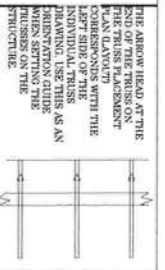
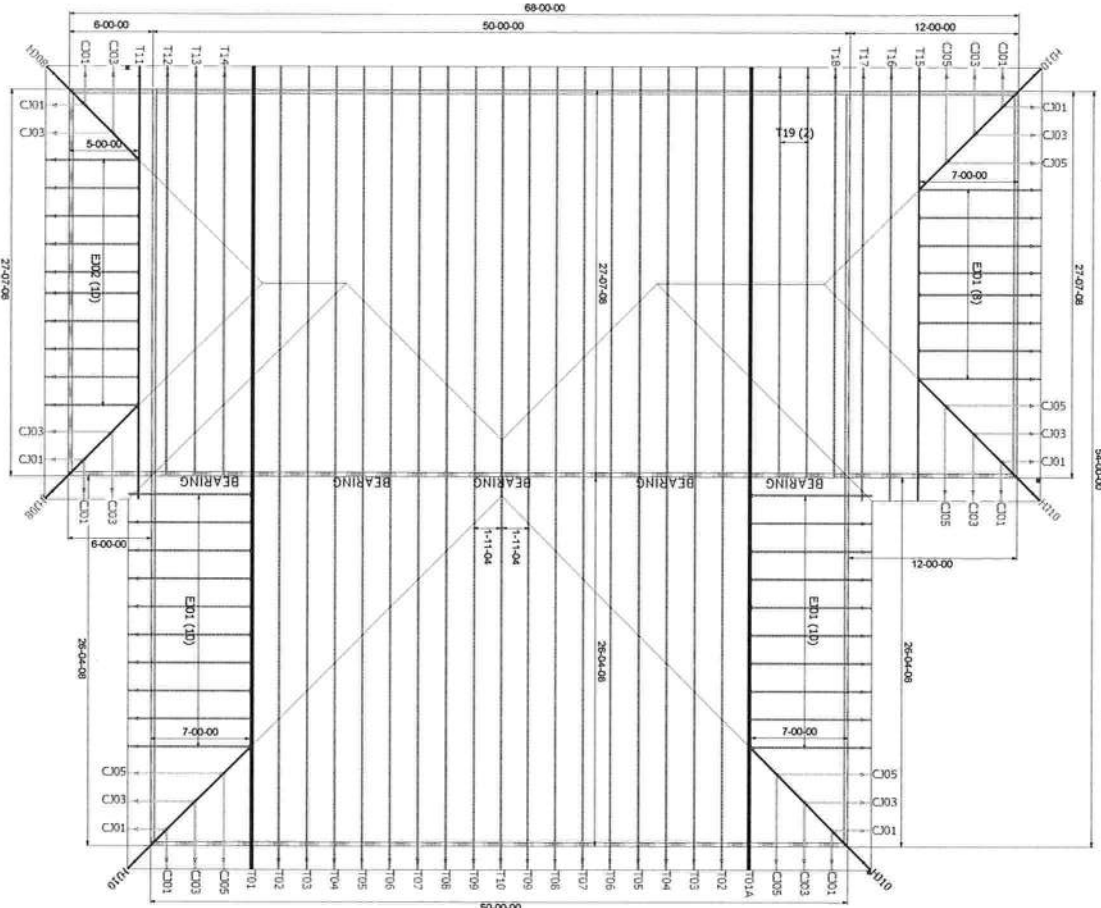


5/12 PITCH - 20" O/H



THE ABOVE HEAD OF THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN LAYOUT SHALL BE MATCHED WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN INDICATION OF THE TRUSS ORIENTATION WHEN SETTING THE TRUSSES ON THE STRUCTURE.

Per ANSITF 1.2002 all "Teas to Wall" connections shall be designed by the Building Designer, not the Truss Manufacturer.

The Manufacturer's specifications for all hanger connections shall be used.

All hangers are to be Simpson or equivalent L.L.K.O. type 104 x 1 1/2" x 1/2" x 1/2" in hanger connections to single ply trusses.

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

Dimensions are Feet/Inches/ Sixteenths.

Note: No back clamps will be applied by Builders. Preference unless approved in writing first. 850 E52 4141

ACQ lumber is sensitive to cross grain. Any ACQ lumber that comes in contact with cross grain (i.e. applied on ends) must have an approved barrier applied first.

Refer to BCSI 01 Summary Sheet Guide for handling, installing and storing of Metal Plate Connected Wood Truss prior to site storage from installation.

It is the responsibility of the Contractor to ensure that the construction documents and field conditions of the trusses are followed. If a revised or changed layout is required, the Contractor shall be responsible for the placement of trusses, adjusted for plumbness from the height, etc., 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 or any additional loads from above. Trusses are designed to carry their own weight.

This truss alignment plan was not created by an engineer, but rather by the Builders' Preference staff and is solely to be used as an installation guide and does not constitute a design. It is not intended to be used as a design for engineering purposes. It is intended to be used by the truss design engineer.

Order and trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

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



Lake City
 PHONE: 386-765-6894
 FAX: 386-765-7973

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

Tallahassee
 PHONE: 850-576-5177

Builder: MIKE TODD CONST.
 Gerke Res.

Model	Custom	Original Ref #	
Issue	11-2-21	Drawn by:	KLH
		Check date:	N/A
		Issue date:	2980314

MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2



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

RE: 2980314 - MIKE TODD CONST. - GERKE RES.

MiTek USA, Inc.

6904 Parke East Blvd.
 Tampa, FL 33610-4115

Site Information:

Customer Info: Mike Todd Const. Project Name: Gerke Res. Model: Custom
 Lot/Block: N/A Subdivision: N/A
 Address: 1483 Bedenbaugh Lane, N/A
 City: Columbia Cty State: FL

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

Name: License #:
 Address: City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
 Wind Code: ASCE 7-16 Wind Speed: 130 mph
 Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 27 individual, Truss Design Drawings and 0 Additional Drawings.
 With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T26141676	CJ01	12/3/21	23	T26141698	T15	12/3/21
2	T26141677	CJ03	12/3/21	24	T26141699	T16	12/3/21
3	T26141678	CJ05	12/3/21	25	T26141700	T17	12/3/21
4	T26141679	EJ01	12/3/21	26	T26141701	T18	12/3/21
5	T26141680	EJ02	12/3/21	27	T26141702	T19	12/3/21
6	T26141681	HJ08	12/3/21				
7	T26141682	HJ10	12/3/21				
8	T26141683	T01	12/3/21				
9	T26141684	T01A	12/3/21				
10	T26141685	T02	12/3/21				
11	T26141686	T03	12/3/21				
12	T26141687	T04	12/3/21				
13	T26141688	T05	12/3/21				
14	T26141689	T06	12/3/21				
15	T26141690	T07	12/3/21				
16	T26141691	T08	12/3/21				
17	T26141692	T09	12/3/21				
18	T26141693	T10	12/3/21				
19	T26141694	T11	12/3/21				
20	T26141695	T12	12/3/21				
21	T26141696	T13	12/3/21				
22	T26141697	T14	12/3/21				

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.

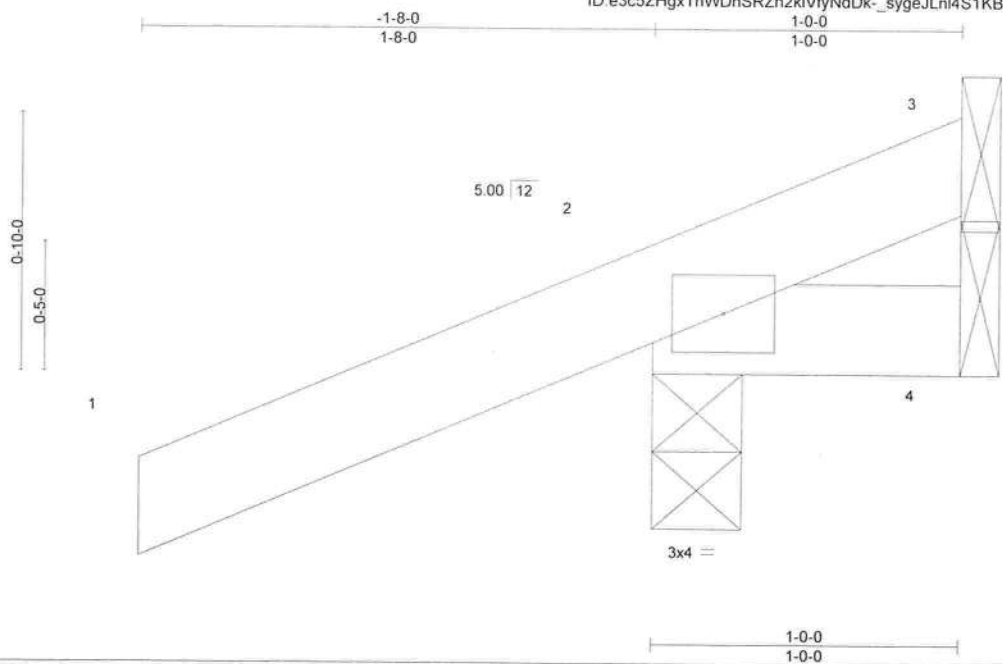


Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

December 3,2021

Job .	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - GERKE RES.	T26141676
2980314	CJ01	Jack-Open	12	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:28 2021 Page 1
 ID: e3c5ZHgxTnWDnSRZn2kiVfyNdDk-_sygeJLn4S1KBr9?MEhge5dJP??laVjhlp61yD5PL



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(LL) 0.00 7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) 0.00 7 >999 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP	Horz(CT) -0.00 2 n/a n/a	Weight: 6 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=35(LC 8)
 Max Uplift 3=-13(LC 1), 2=-101(LC 8), 4=-26(LC 1)
 Max Grav 3=11(LC 8), 2=202(LC 1), 4=19(LC 16)

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

- NOTES-**
- 1) 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) 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 13 lb uplift at joint 3, 101 lb uplift at joint 2 and 26 lb uplift at joint 4.



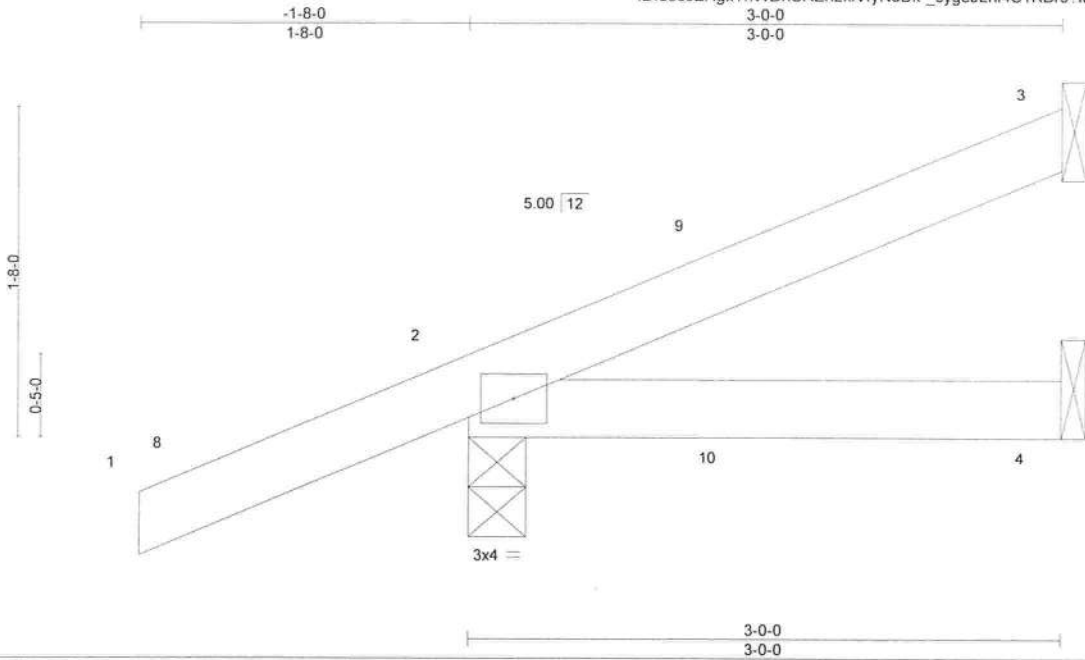
Phillip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: December 3, 2021

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 property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job 2980314	Truss C.J03	Truss Type Jack-Open	Qty 12	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141677
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 ID: e3c5ZHgxTnWDnSRZn2kiVfyNdDk-_sygeJLnI4S1KB9?MEhge5dJP_0laVjhlp61yD5PL



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.10	Vert(LL) 0.01 4-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.01 4-7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 3 n/a n/a		
	Code FBC2020/TP12014			Weight: 12 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=63(LC 12)
 Max Uplift 3=-32(LC 12), 2=-93(LC 8), 4=-15(LC 9)
 Max Grav 3=58(LC 1), 2=224(LC 1), 4=49(LC 3)

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

- NOTES-**
- 1) 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) -1-8-0 to 1-4-0, Interior(1) 1-4-0 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.
 - 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 32 lb uplift at joint 3, 93 lb uplift at joint 2 and 15 lb uplift at joint 4.



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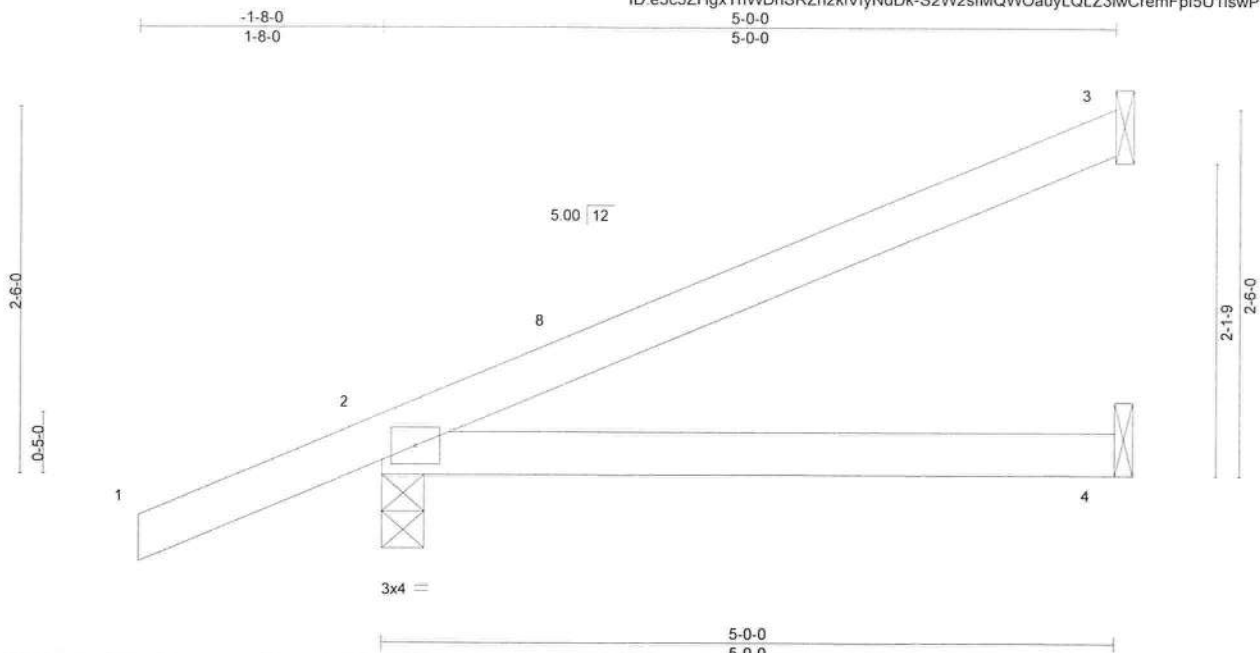


Job 2980314	Truss CJ05	Truss Type Jack-Open	Qty 8	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141678
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:29 2021 Page 1

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Scale = 1:15.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.23	Vert(LL) 0.03 4-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.05 4-7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 3 n/a n/a		
	Code FBC2020/TPI2014			Weight: 18 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=91(LC 12)
Max Uplift 3=-61(LC 12), 2=-75(LC 12)
Max Grav 3=112(LC 1), 2=288(LC 1), 4=88(LC 3)

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

- NOTES-**
- 1) 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) -1-8-0 to 1-4-0, Interior(1) 1-4-0 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.
 - 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 61 lb uplift at joint 3 and 75 lb uplift at joint 2.



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6904 Parke East Blvd. Tampa FL 33610
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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job 2980314	Truss EJ01	Truss Type Jack-Partial	Qty 28	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141679
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:30 2021 Page 1
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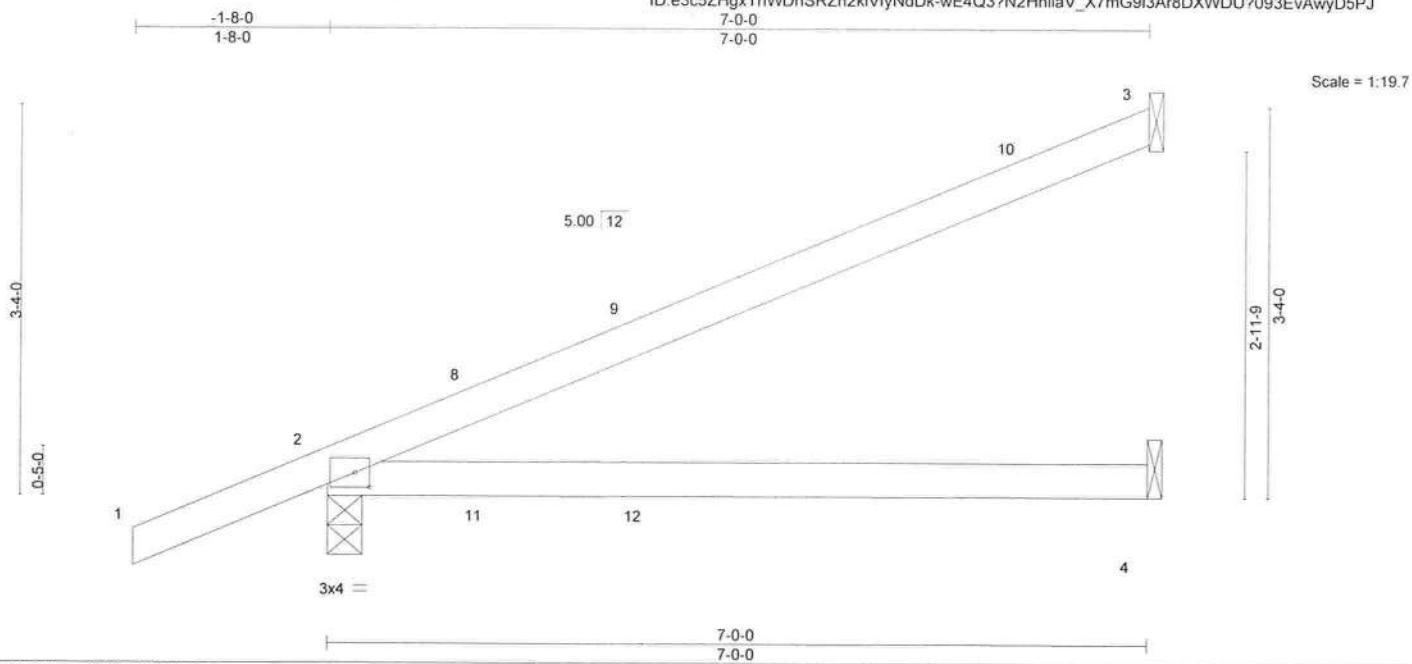


Plate Offsets (X,Y)-- [2-0-1-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	0.29 4-7	>283	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	0.25 4-7	>334	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02 3	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 25 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=116(LC 12)
 Max Uplift 3=-79(LC 12), 2=-130(LC 8), 4=-40(LC 9)
 Max Grav 3=163(LC 1), 2=357(LC 1), 4=125(LC 3)

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

- NOTES-**
- 1) 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) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 6-11-4 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.
 - 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 79 lb uplift at joint 3, 130 lb uplift at joint 2 and 40 lb uplift at joint 4.



Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: December 3, 2021

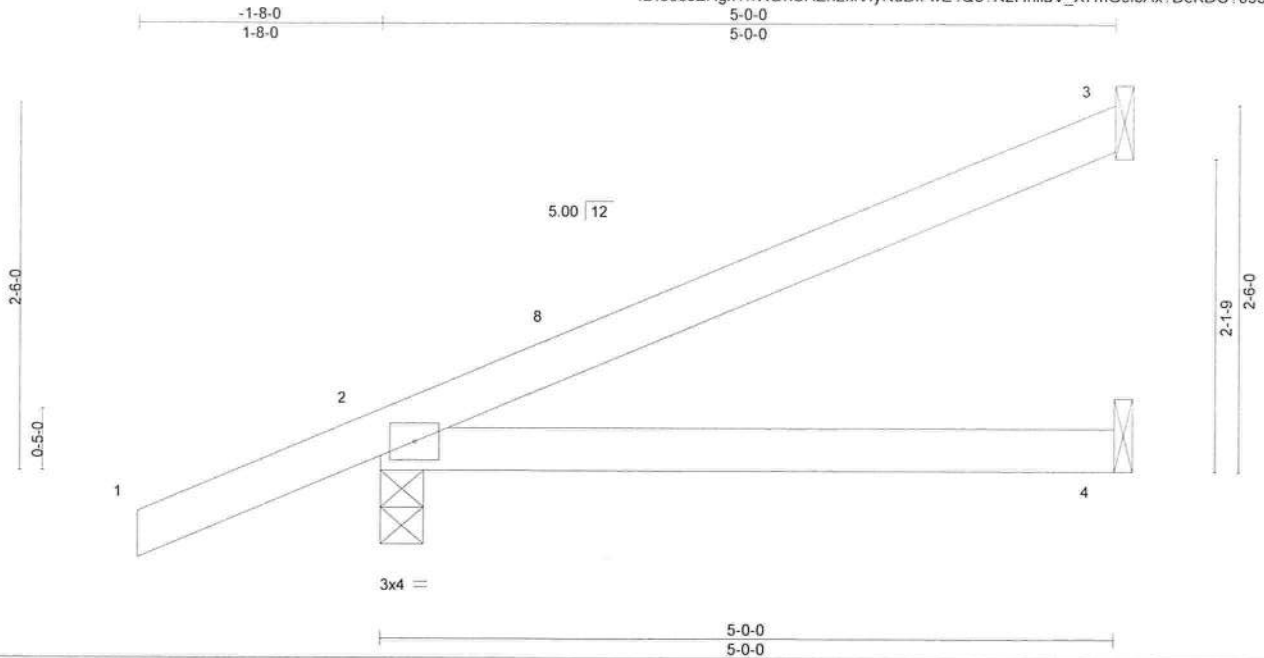
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/10/2020 BEFORE USE.
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Job #	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - GERKE RES.	T26141680
2980314	EJ02	Jack-Partial	10	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:30 2021 Page 1
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Scale = 1:15.7

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 0.27	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=91(LC 12)
Max Uplift 3=-61(LC 12), 2=-75(LC 12)
Max Grav 3=112(LC 1), 2=288(LC 1), 4=88(LC 3)

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

NOTES-

- 1) 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) -1-8-0 to 1-4-0, Interior(1) 1-4-0 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.
- 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 61 lb uplift at joint 3 and 75 lb uplift at joint 2.



Philip J. O'Regan PE No.58126
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6904 Parke East Blvd. Tampa FL 33610
Date:

December 3, 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 property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

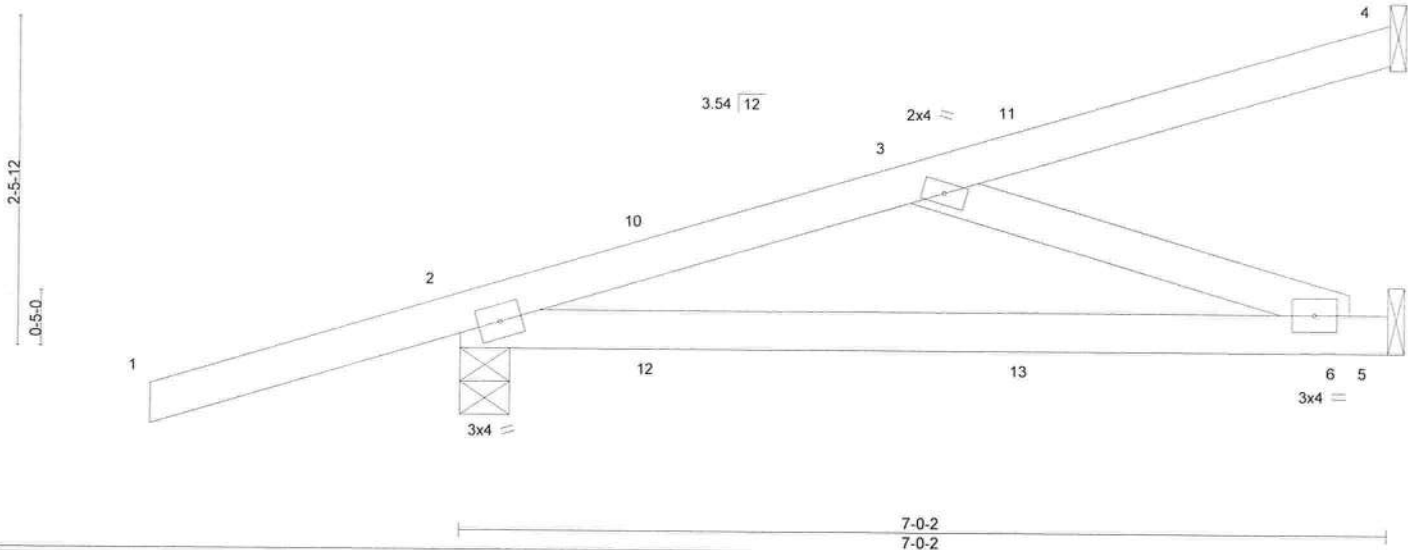
Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - GERKE RES.	T26141681
2980314	HJ08	Diagonal Hip Girder	2	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:32 2021 Page 1
 ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-sdBBUgOlpJyTpo8wEBldqUGFx0H8hNjlcNj0FoyD5PH



Scale = 1:17.4



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 0.37	Vert(LL)	-0.07	6-9	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.11	6-9	>771		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.08	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						

Weight: 30 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
 Max Horz 2=102(LC 4)
 Max Uplift 4=49(LC 4), 2=147(LC 4), 5=61(LC 5)
 Max Grav 4=96(LC 19), 2=327(LC 1), 5=149(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-285/97
 BOT CHORD 2-6=-122/259
 WEBS 3-6=-274/129

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; 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
 - 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 49 lb uplift at joint 4, 147 lb uplift at joint 2 and 61 lb uplift at joint 5.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 90 lb up at 1-6-1, 53 lb down and 90 lb up at 1-6-1, and 21 lb down and 34 lb up at 4-4-0, and 21 lb down and 34 lb up at 4-4-0 on top chord, and 35 lb down and 54 lb up at 1-6-1, 35 lb down and 54 lb up at 1-6-1, and 18 lb down and 23 lb up at 4-4-0, and 18 lb down and 23 lb up at 4-4-0 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).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 5-7=-20
 Concentrated Loads (lb)
 Vert: 10=43(F=21, B=21) 12=59(F=30, B=30) 13=-2(F=-1, B=-1)



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

December 3, 2021

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6904 Parke East Blvd.
 Tampa, FL 33610

Job .	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - GERKE RES.	T26141682
2980314	HJ10	Diagonal Hip Girder	4	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8 430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:33 2021 Page 1
 ID:e3c5ZHgxTrnWDnSRZn2kiVfyNdDk-LplZh0Pwac4KRyj6ovpsNhoM?QakQICsr1TanFyD5PG
 9-10-1 5-4-1

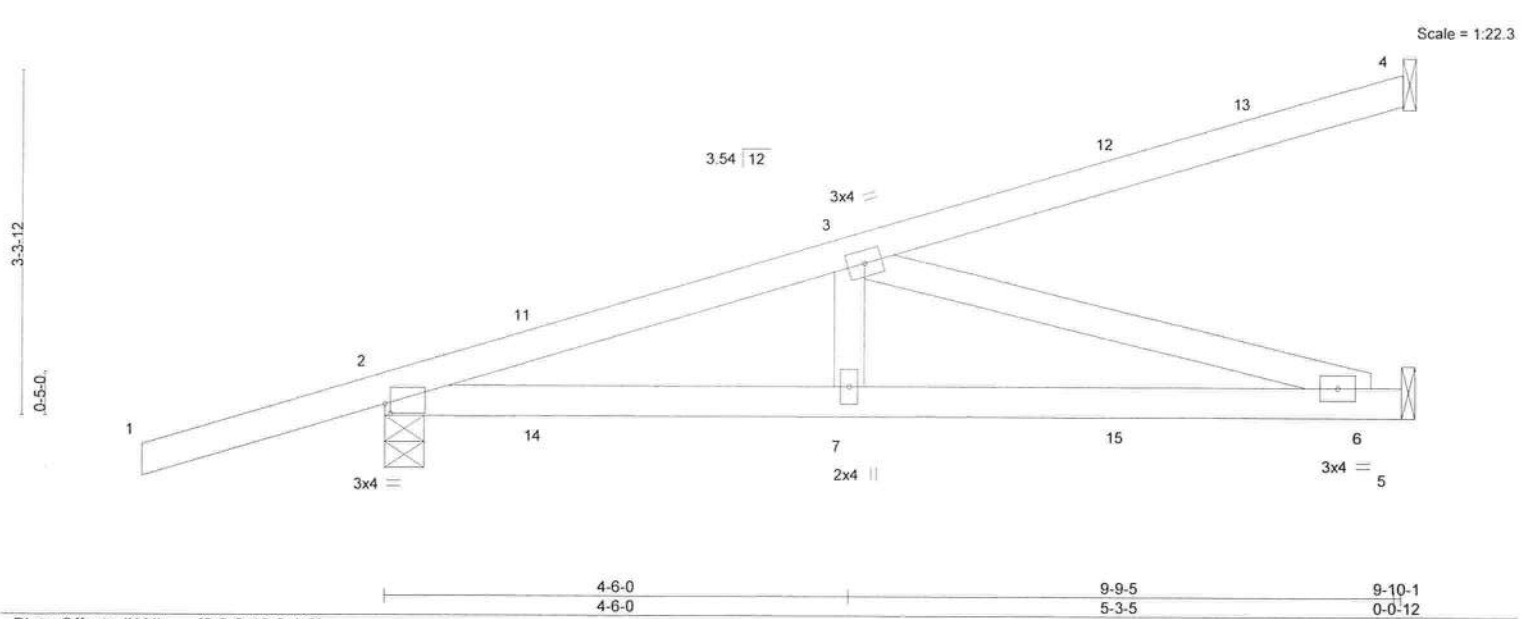


Plate Offsets (X,Y)-- [2:0-0-10,0-1-2] 4-6-0 4-6-0 9-9-5 5-3-5 9-10-1 0-0-12

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	0.07 6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.13 6-7	>914	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.42	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 43 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
 Max Horz 2=127(LC 4)
 Max Uplift 4=-76(LC 4), 2=-194(LC 4), 5=-109(LC 5)
 Max Grav 4=154(LC 1), 2=453(LC 1), 5=272(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-767/288
 BOT CHORD 2-7=-320/718, 6-7=-320/718
 WEBS 3-6=-747/333

- NOTES-**
- 1) 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; porch left and right exposed; 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 76 lb uplift at joint 4, 194 lb uplift at joint 2 and 109 lb uplift at joint 5.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 90 lb up at 1-6-1, 53 lb down and 90 lb up at 1-6-1, 21 lb down and 34 lb up at 4-4-0, 21 lb down and 34 lb up at 4-4-0, and 42 lb down and 72 lb up at 7-1-15, and 42 lb down and 72 lb up at 7-1-15 on top chord, and 35 lb down and 54 lb up at 1-6-1, 35 lb down and 54 lb up at 1-6-1, 18 lb down and 23 lb up at 4-4-0, 18 lb down and 23 lb up at 4-4-0, and 40 lb down at 7-1-15, and 40 lb down at 7-1-15 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).

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=-2(F=-1, B=-1) 11=43(F=21, B=21) 12=-71(F=-35, B=-35) 14=59(F=30, B=30) 15=-55(F=-27, B=-27)

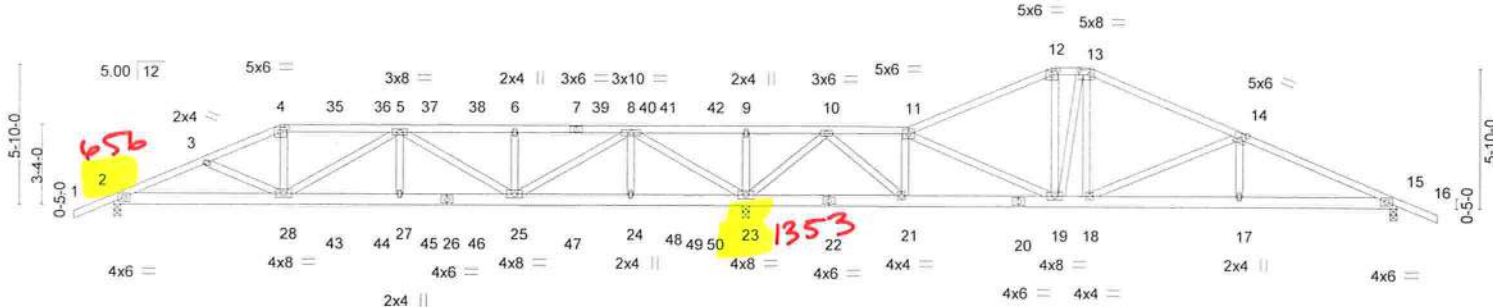


Philip J. O'Regan PE No.58126
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 Date: December 3, 2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - GERKE RES.	T26141683
2980314	T01	Roof Special Girder	1	2		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:37 2021 Page 1
 ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-Da74XOSReralwa1t1luoXXz3i1?2MVe1mfRnw0yD5PC
 -1-8-0 3-11-2 7-0-0 11-11-14 16-10-0 21-8-2 26-6-4 29-10-8 33-4-8 39-4-8 41-0-0 47-4-0 54-0-0 55-8-0
 1-8-0 3-11-2 3-0-14 4-11-14 4-10-2 4-10-2 4-10-2 3-4-4 3-6-0 6-0-0 1-7-8 6-4-0 6-8-0 1-8-0

Scale: 1/8"=1'



7-0-0	11-11-14	16-10-0	21-8-2	26-6-4	33-4-8	39-4-8	41-0-0	47-4-0	54-0-0
7-0-0	4-11-14	4-10-2	4-10-2	4-10-2	6-10-4	6-0-0	1-7-8	6-4-0	6-8-0

Plate Offsets (X,Y)-- [4:0-3-0,0-2-4], [12:0-3-0,0-2-4], [13:0-5-12,0-2-8], [14:0-2-12,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.56	Vert(LL) 0.11	27	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.36	Vert(CT) -0.17	25-27	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.58	Horz(CT) 0.03	23	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						

Weight: 667 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 21-23,19-21.

REACTIONS. (size) 2=0-3-8, 23=0-3-8, 15=0-3-8
 Max Horz 2=91(LC 12)
 Max Uplift 2=656(LC 8), 23=-1353(LC 8), 15=-310(LC 28)
 Max Grav 2=1610(LC 19), 23=3766(LC 1), 15=781(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3419/1471, 3-4=-3250/1426, 4-5=-3024/1357, 5-6=-2673/1269, 6-8=-2673/1269, 8-9=-1029/2889, 9-10=-1029/2889, 10-11=-774/714, 11-12=-828/453, 12-13=-701/438, 13-14=-850/436, 14-15=-1360/572
BOT CHORD 2-28=-1384/3119, 27-28=-1591/3530, 25-27=-1591/3530, 24-25=-572/583, 23-24=-572/583, 21-23=-1650/782, 19-21=-682/842, 18-19=-239/785, 17-18=-448/1239, 15-17=-449/1235
WEBS 4-28=-353/841, 5-28=-594/378, 5-27=-101/398, 5-25=-1043/414, 6-25=-508/245, 8-25=-1027/2490, 8-24=-79/358, 8-23=-3892/1665, 9-23=-384/183, 10-23=-1652/402, 10-21=-328/1490, 11-21=-897/274, 11-19=-411/1038, 13-19=-404/156, 13-18=-65/319, 14-18=-698/251, 14-17=0/294

- NOTES-**
- 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.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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.
 - Unbalanced roof live loads have been considered for this design.
 - 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; 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.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 656 lb uplift at joint 2, 1353 lb uplift at joint 23 and 310 lb uplift at joint 15.



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - GERKE RES.	T26141683
2980314	T01	Roof Special Girder	1	2	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:37 2021 Page 2
 ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-Da?4XOSReralwa1t1luoXXz3i1?2MVe1mfRnw0yD5PC

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 149 lb down and 83 lb up at 7-0-0, 149 lb down and 83 lb up at 9-0-12, 149 lb down and 83 lb up at 11-0-12, 149 lb down and 83 lb up at 13-0-12, 149 lb down and 83 lb up at 15-0-12, 149 lb down and 83 lb up at 17-0-12, 149 lb down and 83 lb up at 19-0-12, 149 lb down and 83 lb up at 21-0-12, and 149 lb down and 83 lb up at 23-0-12, and 149 lb down and 83 lb up at 25-0-12 on top chord, and 304 lb down and 202 lb up at 7-0-0, 85 lb down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-12, 85 lb down and 60 lb up at 15-0-12, 85 lb down and 60 lb up at 17-0-12, 85 lb down and 60 lb up at 19-0-12, 85 lb down and 60 lb up at 21-0-12, and 85 lb down and 60 lb up at 23-0-12, and 85 lb down and 60 lb up at 25-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-11=-54, 11-12=-54, 12-13=-54, 13-16=-54, 29-32=-20

Concentrated Loads (lb)

Vert: 4=-109(B) 28=-304(B) 25=-63(B) 6=-109(B) 35=-109(B) 36=-109(B) 37=-109(B) 38=-109(B) 39=-109(B) 40=-109(B) 41=-109(B) 42=-109(B) 43=-63(B) 44=-63(B) 45=-63(B) 46=-63(B) 47=-63(B) 48=-63(B) 49=-63(B) 50=-63(B)

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - GERKE RES.	T26141684
2980314	T01A	Roof Special Girder	1	2	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:40 2021 Page 2
 ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-d9gC9QUJwmyKn1SItRV9AbawF0IzSOUScRXLYD5P9

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 149 lb down and 83 lb up at 7-0-0, 149 lb down and 83 lb up at 9-0-12, 149 lb down and 83 lb up at 11-0-12, 149 lb down and 83 lb up at 13-0-12, 149 lb down and 83 lb up at 15-0-12, 149 lb down and 83 lb up at 17-0-12, 149 lb down and 83 lb up at 19-0-12, 149 lb down and 83 lb up at 21-0-12, and 149 lb down and 83 lb up at 23-0-12, and 149 lb down and 83 lb up at 25-0-12 on top chord, and 304 lb down and 202 lb up at 7-0-0, 85 lb down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-12, 85 lb down and 60 lb up at 15-0-12, 85 lb down and 60 lb up at 17-0-12, 85 lb down and 60 lb up at 19-0-12, 85 lb down and 60 lb up at 21-0-12, and 85 lb down and 60 lb up at 23-0-12, and 85 lb down and 60 lb up at 25-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-11=-54, 11-12=-54, 12-15=-54, 27-30=-20

Concentrated Loads (lb)

Vert: 4=-109(F) 26=-304(F) 23=-63(F) 6=-109(F) 33=-109(F) 34=-109(F) 35=-109(F) 36=-109(F) 37=-109(F) 38=-109(F) 39=-109(F) 40=-109(F) 41=-63(F) 42=-63(F) 43=-63(F) 44=-63(F) 45=-63(F) 46=-63(F) 47=-63(F) 48=-63(F)

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2980314	Truss T02	Truss Type Roof Special	Qty 2	Ply 1	MIKE TODD CONST. - GERKE RES. Job Reference (optional)	T26141685
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:42 2021 Page 1

ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-aYoza5WZSND20LvrqIUzEbgv_2fP1nunvw8YcDyD5P7

-1-8-0	4-11-15	9-0-0	14-9-14	20-10-2	26-6-4	30-10-8	35-4-8	40-2-4	46-7-0	54-0-0	55-8-0
1-8-0	4-11-15	4-0-1	5-9-14	6-0-4	5-8-2	4-4-4	4-6-0	4-9-12	6-4-12	7-5-0	1-8-0

Scale: 1/8"=1'

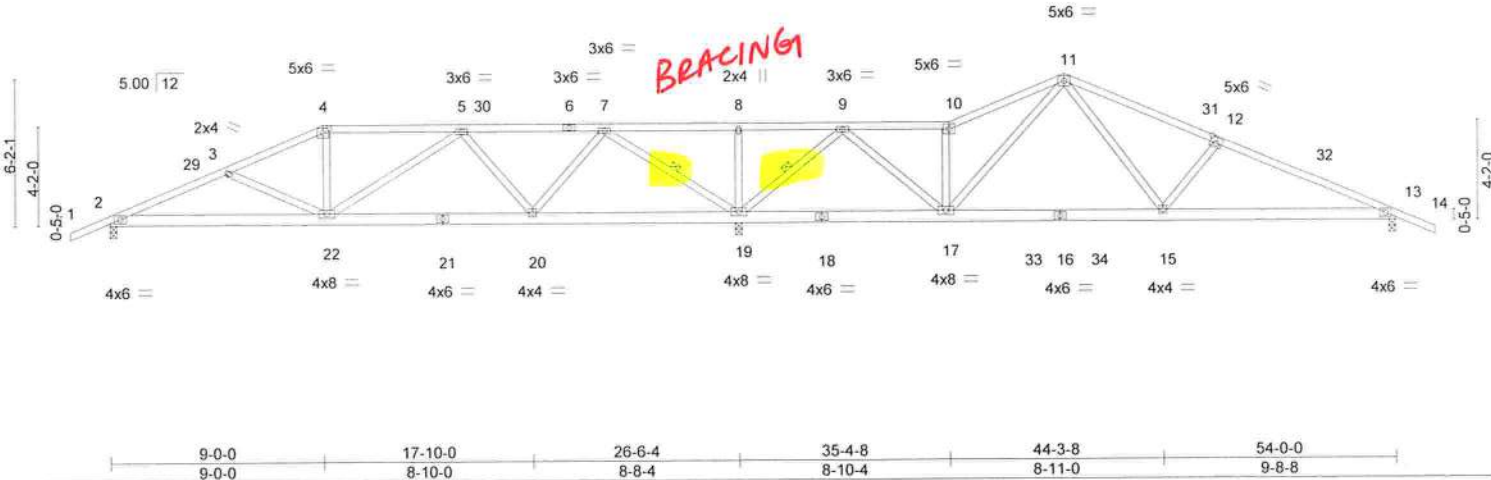


Plate Offsets (X,Y)-- [4:0-3-0-0-2-4], [12:0-3-0-0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.59	Vert(LL) -0.10	15-28	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.54	Vert(CT) -0.20	15-28	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.03	13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 313 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 7-19, 9-19

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 13=0-3-8
 Max Horz 2=-96(LC 17)
 Max Uplift 2=-242(LC 12), 19=-595(LC 12), 13=-230(LC 13)
 Max Grav 2=893(LC 25), 19=2645(LC 2), 13=938(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1531/430, 3-4=-1286/332, 4-5=-1162/330, 5-7=-555/170, 7-8=-340/1656,
 8-9=-340/1656, 9-10=-601/165, 10-11=-708/210, 11-12=-1363/327, 12-13=-1538/359
 BOT CHORD 2-22=-426/1400, 20-22=-256/922, 17-19=-419/165, 15-17=-53/734, 13-15=-245/1388
 WEBS 3-22=-309/177, 4-22=-6/287, 5-22=-58/341, 5-20=-628/227, 7-20=-157/964,
 7-19=-1812/495, 8-19=-283/134, 9-19=-1640/355, 9-17=-226/1353, 10-17=-459/189,
 11-15=-162/811, 12-15=-383/219

- 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) -1-8-0 to 3-8-13, Interior(1) 3-8-13 to 9-0-0, Exterior(2R) 9-0-0 to 14-4-13, Interior(1) 14-4-13 to 40-2-4, Exterior(2R) 40-2-4 to 45-7-1, Interior(1) 45-7-1 to 55-8-0 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 2, 595 lb uplift at joint 19 and 230 lb uplift at joint 13.



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

December 3, 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 property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/PT1 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 33610

Job 2980314	Truss T03	Truss Type Roof Special	Qty 2	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141686
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8 430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:43 2021 Page 1

ID:e3c5ZHgxTnVdNsrZn2kiVfyNdDk-2kMLoRXCDhLveVU1O??CmoD45S?Ym7pw8au58gyD5P6

1-8-0	5-11-2	11-0-0	18-10-0	26-6-4	31-10-8	37-4-8	40-2-4	46-7-0	54-0-0	55-8-0
1-8-0	5-11-2	5-0-14	7-10-0	7-8-4	5-4-4	5-6-0	2-9-12	6-4-12	7-5-0	1-8-0

Scale: 1/8"=1'

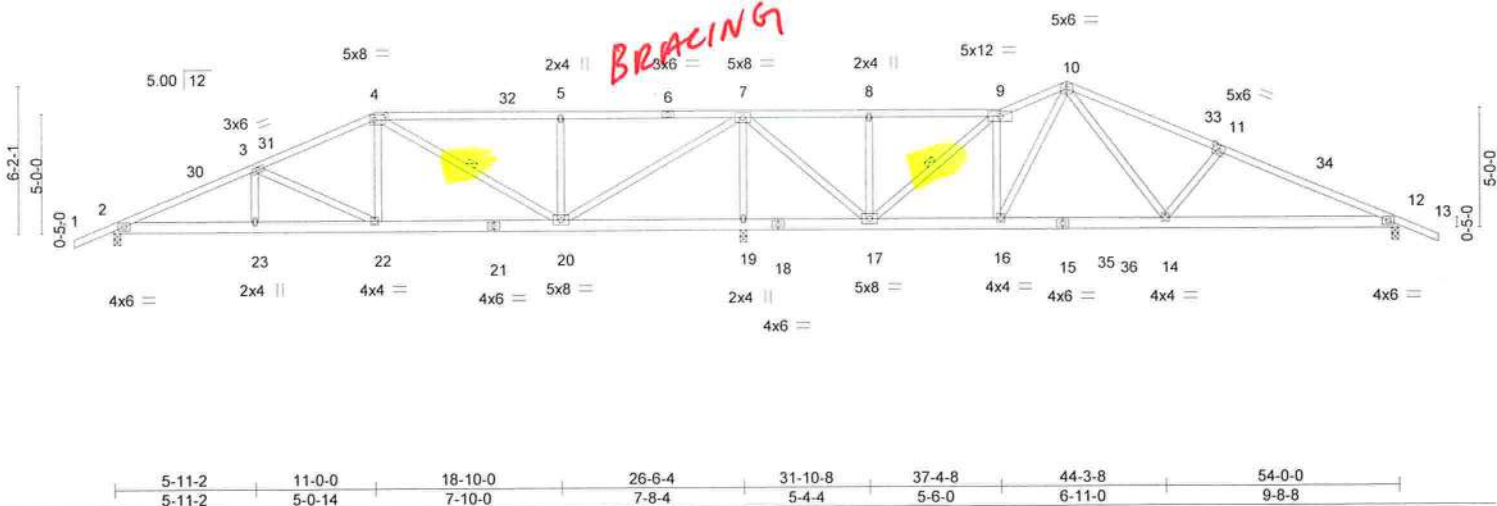


Plate Offsets (X,Y)-- [4:0-5-12,0-2-8], [11:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.11 14-29	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.21 14-29	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.02 12	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 328 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 19-20,17-19.
 WEBS 1 Row at midpt 4-20, 9-17

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 12=0-3-8
 Max Horz 2=-96(LC 17)
 Max Uplift 2=-241(LC 12), 19=-597(LC 12), 12=-230(LC 13)
 Max Grav 2=896(LC 25), 19=2639(LC 2), 12=934(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1586/400, 3-4=-1069/301, 4-5=-419/167, 5-7=-419/167, 9-10=-805/235,
 10-11=-1341/329, 11-12=-1517/360
BOT CHORD 2-23=-390/1428, 22-23=-390/1428, 20-22=-224/960, 19-20=-1352/368, 17-19=-1352/368,
 16-17=-37/731, 14-16=-51/734, 12-14=-246/1369
WEBS 3-22=-537/185, 4-22=-44/471, 4-20=-708/165, 5-20=-460/223, 7-20=-481/1919,
 7-19=-2352/623, 7-17=-316/1642, 8-17=-293/142, 9-17=-1098/218, 9-16=0/285,
 10-14=-167/770, 11-14=-383/219

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) -1-8-0 to 3-8-13, Interior(1) 3-8-13 to 11-0-0, Exterior(2R) 11-0-0 to 16-4-13, Interior(1) 16-4-13 to 40-2-4, Exterior(2R) 40-2-4 to 45-7-1, Interior(1) 45-7-1 to 55-8-0 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.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 2, 597 lb uplift at joint 19 and 230 lb uplift at joint 12.



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 Date:

December 3,2021

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6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - GERKE RES.	T26141687
2980314	T04	Hip	2	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:45 2021 Page 1

ID:e3c5ZHgxTnWDnSRZn2kiVlyNdDk-7U5C7YSIIbdtoeQVQ1gsDIPXGkoE7wDcuNCCYyD5P4

-1-8-0	6-8-0	13-0-0	20-1-15	27-0-0	33-10-1	41-0-0	47-4-0	54-0-0	55-8-0
1-8-0	6-8-0	6-4-0	7-1-15	6-10-1	6-10-1	7-1-15	6-4-0	6-8-0	1-8-0

Scale: 1/8"=1'

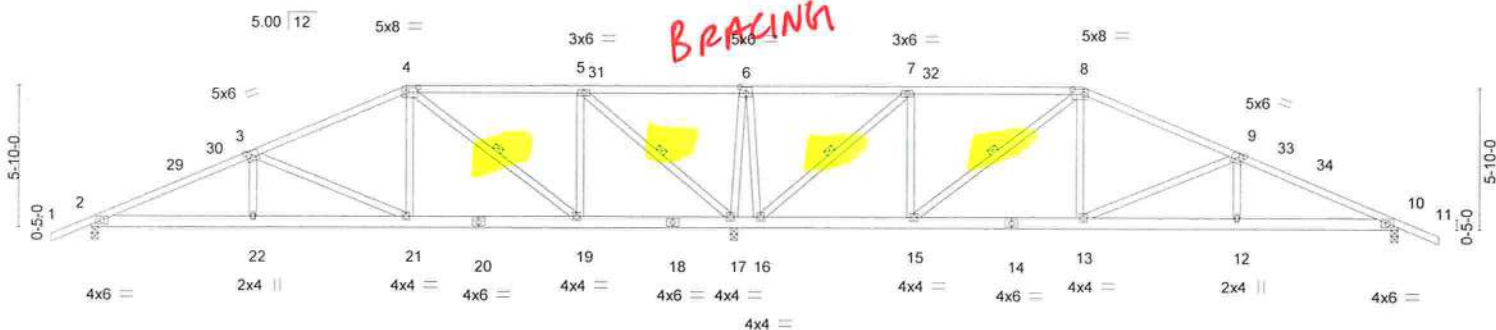


Plate Offsets (X, Y)--	[3-0-2-12,0-3-0],	[4-0-5-12,0-2-8],	[6-0-3-0,0-3-4],	[8-0-5-12,0-2-8],	[9-0-2-12,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.70	Vert(LL) -0.06	12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.36	Vert(CT) -0.12	12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.04	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 337 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 16-17.
	WEBS 1 Row at midpt 4-19, 5-17, 7-16, 8-15

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 10=0-3-8
 Max Horz 2=-91(LC 13)
 Max Uplift 2=-250(LC 12), 17=-572(LC 8), 10=-268(LC 13)
 Max Grav 2=871(LC 23), 17=2452(LC 1), 10=915(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1497/419, 3-4=-860/282, 5-6=-166/1067, 6-7=-133/903, 7-8=-339/221,
 8-9=-970/328, 9-10=-1609/466
BOT CHORD 2-22=-399/1334, 21-22=-398/1338, 19-21=-179/738, 16-17=-969/320, 15-16=-14/339,
 13-15=-130/839, 12-13=-350/1441, 10-12=-351/1437
WEBS 3-22=0/275, 3-21=-665/240, 4-21=-54/470, 4-19=-772/179, 5-19=-59/592,
 5-17=-1472/398, 6-17=-1084/297, 6-16=-164/728, 7-16=-1491/386, 7-15=-55/602,
 8-15=-678/153, 8-13=-52/459, 9-13=-668/240, 9-12=0/277

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=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) -1-8-0 to 3-8-13, Interior(1) 3-8-13 to 13-0-0, Exterior(2R) 13-0-0 to 20-7-10, Interior(1) 20-7-10 to 41-0-0, Exterior(2R) 41-0-0 to 48-7-10, Interior(1) 48-7-10 to 55-8-0 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) 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 250 lb uplift at joint 2, 572 lb uplift at joint 17 and 268 lb uplift at joint 10.



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 Date:

December 3, 2021

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6904 Parke East Blvd.
 Tampa, FL 36610

Job 2980314	Truss T05	Truss Type Hip	Qty 2	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141688
Builders FirstSource (Lake City, FL), Lake City, FL - 32055.		8,430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:46 2021 Page 1		Job Reference (optional)		
1-8-0 1-8-0		7-8-0 7-8-0	15-0-0 7-4-0	20-8-6 5-8-5	27-0-0 6-3-11	33-3-11 6-3-11
33-3-11		39-0-0	46-4-0	54-0-0	55-8-0	58-0-0

Scale: 1/8"=1'

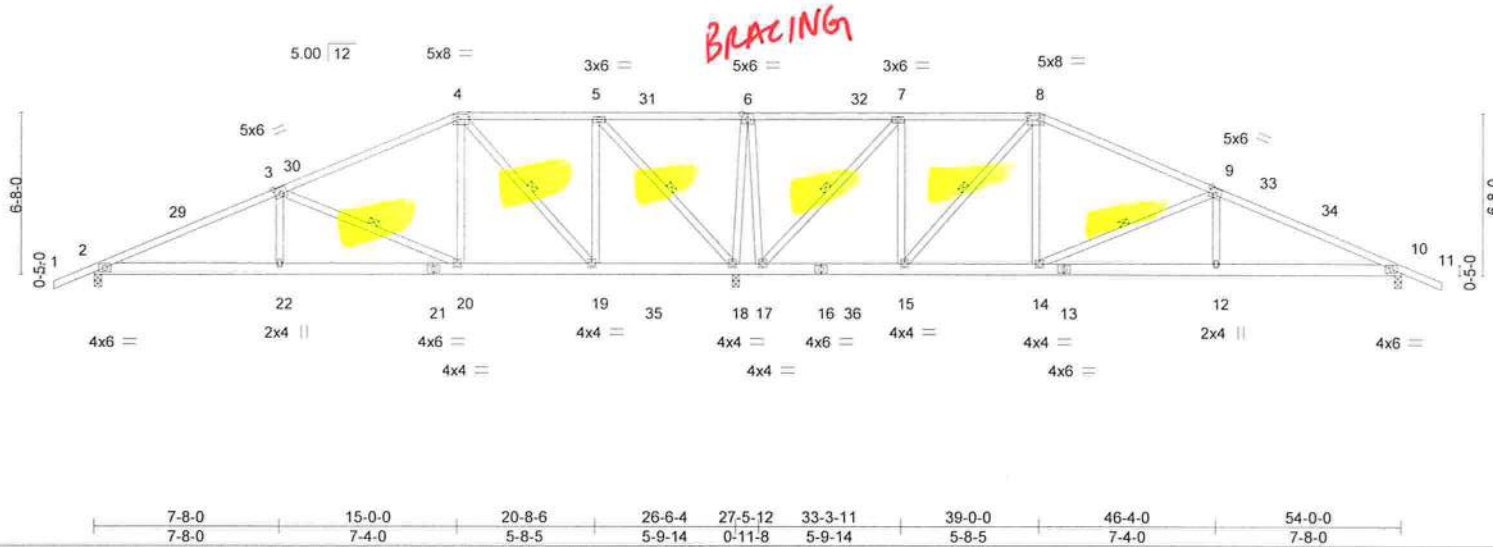


Plate Offsets (X, Y)-- [3:0-3-0,0-3-4], [4:0-5-12,0-2-8], [6:0-3-0,0-3-0], [8:0-5-12,0-2-8], [9:0-3-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	-0.08	12-14	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.14	12-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.04	10	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 348 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 18-19,17-18.
 WEBS 1 Row at midpt 3-20, 4-19, 5-18, 7-17, 8-15, 9-14

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 10=0-3-8
 Max Horz 2=103(LC 12)
 Max Uplift 2=-243(LC 12), 18=-551(LC 8), 10=-264(LC 13)
 Max Grav 2=882(LC 25), 18=2732(LC 2), 10=931(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1470/387, 3-4=-643/223, 5-6=-133/1108, 6-7=-120/960, 8-9=-764/277,
 9-10=-1597/442
 BOT CHORD 2-22=-373/1312, 20-22=-373/1312, 19-20=-112/560, 18-19=-134/252, 17-18=-1023/323,
 14-15=-58/653, 12-14=-320/1428, 10-12=-320/1428
 WEBS 3-22=0/338, 3-20=-856/287, 4-20=-74/576, 4-19=-871/195, 5-19=-103/796,
 5-18=-1451/363, 6-18=-1091/276, 6-17=-154/804, 7-17=-1497/353, 7-15=-95/832,
 8-15=-775/162, 8-14=-70/552, 9-14=-859/287, 9-12=0/340

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=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) -1-8-0 to 3-8-13, Interior(1) 3-8-13 to 15-0-0, Exterior(2R) 15-0-0 to 22-7-10, Interior(1) 22-7-10 to 39-0-0, Exterior(2R) 39-0-0 to 46-7-10, Interior(1) 46-7-10 to 55-8-0 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.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2, 551 lb uplift at joint 18 and 264 lb uplift at joint 10.



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 Date:

December 3, 2021

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6904 Parke East Blvd.
 Tampa, FL 33610

Job 2980314	Truss T06	Truss Type Hip	Qty 2	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141689
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8 430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:48 2021 Page 1

ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-Oi9Er9aK2DzBkGM?AYbNTswyHTjxRTLflsbsptyD5P1

-1-8-0	6-4-14	11-9-10	17-0-0	22-2-13	27-0-0	31-9-3	37-0-0	42-2-6	47-7-2	54-0-0	55-8-0
1-8-0	6-4-14	5-4-12	5-2-6	5-2-13	4-9-3	4-9-3	5-2-13	5-2-6	5-4-12	6-4-14	1-8-0

Scale: 1/8"=1'

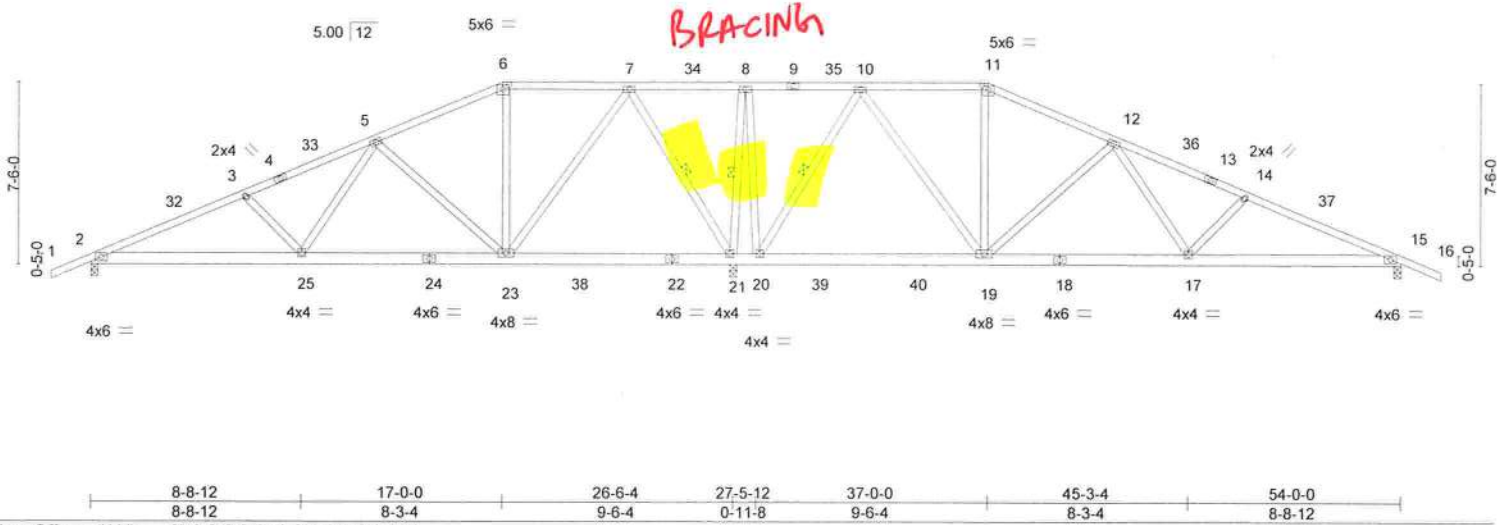


Plate Offsets (X, Y)-- [6:0-3-0,0-2-4], [11:0-3-0,0-2-4]

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 0.48	Vert(LL)	-0.10 19-20	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.17 19-20	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.02 15	n/a	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-MS						
								Weight: 352 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-5 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-21, 8-21, 10-20

REACTIONS. (size) 2=0-3-8, 21=0-3-8, 15=0-3-8
 Max Horz 2=-116(LC 13)
 Max Uplift 2=-233(LC 12), 21=-527(LC 8), 15=-259(LC 13)
 Max Grav 2=843(LC 25), 21=2888(LC 2), 15=895(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1353/377, 3-5=-1181/336, 5-6=-343/164, 6-7=-258/176, 7-8=-136/1176,
 8-10=-122/1027, 10-11=-386/241, 11-12=-475/233, 12-14=-1309/402, 14-15=-1480/443
BOT CHORD 2-25=-385/1222, 23-25=-213/724, 21-23=-501/278, 20-21=-1094/340, 19-20=-357/197,
 17-19=-160/849, 15-17=-330/1340
WEBS 3-25=-308/174, 5-25=-104/620, 5-23=-643/251, 7-23=-212/1093, 7-21=-1312/367,
 8-21=-1186/278, 8-20=-194/982, 10-20=-1301/345, 10-19=-188/1086, 12-19=-630/249,
 12-17=-100/599, 14-17=-309/174

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) -1-8-0 to 3-8-13, Interior(1) 3-8-13 to 17-0-0, Exterior(2R) 17-0-0 to 24-7-10, Interior(1) 24-7-10 to 37-0-0, Exterior(2R) 37-0-0 to 44-7-10, Interior(1) 44-7-10 to 55-8-0 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2, 527 lb uplift at joint 21 and 259 lb uplift at joint 15.



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

December 3, 2021

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

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6904 Parke East Blvd.
 Tampa, FL 36610

Job 2980314	Truss T07	Truss Type Hip	Qty 2	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141690
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,		8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:49 2021 Page 1				
-1-8-0 6-9-0 12-10-6 19-0-0 27-0-0		ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-tujc2UbypX52MQxBkG6c03T0xt3TAsWpXWLQLJyD5P0				
1-8-0 6-9-0 6-1-6 6-1-10 8-0-0		41-1-10 47-3-0 54-0-0 55-8-0				
		8-0-0 6-1-10 6-1-6 6-9-0 1-8-0				

Scale: 1/8"=1'

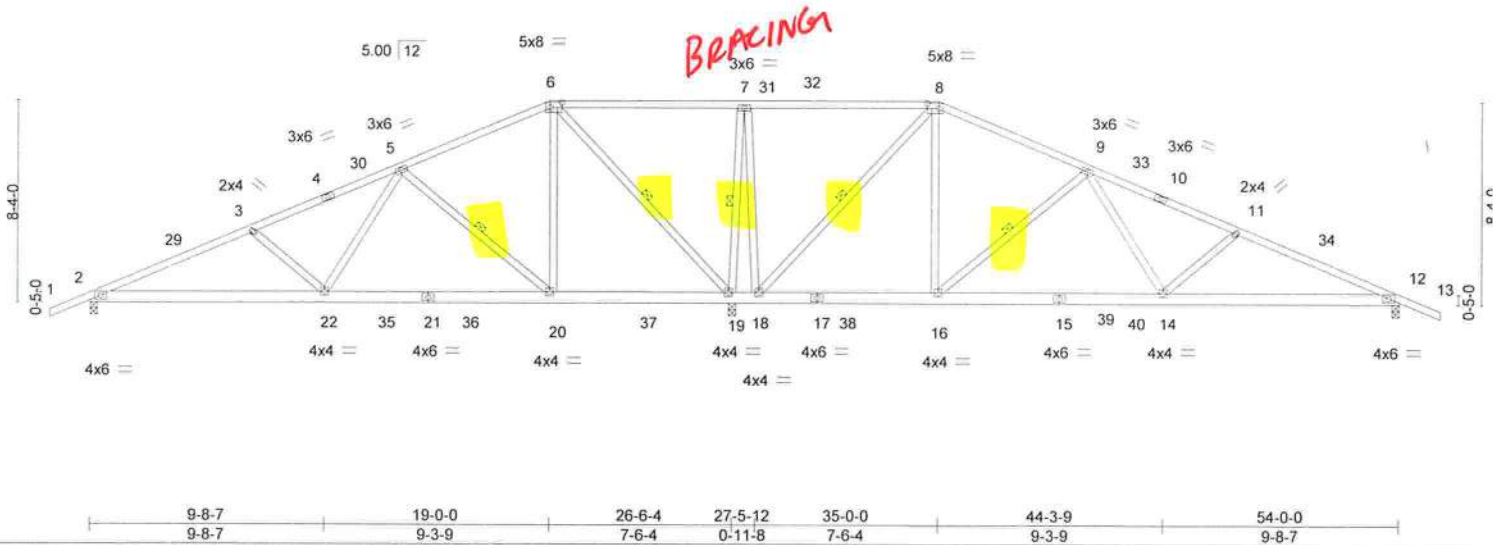


Plate Offsets (X,Y)-- [6:0-5-12,0-2-8], [8:0-5-12,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.93	Vert(LL)	-0.10 14-28	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.19 14-28	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 346 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-20, 6-19, 7-19, 8-18, 9-16

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 12=0-3-8
Max Horz 2=-128(LC 13)
Max Uplift 2=-225(LC 12), 19=-501(LC 8), 12=-252(LC 13)
Max Grav 2=855(LC 25), 19=2941(LC 2), 12=909(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1357/356, 3-5=-1142/291, 6-7=-108/1090, 7-8=-96/966, 8-9=-299/180,
9-11=-1274/361, 11-12=-1489/426
BOT CHORD 2-22=-376/1226, 20-22=-178/646, 19-20=-150/279, 18-19=-1015/328, 14-16=-116/776,
12-14=-312/1347
WEBS 3-22=-353/199, 5-22=-99/714, 5-20=-768/280, 6-20=-121/806, 6-19=-1515/351,
7-19=-1219/301, 7-18=-131/811, 8-18=-1538/329, 8-16=-133/874, 9-16=-756/278,
9-14=-95/694, 11-14=-354/199

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) -1-8-0 to 3-8-13, Interior(1) 3-8-13 to 19-0-0, Exterior(2R) 19-0-0 to 26-7-10, Interior(1) 26-7-10 to 35-0-0, Exterior(2R) 35-0-0 to 42-7-10, Interior(1) 42-7-10 to 55-8-0 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.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2, 501 lb uplift at joint 19 and 252 lb uplift at joint 12.



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Date:

December 3, 2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2980314	Truss T08	Truss Type Hip	Qty 2	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141691
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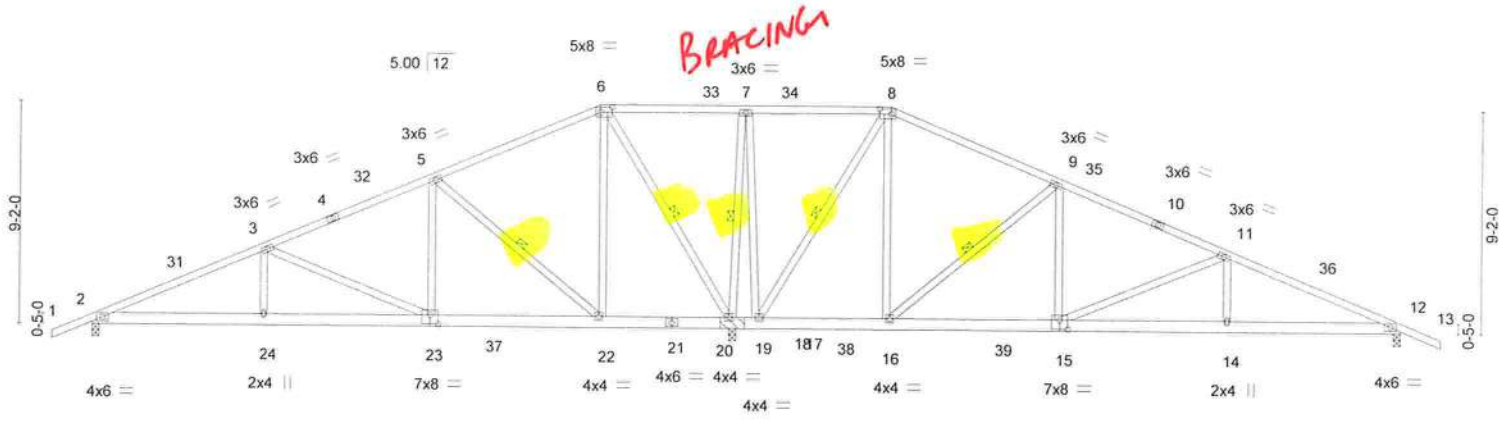
Builders FirstSource (Lake City, FL), Lake City, FL - 32055.

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:51 2021 Page 1

ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-pHrMTAdDL8Lmbj5Zsh845UYRghmNeoe5_qqWQCyD5P_

-1-8-0	7-1-5	14-0-11	21-0-0	27-0-0	33-0-0	39-11-5	46-10-11	54-0-0	55-8-0
1-8-0	7-1-5	6-11-5	6-11-5	6-0-0	6-0-0	6-11-5	6-11-5	7-1-5	1-8-0

Scale: 1/8"=1'



7-1-5	14-0-11	21-0-0	26-6-4	27-5-12	33-0-0	39-11-5	46-10-11	54-0-0
7-1-5	6-11-5	6-11-5	5-6-4	0-11-8	5-6-4	6-11-5	6-11-5	7-1-5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	-0.08 14-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.13 14-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 371 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-5 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-22, 6-19, 7-19, 8-17, 9-16

REACTIONS. (size) 2=0-3-8, 19=(0-3-8 + bearing block) (req. 0-3-9), 12=0-3-8
 Max Horz 2=-141(LC 13)
 Max Uplift 2=-217(LC 12), 19=-488(LC 12), 12=-248(LC 13)
 Max Grav 2=821(LC 25), 19=3005(LC 2), 12=876(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1338/324, 3-5=-633/187, 5-6=-27/460, 6-7=-98/1110, 7-8=-89/1008, 8-9=-62/364, 9-11=-757/267, 11-12=-1481/404
BOT CHORD 2-24=-355/1192, 23-24=-355/1192, 22-23=-132/516, 19-22=-363/310, 17-19=-1051/344, 16-17=-258/205, 15-16=-65/637, 14-15=-288/1323, 12-14=-288/1323
WEBS 3-24=0/300, 3-23=-740/242, 5-23=-53/590, 5-22=-954/305, 6-22=-143/796, 6-19=-1406/338, 7-19=-1060/259, 7-17=-139/766, 8-17=-1490/324, 8-16=-164/913, 9-16=-929/301, 9-15=-49/565, 11-15=-746/243, 11-14=0/304

- NOTES-**
- 2x6 SP No.2 bearing block 12" long at jt. 19 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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) -1-8-0 to 3-8-13, Interior(1) 3-8-13 to 21-0-0, Exterior(2R) 21-0-0 to 28-7-10, Interior(1) 28-7-10 to 33-0-0, Exterior(2R) 33-0-0 to 40-7-10, Interior(1) 40-7-10 to 55-8-0 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.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 2, 488 lb uplift at joint 19 and 248 lb uplift at joint 12.

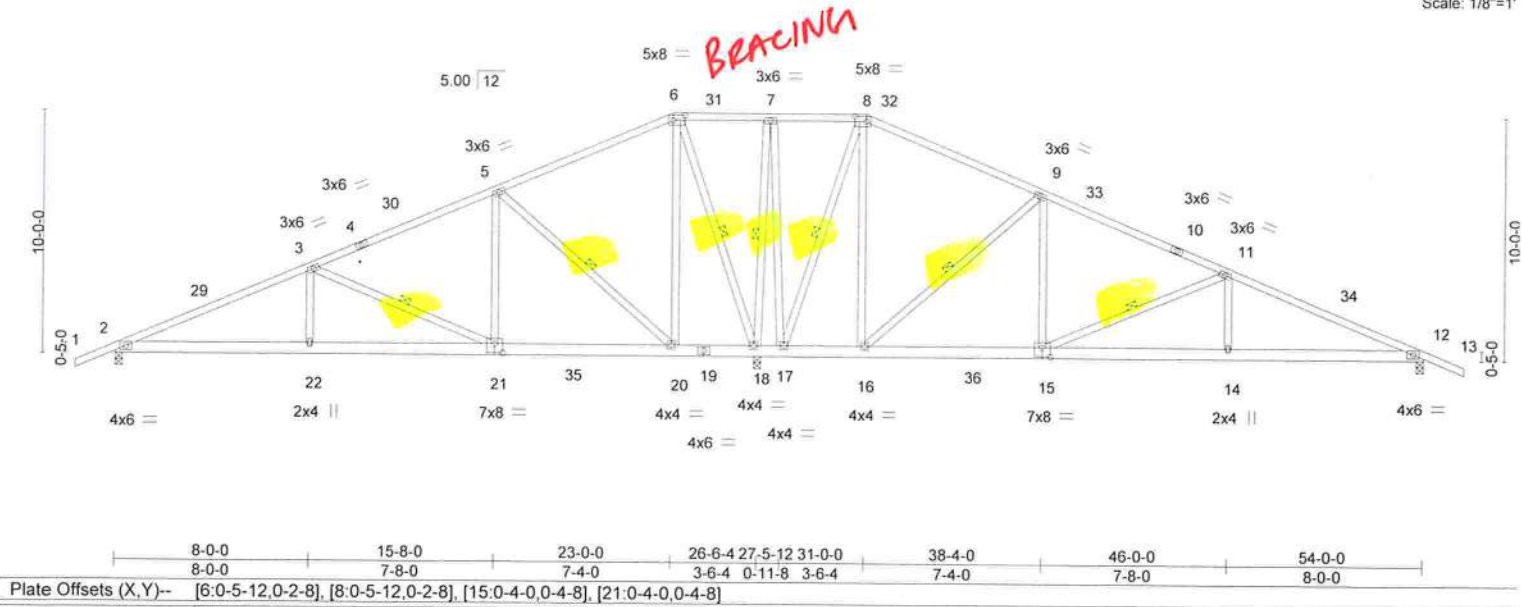


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 Date: December 3, 2021

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Job 2980314	Truss T09	Truss Type Hip	Qty 2	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141692
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,			8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:52 2021 Page 1			
-1-8-0 8-0-0 15-8-0 23-0-0 27-0-0 31-0-0 38-4-0 46-0-0 54-0-0 55-8-0			ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-HTPkhWer5STdDtgmPOfJei5bA45INE8FDUZ4xeyD5Oz			
1-8-0 8-0-0 7-8-0 7-4-0 4-0-0 4-0-0 7-4-0 7-8-0 8-0-0 1-8-0			Scale: 1/8"=1'			



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.47	Vert(LL) -0.09 14-28 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.79	Vert(CT) -0.15 14-28 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 12 n/a n/a		
	Code FBC2020/TPI2014			Weight: 381 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-12 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-21, 5-20, 6-18, 7-18, 8-17, 9-16, 11-15

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 12=0-3-8
 Max Horz 2=-153(LC 13)
 Max Uplift 2=-211(LC 12), 18=-496(LC 12), 12=-245(LC 13)
 Max Grav 2=806(LC 25), 18=2978(LC 2), 12=862(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1244/296, 3-5=-466/185, 5-6=-30/728, 6-7=-79/1054, 7-8=-73/979, 8-9=-73/589, 9-11=-595/227, 11-12=-1387/384
BOT CHORD 2-22=-334/1099, 21-22=-334/1099, 20-21=-152/359, 18-20=-610/340, 17-18=-1012/354, 16-17=-468/254, 15-16=-93/478, 14-15=-263/1230, 12-14=-263/1230
WEBS 3-22=0/344, 3-21=-843/276, 5-21=-62/662, 5-20=-1043/330, 6-20=-155/761, 6-18=-1295/325, 7-18=-834/210, 7-17=-147/660, 8-17=-1490/329, 8-16=-194/970, 9-16=-1024/327, 9-15=-59/642, 11-15=-847/277, 11-14=0/346

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) -1-8-0 to 3-8-13, Interior(1) 3-8-13 to 23-0-0, Exterior(2R) 23-0-0 to 30-7-10, Interior(1) 30-7-10 to 31-0-0, Exterior(2R) 31-0-0 to 38-7-10, Interior(1) 38-7-10 to 55-8-0 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.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2, 496 lb uplift at joint 18 and 245 lb uplift at joint 12.



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 Date: December 3, 2021

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Job 2980314	Truss T10	Truss Type Hip	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141693
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:54 2021 Page 1
 ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-DsWV5Cf5d3jLSBq8Xpinj7A?eum2r6WYgo2B0XyD5Ox
 -1-8-0 6-10-9 12-10-12 18-11-0 24-11-4 27-0-0 29-0-12 35-1-0 41-1-4 47-1-7 54-0-0 55-8-0
 1-8-0 6-10-9 6-0-4 6-0-4 6-0-4 2-0-12 2-0-12 6-0-4 6-0-4 6-0-4 6-0-4 6-10-9 1-8-0

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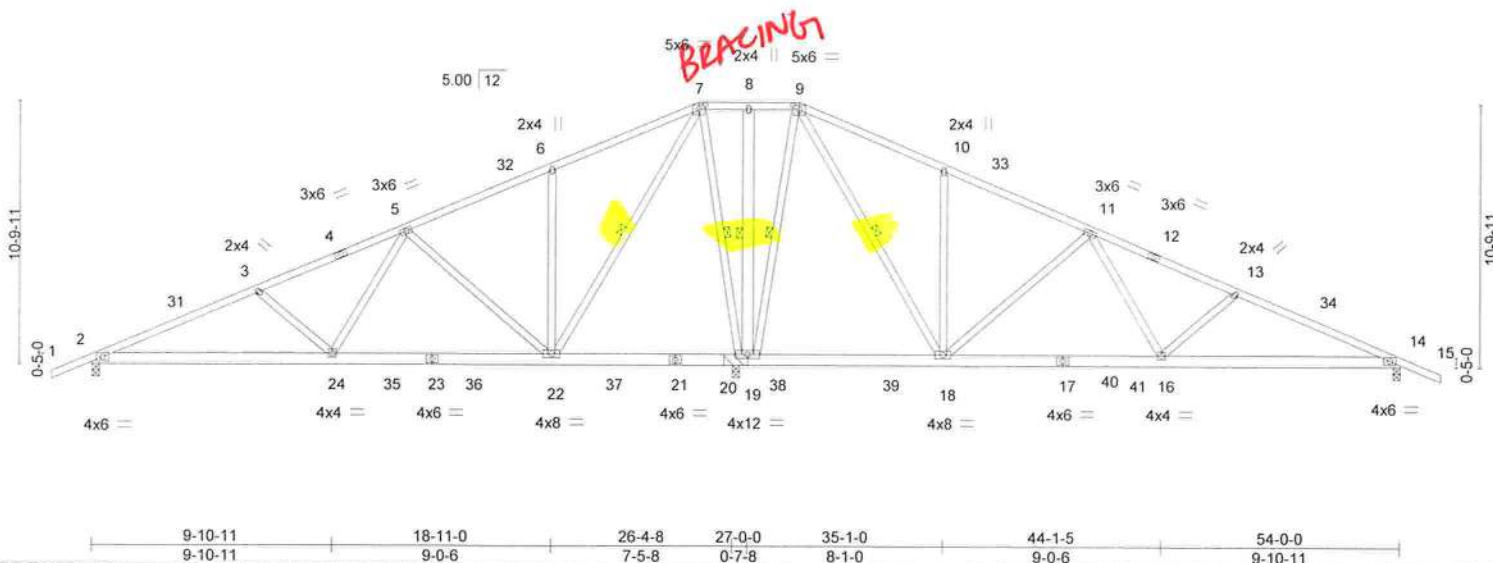


Plate Offsets (X,Y)--	[7:0-3-0,0-2-4], [9:0-3-0,0-2-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.10 24-27	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.19 24-27	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.01 19	n/a	n/a		
BCDL 10.0	Code	FBC2020/TP12014	Matrix-MS						
								Weight: 384 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt
8-19: 2x6 SP No.2	7-22, 7-19, 8-19, 9-19, 9-18

REACTIONS. (size) 2=0-3-8, 19=(0-3-8 + bearing block) (req. 0-3-13), 14=0-3-8
 Max Horz 2=-165(LC 13)
 Max Uplift 2=-205(LC 12), 19=-513(LC 12), 14=-226(LC 13)
 Max Grav 2=792(LC 25), 19=3205(LC 2), 14=790(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1216/303, 3-5=-959/236, 5-6=-89/414, 6-7=-99/411, 7-8=-86/1150, 8-9=-86/1151,
 9-10=-94/433, 10-11=-87/418, 11-13=-953/293, 13-14=-1211/359
 BOT CHORD 2-24=-363/1074, 22-24=-162/544, 19-22=-882/380, 18-19=-888/337, 16-18=-142/540,
 14-16=-250/1070
 WEBS 3-24=-362/203, 5-24=-102/699, 5-22=-741/266, 6-22=-351/207, 7-22=-378/1264,
 7-19=-1370/386, 9-19=-1370/364, 9-18=-378/1262, 10-18=-351/207, 11-18=-741/266,
 11-16=-102/700, 13-16=-362/203

- NOTES-**
- 2x6 SP No.2 bearing block 12" long at jt. 19 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
 - Unbalanced roof live loads have been considered for this design.
 - 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) -1-8-0 to 3-8-13, Interior(1) 3-8-13 to 24-11-4, Exterior(2E) 24-11-4 to 29-0-12, Exterior(2R) 29-0-12 to 36-8-6, Interior(1) 36-8-6 to 55-8-0 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.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 2, 513 lb uplift at joint 19 and 226 lb uplift at joint 14.



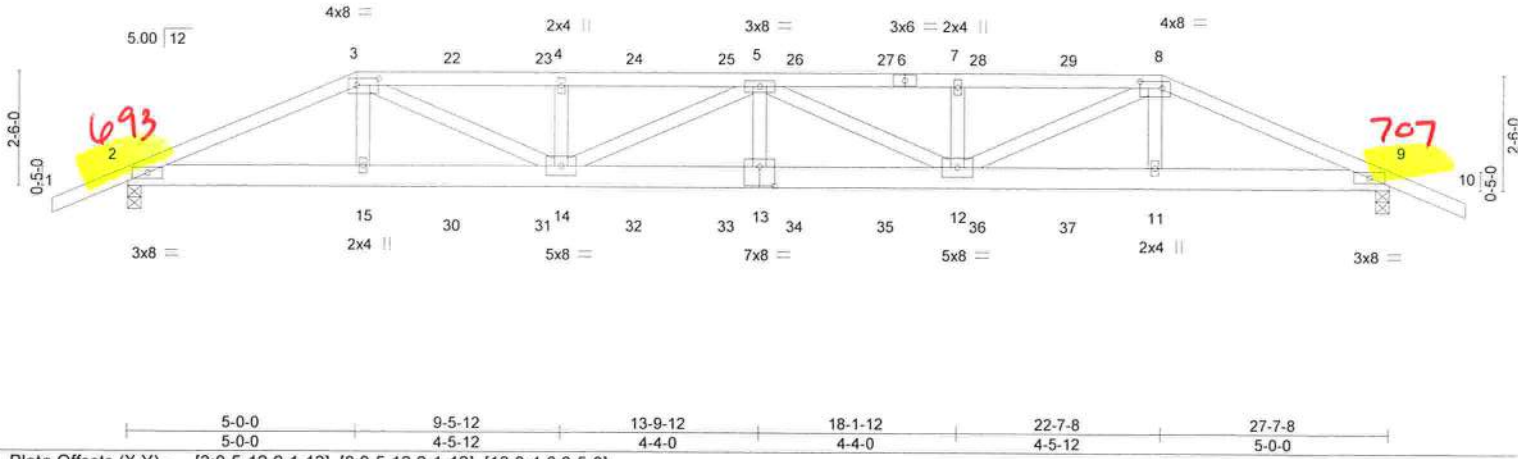
Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

December 3, 2021

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Job 2980314	Truss T11	Truss Type HIP GIRDER	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141694
Builders FirstSource (Lake City, FL), Lake City, FL - 32055.		8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:56 2021 Page 1				
-1-8-0 1-8-0		5-0-0 5-0-0	9-5-12 4-5-12	13-9-12 4-4-0	18-1-12 4-4-0	22-7-8 4-5-12
0-5-0		2-6-0	0-5-0	2-6-0	0-5-0	2-6-0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.99	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.40	Vert(LL) 0.37 13 >903 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.69	Vert(CT) -0.61 13 >547 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.08 9 n/a n/a		
				Weight: 152 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-7-7 oc bracing.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-41(LC 9)
Max Uplift 2=-693(LC 4), 9=-707(LC 5)
Max Grav 2=1684(LC 1), 9=1697(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3631/1482, 3-4=-4924/2048, 4-5=-4924/2048, 5-7=-4939/2065, 7-8=-4939/2065, 8-9=-3663/1520
BOT CHORD 2-15=-1318/3307, 14-15=-1325/3329, 13-14=-2273/5606, 12-13=-2273/5606, 11-12=-1363/3358, 9-11=-1355/3336
WEBS 3-15=-114/401, 3-14=-733/1820, 4-14=-377/202, 5-14=-780/318, 5-13=-73/366, 5-12=-753/300, 7-12=-376/202, 8-12=-714/1793, 8-11=-112/401

- 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; 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 693 lb uplift at joint 2 and 707 lb uplift at joint 9.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 66 lb up at 5-0-0, 58 lb down and 66 lb up at 7-0-12, 58 lb down and 66 lb up at 9-0-12, 58 lb down and 66 lb up at 11-0-12, 58 lb down and 64 lb up at 13-0-12, 58 lb down and 64 lb up at 14-6-12, 58 lb down and 66 lb up at 16-6-12, 58 lb down and 66 lb up at 18-6-12, and 58 lb down and 66 lb up at 20-6-12, and 125 lb down and 119 lb up at 22-7-8 on top chord, and 149 lb down and 85 lb up at 5-0-0, 48 lb down at 7-0-12, 48 lb down at 9-0-12, 48 lb down at 11-0-12, 48 lb down at 13-0-12, 48 lb down at 14-6-12, 48 lb down at 16-6-12, 48 lb down at 18-6-12, and 48 lb down at 20-6-12, and 149 lb down and 85 lb up at 22-6-12 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).

LOAD CASE(S) Standard



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Date: December 3, 2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2980314	Truss T11	Truss Type HIP GIRDER	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141694
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:56 2021 Page 2
 ID:e3c5ZHgxTnWDnSRZn2kIVfyNdDk-9EeFWuHL9hz3hU_XeEkFoYFCKiTuJ4cq86XH4PyD5Ov

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-8=-54, 8-10=-54, 16-19=-20

Concentrated Loads (lb)

Vert: 3=-58(F) 8=-78(F) 15=-136(F) 11=-136(F) 22=-58(F) 23=-58(F) 24=-58(F) 25=-58(F) 26=-58(F) 27=-58(F) 28=-58(F) 29=-58(F) 30=-36(F) 31=-36(F) 32=-36(F) 33=-36(F) 34=-36(F) 35=-36(F) 36=-36(F) 37=-36(F)

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 property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 36610

Job 2980314	Truss T12	Truss Type Hip	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141695
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,		8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:57 2021 Page 1		Job Reference (optional)		
-1-8-0 1-8-0		7-0-0 7-0-0		13-9-12 6-9-12		20-7-8 6-9-12
						27-7-8 7-0-0

Scale = 1:49.1

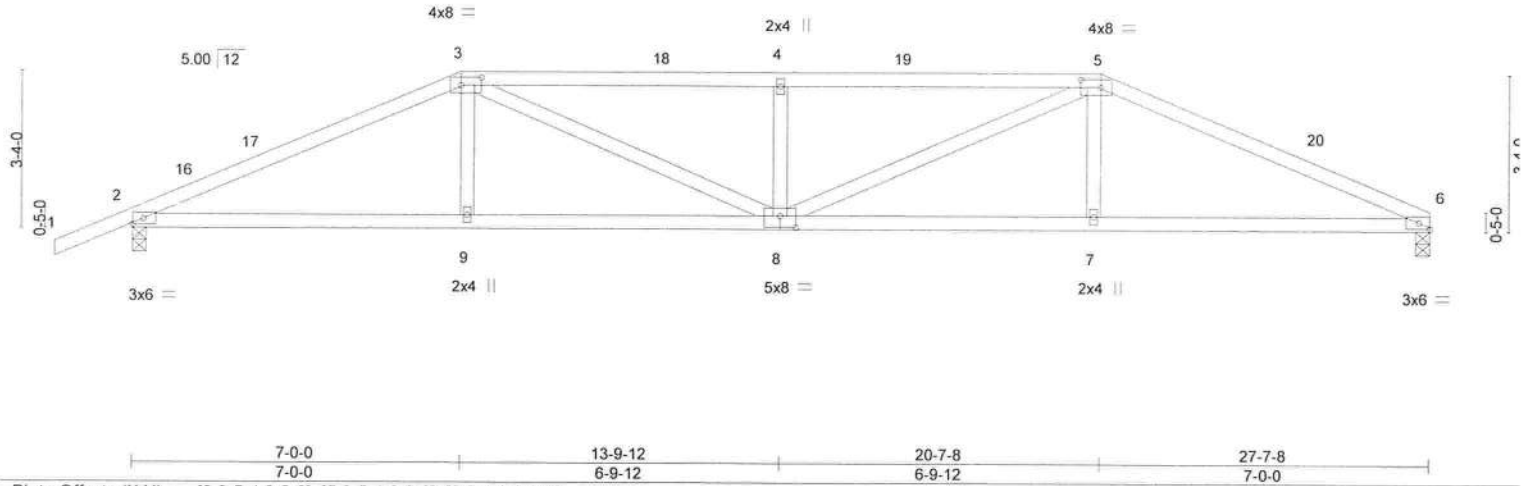


Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [5:0-5-4,0-2-0], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI,	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.68	Vert(LL)	-0.15	8	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.29	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.07	6	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 120 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-7-14 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 6=0-3-8, 2=0-3-8
 Max Horz 2=64(LC 16)
 Max Uplift 6=-222(LC 13), 2=-259(LC 12)
 Max Grav 6=1019(LC 1), 2=1115(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2021/439, 3-4=-2399/606, 4-5=-2399/606, 5-6=-2037/452
 BOT CHORD 2-9=-360/1799, 8-9=-359/1806, 7-8=-365/1823, 6-7=-367/1815
 WEBS 3-9=0/284, 3-8=-200/766, 4-8=-416/200, 5-8=-194/757, 5-7=0/286

- 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) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 7-0-0, Exterior(2R) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 20-7-8, Exterior(2R) 20-7-8 to 24-10-7, Interior(1) 24-10-7 to 27-7-8 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 222 lb uplift at joint 6 and 259 lb uplift at joint 2.



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 Date:

December 3, 2021

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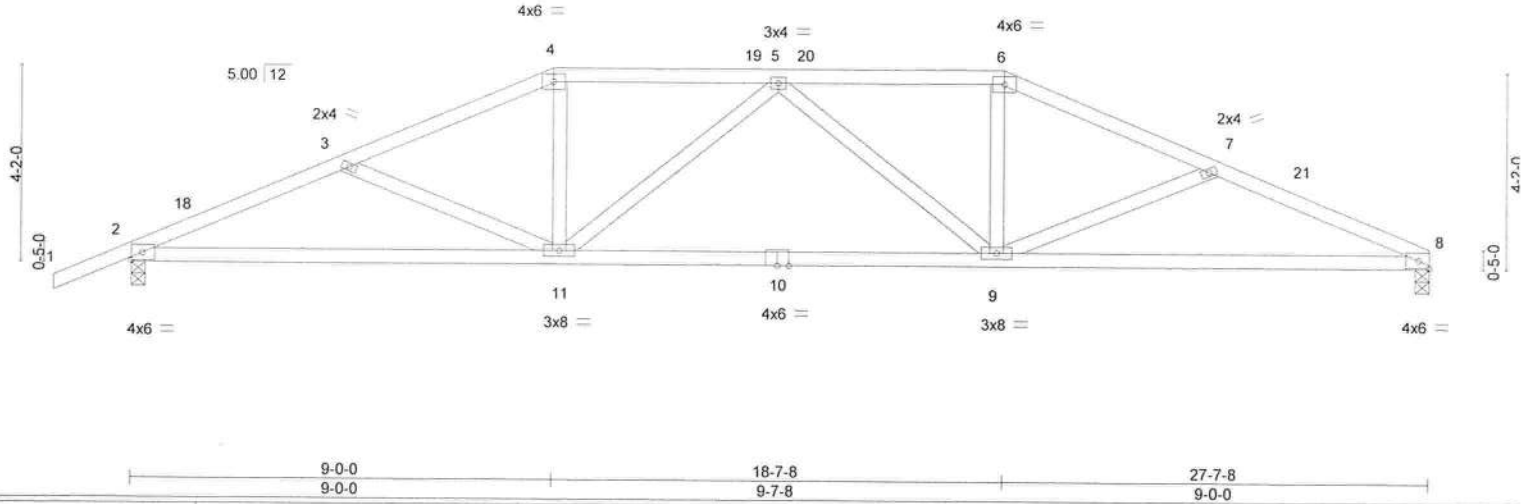
Job 2980314	Truss T13	Truss Type Hip	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141696
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:58 2021 Page 1
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Scale = 1:49.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.15	9-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.86	Vert(CT)	-0.34	9-11	>977	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.08	8	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 130 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-10-3 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=76(LC 16)
Max Uplift 8=-221(LC 13), 2=-257(LC 12)
Max Grav 8=1019(LC 1), 2=1115(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2103/465, 3-4=-1812/378, 4-5=-1644/374, 5-6=-1652/373, 6-7=-1822/382,
7-8=-2128/479
BOT CHORD 2-11=-441/1900, 9-11=-356/1819, 8-9=-400/1928
WEBS 3-11=-302/168, 4-11=-58/459, 5-11=-325/139, 5-9=-318/135, 6-9=-58/461,
7-9=-324/178

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 18-7-8, Exterior(2R) 18-7-8 to 23-2-0, Interior(1) 23-2-0 to 27-7-8 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.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 8 and 257 lb uplift at joint 2.



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Date:

December 3, 2021

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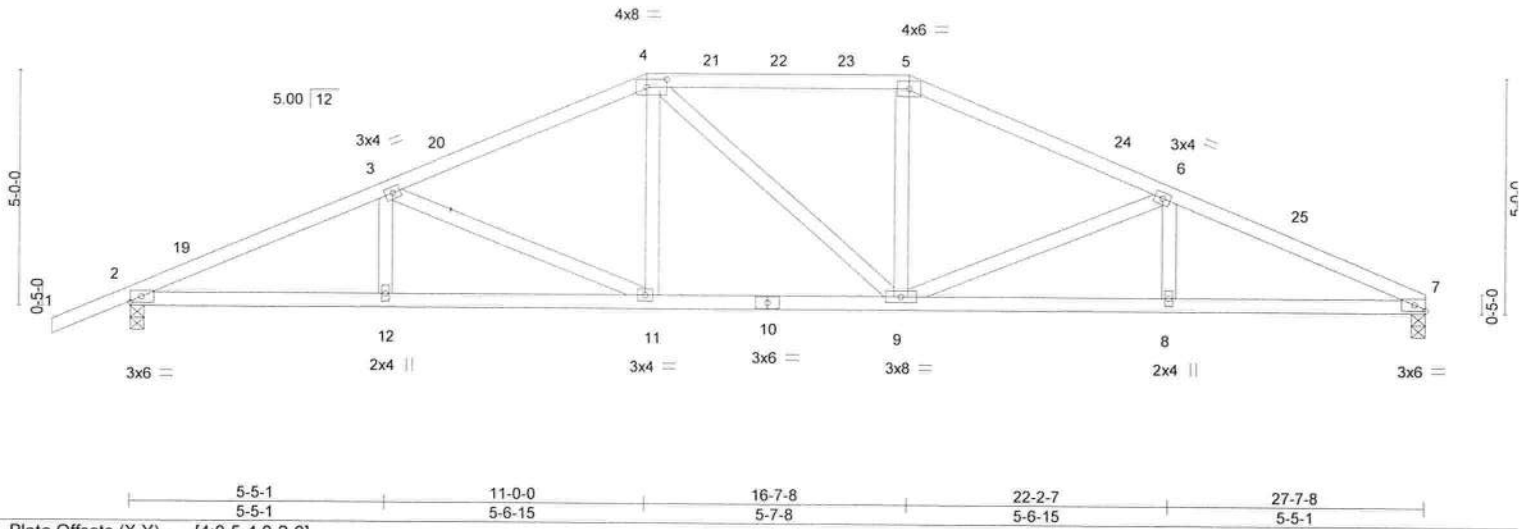
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6904 Parke East Blvd.
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Job 2980314	Truss T14	Truss Type Hip	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141697
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,			8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:57:59 2021 Page 1			
			Job Reference (optional)			
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-1-8-0 1-8-0			5-5-1 5-5-1		11-0-0 5-6-15	
			16-7-8 5-7-8		22-2-7 5-6-15	
					27-7-8 5-5-1	

Scale = 1:49.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.11 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.22 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.08 7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 135 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-1-3 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=89(LC 16)
Max Uplift 7=-219(LC 13), 2=-256(LC 12)
Max Grav 7=1019(LC 1), 2=1115(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2113/435, 3-4=-1632/371, 4-5=-1463/364, 5-6=-1635/369, 6-7=-2139/449
BOT CHORD 2-12=-422/1902, 11-12=-422/1902, 9-11=-247/1460, 8-9=-368/1929, 7-8=-368/1929
WEBS 3-11=-498/191, 4-11=-41/365, 5-9=-39/367, 6-9=-524/204

- 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) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 16-7-8, Exterior(2R) 16-7-8 to 20-10-7, Interior(1) 20-10-7 to 27-7-8 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 219 lb uplift at joint 7 and 256 lb uplift at joint 2.



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Date:

December 3, 2021

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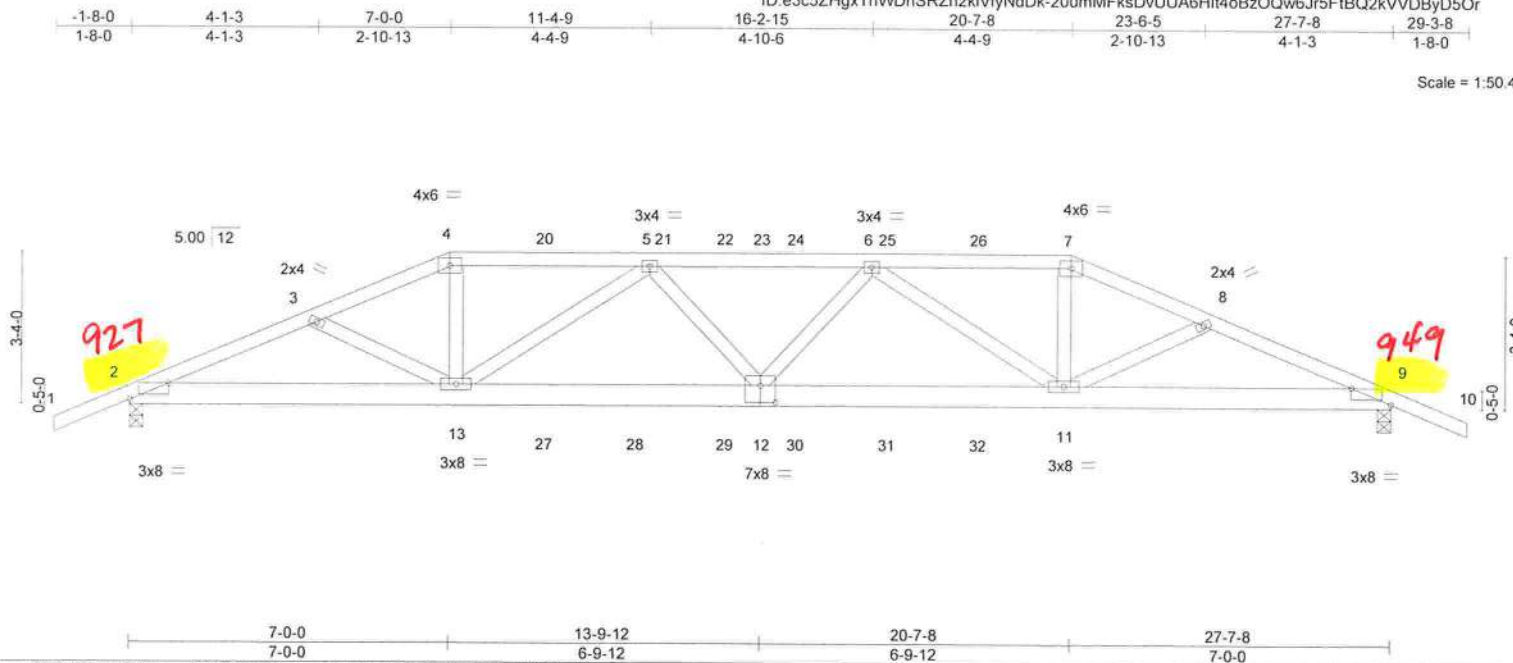
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6904 Parke East Blvd.
Tampa, FL 33610

Job 2980314	Truss T15	Truss Type HIP GIRDER	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141698
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:58:00 2021 Page 1
 ID:e3c5ZHgxTnWDnSRZn2kiVfyNdDk-20umMFksDvUUA6HII4oBzOQw6Jr5FtBQ2kVVDBYD5Or



Scale = 1:50.4

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 0.87	Vert(LL)	0.31 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.48 11-12	>693	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.09 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 156 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP M 26
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 1-10-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-5-6 oc bracing.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=54(LC 31)
 Max Uplift 2=-927(LC 4), 9=-949(LC 5)
 Max Grav 2=2061(LC 1), 9=2099(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4553/2050, 3-4=-4393/2031, 4-5=-4101/1919, 5-6=-5364/2536, 6-7=-4186/1969, 7-8=-4487/2087, 8-9=-4646/2104
 BOT CHORD 2-13=-1850/4161, 12-13=-2370/5188, 11-12=-2387/5218, 9-11=-1895/4246
 WEBS 4-13=-620/1326, 5-13=-1379/647, 5-12=-149/403, 6-12=-120/382, 6-11=-1300/607, 7-11=-595/1285

- 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., GCpj=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 927 lb uplift at joint 2 and 949 lb uplift at joint 9.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 83 lb up at 7-0-0, 109 lb down and 83 lb up at 9-0-12, 109 lb down and 83 lb up at 11-0-12, 109 lb down and 82 lb up at 13-0-0, 109 lb down and 81 lb up at 14-6-12, 109 lb down and 83 lb up at 16-6-12, and 109 lb down and 83 lb up at 18-6-12, and 234 lb down and 165 lb up at 20-7-8 on top chord, and 304 lb down and 202 lb up at 7-0-0, 85 lb down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-0, 85 lb down and 60 lb up at 14-6-12, 85 lb down and 60 lb up at 16-6-12, and 85 lb down and 60 lb up at 18-6-12, and 304 lb down and 202 lb up at 20-6-12 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).

LOAD CASE(S) Standard



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 Date:

December 3, 2021

Continued on page 2

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 property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job 2980314	Truss T15	Truss Type HIP GIRDER	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES. Job Reference (optional)	T26141698
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055.

8 430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:58:00 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 7-10=-54, 14-17=-20

Concentrated Loads (lb)

Vert: 4=-109(B) 7=-187(B) 13=-304(B) 11=-304(B) 20=-109(B) 21=-109(B) 22=-109(B) 24=-109(B) 25=-109(B) 26=-109(B) 27=-63(B) 28=-63(B) 29=-63(B)
30=-63(B) 31=-63(B) 32=-63(B)

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

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6904 Parke East Blvd.
Tampa, FL 38610

Job 2980314	Truss T16	Truss Type HIP	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES. Job Reference (optional)	T26141699
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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:58:01 2021 Page 1

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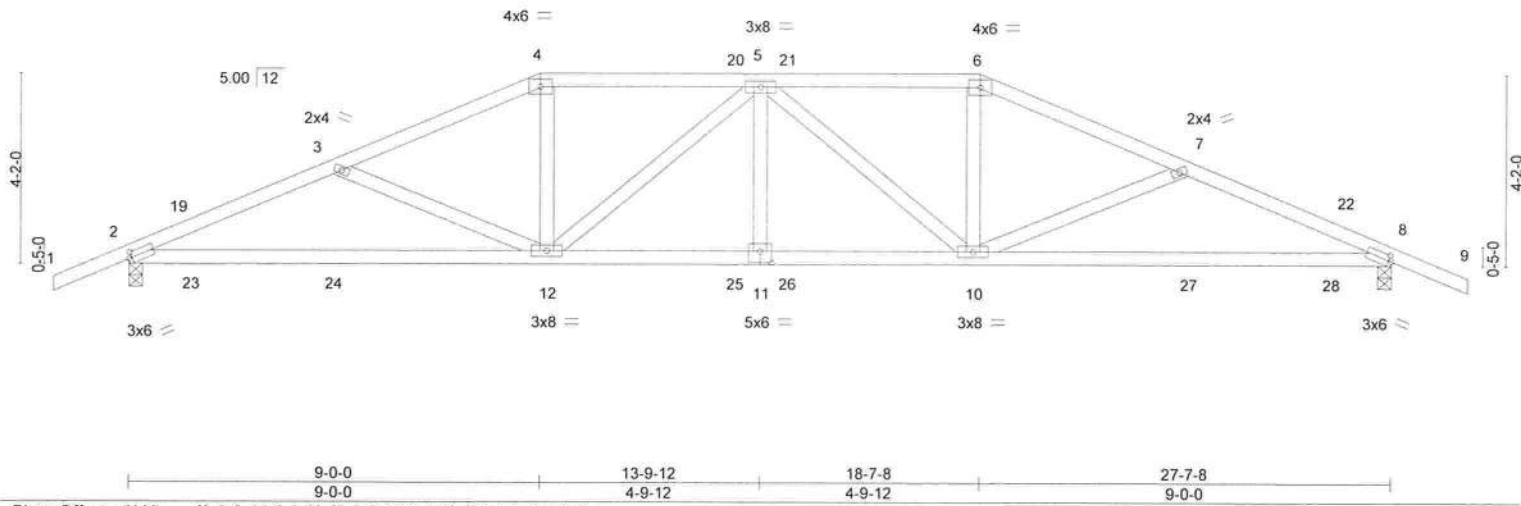


Plate Offsets (X,Y)-- [2:0-0-14,0-1-8], [8:0-0-14,0-1-8], [11:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	0.31 10-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	-0.32 12-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.08 8	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 137 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 3-9-5 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=66(LC 16)
 Max Uplift 2=460(LC 8), 8=460(LC 9)
 Max Grav 2=1112(LC 1), 8=1112(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2091/1806, 3-4=-1794/1661, 4-5=-1627/1573, 5-6=-1627/1573, 6-7=-1794/1661, 7-8=-2091/1805
 BOT CHORD 2-12=-1619/1891, 11-12=-1567/1831, 10-11=-1567/1831, 8-10=-1634/1891
 WEBS 3-12=-310/227, 4-12=-553/453, 5-12=-361/183, 5-10=-361/183, 6-10=-553/453, 7-10=-310/227

- 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) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 18-7-8, Exterior(2R) 18-7-8 to 23-2-0, Interior(1) 23-2-0 to 29-3-8 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) 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 460 lb uplift at joint 2 and 460 lb uplift at joint 8.



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 Date: December 3, 2021

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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 and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

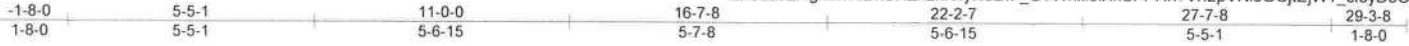


Job 2980314	Truss T17	Truss Type HIP	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141700
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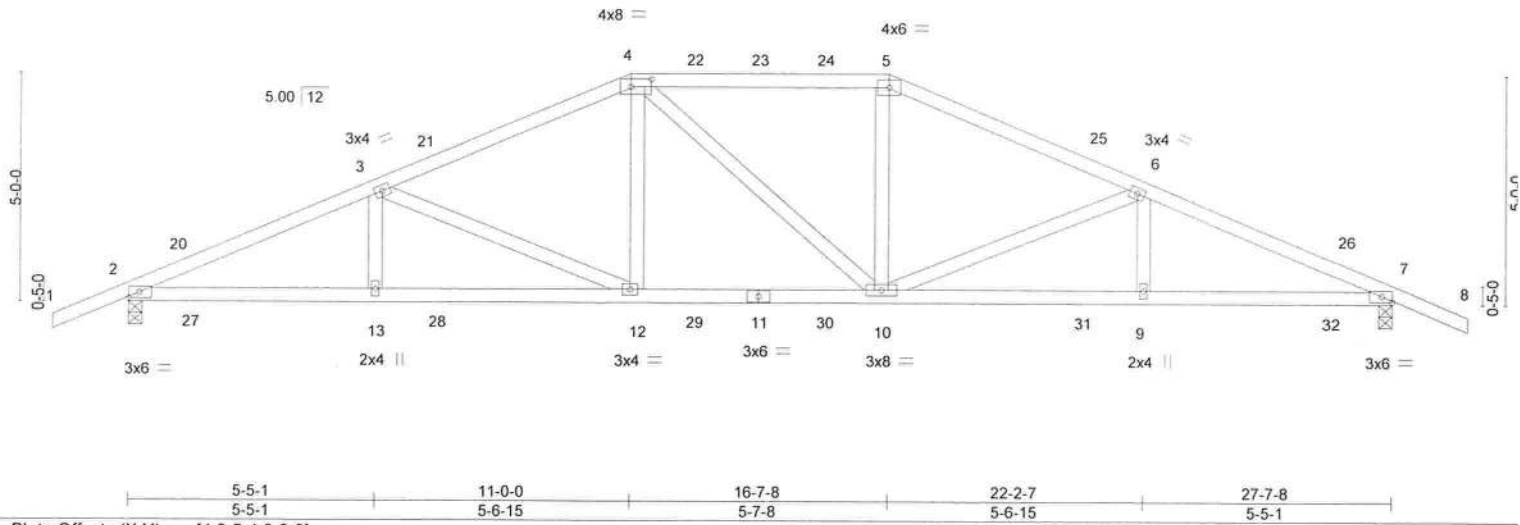
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:58:02 2021 Page 1

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Scale = 1:50.4



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 0.42	Vert(LL)	0.18 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.22 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.08 7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						
								Weight: 137 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-4-7 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=79(LC 12)
 Max Uplift 2=-439(LC 8), 7=-439(LC 9)
 Max Grav 2=1112(LC 1), 7=1112(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2107/1897, 3-4=-1625/1485, 4-5=-1454/1413, 5-6=-1625/1485, 6-7=-2106/1896
 BOT CHORD 2-13=-1679/1896, 12-13=-1679/1896, 10-12=-1247/1453, 9-10=-1695/1896,
 7-9=-1695/1896
 WEBS 3-12=-498/483, 4-12=-458/365, 5-10=-446/366, 6-10=-497/482

- 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) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 16-7-8, Exterior(2R) 16-7-8 to 20-10-7, Interior(1) 20-10-7 to 29-3-8 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) 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 439 lb uplift at joint 2 and 439 lb uplift at joint 7.



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 Date:

December 3, 2021

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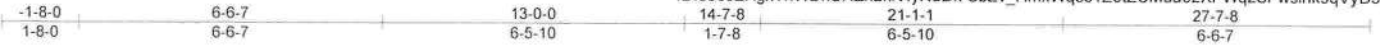


Job 2980314	Truss T18	Truss Type Hip	Qty 1	Ply 1	MIKE TODD CONST. - GERKE RES.	T26141701
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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 05:58:03 2021 Page 1

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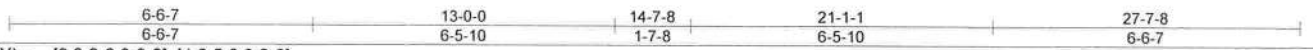
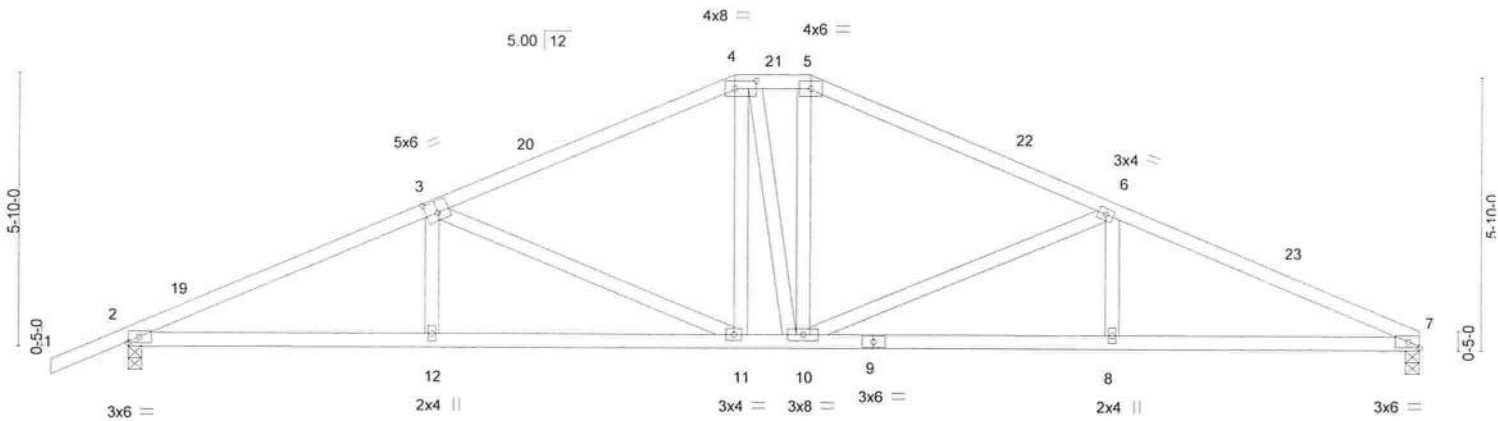


Plate Offsets (X,Y)-- [3,0-3-0,0-3-0], [4,0-5-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.11 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.23 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.08 7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS						

Weight: 140 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-2-7 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 7=0-3-8, 2=0-3-8
 Max Horz 2=101(LC 16)
 Max Uplift 7=-216(LC 13), 2=-253(LC 12)
 Max Grav 7=1019(LC 1), 2=1115(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2075/417, 3-4=-1460/329, 4-5=-1290/331, 5-6=-1463/331, 6-7=-2096/430
 BOT CHORD 2-12=-409/1859, 11-12=-410/1857, 10-11=-194/1287, 8-10=-342/1883, 7-8=-342/1883
 WEBS 3-12=0/266, 3-11=-643/237, 4-11=-69/334, 5-10=-79/347, 6-10=-667/248, 6-8=0/266

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=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) -1-8-0 to 1-4-0, Interior(1) 1-4-0 to 13-0-0, Exterior(2E) 13-0-0 to 14-7-8, Exterior(2R) 14-7-8 to 18-10-7, Interior(1) 18-10-7 to 27-7-8 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.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 7 and 253 lb uplift at joint 2.



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December 3, 2021

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

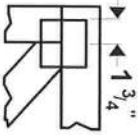
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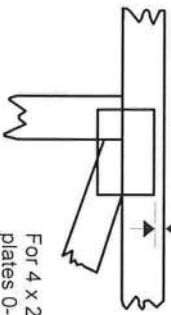
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Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 X 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

PLATE SIZE

4 X 4

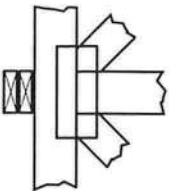
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



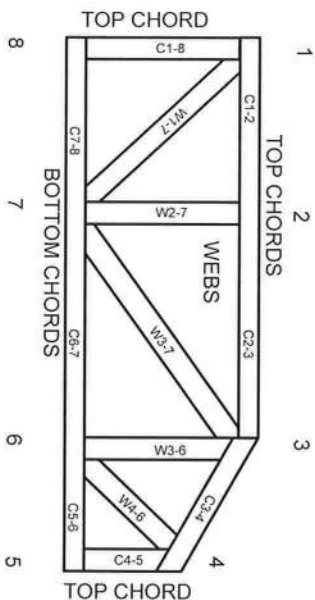
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate
Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor-I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Gamber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.