



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

RE: 2891235 - GIEBEIG - JOHNSON RES.

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Giebeig Homes Project Name: Johnson Res. Model: Custom

Lot/Block: N/A

Subdivision: N/A

Address: TBD CR 252, N/A

City: Columbai Cty

State: FL

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2020/TPI2014

Wind Code: ASCE 7-16

Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.4

Wind Speed: 130 mph

Floor Load: N/A psf

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

No.	Seal#	Truss Name	Date
123456789101123	T24934911 T24934912 T24934913 T24934915 T24934915 T24934917 T24934918 T24934919 T24934920 T24934921 T24934922 T24934923	T01 T01G T02 T02G T03 T03A T03G T04 T05 T06 T07 T08 T08G	8/6/21 8/6/21 8/6/21 8/6/21 8/6/21 8/6/21 8/6/21 8/6/21 8/6/21 8/6/21
10	12-100-1020	1000	0/0/21





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, 2023.

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 USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 6,2021

.lob Truss Truss Type GIEBEIG - JOHNSON RES. Qty Ply T24934911 2891235 T01 6 Common Job Reference (optional)

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 5 09:13:38 2021 Page 1
ID:yF\_ocOwa2BYMa3\_bLYXStsysag2-V3RxzRTJe6U5r5jx1fC2C9s3ldY8RfT3oVFYKNyqxlh Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 6-10-0 6-10-0 13-0-0 6-10-0 Scale = 1:49.6 4x6 = 6.00 12 5

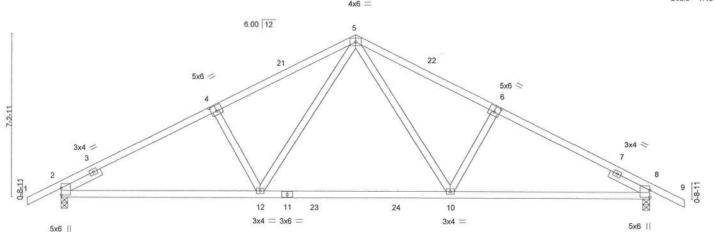


Plate Offsets (X,Y)	8-9-8 8-9-8 [4:0-3-0,0-3-0], [6:0-3-0,0-3-0]		17-2-8 8-5-1	26-0 8-9-	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.25           Lumber DOL         1.25           Rep Stress Incr         NO           Code FBC2020/TPI2014	CSI. TC 0.74 BC 0.65 WB 0.33 Matrix-MS	DEFL. in (loc) Vert(LL) -0.35 10-12 Vert(CT) -0.64 10-12 Horz(CT) 0.07 8	l/defi L/d >890 240 >485 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 128 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\* 1-4,6-9: 2x4 SP M 31

BOT CHORD 2x4 SP M 31

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=-108(LC 13)

Max Uplift 2=-299(LC 12), 8=-299(LC 13)

Max Grav 2=1339(LC 2), 8=1339(LC 2)

TOP CHORD

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-2113/525, 4-5=-2006/546, 5-6=-2006/546, 6-8=-2113/525

BOT CHORD

2-12=-424/1855, 10-12=-211/1312, 8-10=-383/1830

WEBS

5-10=-236/874, 6-10=-265/197, 5-12=-236/874, 4-12=-265/197

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 27-6-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=299, 8=299,
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-5=-54, 5-9=-54, 12-13=-20, 10-12=-80(F=-60), 10-17=-20



Structural wood sheathing directly applied or 3-1-15 oc purlins.

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

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 6,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

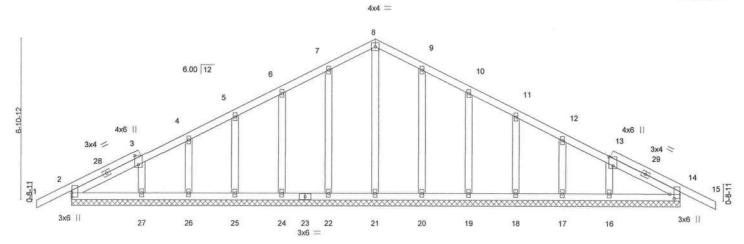


Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - JOHNSON RES.	
2891235	T01G	Common Supported Gable	1	1		T24934912
	17.53.52				Job Reference (optional)	
Builders FirstSource	ce (Lake City.FL). Lake	City, FL - 32055.		8.430 s J	un 2 2021 MiTek Industries, Inc. Thu Aug 5 0	9:13:40 2021 Page 1

+ -1-6-0 1-6-0 13-0-0 13-0-0 ID:yF\_ocOwa2BYMa3\_bLYXStsysag2-SRZiO7VZAjko4PsJ84FWHaxZSRNxvdjMFpkfPGyqxlf 26-0-0 13-0-0 1-6-0

Scale: 1/4"=1"



26-0-0 Plate Offsets (X,Y)--[2:0-2-4,0-0-3], [3:0-4-10,0-2-0], [13:0-4-10,0-2-0], [14:0-2-4,0-2-3] LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES** GRIP in (loc) I/defl TCLL 20.0 Plate Grip DOL 1.25 TC 0.12 Vert(LL) -0.00 15 120 244/190 MT20 n/r TCDL 7.0 Lumber DOL 1.25 BC 0.06 Vert(CT) -0.01 120 15 n/r 0.0 \* BCLL Rep Stress Incr WB 0.09 Horz(CT) 0.00 14 n/a n/a BCDL Code FBC2020/TPI2014 10.0 Matrix-S Weight: 156 lb FT = 20%

26-0-0

LUMBER-

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3 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. All bearings 26-0-0.

(lb) - Max Horz 2=103(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 21, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4,2psf; BCDL=3,0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 13-0-0, Corner(3R) 13-0-0 to 16-0-0, Exterior(2N) 16-0-0 to 27-6-0 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, 14, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16.



Philip J. O'Regan PE No.58126 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

August 6,2021

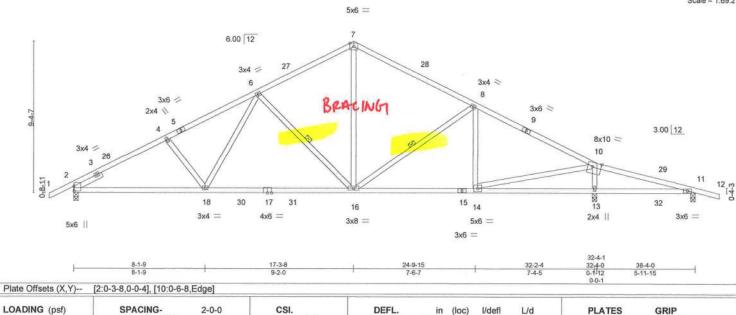
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - JOHNSON RES.	
2891235	T02	Roof Special	7	1		T24934913
	1.75				Job Reference (optional)	
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,	ID = 0 1		n 2 2021 MiTek Industries, Inc. Thu Aug 5 09:13:42 2021	
			ID:yF_ocOwa2	BYMa3_bl	.YXStsysag2-OqhSopWpiL_WJi0iGVH_M?1knFrjNPxfj7Dn	n i 8yqxld

Scale = 1:69.2



LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

7.0

10.0

0.0 \*

SLIDER Left 2x4 SP No.3 1-11-8 BRACING-

Vert(LL)

Vert(CT)

Horz(CT)

0.09 13-25

-0.52 16-18

13

0.06

>840

>748

n/a

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 2-8-6 oc purlins. Rigid ceiling directly applied or 2-2-0 oc bracing.

MT20

Weight: 202 lb

244/190

FT = 20%

1 Row at midpt 6-16, 8-16

240

180

n/a

REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 11=0-3-8

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

Max Horz 2=142(LC 16)

Max Uplift 2=-283(LC 12), 13=-302(LC 13), 11=-177(LC 9) Max Grav 2=1355(LC 2), 13=1613(LC 2), 11=274(LC 24)

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

TOP CHORD 2-4=-2125/529, 4-6=-2010/527, 6-7=-1361/442, 7-8=-1382/437, 8-10=-1615/423

BOT CHORD 2-18=-426/1853, 16-18=-298/1554, 14-16=-245/1387

**WEBS** 6-18=-77/483, 6-16=-574/254, 7-16=-213/898, 8-16=-364/213, 10-14=-290/1632,

1.25

1.25

YES

TC

BC

WB

Matrix-MS

0.71

0.93

0.62

10-13=-1333/408

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-0, Interior(1) 2-4-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 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.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=283, 13=302, 11=177.



Philip J. O'Regan PE No.58126 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

August 6,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 

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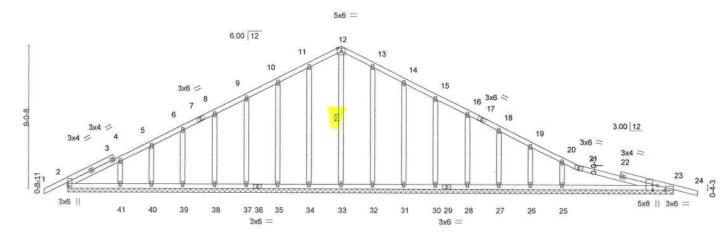


6904 Parke East Blvd. Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - JOHNSON RES.		
2891235	T02G	GABLE	1	1			T24934914
		***			Job Reference (optional)		
Builders FirstSou	rce (Lake City,FL), Lake	City, FL - 32055,		8.430 s Ju	in 2 2021 MiTek Industries, Inc. Thu.	Aug 5 09:13:47 20	21 Page 1
			ID:yF_ocOwa2	BYMa3_bL	YXStsysag2-knULsWayWtdpQUvf22t	932kfoGhi2njOsPv	vX8MyqxlY
	<sub>1</sub> -1-6-0 <sub>1</sub>	17-3-8		3.	2-4-0	38-4-0	39-10-0
	1-6-0	17-3-8		1	5-0-8	6-0-0	1-6-0

1-6-0 Scale = 1:71.0

6-0-0



in (lo	oc) I/defl	L/d	PLATES	GRIP
0.02	24 n/r	120	MT20	244/190
0.04	24 n/r	120	VACUITAGOS	
0.01	23 n/a	n/a		
		(UMAYON	Weight: 240 lb	FT = 20%
0	.02	.02 24 n/r .04 24 n/r	.02 24 n/r 120 .04 24 n/r 120	.02 24 n/r 120 MT20 .04 24 n/r 120 .01 23 n/a n/a

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **OTHERS** 2x4 SP No.3 BRACING-

38-4-0

TOP CHORD **BOT CHORD** WERS

Structural wood sheathing directly applied or 10-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 12-33

REACTIONS. All bearings 38-4-0.

(lb) - Max Horz 2=135(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 32, 31, 30, 28, 27, 26 except

23=-111(LC 9), 25=-114(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 33, 34, 35, 37, 38, 39, 40, 41, 32, 31, 30, 28, 27, 26 except 23=285(LC 1), 25=496(LC 1)

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

20-25=-331/149 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 2-4-0, Exterior(2N) 2-4-0 to 17-3-8, Corner(3R) 17-3-8 to 21-3-8, Exterior(2N) 21-3-8 to 39-10-0 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, 34, 35, 37, 38, 39, 40, 41, 32, 31, 30, 28, 27, 26 except (jt=lb) 23=111, 25=114.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

August 6,2021

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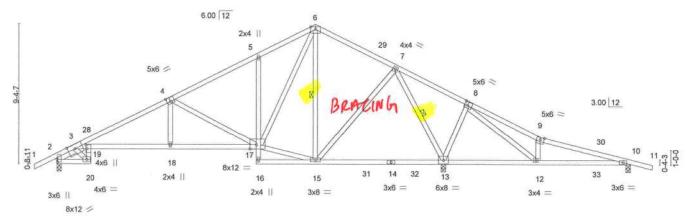
Scale = 1:75.1 5x8 =

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

6-15 7-13

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

1 Row at midnt



		7-7-0	13-4-0	- 4	17-3-8	25-1	0-4		1	32-4-0	38-4-0	1
	2-3-8	5-3-8	5-9-0		3-11-8	8-6-	12		1	6-5-12	6-0-0	
Plate Offsets (X,Y)	[2:0-2-4,0-0-6], [	3:0-5-12,0-3	-6], [4:0-2-12,0-	3-4], [8:0-	2-8,0-3-0], [1	7:0-4-15,0-3-7],	[19:0-3-	0,0-0-8]				
LOADING (psf)	SPACING	. 2	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip	DOL	1.25	TC	0.83	Vert(LL)	-0.29	18-19	>999	240	MT20	244/190
TCDL 7.0	Lumber D	OL	1.25	BC	0.97	Vert(CT)	-0.51	18-19	>604	180		
BCLL 0.0 *	Rep Stres	s Incr	YES	WB	0.76	Horz(CT)	0.22	13	n/a	n/a		
BCDL 10.0	Code FB0	C2020/TPI20	014	Matrix	-MS	200700000000000000000000000000000000000				ALTHUMPOUT	Weight: 225 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2

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

19-20,5-16: 2x4 SP No.3, 3-17: 2x4 SP M 31

WEBS 2x4 SP No.3

Left 2x4 SP No.3 1-4-4 SLIDER

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 10=0-3-8

Max Horz 2=142(LC 16)

Max Uplift 2=-210(LC 12), 13=-345(LC 13), 10=-184(LC 9) Max Grav 2=913(LC 2), 13=2143(LC 2), 10=285(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-22=-460/68, 3-4=-1631/370, 4-5=-821/208, 5-6=-781/294, 6-7=-413/164,

7-8=-515/1167, 8-9=-216/732, 9-10=-230/643

2-20=-287/917, 19-20=-337/1146, 3-19=-339/1476, 18-19=-370/1530, 17-18=-371/1538, 13-15=-218/348, 12-13=-876/505, 10-12=-589/240 BOT CHORD

3-20=-1295/396, 4-18=-26/433, 4-17=-894/299, 15-17=0/381, 6-17=-288/831, WEBS

6-15=-481/192, 7-15=-237/839, 7-13=-1730/650, 8-13=-387/351, 8-12=-887/634,

9-12=-261/217

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-0, Interior(1) 2-4-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 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.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=210, 13=345, 10=184,



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 6,2021

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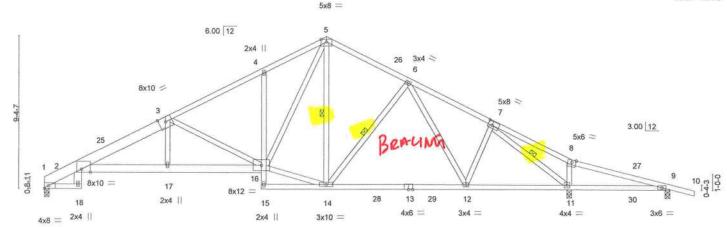
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	1	russ		Truss Type			Qty	Ply	GIEBEIG - JOHNSON RES.		
2891235	1	T03A		Roof Special			1	1			T2493491
				C.C. C.C. T.C. C.C. T.C. C.C. T.C. C.C. C	27				Job Reference (optional)		
Builders FirstSource	ce (Lake Cit	y,FL),	Lake City, FL - 3	2055,				8.430 s Ju	n 2 2021 MiTek Industries, Inc.	Thu Aug 5 09:13:5	4 2021 Page 1
						ID:yF	ocOwa2	BYMa3_bL	YXStsysag2-18P_KvgLt1VplZx0;	z0VorXXs64wXBnv	QT_7PuSygxIR
1-1-6-0 1-3-		7-7-0		13-4-0	17-3-8	22-3-7	1	27-5-3	32-4-0	38-4-0	39-10-0
1-6-0 1-3-	8 1-0-0	5-3-8		5-9-0	3-11-8	4-11-15	1	5-1-12	4-10-13	6-0-0	1-6-0

Scale = 1:68.9



	2-3-8	7-7-0	13-4-0	17-3-8	25-10-4		32-4-0	38-4-0	
	2-3-8	5-3-8	5-9-0	3-11-8	8-6-12		6-5-12	6-0-0	
Plate Offse	ets (X,Y)	[2:0-6-7,Edge], [7:0-3-0,0	0-3-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL) -0.27 12-14		240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 1.00	Vert(CT) -0.47 12-14	>827	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT) 0.23 11	l n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS	in the contract the contract of the contract o			Weight: 242 lb	FT = 20%
			1100000		H012(C1) 0.23 1	i n/a	n/a	Weight: 242 lb	0.000

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 \*Except\*

1-3: 2x8 SP 2400F 2.0E **BOT CHORD** 2x4 SP No.2 \*Except\*

2-18,2-16: 2x6 SP No.2, 4-15: 2x4 SP No.3

WEBS 2x4 SP No.3

(size) 1=0-3-8, 11=0-3-8, 9=0-3-8

Max Horz 1=-149(LC 13)

Max Uplift 1=-245(LC 12), 11=-315(LC 13), 9=-165(LC 9) Max Grav 1=1258(LC 2), 11=1724(LC 2), 9=226(LC 24)

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

2-20=-639/212, 2-3=-2686/646, 3-4=-1879/513, 4-5=-1840/597, 5-6=-1315/439, 6-7=-1469/413, 7-8=-106/560, 8-9=-127/483

**BOT CHORD** 2-17=-539/2486, 16-17=-539/2501, 4-16=-263/180, 12-14=-197/1265, 11-12=-192/1152,

9-11=-427/140

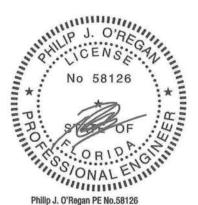
3-17=0/311, 3-16=-978/308, 14-16=-84/1126, 5-16=-343/1125, 5-14=-123/273, WEBS

6-14=-302/194, 7-12=-4/337, 7-11=-2084/413

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-10-0, Interior(1) 3-10-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=245, 11=315, 9=165,



Structural wood sheathing directly applied or 3-11-14 oc purlins.

5-14, 6-14, 7-11

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-2-0 oc bracing: 2-17

6-0-0 oc bracing: 9-11.

1 Row at midpt

Philip J. O'Regan PE No.58126 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 6,2021

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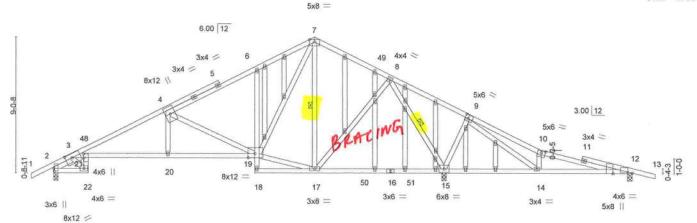
\*\*ANSITE!\*\* Quality Criteria, DSB-89 and BCSI Building Component\*\*

\*\*Safety Individuals from Truss Plate Institute 2370 Crain Hichways Suite 238 Walet 2018 Walet MD 20601 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty Ply GIEBEIG - JOHNSON RES.
2891235	T03G	GABLE	T24934917
PUSSEL VARIOUS			Job Reference (optional)
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,	8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 5 09:14:02 2021 Page 1
			ID:yF_ocOwa2BYMa3_bLYXStsysag2-ogu0?fmM_UWhjnYYRiegADs8BJfy3QhbJE3qA_yqxlJ

Scale = 1:74.5



		1-3-8 2-3-8 1-3-8 1-0-0 5-3-8		3-4-0 5-9-0	17-3-8		8-8-		5-10-4	32-4-0	38-4-0	
Plate Offse	ets (X,Y)	[2:0-2-4,0-0-7], [3:0-5-		- Committee of the Comm	3-11-8 -3-0,0-1-10], [1		5-0 12:0-0-9		0-1 <sup>1</sup> 12 [19:0-5-6	6-5-12 6,0-3-4], [21:0-	3-0,0-0-8]	
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	0.81	Vert(LL)	-0.29	20-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.51	20-21	>612	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.22	15	n/a	n/a		
BCDL	10.0	Code FBC2020	/TPI2014	Matr	ix-MS	10.10.00 (A. 60.00 (A. 60.					Weight: 282 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

21-22,6-18: 2x4 SP No.3, 3-19: 2x4 SP M 31

WEBS 2x4 SP No.3 2x4 SP No.3 **OTHERS** 

SLIDER Left 2x4 SP No.3 1-4-4

REACTIONS. (size) 12=0-3-8, 2=0-3-8, 15=0-3-8

Max Horz 2=137(LC 16)

Max Uplift 12=-174(LC 9), 2=-218(LC 12), 15=-359(LC 13) Max Grav 12=277(LC 24), 2=922(LC 2), 15=2110(LC 2)

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

TOP CHORD 3-45=-481/77, 3-4=-1755/409, 4-6=-892/228, 6-7=-862/312, 7-8=-453/176,

8-9=-628/1190, 9-10=-217/763, 10-12=-225/668

2-22=-289/924, 21-22=-342/1166, 3-21=-379/1612, 20-21=-408/1660, 19-20=-408/1660,

6-19=-252/172, 15-17=-143/370, 14-15=-895/596, 12-14=-613/236 WEBS 3-22=-1316/402, 4-20=-24/427, 4-19=-944/313, 17-19=0/419, 7-17=-458/206,

8-17=-254/784, 8-15=-1765/726, 9-15=-369/323, 9-14=-884/593, 7-19=-295/875

**BOT CHORD** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-0, Interior(1) 2-4-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 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 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 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=174, 2=218, 15=359.



Structural wood sheathing directly applied or 2-2-14 oc purlins.

7-17 8-15

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

1 Row at midnt

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August 6,2021

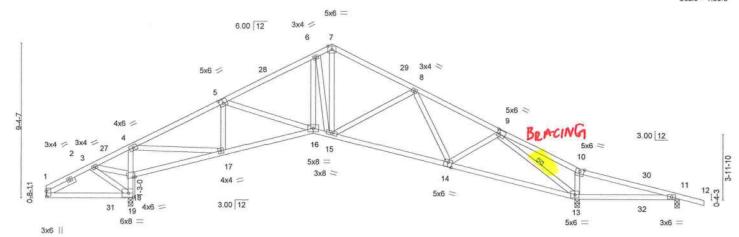
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss		Truss Type				Qty	Ply	GIEBEIG - JOHNSO	N RES.		
2891235	T04		Roof Special				5	1				T24934918
D. 114 F710	1.00.513		20055						Job Reference (option			
Builders FirstSource (I	ake City,FL),	Lake City, FL -	32055,			1D - F			n 2 2021 MiTek Indus			
						ID:yr_	ocowazi	BAMa3_DFA	/XStsysag2-dqFHGiq7	akGqRi?inyl4i	QU6Gyjo5 I A I I	hAW8OeyqxlD
2-9-8		10-8-12	1	5-2-0	17-3-8	22-3-7	1	27-5-3	32-0-8	32-4-0	38-4-0	39-10-0
2-9-8	2-6-0	5-5-4	5	-5-4	1-1-8	4-11-15		5-1-12	4-7-5	0-3-8	6-0-0	1-6-0

Scale = 1:68.0



	5	-0-0 0-3-8 5-5		5-5-4	1-1-8	7-1-9		-		7-7-7	0-1-12	6-1-12	
Plate Offs	sets (X,Y)	[1:0-3-12,0-0-6], [5:0-3-0	),0-3-0], [9:0-1-	12,0-3-0], [14	:0-3-0,0-3-4], [	18:0-1-11,Edge]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L∕d	PLAT	ES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.11	13-26	>676	240	MT20		244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.21	13-14	>999	180	00000000		X27800210.000000
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.13	13	n/a	n/a			
BCDL	10.0	Code FBC2020/7	PI2014	Matrix	k-MS	amino data con terra meta					Weigh	nt: 211 lb	FT = 20%

24-5-1

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

32-0-8

32.2.4

Structural wood sheathing directly applied or 4-7-0 oc purlins.

9-13

Rigid ceiling directly applied or 4-6-8 oc bracing.

1 Row at midpt

38.4.0

17-3-8

LUMBER-

TOP CHORD 2x4 SP No.2

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

4-19: 2x4 SP No.3

5-0-0

5-3-8

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-8

(size) 13=0-3-8, 11=0-3-8, 19=0-3-8 REACTIONS.

Max Horz 19=152(LC 13)

Max Uplift 13=-284(LC 13), 11=-182(LC 9), 19=-294(LC 12)

10-8-12

16-2-0

Max Grav 13=1356(LC 1), 11=212(LC 24), 19=1379(LC 1)

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

1-3=-232/333, 3-4=-652/591, 4-5=-1352/294, 5-6=-1457/275, 6-7=-1235/313, 7-8=-1280/272, 8-9=-1481/341, 9-10=-60/542, 10-11=-79/452

**BOT CHORD** 18-19=-1415/743, 4-18=-1156/455, 17-18=-492/701, 16-17=-245/1187, 15-16=-122/1254,

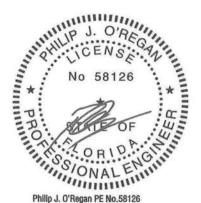
14-15=-128/1361, 13-14=-175/1073, 11-13=-401/94

3-19=-282/183, 3-18=-487/713, 4-17=-589/1616, 5-17=-387/223, 6-16=-112/555, 6-15=-681/245, 7-15=-238/954, 8-15=-309/221, 9-14=0/328, 9-13=-1933/326 WEBS

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-10-0, Interior(1) 3-10-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 zone; cantilever left exposed; 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.
- 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) 13=284, 11=182, 19=294,



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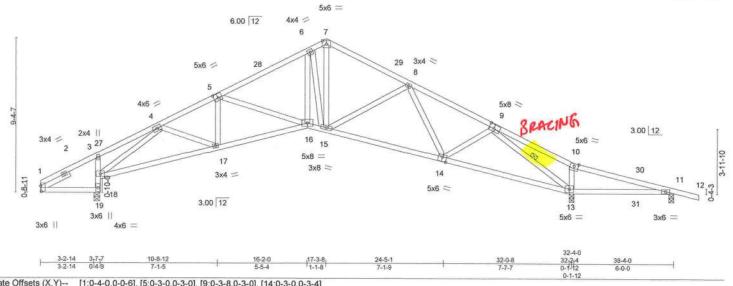
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



			GIEBEIG - JOHNSON RES.	
1		1		T24934919
		- 1	Job Reference (optional)	
	1	1		Job Reference (optional)

tSc	urce (Lake Cit	y,FL),	Lake Cit	y, FL - 32055,			1000 0000	8.430 s Jun 2 202	21 MiTek Industri	es, Inc. Thu	Aug 5 09:14:11	2021 Page 1
							ID:yF_o	cOwa2BYMa3_bLYXSt	sysag2-2PxQujt0	tFePIAkHS5	In26knhxpVgS.	JwO8lo?zyqxlA
-	3-7-7	7-2-12		10-8-12	16-2-0	17-3-8	22-3-7	27-5-3	32-0-8	32-4-0	38-4-0	39-10-0
2	3-7-7	3-7-5		3-6-0	5-5-4	1-1-8	4-11-15	5-1-12	4-7-5	0-3-8	6-0-0	1-6-0

Scale = 1:68.0



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.11	13-26	>677	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.24	16-17	>999	180	0.000.000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.19	13	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	11 0000000013/000013/				14.77.77	Weight: 207 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

3-19: 2x4 SP No.3

**WEBS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS. (size) 19=0-4-3, 13=0-3-8, 11=0-3-8

Max Horz 19=-152(LC 13)

Max Uplift 19=-275(LC 12), 13=-297(LC 13), 11=-180(LC 9) Max Grav 19=1290(LC 1), 13=1486(LC 1), 11=187(LC 24)

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

3-4=-290/237, 4-5=-1890/418, 5-6=-1742/393, 6-7=-1458/419, 7-8=-1503/376, 8-9=-1614/411, 9-10=-98/705, 10-11=-116/610

BOT CHORD

18-19=-1256/488, 3-18=-266/150, 17-18=-357/1282, 16-17=-351/1729, 15-16=-179/1510, 14-15=-208/1516, 13-14=-214/1127, 11-13=-553/130 4-17=-99/479, 5-16=-259/170, 6-16=-167/817, 6-15=-922/306, 7-15=-319/1151,

**WEBS** 

8-15=-275/214, 9-14=-9/386, 9-13=-2197/429, 4-18=-1870/588

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-10-0, Interior(1) 3-10-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 zone; cantilever left exposed; 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.
- 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) 19=275, 13=297, 11=180.



Structural wood sheathing directly applied or 4-0-15 oc purlins.

9-13

Rigid ceiling directly applied or 4-5-8 oc bracing.

1 Row at midpt

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 6,2021

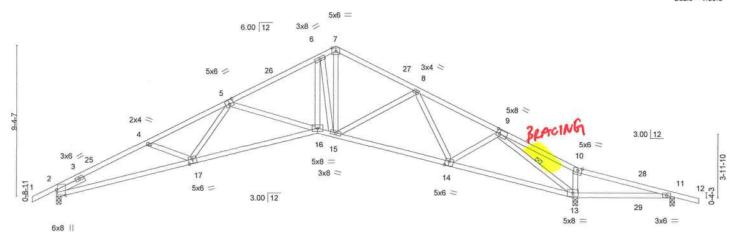
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, erection and bracing of trusses and truss systems, see

\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	T	russ Type		Qty	Ply	GIEBEIG - JOHNSON	RES.		
2891235	T06	F	Roof Special		4	1				T24934920
							Job Reference (optional	1)		
Builders FirstSource (	Lake City,FL),	Lake City, FL - 320	55,			8.430 s Ju	n 2 2021 MiTek Industri	es, Inc. Thu	Aug 5 09:14:14	2021 Page 1
					ID:yF_oc0	Dwa2BYMa3_b	LYXStsysag2-S_cYWlvu	19A0_9dTs8E	sUfIMF?8nZtrF	RM45zSclygxl7
<sub>1</sub> -1-6-0	5-8-10	10-8-14	16-2-0	17-3-8	22-3-7	27-5-	3 32-0-8	32-4-0	38-4-0	39-10-0
1-6-0	5-8-10	5-0-4	5-5-2	1-1-8	4-11-15	5-1-1	2 4-7-5	0-3-8	6-0-0	1-6-0

Scale = 1:69.6



	Y.	8-4-0	1	16-2-0	17-3-8	24-5-1				32-0-8	32-2-4	38-4-0	)
		8-4-0		7-10-0	1-1-8	7-1-8		. N		7-7-7	0-1-12	6-1-12	)
Plate Offse	ets (X,Y)	[2:0-3-15,Edge], [5:0-3-0,	0-3-0], [9:0-2-	4,0-3-0], [14:0	)-3-0,0-3-4], [17:	0-3-0,0-3-4]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATI	S	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.30	16-17	>999	240	MT20		244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.61	16-17	>628	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.33	13	n/a	n/a			
BCDL	10.0	Code FBC2020/Ti	PI2014	Matrix	k-MS						Weigh	: 201 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\* 1-5: 2x4 SP M 31

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

2-17: 2x4 SP M 31 2x4 SP No.3

WEBS

Left 2x4 SP No.3 1-11-8 SLIDER

REACTIONS. (size) 13=0-3-8, 11=0-3-8, 2=0-3-8

Max Horz 2=142(LC 16)

Max Uplift 13=-332(LC 13), 11=-174(LC 9), 2=-271(LC 12) Max Grav 13=1803(LC 1), 11=97(LC 24), 2=1203(LC 1)

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

TOP CHORD 2-4=-3026/780, 4-5=-2894/723, 5-6=-2177/544, 6-7=-1756/529, 7-8=-1823/493,

8-9=-1719/463, 9-10=-230/1310, 10-11=-243/1195

**BOT CHORD** 2-17=-702/2691, 16-17=-554/2573, 15-16=-254/1903, 14-15=-280/1687, 13-14=-212/1056,

11-13=-1120/253

WEBS 5-17=-32/342, 5-16=-652/293, 6-16=-260/1325, 6-15=-1327/372, 7-15=-408/1391,

8-14=-338/110, 9-14=-50/564, 9-13=-2828/618

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-0, Interior(1) 2-4-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 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.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2 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 ((t=lb) 13=332, 11=174, 2=271.



Structural wood sheathing directly applied or 3-7-4 oc purlins.

9-13

Rigid ceiling directly applied or 5-0-3 oc bracing.

1 Row at midpt

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

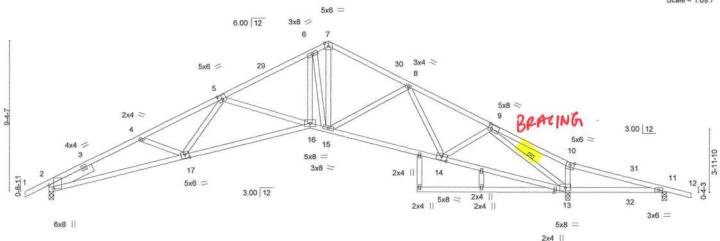
August 6,2021

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. 



Job	Truss		Truss Type		Q	ty Ply	GIEB	EIG - JOHNSON	RES.		
2891235	T07		Roof Special		3		1				T2493492
							Job R	eference (optiona	f)		
Builders FirstSource (	Lake City,FL),	Lake City, FL - 32	055,			8.430	s Jun 2 20	21 MiTek Industrie	es, Inc. Thu	Aug 5 09:14:19	2021 Page 1
					ID:yF_ocO	wa2BYMa3_l	LYXStsysa	g2-pxQRZTz1_if0	3FOLpwmRff	Mo30k9TkY6g5	DNhDHVyqxl2
,-1-6-0,	5-8-10	10-8-14	16-2-0	17-3-8	22-3-7		27-5-3	32-0-8	32-4-0	38-4-0	39-10-0
1-6-0	5-8-10	5-0-4	5-5-2	1-1-8	4-11-15		5-1-12	4-7-5	0-3-8	6-0-0	1-6-0

Scale = 1:69.7



	1	8-4-0	1	16-2-0	17-3-8	22-10-0	24-5-1		32-0-8	32-2-4	38-4-0	
	1	8-4-0		7-10-0	1-1-8	5-6-8	1-7-1		7-7-7	0-1-12	6-1-12	
Plate Offs	ets (X,Y)	[2:0-2-13,0-3-4], [5:0-3-0	,0-3-0], [9:0-2-	4,0-3-0], [14:0	-4-0,0-3-0], [17:	0-3-0,0-3-4]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLAT	ES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	-0.29 16-17	>999	240	MT20		244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.60 16-17	>637	180	ASCORPAN		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.34 13	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	c-MS					Weigh	t: 223 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

1 Row at midnt

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

9-13

LUMBER-

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

13-18: 2x4 SP No.3 WEBS 2x4 SP No.3

SLIDER

Left 2x6 SP No.2 2-11-8

REACTIONS. (size) 13=0-3-8, 11=0-3-8, 2=0-3-8 Max Horz 2=142(LC 16)

Max Uplift 13=-332(LC 13), 11=-175(LC 11), 2=-271(LC 12) Max Grav 13=1806(LC 1), 11=95(LC 24), 2=1203(LC 1)

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

2-4=-3028/786, 4-5=-2913/729, 5-6=-2174/543, 6-7=-1755/529, 7-8=-1822/493, TOP CHORD 8-9=-1716/462, 9-10=-233/1319, 10-11=-245/1203

**BOT CHORD** 2-17=-703/2713, 16-17=-554/2573, 15-16=-253/1900, 14-15=-280/1685, 13-14=-213/1052,

11-13=-1127/255

5-17=-38/355, 5-16=-654/295, 6-16=-257/1318, 6-15=-1325/371, 7-15=-409/1392,

8-14=-340/110, 9-14=-50/565, 9-13=-2833/619

### NOTES-

**WEBS** 

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-0, Interior(1) 2-4-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 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.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2 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) 13=332, 11=175, 2=271.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 6,2021

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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

Job Truss Truss Type Qty Ply GIEBEIG - JOHNSON RES. T24934922 2891235 T08 3 Common 1 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 5 09:14:21 2021 Page 1 ID:yF\_ocOwa2BYMa3\_bLYXStsysag2-IKXC\_8\_HWKv\_ViVC2BU7RD8ULzH30AUOhhAKLOyqxl0 15-1-0 -1-6-0 13-7-0 6-9-8 1-6-0 Scale = 1:28.0 4x6 = 6.00 12 18 3x4 = 5 3x4 > 3 0-8-11 20 21 22 8 2x4 | 3x6 || 3x6 || 6-9-8 13-7-0 Plate Offsets (X,Y)--[2:0-2-4,0-0-2], [6:0-3-8,0-0-2] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defi L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.43 Vert(LL) 0.09 8-15 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.41 Vert(CT) -0.09 8-11 >999 180 0.0 \* BCLL Rep Stress Incr YES WB 0.12 Horz(CT) 0.02 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 59 lb FT = 20% BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=62(LC 12)

Max Uplift 2=-144(LC 9), 6=-144(LC 8) Max Grav 2=584(LC 1), 6=584(LC 1)

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

TOP CHORD 2-4=-551/705, 4-6=-551/705 **BOT CHORD** 2-8=-508/492, 6-8=-508/492

**WEBS** 4-8=-397/283

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-9-8, Exterior(2R) 6-9-8 to 9-9-8, Interior(1) 9-9-8 to 15-1-0 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
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=144, 6=144.



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

Rigid ceiling directly applied or 7-8-11 oc bracing.

Philip J. O'Regan PE No.58126 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

August 6,2021

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ANSI/TPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd. Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - JOHNSON RES.	
2891235	T08G	GABLE	1	1		T24934923
					Job Reference (optional)	
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,			n 2 2021 MiTek Industries, Inc. Thu Aug 5 0	

6-9-8

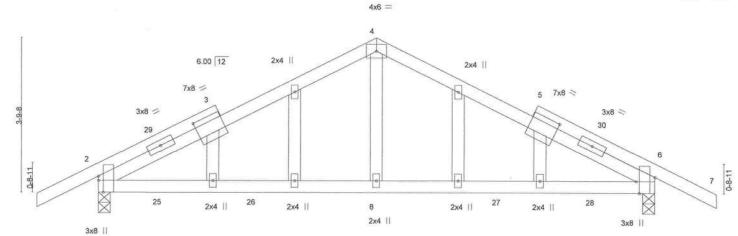
oniqVV2oaYPQzJpzH1Y3c3J7?ae\_y\_b\_cJ8YT9yqxky 13-7-0 15-1-0

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

Rigid ceiling directly applied or 5-7-2 oc bracing.

1-6-0

Scale = 1:27.5



13-7-0 6-9-8 Plate Offsets (X,Y)--[2:0-3-8,Edge], [6:0-3-8,Edge], [12:2-7-11,0-1-8], [16:2-7-11,0-1-8] LOADING (psf) SPACING-2-0-0 CSI DEFL (loc) I/defl Ld **PLATES** GRIP 20.0 Plate Grip DOL TCII 1.25 TC 0.58 Vert(LL) 0.10 8-19 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1 25 BC 0.41 Vert(CT) -0.08 8-23 >999 180 0.0 \* BCLL Rep Stress Incr YES WB 0.11 Horz(CT) 0.02 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MS FT = 20% Weight: 73 lb

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

**OTHERS** 2x4 SP No 3

-1-6-0

1-6-0

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=-57(LC 13)

Max Uplift 2=-144(LC 9), 6=-144(LC 8) Max Grav 2=584(LC 1), 6=584(LC 1)

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

TOP CHORD **BOT CHORD** 

2-4=-633/839, 4-6=-633/838

WEBS

2-8=-977/706, 6-8=-977/706

4-8=-434/276

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-9-8, Corner(3R) 6-9-8 to 9-9-8, Exterior(2N) 9-9-8 to 15-1-0 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
- 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) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 (it=lb) 2=144, 6=144.



Philip J. O'Regan PE No.58126 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 6,2021

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ANSITPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



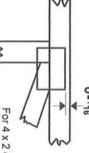
6904 Parke East Blvd Tampa, FL 36610

## Symbols

# PLATE LOCATION AND ORIENTATION



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



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

တ

6

G

edge of truss.

connector plates required direction of slots in This symbol indicates the

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

## PLATE SIZE

4 × 4

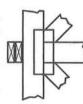
width measured perpendicular the length parallel to slots. to slots. Second dimension is The first dimension is the plate

## LATERAL BRACING LOCATION



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

### BEARING



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

## Industry Standards:

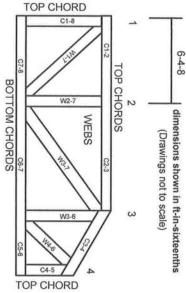
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

DSB-89

Installing & Bracing of Metal Plate Guide to Good Practice for Handling, Building Component Safety Information

Connected Wood Trusses

# Numbering System



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

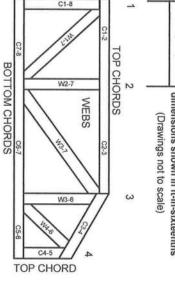
truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

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

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### ω 4 Never exceed the design loading shown and never may require bracing, or alternative Tor I bracing should be considered. stack materials on inadequately braced trusses

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

Damage or Personal Injury

Failure to Follow Could Cause Property

General Safety Notes

- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint
- 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.
- 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 environmental, health or performance risks. Consult with project engineer before use.
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.