 V BC 0.76 V	EFL. in (loc) I/defl L/d ert(LL) -0.18 11-12 >999 240 ert(CT) -0.36 11-12 >842 180 orz(CT) 0.15 8 n/a n/a	PLATES GRIP MT20 244/190 Weight: 133 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=227(LC 12)

Max Uplift 2=-311(LC 12), 8=-213(LC 13) Max Grav 2=1047(LC 1), 8=931(LC 1)

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

2-3=-3017/953, 3-5=-1412/406, 5-6=-804/239, 6-7=-955/243, 7-8=-884/224

BOT CHORD 2-12=-1004/2727, 11-12=-954/2577, 9-11=-359/1207

WEBS 3-12=-205/756, 3-11=-1432/619, 5-11=-115/562, 5-9=-541/218, 7-9=-193/848

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 20-1-0, Zone2 20-1-0 to 24-3-15, Zone1 24-3-15 to 25-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=311.8=213.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Structural wood sheathing directly applied or 3-1-10 oc purlins,

3-11, 5-9

Rigid ceiling directly applied or 5-11-1 oc bracing.

except end verticals

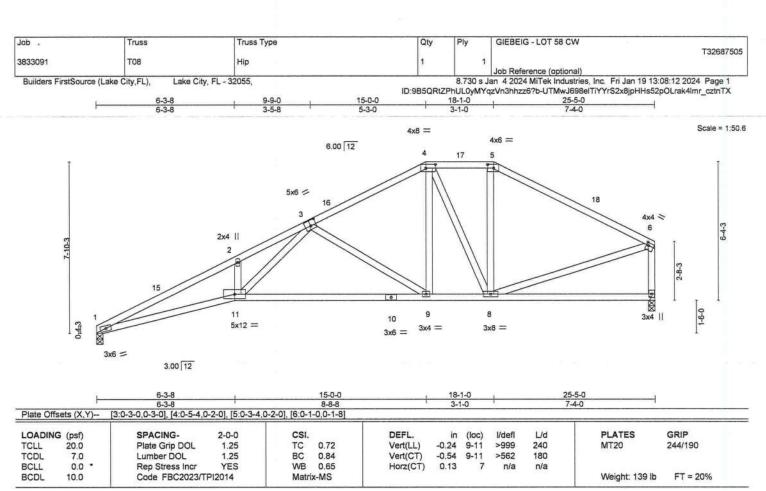
1 Row at midpt

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

January 22,2024

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design value of use only within with reke controctors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 **BOT CHORD**

2x4 SP No.3 WEBS

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-8-14 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-9-2 oc bracing.

REACTIONS.

(size) 1=0-3-8, 7=0-3-8

Max Horz 1=211(LC 12)

Max Uplift 1=-255(LC 12), 7=-212(LC 12) Max Grav 1=935(LC 1), 7=935(LC 1)

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

TOP CHORD 1-2=-3043/945, 2-3=-3018/1050, 3-4=-1142/338, 4-5=-832/281, 5-6=-1015/283,

6-7=-863/232

BOT CHORD 1-11=-1013/2753, 9-11=-600/1651, 8-9=-266/971

WEBS 3-11=-551/1443, 3-9=-817/398, 4-9=-168/579, 4-8=-397/147, 6-8=-196/793

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone3 15-0-0 to 18-1-0, Zone2 18-1-0 to 22-3-15, Zone1 22-3-15 to 25-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=255, 7=212.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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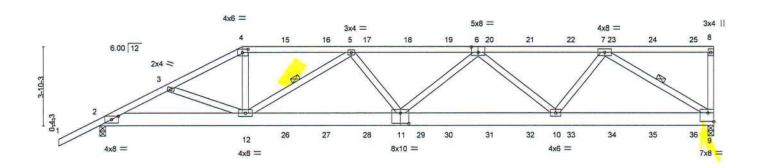
January 22,2024

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord mehres only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord mehres only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord mehres only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss was the same and/or chord metals and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 58 CW	T3268	7506
3833091	Т09	Half Hip Girder	1	1	Andrew College College	Harting and the second	MEST TO
	ACCOUNTS AND ASSESSMENT OF THE PARTY OF THE	10000000000000000000000000000000000000			Job Reference (optional)		
Builders FirstSource (Lake (City,FL), Lake City, FL -	32055,				Inc. Fri Jan 19 13:08:14 2024 Page	
			ID:985QRtZPhU	LOyMYqzVr	n3hhzz6?b-QsThkoBOAMjQ	or_r9MABuiM9JseXpiG1Y3Fy3UztnT	V
, -2-0-0 , 3-6-0	7-0-0	12-4-0	18-6-7		24-9-0	30-1-0	
2-0-0 3-6-0	3-6-0	5-4-0	6-2-7		6-2-9	5-4-0	

Scale = 1:54.0



	4	7-0-0	1	14-8-1	12		22	-4-3		1	30-1-0	1
	1	7-0-0		7-8-1	2		7-	7-7		1	7-8-13	
Plate Offse	ets (X,Y)-	[2:0-4-0,0-1-15], [4:0-3-4,	0-2-0], [6:0-4-0),0-3-4], [9:E	dge,0-5-0], [11:0-5-0,0-6-0]		-				
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	0.93	Vert(LL)	-0.21	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.39	11	>910	180	STEERING STATES	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS	I SERBANDEROUSE					Weight: 200 lb	FT = 20%

BRACING-TOP CHORD

WEBS

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*

1-4: 2x4 SP No.2

2x8 SP 2400F 2.0E BOT CHORD

2x4 SP No.3 WEBS

REACTIONS. (size) 9=0-3-8, 2=0-3-8

Max Horz 2=168(LC 8)

Max Uplift 9=-828(LC 5), 2=-700(LC 8) Max Grav 9=2497(LC 1), 2=2194(LC 1)

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

2-3=-4256/1332, 3-4=-4121/1267, 4-5=-3720/1179, 5-6=-5107/1552, 6-7=-3884/1160, TOP CHORD

8-9=-377/223

2-12=-1276/3763, 11-12=-1609/4983, 10-11=-1579/4872, 9-10=-987/2984 **BOT CHORD WEBS** 4-12=-332/1421, 5-12=-1554/586, 5-11=0/397, 6-11=-12/450, 6-10=-1325/571,

7-10=-311/1560, 7-9=-3513/1159

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=828, 2=700.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 100 lb up at 7-0-0, 106 lb down and 100 lb up at 9-0-12, 106 lb down and 100 lb up at 11-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 15-0-12, 106 lb down and 100 lb up at 17-0-12, 106 lb down and 96 lb up at 19-0-12, 106 lb down and 100 lb up at 21-0-12, 106 lb down and 100 lb up at 23-0-12, 106 lb down and 100 lb up at 25-0-12, 106 lb down and 100 lb up at 27-0-12, and 109 lb down and 100 lb up at 29-0-12, and 135 lb down and 98 lb up at 29-11-4 on top chord, and 296 lb down and 103 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, 85 lb down at 25-0-12, and 85 lb down at 27-0-12, and 87 lb down at 29-0-12 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.

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Structural wood sheathing directly applied, except end verticals.

5-12 7-9

Rigid ceiling directly applied or 9-5-5 oc bracing.

1 Row at midpt

Philip J. O'Regen PE No. 58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

LOAD CASE S VS 19 0 25 10 parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Value for use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of truss systems, see ANSI/TP11 Quality Criteria and DSB-22. available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job -	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 58 CW T32687506
3833091	T09	Half Hip Girder	1	1	102007 000
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Jan 19 13:08:14 2024 Page 2 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-QsThkoBOAMjQor_r9MABuiM9JseXpiG1Y3Fy3UztnTV

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 2-9=-20

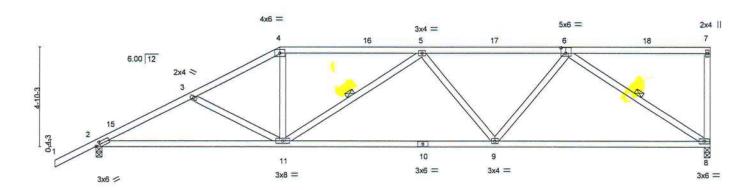
Concentrated Loads (lb)

Vert: 4=-106(F) 8=-135(F) 12=-287(F) 15=-106(F) 16=-106(F) 17=-106(F) 18=-106(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-106(F) 23=-106(F) 24=-106(F) 25=-109(F) 26=-61(F) 27=-61(F) 28=-61(F) 29=-61(F) 30=-61(F) 31=-61(F) 32=-61(F) 33=-61(F) 34=-61(F) 35=-61(F) 36=-62(F)



Job	Truss	Truss Type		Qty	Ply	GIEBEIG - LOT 58 CW	*
3833091	T10	MONO HIP		1	1		T32687507
Transfer and the second	1.4046415				12.0	Job Reference (optional)	
Builders FirstSource	(Lake City,FL),	Lake City, FL - 32055,		The second secon	8.730 s J	an 4 2024 MiTek Industries, Inc. Fri Jan 19 13:08:	16 2024 Page 1
				ID:9B5QRtZPhU	LOyMYqzV	n3hhzz6?b-MEbR9UCei_z8198EHmDfz7Salf9LHg	fK?Nk37NztnTT
, -2-0-0	4-9-5	9-0-0	15-11-9	A CONTRACTOR OF THE CONTRACTOR	23-1-	7 30-1-0	TOTAL STREET,
2-0-0	4-9-5	4-2-11	6-11-9		7-1-1	4 6-11-9	1

Scale = 1:54.0



	1	9-0-0		1		19-6-7		- 1			30-1-0	1
		9-0-0		1		10-6-7					10-6-8	
Plate Offs	ets (X,Y)-	[2:0-2-9,0-1-8], [6:0-2-12	,0-3-4]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.26	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.54	8-9	>670	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS	1. 12					Weight: 155 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* BOT CHORD 8-10: 2x4 SP No.1

WEBS 2x4 SP No.3

REACTIONS.

(size) 8=0-3-8, 2=0-3-8

Max Horz 2=207(LC 12) Max Uplift 8=-349(LC 9), 2=-370(LC 12)

Max Grav 8=1104(LC 1), 2=1219(LC 1)

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

TOP CHORD 2-3=-2046/600, 3-4=-1798/511, 4-5=-1575/494, 5-6=-1666/484

BOT CHORD 2-11=-652/1801, 9-11=-585/1840, 8-9=-439/1326

WEBS 3-11=-272/180, 4-11=-75/526, 5-11=-416/211, 5-9=-282/226, 6-9=-136/606,

6-8=-1546/519

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 29-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=349 2=370
- 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 3-10-5 oc purlins,

5-11.6-8

Rigid ceiling directly applied or 7-3-8 oc bracing.

except end verticals.

1 Row at midpt

Philip J. O'Regnu PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Dure:

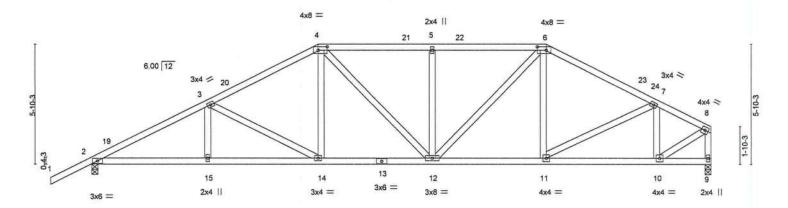
January 22,2024

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property dranage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



	OT 58 CW	GIEBEIG - LC	Ply	Qty	Truss Type		Truss	ob .
T32687508								
			1	1	HIP		T11	833091
	ce (optional)	Job Reference						
an 19 13:08:17 2024 Page 1	Tek Industries, Inc. Fri Jan	Jan 4 2024 MiTe	8.730 s J	9-0 of 5-50 1-50 5-50 60 41 MeMo	32055,	Lake City, FL -:	City,FL),	Builders FirstSource (Lak
K_pq3c909RUE1TcfpztnTS	9pMqDHTH5?fJjQrUkuWK	n3hhzz6?b-qR9p	LOyMYqzVr	ID:985QRtZPhU			essign essign	
30-1-0	27-5-5	0 ,	22-1-0	16-6-8	11-0-0	ii.	5-7-11	, -2-0-0
2-7-11	5-4-5	3	5-6-8	5-6-8	5-4-5	1	5-7-11	2-0-0

Scale = 1:54.0



-	5-7-11	11-0-0	-								30-1-0
	5-7-11	5-4-5		5-6-8			5-6-8			5-4-5	2-7-11
sets (X,Y)-	[4:0-5-4,0-2-0], [6:0-5-4,0)-2-0]									
G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.08	14	>999	240	MT20	244/190
7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.16	12-14	>999	180	C3055C5454	
0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.06	9	n/a	n/a		
10.0	Code FBC2023/T	PI2014	Matrix	-MS						Weight: 173 l	b FT = 20%
	7.0 0.0 •	5-7-11 sets (X,Y)— [4:0-5-4,0-2-0], [6:0-5-4,0 (psf) SPACING- 20.0 Plate Grip DOL 1,0 Lumber DOL 0.0 Rep Stress Incr	5-7-11 5-4-5 sets (X,Y)— [4:0-5-4,0-2-0], [6:0-5-4,0-2-0] G (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.25 7.0 Lumber DOL 1.25 0.0 Rep Stress Incr YES	5-7-11 5-4-5 sets (X,Y)— [4:0-5-4,0-2-0], [6:0-5-4,0-2-0] G (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 7.0 Lumber DOL 1.25 BC 0.0 * Rep Stress Incr YES WB	5-7-11 5-4-5 5-8-8 sets (X,Y)— [4:0-5-4,0-2-0], [6:0-5-4,0-2-0] G (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.34 7.0 Lumber DOL 1.25 BC 0.49 0.0 * Rep Stress Incr YES WB 0.42	5-7-11 5-4-5 5-8-8 sets (X,Y)— [4:0-5-4,0-2-0], [6:0-5-4,0-2-0] G (psf) SPACING- 2-0-0 CSI. DEFL. 20.0 Plate Grip DOL 1.25 TC 0.34 Vert(LL) 7.0 Lumber DOL 1.25 BC 0.49 Vert(CT) 0.0 * Rep Stress Incr YES WB 0.42 Horz(CT)	5-7-11 5-4-5 5-6-8 sets (X,Y)— [4:0-5-4,0-2-0], [6:0-5-4,0-2-0] 6 (psf)	5-7-11 5-4-5 5-6-8 5-6-8 sets (X,Y)— [4:0-5-4,0-2-0], [6:0-5-4,0-2-0] 5 (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.25 TC 0.34 Vert(LL) -0.08 14 7.0 Lumber DOL 1.25 BC 0.49 Vert(CT) -0.16 12-14 0.0 * Rep Stress Incr YES WB 0.42 Horz(CT) 0.06 9	5-7-11 5-4-5 5-6-8 sets (X,Y)— [4:0-5-4,0-2-0], [6:0-5-4,0-2-0] (a) (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl 20.0 Plate Grip DOL 1.25 TC 0.34 Vert(LL) -0.08 14 >999 7.0 Lumber DOL 1.25 BC 0.49 Vert(CT) -0.16 12-14 >999 0.0 * Rep Stress Incr YES WB 0.42 Horz(CT) 0.06 9 n/a	5-7-11 5-4-5 5-6-8 5-6-8 sets (X,Y)— [4:0-5-4,0-2-0], [6:0-5-4,0-2-0] (a) (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d 20.0 Plate Grip DOL 1.25 TC 0.34 Vert(LL) -0.08 14 >999 240 7.0 Lumber DOL 1.25 BC 0.49 Vert(CT) -0.16 12-14 >999 180 0.0 * Rep Stress Incr YES WB 0.42 Horz(CT) 0.06 9 n/a n/a	5-7-11 5-4-5 5-6-8 5-6-8 5-4-5 sets (X,Y)— [4:0-5-4,0-2-0], [6:0-5-4,0-2-0] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES 20.0 Plate Grip DOL 1.25 TC 0.34 Vert(LL) -0.08 14 >999 240 MT20 7.0 Lumber DOL 1.25 BC 0.49 Vert(CT) -0.16 12-14 >999 180 0.0 * Rep Stress Incr YES WB 0.42 Horz(CT) 0.06 9 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD**

2x4 SP No.3 *Except* WEBS

8-9: 2x4 SP No.2

REACTIONS.

(size) 2=0-3-8, 9=0-3-8 Max Horz 2=160(LC 12)

Max Uplift 2=-354(LC 12), 9=-278(LC 13) Max Grav 2=1219(LC 1), 9=1104(LC 1)

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

TOP CHORD 2-3=-2069/543, 3-4=-1626/449, 4-5=-1503/416, 5-6=-1503/416, 6-7=-1383/363,

7-8=-1052/274, 8-9=-1086/279

BOT CHORD 2-15=-547/1800, 14-15=-547/1800, 12-14=-355/1399, 11-12=-217/1175, 10-11=-231/931

3-14=-464/218, 4-14=-69/381, 4-12=-124/267, 5-12=-339/193, 6-12=-176/533,

7-11=-99/341, 7-10=-513/180, 8-10=-275/1097

NOTES-

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 22-1-0, Zone2 22-1-0 to 26-3-15, Zone1 26-3-15 to 29-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=354, 9=278,
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Structural wood sheathing directly applied or 3-10-15 oc purlins,

Rigid ceiling directly applied or 7-11-15 oc bracing.

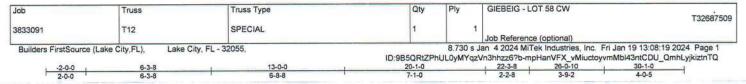
except end verticals.

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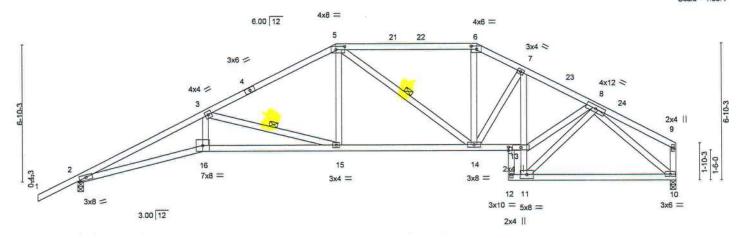
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Scale = 1:55.4



	-	6-3-8 6-3-8	1	13-0-0	20-1- 7-1-		1-7-0		30-1-0 7-9-8	
Plate Offse	ets (X,Y)-	[2:0-4-0,0-1-9], [5:0-5-4,0	-2-0], [6:0-3-4,							
LOADING TCLL TCDL	20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25 YES	CSI. TC 0.76 BC 0.90 WB 0.71	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.25 15-16 -0.50 15-16 0.29 10	l/defl >999 >715 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL BCDL	10.0	Rep Stress Incr Code FBC2023/T		Matrix-MS	11012(01)	0.25	, ira	1114	Weight: 175 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

7-11: 2x4 SP No.3 2x4 SP No.3 *Except* WEBS

9-10: 2x4 SP No 2

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=176(LC 12)

Max Uplift 2=-319(LC 12), 10=-236(LC 13)

Max Grav 2=1223(LC 1), 10=1115(LC 1)

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

2-3=-3735/938, 3-5=-1918/444, 5-6=-1497/399, 6-7=-1672/422, 7-8=-1806/428 TOP CHORD

2-16=-938/3384, 15-16=-891/3203, 14-15=-310/1661, 13-14=-285/1588, 11-13=-201/995, BOT CHORD

3-16=-189/906, 3-15=-1611/604, 5-15=-110/602, 5-14=-313/128, 6-14=-86/484, WEBS

8-13=-332/1630, 8-11=-1265/324, 8-10=-1365/298

(9)

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 20-1-0, Zone2 20-1-0 to 24-3-15, Zone1 24-3-15 to 29-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=319, 10=236
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Structural wood sheathing directly applied or 2-2-0 oc purlins,

3-15, 5-14

Rigid ceiling directly applied or 6-1-9 oc bracing. Except:

except end verticals.

1 Row at midpt

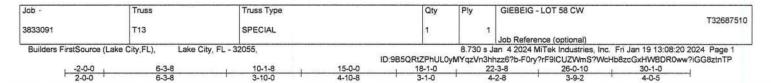
10-0-0 oc bracing: 11-13

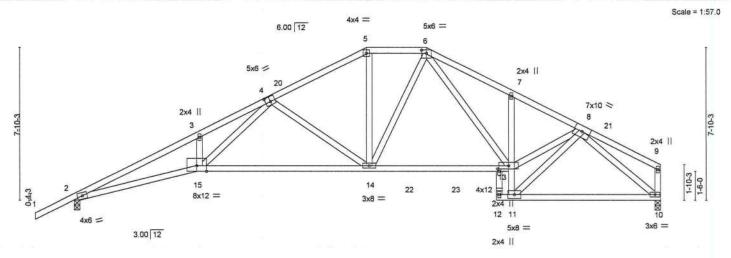
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		6-3-8		8-8-8	- 1	6-8-0	0-7-8	7-9-8	1
Plate Off	sets (X,Y)-	[4:0-3-0,0-3-0], [6:0-3-0,0	-2-0], [16:0-1-8	,0-1-0]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	-0.34 14-15	>999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.66 14-15	>541 180	NACONITION .	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.29 10	n/a n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matrix-MS	i i ana nya-at ana ativo			Weight: 178 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

21-8-0

22-3-8

except end verticals.

2-2-0 oc bracing: 11-13

30-1-0

Structural wood sheathing directly applied or 2-4-5 oc purlins,

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

15-0-0

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

13-15: 2x4 SP No.1, 7-11: 2x4 SP No.3

WEBS 2x4 SP No.3 "Except"

9-10: 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=193(LC 12)

Max Uplift 2=-333(LC 12), 10=-253(LC 13) Max Grav 2=1294(LC 2), 10=1221(LC 2)

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

TOP CHORD 2-3=-4014/968, 3-4=-3971/1074, 4-5=-1785/398, 5-6=-1560/391, 6-7=-2087/508,

7-8=-2033/425

BOT CHORD 2-15=-977/3658, 14-15=-566/2242, 13-14=-221/1445, 11-13=-189/1135, 10-11=-225/1146

WEBS 4-15=-542/1794, 4-14=-846/373, 5-14=-93/610, 6-14=-90/347, 6-13=-248/650,

8-13=-341/1862, 8-11=-1371/309, 8-10=-1445/296

NOTES- (9)

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 15-0-0, Zone3 15-0-0 to 18-1-0, Zone2 18-1-0 to 22-6-1, Zone1 22-6-1 to 29-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=333, 10=253
- 9) 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

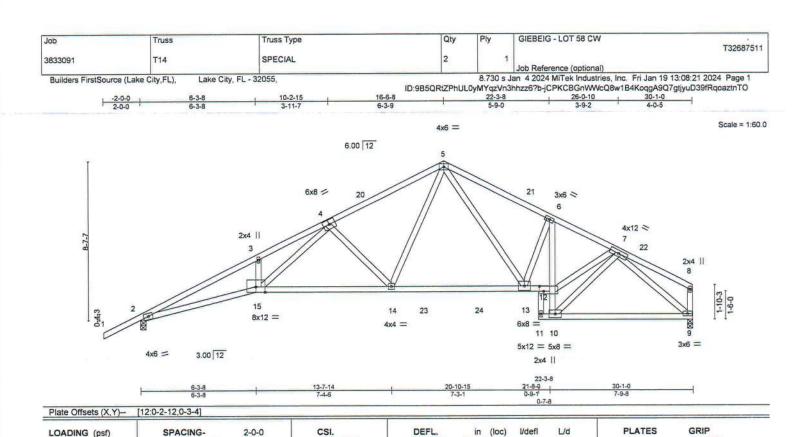
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 22,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





LUMBER-

TCLL

TCDL

BCLL

BCDL

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

2x4 SP No.3 *Except* WEBS

8-9: 2x4 SP No.2

BRACING-

Vert(LL)

Vert(CT)

Horz(CT)

-0.31 14-15

-0.58 14-15

0.29

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-3-6 oc purlins,

MT20

Weight: 176 lb

244/190

FT = 20%

except end verticals.

>999

>621

n/a

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

240

180

n/a

10-0-0 oc bracing: 10-12

REACTIONS.

20.0

7.0

0.0

10.0

(size) 2=0-3-8, 9=0-3-8

Max Horz 2=206(LC 12)

Max Uplift 2=-342(LC 12), 9=-264(LC 13) Max Grav 2=1300(LC 2), 9=1225(LC 2)

Plate Grip DOL

Rep Stress Incr

Code FBC2023/TPI2014

Lumber DOL

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

2-3=-4021/1016, 3-4=-3975/1115, 4-5=-1984/494, 5-6=-1974/473, 6-7=-1979/432

1.25

1.25

YES

TC

BC

WB 0.75

Matrix-MS

0.64

0.96

2-15=-1033/3659, 14-15=-602/2246, 13-14=-244/1342, 12-13=-305/1784, BOT CHORD

10-12=-198/1056, 9-10=-235/1152 4-15=-558/1773, 4-14=-776/380, 5-14=-250/959, 5-13=-222/699, 6-13=-284/222, WEBS

7-12=-343/1717, 7-10=-1247/319, 7-9=-1452/307

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vuit=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 16-6-8, Zone2 16-6-8 to 20-9-7, Zone1 20-9-7 to 29-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

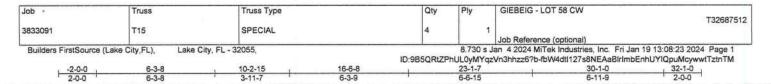
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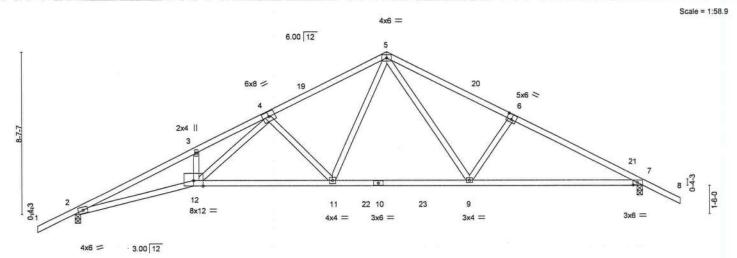
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chenterfield, MO 63017

January 22,2024

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)







	1	6-3-8	1	13-7-14	- i	20-10-1	5			30	-1-0	
		6-3-8		7-4-6		7-3-1			9)	9-	2-1	
Plate Offs	sets (X,Y)-	[6:0-3-0,0-3-4], [7:0-2-12	.0-1-8]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.31	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.59	11-12	>616	180	7417498-7	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.22	7	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matrix	-MS						Weight: 147 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

2x4 SP No.3 WEBS

> (size) 2=0-3-8, 7=0-3-8 Max Horz 2=188(LC 12)

Max Uplift 2=-344(LC 12), 7=-320(LC 13) Max Grav 2=1296(LC 2), 7=1302(LC 2)

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

TOP CHORD 2-3=-4006/1007, 3-4=-3960/1107, 4-5=-1968/496, 5-6=-1984/457, 6-7=-2137/463 2-12=-1007/3651, 11-12=-583/2232, 9-11=-227/1334, 7-9=-320/1880 **BOT CHORD**

WEBS 4-12=-549/1778, 4-11=-778/377, 5-11=-251/941, 5-9=-206/702, 6-9=-376/260

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 16-6-8, Zone2 16-6-8 to 20-9-7, Zone1 20-9-7 to 32-1-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=344 7=320
- 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 2-3-8 oc purlins.

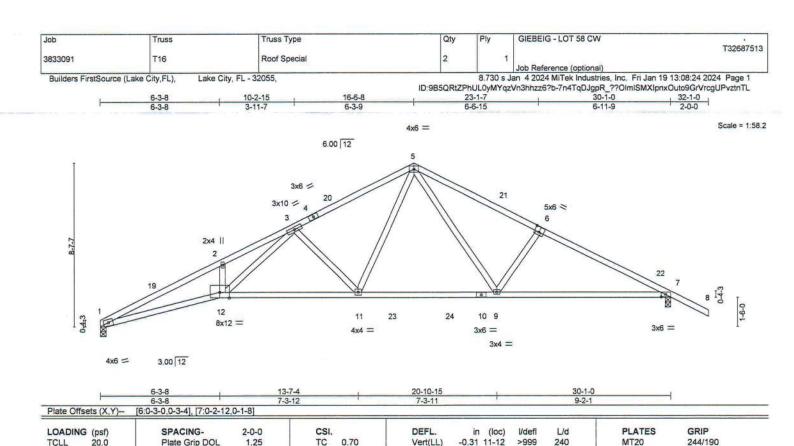
Rigid ceiling directly applied or 2-2-0 oc bracing.

Philip J. O'Regen PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly and permanent properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.58 11-12

0.22

>621

n/a

180

n/a

Rigid ceiling directly applied or 1-4-12 oc bracing.

Structural wood sheathing directly applied or 2-2-0 oc purlins.

Weight: 144 lb

FT = 20%

LUMBER-

REACTIONS.

TCDL

BCLL

BCDL

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

7.0

0.0

10.0

2x4 SP No.3

(size) 1=0-3-8, 7=0-3-8 Max Horz 1=154(LC 12)

Max Uplift 1=-293(LC 12), 7=-320(LC 13) Max Grav 1=1205(LC 2), 7=1305(LC 2)

Lumber DOL

Rep Stress Incr

Code FBC2023/TPI2014

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

1-2=-4059/1045, 2-3=-4020/1150, 3-5=-1986/506, 5-6=-1992/458, 6-7=-2144/464 1-12=-1045/3704, 11-12=-593/2247, 9-11=-231/1340, 7-9=-324/1887

1.25

YES

BC

WB 0.69

Matrix-MS

1.00

BOT CHORD

3-12=-586/1824, 3-11=-785/383, 5-11=-258/953, 5-9=-206/704, 6-9=-376/260 WEBS

NOTES-

TOP CHORD

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-2, Zone1 3-0-2 to 16-6-8, Zone2 16-6-8 to 20-9-9, Zone1 20-9-9 to 32-1-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=293, 7=320.
- 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. S8126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

January 22,2024

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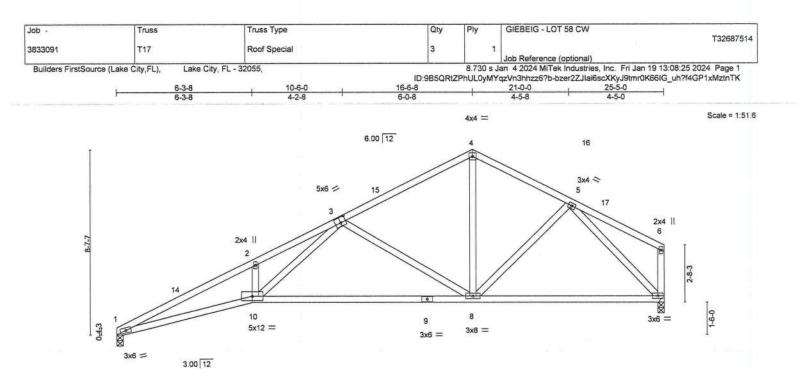


Plate Offsets (X,Y)-[3:0-3-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI DEFL **V**def L/d PLATES GRIP in (loc) 20.0 Plate Grip DOL TC 0.58 Vert(LL) -0.338-10 >923 240 MT20 244/190 TCLL 1.25 TCDL 1.25 BC 0.81 Vert(CT) -0.71>427 180 7.0 Lumber DOL 8-10 WB BCLL 0.0 Rep Stress Incr YES 0.83 Horz(CT) 0.14 n/a n/a Code FBC2023/TPI2014 Weight: 132 lb FT = 20% Matrix-MS BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* 7-9: 2x4 SP No.1

WEBS 2x4 SP No.3

REACTIONS.

(size) 1=0-3-8, 7=0-3-8 Max Horz 1=224(LC 12)

Max Uplift 1=-251(LC 12), 7=-216(LC 12) Max Grav 1=935(LC 1), 7=935(LC 1)

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

TOP CHORD 1-2=-3048/938, 2-3=-3026/1047, 3-4=-1006/282, 4-5=-981/311

BOT CHORD 1-10=-1019/2758, 8-10=-570/1546, 7-8=-184/723

WEBS 3-10=-579/1535, 3-8=-838/429, 4-8=-135/565, 5-7=-1020/271

NOTES- (8)

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 16-6-8, Zone2 16-6-8 to 20-9-7, Zone1 20-9-7 to 25-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=251, 7=216.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Structural wood sheathing directly applied or 2-8-12 oc purlins,

Rigid ceiling directly applied or 5-8-13 oc bracing.

except end verticals.

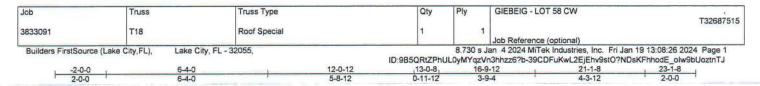
Philip J. O'Regan PE No. 58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

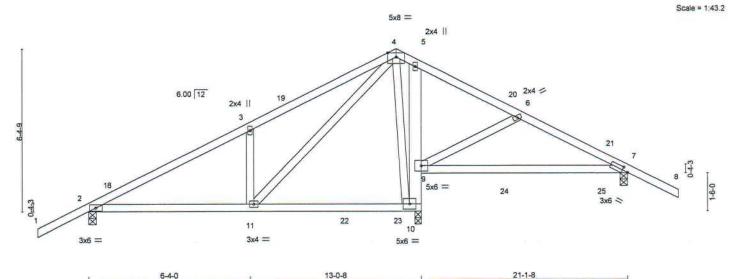
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		6-4-0		1	6-8-8					8-1-0		
Plate Offs	sets (X,Y)-	[7:0-2-9,0-1-8]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.10	9-17	>983	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.21	9-17	>493	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS	720000000000000000				2000000	Weight: 118 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-10: 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 7=0-3-8, 10=0-3-0

Max Horz 2=150(LC 12)

Max Uplift 2=-186(LC 12), 7=-175(LC 13), 10=-185(LC 12) Max Grav 2=555(LC 27), 7=376(LC 26), 10=972(LC 2)

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

TOP CHORD

2-3=-603/163, 3-4=-622/299 2-11=-192/514, 9-10=-401/237

BOT CHORD WEBS

3-11=-356/256, 4-11=-310/771, 4-10=-500/151, 6-9=-284/185

NOTES- (7)

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 12-0-12, Zone2 12-0-12 to 16-3-11, Zone1 16-3-11 to 23-1-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=186, 7=175, 10=185.
- 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

Philip J. O'Regnu PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Ortheria and DSB-22. available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job .	Truss	Truss Type	Qty	Ply	GIEBEIG - LO	T 58 CW	
3833091	T18G	Roof Special Supported Gable	1	1			T32687516
Builders FirstSou	urce (Lake City,FL),	Lake City, FL - 32055.	25.	8 730 s	Job Reference		19 13:08:28 2024 Page 1
			ID:9B5QRtZPhUL	.OyMYqzVr	n3hhzz6?b-0YKz	gaMAtgURT?3X IQTTex	iyVSh5Bn5mEehYhztnTH
	-2-0-0	12-0-12	13-0-8		6-9-12	21-1-8	, 23-1-8
	2-0-0	12-0-12	0-11-12		3-9-4	4-3-12	2-0-0

Scale = 1:44.

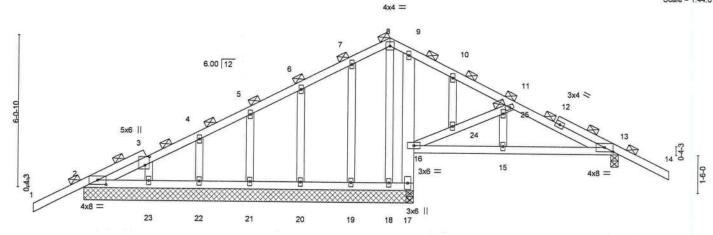


Plate Offsets (X,Y)-	[2:0-4-0,0-2-1], [3:0-4-2,0-2-0], [13:0-4-	12-0-12 0,0-2-1]	0-11-12	8-1-0	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.28 BC 0.17 WB 0.25 Matrix-S	Vert(LL) 0.02 13-15 >	/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 132 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

13-0-8

2-0-0 oc purlins (6-0-0 max.).

1 Brace at Jt(s): 8, 25

10-0-0 oc bracing: 15-16,13-15.

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

9-17: 2x6 SP No.2

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS. All bearings 13-0-8 except (jt=length) 13=0-3-8.

(lb) - Max Horz 2=145(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 23 except 13=-178(LC 13), 17=-124(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 18 except 13=399(LC 1), 17=353(LC 1),

17=353(LC 1)

12-0-12

17=353(LC 1)

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

TOP CHORD 11-13=-342/308

BOT CHORD 16-17=-381/301, 15-16=-199/272, 13-15=-199/272 WEBS 16-24=-355/311, 24-25=-348/305, 11-25=-318/276

NOTES- (11)

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For stude 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.

6) Gable studs spaced at 2-0-0 oc.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 23 except (it=lb) 13=178, 17=124.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

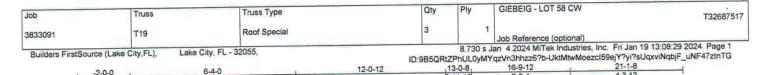
Philip J. O'Regan PE No. 58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

January 22,2024

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Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters only ropperly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSUTPIT Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





Scale = 1:42.1 5x8 = 2x4 || 5 2x4 = 19 6.00 12 2x4 || 5x6 = 23 24 22 9 21 10 6x8 = 3x4 = 3x6 =

	6-4-0 6-4-0	13-0-8 6-8-8		21- 8-	1-8
Plate Offsets (X,Y)— LOADING (psf) TCLL 20.0	(7:0-2-9.0-1-8 SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Lumber DOL 1.25 SPACING S	CSI. DEFL. TC 0.46 Vert(LL BC 0.46 Vert(C		3 >948 240	PLATES GRIP MT20 244/190
TCDL 7.0 BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2023/TPI2014	WB 0.40 Horz(C Matrix-MS	T) 0.01	7 n/a n/a	Weight: 114 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2 *Except* 5-9: 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS.

(size) 7=0-3-8, 2=0-3-8, 9=0-3-0

Max Horz 2=167(LC 12)

Max Uplift 7=-108(LC 8), 2=-179(LC 12), 9=-201(LC 12) Max Grav 7=266(LC 28), 2=554(LC 27), 9=987(LC 2)

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

2-3=-602/149, 3-4=-620/285 TOP CHORD

2-10=-195/508, 8-9=-407/238 BOT CHORD

3-10=-356/256, 4-10=-310/771, 4-9=-485/166, 6-8=-316/205 WEBS

NOTES-(7)

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 12-0-12, Zone2 12-0-12 to 16-3-11, Zone1 16-3-11 to 21-1-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

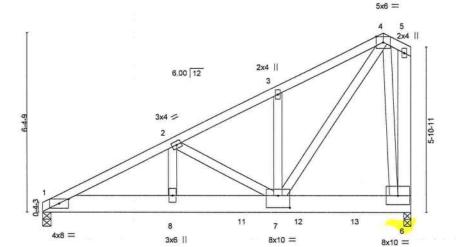
Rigid ceiling directly applied or 6-0-0 oc bracing.

Philip J. O'Regna PE No.58126 MTek Inc. DBA MTek USA FL Cert 6634 16623 Swingley Ridge Rd. Chesterfield, MO 63017 Dates

January 22,2024

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MTIEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing building design. Bracing indicated is to prevent collapse with possible personal injury and properly damage. For general guidance regarding the is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fishication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





4-8-8 Plate Offsets (X,Y)-[1:0-4-0,0-1-15], [7:0-5-0,0-5-4] LOADING (psf) SPACING-2-0-0 CSI DEFL (loc) I/def 1 /d PLATES GRIP TCLL 20.0 Plate Grip DOL 7-8 244/190 1.25 TC 0.15 Vert(LL) -0.04>999 240 MT20 TCDL 1.25 BC 7.0 Lumber DOL 0.23 Vert(CT) -0.08 7-8 >999 180 Rep Stress Incr WB BCLL 0.0 NO 0.79 Horz(CT) 0.01 6 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

Matrix-MS

13-0-8

except end verticals

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SP No.2

10.0

BOT CHORD 2x8 SP 2400F 2.0E WEBS 2x4 SP No.3 *Except*

5-6: 2x6 SP No.2

5 6. EXC 61 110.2

(size) 1=0-3-8, 6=0-3-0

Max Horz 1=222(LC 8)
Max Uplift 1=-531(LC 8), 6=-1012(LC 8)

Max Grav 1=1802(LC 1), 6=3024(LC 1)

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

Code FBC2023/TPI2014

TOP CHORD 1-2=-3792/1126, 2-3=-2886/856, 3-4=-2888/940

BOT CHORD 1-8=-1171/3352, 7-8=-1171/3352, 6-7=-118/336

WEBS 2-8=-195/693, 2-7=-939/360, 4-7=-1392/4134, 4-6=-2166/768

NOTES- (10)

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to
 ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) except (jt=lb) 1=531, 6=1012.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2067 lb down and 677 lb up at 7-0-12, and 911 lb down and 311 lb up at 9-0-12, and 1022 lb down and 303 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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.

LOAD CASE(S) Standard

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Weight: 212 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

FT = 20%

Scale = 1:39.4

Philip J. O'Regna PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 58 CW	T32687518
3833091	T19A	Common Girder	1	2		102001010
and the second second	177850640	15,000 to 500,000,000			Job Reference (optional)	
Builders FirstSource	e (Lake City FL) Lake	City FI - 32055			Jan 4 2024 MiTek Industries, Inc. Fri Jan 1	9 13:08:31 2024 Pa

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-Q7?6lcO3Abs?KSo6fQ_A4HZFEiSNIP7XSCsL9?ztnTE

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 4-5=-54, 1-6=-20
 Concentrated Loads (lb)

Vert: 11=-2067(F) 12=-911(F) 13=-911(F)

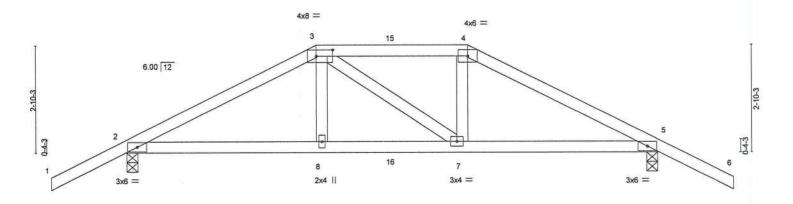
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Job *	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 58 CW	T32687519
3833091	T20	HIP GIRDER	1	1		13200/319
0000001	120	1	L'		Job Reference (optional)	
Builders FirstSource	(Lake City,FL), Lake C	City, FL - 32055,			lan 4 2024 MiTek Industries, Inc. Fri	
			ID:9B5QRtZPhUL	DyMYqzVn3	hhzz6?b-uJZUWyPhwu_sycMID8VPd	U6N66mZ11uhhscvhSztnTD
-2-0-0		5-0-0	9-0-0	1200	14-0-0	, 16-0-0
2-0-0		5-0-0	4-0-0		5-0-0	2-0-0

Scale = 1:29.3



			-0-0			9-0-0 4-0-0				14-0-0 5-0-0	———	
Plate Offse	ets (X,Y)-	[3:0-5-4,0-2-0]				-4						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.04	7-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.05	8-11	>999	180		
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2023/T	NO PI2014	WB Matri	0.11 x-MS	Horz(CT)	0.02	5	n/a	n/a	Weight: 63 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 5=0-3-8 Max Horz 2=59(LC 33)

Max Uplift 2=-337(LC 5), 5=-350(LC 4) Max Grav 2=811(LC 1), 5=829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1179/563, 3-4=-1049/552, 4-5=-1220/592

2-8=-471/1005, 7-8=-475/1015, 5-7=-478/1041 BOT CHORD 3-8=-72/302, 4-7=-49/290

WEBS

NOTES-(10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=337, 5=350,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 77 lb up at 5-0-0, and 54 lb down and 68 lb up at 7-0-0, and 165 lb down and 171 lb up at 9-0-0 on top chord, and 153 lb down and 54 lb up at 5-0-0, and 63 lb down at 7-0-0, and 153 lb down and 54 lb up at 8-10-15 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.

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-4=-54, 4-6=-54, 9-12=-20

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Structural wood sheathing directly applied or 5-0-9 oc purlins.

Rigid ceiling directly applied or 8-6-5 oc bracing.

Philip J. O'Regnu PE No.58126 MiTek Inc. DBA MTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 58 CW	T32687519
3833091	T20	HIP GIRDER	1	1		132007519
	50000				Job Reference (optional)	

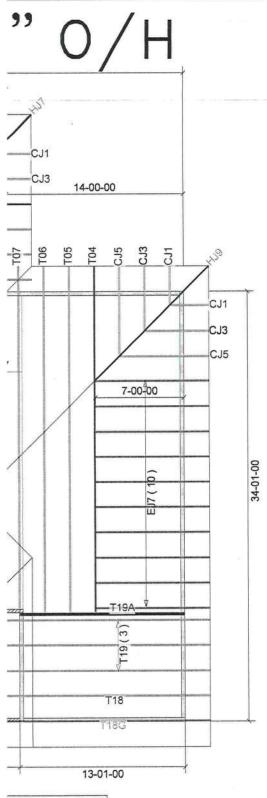
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Jan 19 13:08:32 2024 Page 2 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-uJZUWyPhwu_sycMID8VPdU6N66mZ11uhhscvhSztnTD

LOAD CASE(S) Standard Concentrated Loads (Ib)

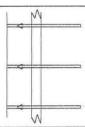
Vert: 3=-54(B) 4=-119(B) 8=-64(B) 7=-64(B) 15=-54(B) 16=-33(B)





Legend 8' 1-1/8" 9' 7-1/8"

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN DRIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE



Jeneral Notes

Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Fruss Manufacturer.

· Use Manufacturer's specifications for all hanger onnections unless noted otherwise.

Trusses are to be 24" o.c. U.N.O.

- All hangers are to be Simpson or equivalent U.N.O.: Use 10d x 1 1/2" Nails in hanger connections to single ply

Trusses are not designed to support brick U.N.O.

- Dimensions are Feet-Inches- Sixteenths

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI·B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



Lake City PHONE: 386-755-6894 FAX: 386-755-7973

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

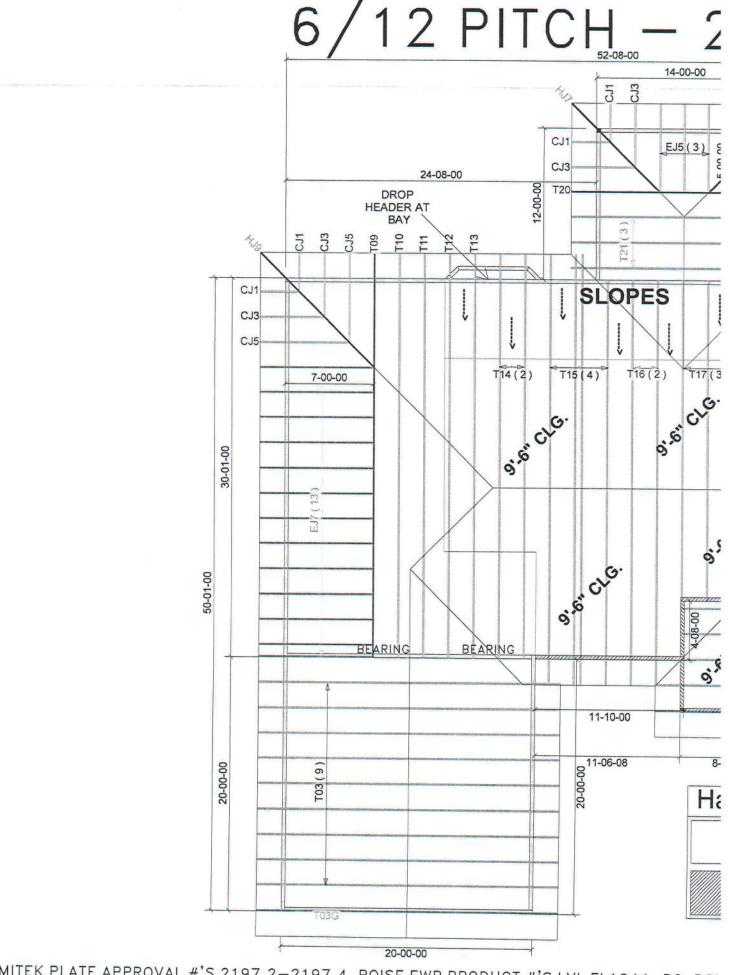
Tallahassee PHONE: 850-576-5177

GIEBEIG HOMES

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Lot 58 Crosswinds

ST. Johns Modified							
)ate:	Drawn By:	Original Ref#:					
1-19-24	KLH	383309					
loor 1 Job#	Floor 2 Job#:	Roof Job #:					
V/A	N/A	383309					



MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI

Duct Leakage Test Report

Residential Prescriptive, Performance or ERI Method Compliance 2023 Florida Building Code, Energy Conservation, 8th Edition

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		Adduss: Anyplace
Z/p: 32056	State: FL	City: Lake City
		Duct Leekage Test Results
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Jae T to	Date	Signature of Tester:
		Printed Name of Testen
ng Authority:	duest	License/Cartification #:

Duct Leakage Test Report

Residential Prescriptive, Performance or ERI Method Compliance 2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction	:	Columbia County		Permit #:	
Job Inform	nation				
Builder:	Trent Gie	geig	Community:		Lot: 58
Address:	Anyplace				
City: Lake	City		State	: FL	Zip: 32055
Duct Lea	kage Te	st Results			
System 1	_	cfm25	○ Prescriptiv	ve Method cfm25 (To	ofal)
System 2		cfm25	To qualify as	"substantially leak free"	Qn Total must be less than or alled. If air handler unit is not
System 3		cfm25	installed, Qn	Total must be less than	or equal to 0.03. This testing cordance with Section R403.3.3.
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Total of all systems	1675 Total Condition Square Foo		proposed due	ct leakage Qn specified	t not be greater than the on Form R405-2023 or R406-2023. Qn specified on Form R405-2023 (EnergyCalc) or R406-2023
P/	ASS	FAIL	Proposed	Qn	0.040
	or (7), Florid				individuals as defined in Section), (g) or (i), Florida Statutes.
Company I hereby ve selected co	erify that the	e above duct leakage to	testing results are in a	Phone:accordance with the Floridate Method or Performance N	Building Code requirements with the Method.
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License/C	Certification	n #:		Issuing Auth	ority:

Envelope Lossuge Yest Report (Blower Door Tong Residential Prescriptive, Performance or ER! Mathod Compilance 2023 Florida Building Cods, Energy Conservation, 25 Edition

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Envelope Leakage Test Report (Blower Door Test) Residential Prescriptive, Performance or ERI Method Compliance 2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdictio	on: Columbia	County	Permit #:	
Job Infor	mation			
Builder:	Trent Giegeig	Community:	Lot:	58
Address:	Anyplace			
City: Lak	ke City	State	: FL Zip: 3	2055
Air Leal	kage Test Results	Passing results must meet	either the Performance, Prescriptive	e, or ERI Method
char	RFORMANCE or ERI METHO d ACH(50) value, as shown of	f 0.2 inch w.g. (50 Pascals) in Clima DD-The building or dwelling unit sha n Form R405-2023 (Performance)	ted and verified as having an air leakage rate Zones 1 and 2. Ill be tested and verified as having an air leakage rate Zones 1 and 2. Ill be tested and verified as having an air leakage rate Zones 1 and 2.	eakage rate of not exceeding
CI	PASS	ng Volume ACH(50) nan 3, Mechanical Ventilation in	Retrieved from Code softwar	ulating building volume: om architectural plans re calculated red and calculated
per hour in than three a and Section reported at Florida Stat results of the after creation Duringtestin 1. Exterior of control measures. 3. Interior of 4. Exterior of 5. Heating a 6. Supply a 7. If an attic shall be	Climate Zones 1 and 2, and the changes per hour shall be in M1507.3 if the Florida Build a pressure of 0.2 inch w.g. (5 tues, or individuals licensed a let test shall be signed by the proof all penetrations of the bring: windows and doors, fireplace issures. In including exhaust, intake, motions, if installed at the time of doors for continuous ventilation and cooling systems, if installed are turn registers, if installed is both sealed and insulated	hree air changes per hour in Climate provided with whole-house mechaning Code, Residential. Testing shall 0 Pascals). Testing shall be conducted as set forth in Section 489.105(3)(f), party conducting the test and providuilding thermal envelope. and stove doors shall be closed, but akeup air, back draft and flue damper of the test, shall be open. In systems and heat recovery ventiled at the time of the test, shall be tully at the roof deck, interior access door the volume of the attic shall be added.	rned off.	n air leakage rate less R403.6.1 of this code RESNET/ICC 380 and ction 553.993(5) or (7), ten report of the rformed at any time rstripping or other infiltration intended infiltration control
Testing	Company			
Company I hereby ve requireme	Name: erify that the above Air Leaka nts according to the compliar	ge results are in accordance with th	Phone: e 2023 8th Edition Florida Building Code E	Energy Conservation
Signature	e of Tester:		Date of Test:	
Printed N	lame of Tester:		-	
License/0	Certification #:		Issuing Authority:	

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2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1a

Project Name:

Trent Geibeig Lot 58 Crosswinds Sub

Street: City, State, Zip: Anyplace

Lake City, FL, 32055

Owner: Design Location: TBD

FL, Gainesville

Builder Name: Trent Giegeig

Trent Giegeig Columbia County

Permit Office: O
Permit Number:

Jurisdiction:

Columbia County

County:

Columbia(Florida Climate Zone 2)

Design Location:	FL, Gainesville Cou	inty: Columbia(Florida Climate Zone 2)
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.	
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.	
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	
Recessedlighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.
Electrical, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.	
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacture Caulking or other adhesive sealants shall not be used to fill voids voids between fire sprinkler cover plates and walls or ceilings.	

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

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Florida Building Code, Energy Conservation, Mandatory Requirements (2017 Commund).

SECTION RADS	
SIMULATED PERFORMANCE ALTERNATIVE	
(PERFORMANCE)	
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R405.2.1 Criming insulation. Ceilings shall have an inculation tever of at least R-19, space parent, log. For the purpose of this could type contribute of this could encountry the exposed deck and bean type and contribute a reaching of the exposed deck and bean type and contribute deck up a Such defing a searblike a shall be insulated to at least a level of F-10.	
Ridburg childing air teaksge tasting. Building or doubling at leaking shell to in scootdance of his Sections R403.4 through R402.2.1.2. If an air lackage rate below seven or changes per rour or a pressure of 0.3 inchild poscala) is specified for the proposed deskip, testing shall varify the air teatings rate over not exceed the air inchilding present design to had of seven air changes per hour.	16.
R405.3 3 Duct air inaxage testing. In deser when advot an leational lower than it in default On to select of 0.050 have ed. On a cut louise to the cut-side in afra per 105 square for the middened feather than per 105 square for the middened feather than a square for the proposed design, is autoredance with Section R403.3.2 shall work a duct with the acage natural axis seeding the teather who it the proposed design. Otherwise in a coldance with Section R403.1, duct soulng and mandatory for buildings can ply to by section R405.	
SECTION R496 ENERGY RATING INDEX COMPUNICE ALTERNATIVE	
R456.2 M-indatory requirements. Compliance with 2 is secure requires that the positions identified in Section. R451 through 1404 labriled as investing in a Section Section Section 15 to the 2015 International 5 to gradual conditions are the production for compliance with this section, the nutring thermal envelopes shall be prequent requal to levels of efficiency and Solar heat Continuent and the 2008 retained not equal to levels of efficiency and Solar heat Continuent in an example of the 2008 retained on the section of the compliance with this section me building the majore that we great that the section in building the major that we great main or admits a factor of the section of the s	
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Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

SECTION R405 SIMULATED PERFORMANCE ALTERNATIVE (PERFORMANCE)

R405.2 Mandatory requirements. Compliance with this section requires that the mandatory provisions identified in Section R401.2 be met. All supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6, except site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.
R405.2.1 Ceiling insulation. Ceilings shall have an insulation level of at least R-19, space permitting. For the purposes of this code, types of ceiling construction that are considered to have inadequate space to install R-19 include single assembly ceilings of the exposed deck and beam type and concrete deck roofs. Such ceiling assemblies shall be insulated to at least a level of R-10.
R405.2.2 Building air leakage testing. Building or dwelling air leakage testing shall be in accordance with Sections R402.4 through R402.4.1.2. If an air leakage rate below seven air changes per hour at a pressure of 0.2 inch w.g. (50 pascals) is specified for the proposed design, testing shall verify the air leakage rate does not exceed the air leakage rate of the proposed design instead of seven air changes per hour.
R405.2.3 Duct air leakage testing. In cases where duct air leakage lower than the default Qn to outside of 0.080 (where Qn = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is specified for the proposed design, testing in accordance with Section R403.3.2 shall verify a duct air leakage rate not exceeding the leakage rate of the proposed design. Otherwise, in accordance with Section R403.3.3, duct testing is not mandatory for buildings complying by Section R405.
SECTION R406
ENERGY RATING INDEX
COMPLIANCE ALTERNATIVE
R406.2 Mandatory requirements. Compliance with this section requires that the provisions identified in Sections R401 through R404 labeled as "mandatory" and Section R403.5.3 of the 2015 International Energy Conservation Code be met. For buildings that do not utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table 402.1.1 or 402.1.3 of the 2009 International Energy Conservation Code. For buildings that utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table R402.1.2 or Table R402.1.4 of the 2015 International Energy Conservation Code.
Exception: Supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6.
R406.2.1 Site-wrapped supply ducts. Site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.

Florida Building Code, Energy Conservation, Mendatory Requirements (2023 Continued)

P303.16.3 Covers: 55. Laber health confirming parts, and confess promised special description in vagor-rate de in covers on at the interest surface on a liquid covers, other material provides real rate.
Exception:Where more than 70 rement of the energy for heating, out, puted over an operation shaken, is Not a sub-removement of the system of the country of the constraint operation be required to account interfact one shall not be required.
R403.18.4 Gas, and off-fined poor, and app heaters. All jass and off-fired poor, and spa relates structured was structured to them to difficiency of 30 properties the fired a manufactured or continued to 15 properties and the fired by the
R463.10.5 Reat pomp pool neature. Heat rough producesters anall have a markular Code vit 4.0 which restrictly accordance with ARSI 1:60. Table 2, Such ser Setting Conditions I on Air Temperature. A test report from a nice located relationship is required to verify credenic a company in the certification of the certificatio
R403.11 Portoble spas (Aladelory). The energy parameter of destricts were portable spassibilities are by the require rants at AFSP-14.
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SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS

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R604.1.1 Lighting equipment (Mandatory), the Jacky hims systems thallout cave, inhouse systeming plot Borts.

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued) R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss. Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required R403.10.4 Gas- and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights. R403.10.5 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard. R403.11 Portable spas (Mandatory). The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14 R403.13 Dehumidifiers (Mandatory). If installed, a dehumidifier shall conform to the following requirements: 1. The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day. 2. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air. 3. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2. 4. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential. R403.13.1 Ducted dehumidifiers. Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements: 1. If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct. 2. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct. 3. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil. 4. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6. SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS R404.1 Lighting equipment (Mandatory). All permanently installed luminaires, excluding those in kitchen appliances, shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt. R404.1.1 Lighting equipment (Mandatory). Fuel gas lighting systems shall not have continuously burning pilot lights.

Page 6 of 7

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**A03.7 1.1 Cooling equipment capacity. Conting only equipment shull be selected as that its total regions is not less than the halfulated has find but not more than 1.15 independent han the foreithed exceptions detected in Service R403.7 in the possitional plane size than the following the procedure of the pro	
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 When signed and castled by a Plandorregistered only need in altached singles and neallytic family unit. The capacity of equipment may be stand in accordance with good design provider. 	
7.1.2 Healing equipment appacity.	R403.
8403.7.1.2.1 Heat primes, Heat purity little be haved on the cooling requirements at refruitpind according to Section 7403.7.1.1, and the heat outing total cooling capacity shall not be more than 1,15 (times greater than the casity cooling load even it has despite heating load in the resign policy load.	g
R403.7.1.2.2 Electric resistance furnaces. Elecula russiance lumaces shall be sized within 4 MV of the design requirements reliculated according to the procedure salestad in Scoon R403.7.1.	
R403.7.1.2.3 Fossil trei heading agalpment. The capacity of fossil fuel heating equit membrill in the atmospheric from the shall not be loss than the design read calculated in an nordence with declare R403.7.1.	
A403.7.1.3 Extra capacity required for special occasions. Residences requiring a cess making equipment describy and intermittent basis, as much additional local council by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heafing within that space by one or more of the following or lione: 1. A separate cooling or feating system is utilized to provide cooling or hearing system is utilized to provide cooling or hearing an extensional recess. 2. A variable capacity system sized for optimum performance during base and perform a utilized.	
R403.6 Systems serving multiply awaiting units (Mandatory). Systems surving quiliple dwelling or its shall comply with Sections (2403 and C464 of the Ponda Building Code Energy Conservation—Commercial Provisions in lieu of Section Ponds.	
FM03.9 Show methand toe system controls (Mandatory). Show- and ice-melting systems, supplied through encryp servs. In the building, shall include automatic controls capetile of shutting off mespatem when the payer ent temperature is about 50°F (10°C), and no precipitation is talling and an automatic or manual control that will allow shutch when the outdoor temperature is cooke 40°F (4.8°C).	Ü
403.10 Pools and permanent spalenergy consumption (Mandatory). The energy consumption of pools and permanting spale that be in accordance with Sections R403.10.1 time gir R403.10.a.	
R403.10.1 Heaters. The electric power is heaters at all be controlled by a readily acressible on off switch that is an integral part of the heater mounted on the externar of the heater, or external to and within 3 test (\$14 mm) of the relation of such switch switch small not change the satisful of the heater them ostal. Such switches shall have power to the heater. Cast-fired heaters shall not be equipped with continuously burning golfion pilots.	
7403.10.2 Time switches. Time switches at other control methods that can automatically turn off and on depending to a present schedule shall be installed for heaters and prump materia and pump charact such be in controlled for his acceptant.	0
Exceptions:	
1. Where public health standards require 2 t-hour pump operation. 2. Pumps that operate scitch and www.te-tree-neovery pool heating systems. 3. Where pumps are powered exclusively from nin-site is newable generation.	

Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued) R403.7.1.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section R403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load. The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature. Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space. Exceptions: 1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load. 2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice. R403.7.1.2 Heating equipment capacity. R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load. R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1. R403.7.1.2.3 Fossil fuel heating equipment. The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1. R403.7.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options: 1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas. 2. A variable capacity system sized for optimum performance during base load periods is utilized. R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Florida Building Code, Energy Conservation—Commercial Provisions in lieu of Section R403. R403.9 Snow melt and ice system controls (Mandatory). Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C). 403.10 Pools and permanent spa energy consumption (Mandatory). The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5. R403.10.1 Heaters. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots. R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according

Exceptions:

1. Where public health standards require 24-hour pump operation.

time switches shall be in compliance with this section.

2. Pumps that operate solar- and waste-heat-recovery pool heating systems

to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in

3. Where pumps are powered exclusively from on-site renewable generation.

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Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

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

Exception: Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.

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

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	3.8 cfm/watt	Any
Bathroom, utility room	10	2.8 cfm/watt	<90
Bathroom, utility room	90	3.5 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

- a. When tested in accordance with HVI Standard 916
- R403.6.2 Ventilation Air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
 - 1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 - 2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
 - 3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.

R403.7 Heating and cooling equipment.

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

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Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued) R403.3.5 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums R403.4 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3. R403.4.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted. R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory). If heated water circulation systems are installed, they shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible. R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water. R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy. R403.5.2 Demand recirculation water systems (Mandatory). Where installed, demand recirculation water systems shall have controls that comply with both of the following: 1. The control shall start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture or sensing the flow of hot or tempered water to a fixture fitting or appliance. 2. The control shall limit the temperature of the water entering the cold water piping to 104°F (40°C). R403.5.5 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank. R403.5.6 Water heater efficiencies (Mandatory). R403.5.6.1.1 Automatic controls. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C). R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off. R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1. R403.5.6.2.1 Solar water-heating systems. Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806. Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria: 1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and 2. Be installed at an orientation within 45 degrees of true south. R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

lorida Building Code, Energy Conservation, Mandatory Requirements (2022 Confinency)	45
1392.4.2 Fireptacks. Naw wood burning that it as shell have light-litting flue damons undoors, and a renor computatoraling which is shell provided to accordance? It but 1.27, the doors shall be tasted and listed in the coordance? It but 1.27, the doors shall be tasted and listed in the coordance with 1.0. 907.	
R402A.3 Fanester for as fer tage. Nucleus skylights and sliding glosn doors shall have an examiliarous rate at no required 0.3 door oper square from 1.3 farms, and sweet out doors no may shall 0.5 don per square from 2.7 farms) were firster a reading to NERC 400 on ANAN WICHARD COS 100.1.8 272443 by an according, independent aboratory and legique and labeled by the manufactories.	
Exception: Subject than the skylegas and door.	
A402.4 4 Resemble containing fluct - busining appliances, in Climate Zouri 3 through 8, where upon compution as doubt provide community to door up in order to busining appliances, the appliances and commusive according to located to doubt the polyment of the first and the first according to the fi	
Exceptions: 1. Directivent appliances with both a table end oxioust, free installed continuous to the outside. 2. Preplaces and scores comprying with Section 2402 a.2 and Section 8100s or the Roots and organisms. Recessed lighting. Recessed lighting the sales of the installed in the building thermal envelopes shall be sales to initially a dauge installed in the building thermal envelopes shall be sales to into the action of the continuous and the continuous at large and the continuous thermal processed with a scontinuous with ASTM E263 at a 1,57 per (75 Pe) pressure differently. All accounts as the manual or self-to continuous and the master and the continuous and the	
R402.4.6 Air-sealed electrical and communication boses. Air seeled electrical and communication boxes that panels of the authorized the manufacture of the building theorem enveloped a sealed to other was scaled to the air borned element being penetralized with nealed boxes at all the building to sealed to the sealed to the air all the research covers at all the research of account of the covers at all the research of the sealed boxes shall be installed in accordance with the manufacturer's trial reference.	
SECTION RA03 SYSTEMS	
R403-1.1 Thermostat provision (Mandatory). At least one drennostational browlded for each separate hearing and cooling system.	
R463.1.3 Heat pump supprementary hous (Mandatory), his accompance in supprementary, elect include non-behing a controls the distribution to unity those three when one of the following agains: 1. The incompanies of companies on the control provide the recent of the ding energy to latter the them when cathing and the distribution of the distribu	
19403.3.2 Seating (Mandatory). All ducts, extractions, filterboyes at diputions of at form the partie of continuous parameters for air distribution. At each seated the continuous seates are continuous seates at the continuous seates are continuous seates. See the Canonical Provisions of this code and or all own to inget duct by uses or eith below.	
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R473.3.2.1 Squick air handler. An handlers shaft have a menefacturer's dosphation ick an air leasage of manne than I someon of the design africar rate when leased in accordance with ASHTAR 183.	
PAGE.S.3 Duct useting (Manastory). Could shall be presented to determine air leadego by one or the 1000m of methods: 1. Rouge-in root, food low rage eros be measured with a present differential of 0.1 horn w.g. (25 Pe) across the system. counting the memphod barealer of bandler embosure if its sliced withine of he last. All repistors shall be toget or otherwise sevied utting the last. 2. Postronstruction described utting that have goed to this presture infimignate of 3.1 hour stat. 25 Per Page on set it course.	
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 A duct air leakage set shaft not be required where the ducts and as inunding the inlated antirely width the building the materialization. 	
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Floi	rida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)
	R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
	R402.4.3 Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
	Exception: Site-built windows, skylights and doors.
	R402.4.4 Rooms containing fuel - burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.
	Exceptions: 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. 2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential. R402.4.5 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
	R402.4.6 Air-sealed electrical and communication boxes. Air-sealed electrical and communication boxes that penetrate the air barrier of the building thermal envelope shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. Air-sealed boxes shall be buried in or surrounded by insulation. Air-sealed boxes shall be marked in accordance with NEMA OS 4. Air-sealed boxes shall be installed in accordance with the manufacturer's instructions.
	SECTION R403 SYSTEMS
□ R	403.1 Controls R403.1.1 Thermostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system
	R403.1.3 Heat pump supplementary heat (Mandatory). Heat pumps with supplementary electric-resistance heaters shall have controls that limit supplemental heat operation to only those times when one of the following applies: 1. The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting. 2. The heat pump is operating in defrost mode. 3. The vapor compression cycle malfunctions. 4. The thermostat malfunctions
	R403.3.2 Sealing (Mandatory). All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.
	Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.
	R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.
	 R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods: 1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test. 2 Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire
	system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test. Exceptions; 1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
	2. Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Qn to the outside of less than 0.080 (where Qn = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.

Florida Building Code, Energy Conservation, 5th Edition (2023) Wandatory Requirements for Residential Performance, Prescriptive and ERI Methods

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MANDATORY REQUIREMENTS - See individual dede sentions for full retails

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F402.A.1 Building thermal envolope: The but ling in time revelope shall consist, with Section R402.4.1 and F102.4.1.2. The scaling near late indexed disparation materials at superveyor scheening capacitic upon contact but.	
R462 s.t. Phartulatist. The combunents of the building flormal coval rup of lated in 1 abie 8652 k.t.1 shot be installed macrowadore oding a macroisobuser simulated the coverant rup. Topic R465 r.t.1 as publicacie to be medical of construction. Where required by the code of book, an opprove on thirty party and hardy start proposal of opproved an object and of providence.	
P402.4.1.2 Teating. The midding or dwelling will shall be tosten and restly disable as laterage man not excluding seven air thereor, per hours of the earliest find a Zones is end as each three and the earliest find a Zones at the finds and an earliest finds are the restly finds and a find a Zones at the finds and the finds and the finds and the finds and the finds of the finds of the finds and the finds and the finds of the finds	

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Florida Building Code, Energy Conservation, 8th Edition (2023) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS:	Anyplace	Permit Number:	
	Lake City, FL 32055		

MANDATORY REQUIREMENTS - See individual code sections for full details.

SECTION R401 GENERAL
R401.3 Energy Performance Level (EPL) display card - (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
SECTION R402 BUILDING THERMAL ENVELOPE
R402.2.10.1 Slab-on-grade floor insulation installation (Mandatory). Where installed, the insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall be extended the distance provided in Table R402.1.2, or the distance of the proposed design as applicable, by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building. Insulation extending away from the building shall be protected by pavement or by not less than 10 inches (254 mm) of soil. The top edge of the insulation installed between the exterior wall and the edge of the interior slab shall be permitted to be cut at a 45-degree (0.79 rad) angle away from the exterior wall.
R402.2.11.1 Crawl space walls insulation installation (Mandatory). Where crawl space wall insulation is installed, it shall be permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder in accordance with the Florida Building Code, Building, or Florida Building Code, Residential, as applicable. All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (153 mm) up the stem wall and shall be attached to the stem wall.
R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.
Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
R402.4.1 Building thermal envelope. The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
R402.4.1.1Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 of the Florida Building Code, Residential. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or

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

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

During testing:

- 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
- 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
- 3. Interior doors, if installed at the time of the test, shall be open.
- 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.

official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

- 5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
- 6. Supply and return registers, if installed at the time of the test, shall be fully open.
- 7. If an attic is both air sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting an infiltration volume and calculating the air leakage of the home.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD SSTIMATED ENERGY PERFORMANCE INDEX* = 91

The lower the EnergyPerformance Index: the more afficient the hopie,

Anyolace Lake City FL 32055

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Formity that this hums has compiled with the Floride Energy Efficiency Code on Building Construction through the above energy saving features which will be installed for ordered) in the frome helions fixel inspection. Otherwise, a new EPL Display Caut will be completed have 1 on installed Code compilers features.

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Addition of hew Home: As volace

City/Ft, Zig: Lake City, Ft, 32065

"Notic: This is not a Bulloing leneray Rating. If your linest is below 70, your home may qualify for energy efficient murigage (EEM) incuration obtain a Florida Energy Rating. Fur information about the Florida Building Code; Energy Conservation, contact the Florida Building Code; Energy Conservation, contact the Florida Building Code; inspect staff.

[&]quot;Label racuited by Section R303.1.3 of the Florida Building Code, Energy Conservation, it not DEFAULT.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX* = 91

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

Anyplace, Lake City, FL, 32055

1. New construction or existi	ng New (Fi	rom Plans)	10. Wall Types(1505.8 sqft.)	Insulation Area
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5. Is this a worst case?		No	11. Ceiling Types(1675.0 sqft.)	Insulation Area
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c. U-Factor: N/ SHGC: Area Weighted Average Over Area Weighted Average SH	erhang Depth:	ft ² 1.235 ft 0.250	14. Cooling Systems a. Central Unit	kBtu/hr Efficiency 13.8 SEER2:15.00
TOLK CALLS ALTO SERVICE TO THE SERVI	escription /A		15. Heating Systems a. Electric Heat Pump	kBtu/hr Efficiency 17.0 HSPF2:7.70
9. Floor Types a. Slab-On-Grade Edge Ins b. N/A c. N/A	Insulation R= 13.0 R= R=	Area 1675.00 ft ² ft ²	Hot Water Systems a. Electric b. Conservation features	Cap: 50 gallons EF: 0.920
			17. Credits	None CF

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

Builder Signature:	Date:
Address of New Home: Anyplace	City/FI Zin: Lake City FI 32055

*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 Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

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



* INPUT SUMMARY CHECKEIST REPORT

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FORM R405-2023

INPUT SUMMARY CHECKLIST REPORT

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INPUT SUMMARY CHECKLIST REPORT

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FORD RADS-2025 INPUT SUMMARY CHECKLIST REPORT

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INPUT SUMMARY CHECKLIST REPORT

The state of the s				PROJ	ECT						
Title: Building Type: Owner: Builder Home ID: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Year Construct: Comment:	User TBD	58 Crosswinds Sub	Bedroom: Condition Total Stor Worst Ca Rotate Ar Cross Ver Whole Ho Terrain: Shielding	ed Area: ies: se: ngle: ntilation: ouse Fan:	3 1675 1 No 0 No No Suburban Suburban	Lot Bloc Plat Stre	k/SubDivisi Book:	Anyplace Columbia			
				CLIM	ATE						
/ Design Location		Tmy Site		Desig 97.5%	n Temp 2.5%		gn Temp Summer	Heating Degree Days	Desig Moistur		ily temp nge
FL, Gainesville		FL_GAINESVILLE_	REGIONA	32	92	70	75	1305.5	51	Medi	um
				BLOC	KS						
Number	Name	Area	Vol	ume							
_1	Block1	1675	134	100 cu ft					-4		
				SPAC	ES						
Number	Name	Area	Volume	Kitchen	Occupants	Bed	rooms	Finished	Cod	oled H	leated
_1	Main	1675	13400	Yes	3		3	Yes	Y	es	Yes
				FLOC	RS	(Total E	xposed Ar	ea = 1	675 sq	.ft.)
				sed A	rea R-V		U-Factor	Slab Insul.	Tile	Wood	Carpet
# Floor Typ	oe .	Space	Expo			n. Joist		Vert/Horiz			
	rade Edge Ins	Space Main		n(ft)	Perin	n. Joist	0.068	Vert/Horiz 2 (ft)/0 (ft)	0.25	0.50	0.25
	WS Blocker		Perim	n(ft)	Perin		0.068		0.25	0.50	0.25
	WS Blocker		Perim	n(ft) 1675 ROC	Perin		Solar			Deck	0.25 Pitch (deg)
1 Slab-On-Gr	rade Edge Ins	Main	Perin 190 R A	ROC	Perin sqft 13 F Sable Roof	Rad Ban	Solar	2 (ft)/0 (ft)	t Emitt Tested	Deck	Pitch
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1 Slab-On-Gi	rade Edge Ins	Main Materials	Perin 190 R A	n(ft) 1675 ROC oof (rea 73 ft² ATT	Perin sqft 13 F Gable Roof Area Color O ft² Medium	Rad Ban	Solar Absor.	2 (ft)/0 (ft) SA Emit Tested	t Emitt Tested Yes	Deck Insul.	Pitch (deg)
1 Slab-On-Gi	rade Edge Ins	Main Materials Compositionshingles	Perin 190 R A	ROC ooof (rea 73 ft² Vent Ra	Perin sqft 13 F Sable Roof Area Color 0 ft² Medium IC tio (1 in)	Rad Ban	Solar Absor. 0.75	2 (ft)/0 (ft) SA Emit Tested Yes 0.9	t Emitt Tested Yes	Deck Insul.	Pitch (deg)
1 Slab-On-Gi /# Type1 Hip /# Type	rade Edge Ins	Main Materials Compositionshingles Ventilation	Perin 190 R A	ROC ooof (rea 73 ft² Vent Ra	Perin sqft 13 PF Sable Roof Area Color O ft² Medium IC Itio (1 in)	Rad Barn n N Area	Solar Absor. 0.75 RBS	2 (ft)/0 (ft) SA Emir Tested Yes 0.9	tt Emitt Tested Yes	Deck Insul.	Pitch (deg)
1 Slab-On-Gi /# Type1 Hip /# Type	rade Edge Ins	Main Materials Compositionshingles Ventilation Vented	Perin 190 R A	ROC oof (rea 73 ft² ATT Vent Ra	Perin sqft 13 PF Gable Roof Area Color 0 ft² Medium IC IC NG	Rad Barn n N Area	Solar Absor. 0.75 RBS N	2 (ft)/0 (ft) SA Emir Tested Yes 0.9 IRCC N	tt Emitt Tested Yes	Deck Insul. 0	Pitch (deg)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Pluitider Nams', Trail-Cragelig Permit Office. Columbia County Permit Number Panadiction. Proteining County County. Columbia County	Froject hanse Tran Gedony Let 38 Crosowinds Sub- Straut, Adypre 4 City (Sare, Zot) Lette City, Ft., 1206.5 Owner, TBD Design Updaron: Ft. Cathosyste
10. Vialit Types (1600 8 sqft) Insulation Area at Face Brick + Model Exversion Rel 12.0 1202.00 ft in Fearre + Video, Adjacent Rel 2.0 180,66 ft of Fair & Brick + Video, Adjacent Rel 2.0 180,66 ft of Nich at Brick + Video, Adjacent Rel 2.0 1813.6 ft of Nich at Celling Types (1875.0 of at 11. Celling Types (1875.0 of at 12. Celling Types (1875.0 of at 12. Nich at 12. Broot (Climp Smill gles), ventual Dauk (Prince 1875.0 of at 12. Direkt in Jacent American Nich American Rel Main, American Religion Religions Religion	1. New construction or existing 2. Single brody or multiple againy 3. Hardset of saids, if numbple landy 4. Number of Sedepoins 5. Is this a worst case? 6. Conditioned from area shows grade (R) 7. Windows 17 0 equ. (R) 8. Conditioned from area celow grade (R) 9. Windows 17 0 equ. (R) 9. Windows 17 0 equ. (R) 9. Unit of Section (R) 9. Single 12. Single 13. Single 14. Single 15. Single 16. Sing
Enilo ezo C. Consurvation facurea Provide Consultation of the consultation of the c	E. Park E. PAR E. PAR
ZZAS tata PASS	Glade Floor Area 19, 137 Foliai Proposed Monifer and Proposed Monifer and Proposed Monifer and Parket and Parket and Proposed Monifer and Parket and Park
Re liew of the plans and specification covered by the specification in like the covered by the calculation in like the standal Energy Code. With the Florida Energy Code. Buton construction is compliance that the limitation is compliance with Se time 153 at 8. Florida Stantics. EUT Cot 3 OFFIC At:	Liurnby parify that the plans and specificancies to veried by this calculation are in constitence with the Floride Energy FRE, AREE BY: CAVE: Littoracy certify that this helding, as designed, is in compliance with the Florids Energy Cross CAVE: CAVE: ERACENT: CATE

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed to accordance with R403.3.2.1.
- Compilance with a proposed duct leakage Qui inquires a PERFORMANCE Duct teat age Test (Esport, confirming duct leakage to outdoors, tested in accordance with AMSPRESMETRICC 380, is not global than 0.040 Qn for whole house
 - Compliance requires a roof absorphance test and a roof emittence tost in accordance with \$400.7.2
- Compliance requires an Air Barrier and Insulation majection Circoldist in accordance with R462.4.1.1 and this project requires a PERFORMANCE envelope isotrage test report with envelope teakupe no greater than 7.00 ACH36 (R402.4.1.2).

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Trent Geibeig Lot 58 Crosswinds Sub Street: Anyplace City, State, Zip: Lake City, FL, 32055 Owner: TBD Design Location: FL, Gainesville	Builder Name: Trent Giegeig Permit Office: Columbia County Permit Number: Jurisdiction: Columbia County County: Columbia Climate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 7. Windows(113.0 sqft.) Description a. U-Factor: SHGC: SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: C. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: SHGC: SKIGC: Area Weighted Average SHGC: SKIGC: Area Weighted Average SHGC: SHGC(AVG): N/A SHGC(AVG): N/A SHGC(AVG): N/A SHGC(AVG): N/A 9. Floor Types Insulation a. Slab-On-Grade Edge Insulation R= 13.0 1675.00 ft² C. N/A R= C. N/A R= C. N/A R= C. Massaction R= CFT Residues Resi	10. Wall Types(1505.8 sqft.) a. Face Brick - Wood, Exterior b. Frame - Wood, Adjacent c. Face Brick - Wood, Adjacent d. N/A 11. Ceiling Types(1675.0 sqft.) a. Flat ceiling under att (Vented) b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) 13. Ducts, location & insulation level a. Sup: Attic, Ret: Main, AH: Main b. c. 14. Cooling Systems a. Central Unit 15. Heating Systems a. Electric Heat Pump 16. Hot Water Systems a. Electric b. Conservation features None 17. Credits Insulation Area R=13.0 1302.20 ft² R=13.0 1670.00 ft² R=30.0 1675.00 ft² R=30.0 ft²
Glass/Floor Area: 0.067 Total Proposed Modifier Total Baselin NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or e	ne Loads: 43.41 PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE:	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes. BUILDING OFFICIAL: DATE:

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.040 Qn for whole house.
- Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

Applications for compliance with the 2023 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

	This checklist
	Form R405-2023 report
	Input summary checklist that can be used for field verification (usually four pages/may be greater)
	Energy Performance Level (EPL) Display Card (one page)
	HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.
	Mandatory Requirements (five pages)
Req	quired prior to CO:
	Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
	A completed 2023 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5
	If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2023 Duct Leakage Test Report - Performance Method (usually one page)

Residential System Sizing Calculation

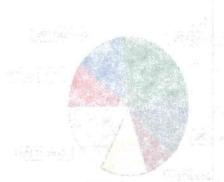
Summary

Trent Goldwig Lot 58 Cross winds Sur

Location for weather date: Galine	9. FL -	Defaults.	Lattude(29.7) Athalate(164 ft) Ta	M)etensel	
dutains dare interor FH (50%	noobtul		ZVF. Humbelly difference(51gr.)		
Writter design remperature(TMY3	30	7	Summer design temperatu e(10)	10 499	
Cangles 1 strike	7.0	7	Summer self or?	75	
Wilder temperature difference	Q.Z.	3	Summer lamperolure difference		
Total heating load calculation	17036	Btuls	Total cooling leaf calculation	STORE	platel.
Summitted healing cause by	olso h	duta	Submitted cooling capacity	Sign to at	
Total (Electric Heat Pump)	109.0	17036	Sensible (SHR = 0.75)		1 9860
leal Pumo + Auxiliary (0.0kW)	1.001	17036	Latent	0.041	
			Total (Electric Rest Pump)		13803

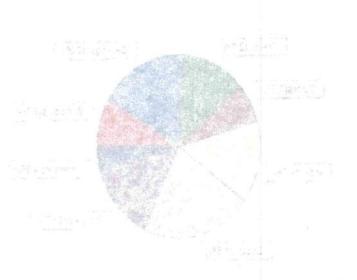
WINTER CALCULATIONS

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11.18	17036			
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Hute	17036			TOTAL HEAT LOS



SUMMER CALCULATIONS

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lead lieVi				7877	7.18
		87			didE
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misg meaniveteT				2302	1418
TOTAL HEAT GA	1/8		1	2011	Buth



Residential System Sizing Calculation

Summary

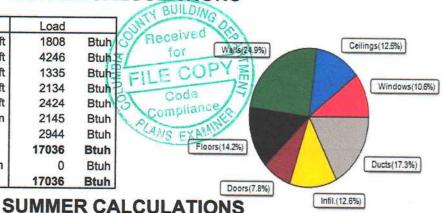
TBD Anyplace Lake City, FL 32055 Project Title: Trent Geibeig Lot 58 Crosswinds Sub

1/11/2024

Location for weather data: Gaine	sville, FL -	Defaults:	Latitude(29.7) Altitude(164 ft.) Ter	mp Range(M	1)
Humidity data: Interior RH (50%	Outdoor	wet bulb (77F) Humidity difference(51gr.)		,
Winter design temperature(TMY3	99%) 30	F	Summer design temperature(TMY	3 99%) 94	F
Winter setpoint	70	F	Summer setpoint	75	
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	17036	Btuh	Total cooling load calculation	13803	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	
Total (Electric Heat Pump)	100.0	17036	Sensible (SHR = 0.75)		10352
Heat Pump + Auxiliary(0.0kW)	100.0	17036	Latent	149.9	
			Total (Electric Heat Pump)		13803

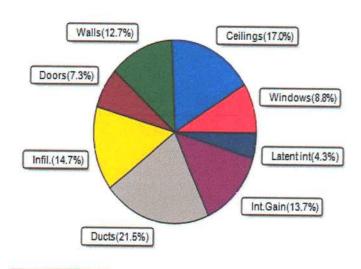
WINTER CALCULATIONS

Winter Heating Load (for 1675 sqft) Load component Load Window total 113 1808 sqft Btuh Wall total 1315 4246 sqft Btuh. Door total 78 1335 sqft Btuh Ceiling total 1675 sqft 2134 Btuh Floor total 1675 2424 sqft Btuh Infiltration 49 cfm 2145 Btuh **Duct loss** 2944 Btuh Subtotal 17036 Btuh Ventilation Ex:0 cfm; Sup:0 cfm Btuh **TOTAL HEAT LOSS** 17036 Btuh



Summer Cooling Load (for 1675 sqft)

Load component			Load	
Window total	113	sqft	1211	Btuh
Wall total	1315	sqft	1747	Btuh
Door total	78	sqft	1001	Btuh
Ceiling total	1675	sqft	2347	Btuh
Floor total			0	Btuh
Infiltration	37	cfm	764	Btuh
Internal gain			1890	Btuh
Duct gain			2540	Btuh
Sens.Ventilation	Ex:0 cfm; Sup:0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible ga	in		11501	Btuh
Latent gain(ducts)			434	Btuh
Latent gain(infiltra	tion)	- 1	1268	Btuh
Latent gain(ventila	ation)	- 1	0	Btuh
Latent gain(interna	al/occupants/other)	600	Btuh
Total latent gain			2302	Btuh
TOTAL HEAT GA	IN		13803	Btuh



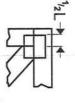
Powered by

8th Edition

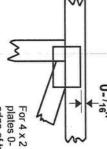
EnergyGauge® System Sizing
PREPARED BY: ______
DATE: _____

Symbols

PLATE LOCATION AND ORIENTATION



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



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

connector plates required direction of slots in This symbol indicates the

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

PLATE SIZE

4 × 4

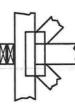
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

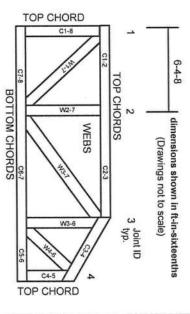
ANSI/TPI1:

National Design Specification for Metal Building Component Safety Information. Guide to Good Practice for Handling Design Standard for Bracing

DSB-22: BCSI:

Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses. Plate Connected Wood Truss Construction

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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MiTek Engineering Reference Sheet MII-7473 rev. 1/2/2023

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves bracing should be considered. may require bracing, or alternative Tor I
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

6

5

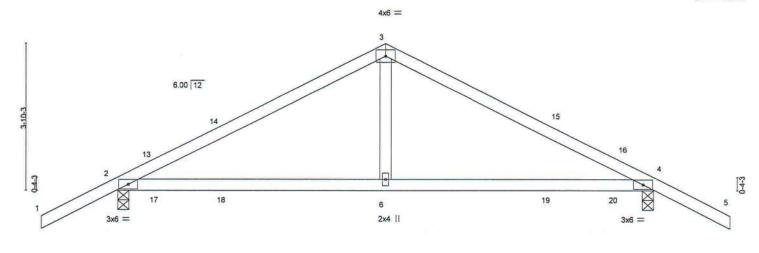
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- Unless expressly noted, this design is not applicable for

use with fire retardant, preservative treated, or green lumber.

- 10. Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated

Job Truss Truss Type Qty GIEBEIG - LOT 58 CW T32687520 T21 COMMON 3833091 3 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Jan 19 13:08:33 2024 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-MW7sjlQJhC6jamxVnr0eAifW9W4fmU1qvWLSEuztnTC 14-0-0 16-0-0 2-0-0 7-0-0 7-0-0

Scale = 1:28.9



		1	7-0-0 7-0-0						14- 7-0			1
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	0.09	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.12	6-9	>999	180	201022520	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS	40% CONSTRUCTION					Weight: 56 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=75(LC 12)

Max Uplift 2=-185(LC 12), 4=-185(LC 13) Max Grav 2=626(LC 1), 4=626(LC 1)

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

TOP CHORD 2-3=-705/413, 3-4=-705/413 BOT CHORD 2-6=-248/562, 4-6=-248/562

WEBS 3-6=-158/320

NOTES- (7)

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 16-0-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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=185, 4=185.
- 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.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Regnu PE No. SR126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

January 22,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see ANSITPIT Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

