

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

RE: 3205301 - MURTAGH RES

MiTek USA, Inc.

Site Information:

16023 Swingley Ridge Rd Chesterfield, MO 63017

Customer Info: Cornerstone Dev. Project Name: Murtagh Res. Model: Samuel Gable

Lot/Block: N/A Subdivision: N/A

Address: TBD Old Country Club Rd., TBD

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

Wind Code: ASCE 7-16

Design Program: MiTek 20/20 8.5

Roof Load: 37.0 psf

T27981849

T27981850

T27981853 T27981855

Wind Speed: 130 mph Floor Load: N/A psf

This package includes 32 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	T27981835	CJ01	6/14/22	23	T27981857	T12	6/14/22
2	T27981836	CJ02	6/14/22	24	T27981858	T13	6/14/22
2 3 4 5 6	T27981837	CJ03	6/14/22	25	T27981859	T14	6/14/22
4	T27981838	CJ04	6/14/22	26	T27981860	T15	6/14/22
5	T27981839	CJ05	6/14/22	27	T27981861	T16	6/14/22
6	T27981840	CJ06	6/14/22	28	T27981862	T17	6/14/22
1	T27981841	EJ01	6/14/22	29	T27981863	T18	6/14/22
8	T27981842	EJ02	6/14/22	30	T27981864	T19	6/14/22
	T27981843	HJ01	6/14/22	31	T27981865	T20	6/14/22
10	T27981844	HJ02	6/14/22	32	T27981866	T21	6/14/22
11	T27981845	T02	6/14/22				
12	T27981846	T02G	6/14/22				
10 11 12 13 14	T27981847	T03	6/14/22				
/ 14	T27981848	T04	6/14/22				



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

T06

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.



MURTAGH RES Job Truss Truss Type Qty T27981835 3205301 CJ01 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:34 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-uRTwRZeZxe9aSfovHnv91JzbLc7dc7Qw3?fj5Qz6n47 2-0-0 1-0-0 1-0-0 Scale = 1:9.5 6.00 12 2 0-11-4 0-5-4 4 Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 3x4 = 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date: 1-0-0 Plate Offsets (X,Y)-- [2:Edge,0-1-8]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDI	10.0	Code FRC2020/T	PI2014	Matri	v-MP	212030	2000		100,000	100000	Weight: 7 lb	FT = 20%

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=45(LC 12)

Max Uplift 3=-28(LC 1), 2=-95(LC 12), 4=-45(LC 1)

Max Grav 3=14(LC 8), 2=254(LC 1), 4=27(LC 16)

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

### NOTES-

- 1) Wind: ASCÉ 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3, 95 lb uplift at joint 2 and 45 lb uplift at joint 4.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Job Truss Truss Type MURTAGH RES Qty Ply T27981836 3205301 CJ02 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:35 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-Md1levfBhyHR4pN5rUQOZWWI50TqLag4lfPGdtz6n46 Lake City, FL - 32055. 2-0-0 Scale = 1:14.6 6.00 12 1-11-4 0-5-4 4 3x4 = 3-0-0 LOADING (psf) SPACING-2-0-0 CSI DEFL. in I/defl L/d **PLATES** GRIP Plate Grip DOL TCLL 20.0 1.25 TC 0.25 Vert(LL) -0.00 4-7 >999 240 MT20 244/190

Vert(CT)

Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

-0.01

0.00

4-7

3

>999

n/a

180

n/a

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

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

LUMBER-

REACTIONS.

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

7.0

0.0

10.0

BOT CHORD 2x4 SP No.2

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

Code FBC2020/TPI2014

Max Horz 2=78(LC 12)

Max Uplift 3=-32(LC 12), 2=-71(LC 12)

Lumber DOL

Rep Stress Incr

Max Grav 3=53(LC 1), 2=253(LC 1), 4=48(LC 3)

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

### NOTES- (7

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

BC

WB 0.00

Matrix-MP

0.07

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

1.25

YES

- 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 and 71 lb uplift at joint 2.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Weight: 13 lb

FT = 20%

June 14,2022

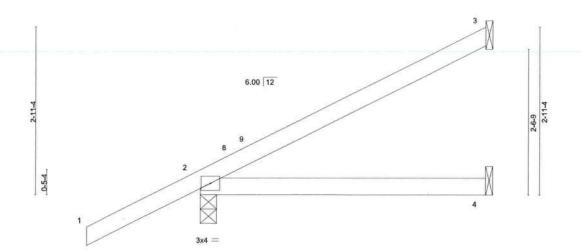
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

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



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES	
3205301	CJ03	Jack-Open	2	1	T2798183	7
					Job Reference (optional)	
Builders FirstSour	rce (Lake City,FL), Lake	City, FL - 32055,		8.530 s De	c 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:36 2022 Page 1	
			ID:0yrXDNjn	chKUZiS4sq	5QxWyyQw7-rqbgrEfpSGPliyyIPCxd6k2vYQnU41wDXJ8qAJz6n45	
	1	-2-0-0	5-0-0			
		2-0-0	5-0-0			



		5-0-0												
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.02	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	(000.000000)			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a				
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 19 lb	FT = 20%		

LUMBER-

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

5-0-0

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=111(LC 12)

Max Uplift 3=-63(LC 12), 2=-75(LC 12)

Max Grav 3=109(LC 1), 2=313(LC 1), 4=87(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3 and 75 lb uplift at
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Scale = 1:19.5

June 14,2022



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



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES	
3205301	CJ04	Jack-Open	2	1	T27981	38
					Job Reference (optional)	
Builders FirstSou	rce (Lake City,FL), Lake	City, FL - 32055,		8.530 s Dec	c 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:37 2022 Page 1	
			ID:0yrXDNjrxhl	KUZiS4sq50	QxWyyQw7-J0923agRDZX9J6XUyvTsexb5aqAqpU9NmzuNilz6n44	
		-2-0-0		1-0	-0	
		2-0-0		1-0	-0	

Scale = 1:9.5 6.00 12 2 0-11-4 6-9-0 0-5-4 0-2-13

3x4

4.00 12

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	7	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	7	>999	180	1.500.00000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 7 lb	FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 1-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

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

Max Horz 2=45(LC 12)

Max Uplift 3=-73(LC 1), 2=-91(LC 12)

Max Grav 3=37(LC 16), 2=254(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4,2psf; BCDL=3,0psf; h=18ft; Cat, II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 3 and 91 lb uplift at
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code,



June 14,2022



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

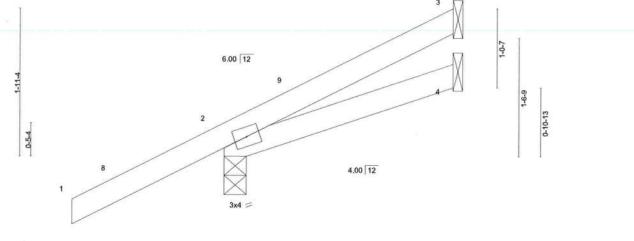
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and 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/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES
3205301	CJ05	Jack-Open	2	1	T27981839
The state of the s				4	Job Reference (optional)
Builders FirstSou	rce (Lake City,FL),	Lake City, FL - 32055,		8.530 s Dec	c 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:38 2022 Page 1
			ID:0yrXDNjrxhKU2	ZiS4sq5QxV	NyyQw7-nCjRGwh3_tf0xG6gWd_5B98GKDVUYxPW_ddxEBz6n43
		-2-0-0	3-0	0-0	
		2-0-0	3-0	0-0	

Scale = 1:14.6



LOADIN		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	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/T	PI2014	Matri	x-MP						Weight: 13 lb	FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 3-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

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

Max Horz 2=78(LC 12)

Max Uplift 3=-31(LC 12), 2=-69(LC 12)

Max Grav 3=51(LC 1), 2=253(LC 1), 4=47(LC 3)

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

### NOTES- (8)

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
  to the use of this truss component.
- 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3 and 69 lb uplift at joint 2.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



June 14,2022

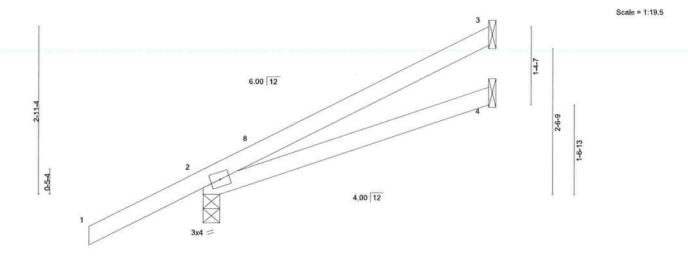


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev, 5/19/2020 BEFORE USE.

Design valid for use only with MTEARS 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 ANS/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	Truss	Truss Type	Qty	Ply	MURTAGH RES	
3205301	CJ06	Jack-Open	2	1		Γ27981840
Builders FirstSour	rce (Lake City,FL), L	ske City, FL - 32055,			Job Reference (optional) 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:38 2022	
	1	-2-0-0	5-0-0	ZIS4sqSQXI	VyyQw7-nCjRGwh3_tf0xG6gWd_5B98GADT3YxPW_ddxEB	SZBN43
	-	2-0-0	5-0-0			



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	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	222 BANGO - C.	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	ANIHOU DATA OLUM					Weight: 20 lb	FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 5-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

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

Max Horz 2=111(LC 12)

Max Uplift 3=-63(LC 12), 2=-73(LC 12)

Max Grav 3=108(LC 1), 2=313(LC 1), 4=86(LC 3)

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

### NOTES- (8)

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
  to the use of this truss component.
- 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3 and 73 lb uplift at joint 2.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.







MURTAGH RES Job Truss Type Qty Truss Ply T27981841 3205301 EJ01 Jack-Partial 16 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:39 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-FPGpUGiilBntZQht4KVKkMgLMdlqHOffDHNUmez6n42 7-0-0 7-0-0 2-0-0 Scale: 1/2"=1"

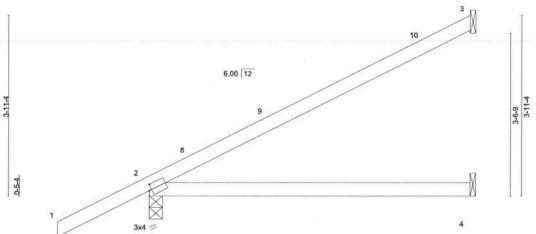


Plate Offsets (X,Y)-- [2:0-0-12,0-1-8]

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. in (loc) l/defi L/d Plate Grip DOL 20.0 244/190 TCLL 1.25 TC 0.61 Vert(LL) -0.09 4-7 >876 240 MT20 BC TCDL 70 Lumber DOL 1.25 0.51 Vert(CT) -0.214-7 >389 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-MP Weight: 26 lb FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No 2

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

Max Horz 2=140(LC 12)

Max Uplift 3=-82(LC 12), 2=-84(LC 12)

Max Grav 3=161(LC 1), 2=380(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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 3 and 84 lb uplift at
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

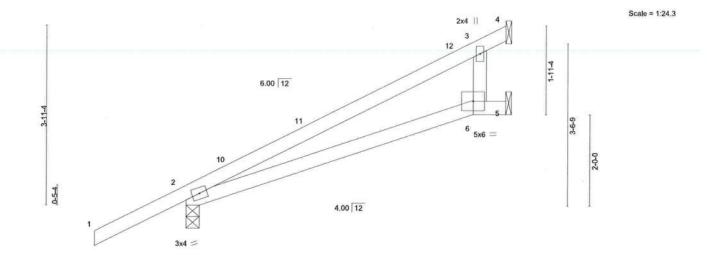


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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







				6-3-8 0-8						0-8-8			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.11	6-9	>741	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1,25	BC	0.44	Vert(CT)	-0.19	6-9	>427	180	ALCOHOLD .	AND MARKET	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.02	5	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 28 lb	FT = 20%	

6-3-8

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.

7-0-0

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=140(LC 12)

Max Uplift 4=-82(LC 12), 2=-82(LC 12)

Max Grav 4=235(LC 1), 2=380(LC 1), 5=13(LC 3)

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

2-0-0

### NOTES- (8)

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 4 and 82 lb uplift at joint 2.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



June 14,2022



WARNING - Verily design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-7473 rev, 5/19/2020 BEFORE USE

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



Job Truss Type MURTAGH RES Truss Qty Ply T27981843 3205301 **HJ01** Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:41 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-BnOZvyjyHo1bokrFBlXopnmhzROhlDiyhbsbrWz6n40 -2-9-15 2-9-15 9-10-13 4-6-0 Scale: 1/2"=1" 944 12 4.24 12 3x4 = 3 0-5-0 14 15 6 7 2x4 || 4x4 3x4

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

7.0

0.0

10.0

BRACING-TOP CHORD BOT CHORD

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

in

-0.06

-0.13

-0.01

(loc)

6-7

6-7

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

**PLATES** 

Weight: 45 lb

MT20

GRIP

244/190

FT = 20%

9-10-13

L/d

240

180

n/a

I/defi

>999

>925

n/a

REACTIONS. (size) 4=Mechanical, 2=0-4-15, 5=Mechanical Max Horz 2=156(LC 22)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

Max Uplift 4=-76(LC 4), 2=-177(LC 4), 5=-45(LC 8) Max Grav 4=152(LC 1), 2=465(LC 1), 5=267(LC 3)

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

TOP CHORD 2-3=-654/153

**BOT CHORD** 2-7=-188/564, 6-7=-188/564

WEBS 3-6=-594/198

### NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

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

4-6-0

0.60

0.61

0.35

CSL

TC

BC

WB

Matrix-MS

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

2-0-0

1.25

1.25

NO

- \* 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, 177 lb uplift at joint 2 and 45 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 104 lb up at 1-5-12, 54 lb down and 104 lb up at 1-5-12, 60 lb down and 34 lb up at 4-3-11, 60 lb down and 34 lb up at 4-3-11, and 41 lb down and 74 lb up at 7-1-10, and 41 lb down and 74 lb up at 7-1-10 on top chord, and 18 lb down and 73 lb up at 1-5-12, 18 lb down and 73 lb up at 1-5-12, 24 lb down and 3 lb up at 4-3-11, 24 lb down and 3 lb up at 4-3-11, and 42 lb down at 7-1-10, and 42 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

### LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 7=6(F=3, B=3) 11=51(F=25, B=25) 12=-65(F=-33, B=-33) 14=68(F=34, B=34) 15=-47(F=-24, B=-24)



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

June 14,2022



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 MITE&O 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 individual 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent occliapse 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/PII Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Ply MURTAGH RES Job Truss Type Qty Truss T27981844 3205301 HJ02 Diagonal Hip Girder Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:43 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-7AWKJelCpPHJ11?eJAaGuCr\_9E1WD5kF8vLiwPz6n4\_ Builders FirstSource (Lake City,FL), Lake City, FL - 32055 9-3-1,9-10-13 0-4-4 0-7-12 8-10-12

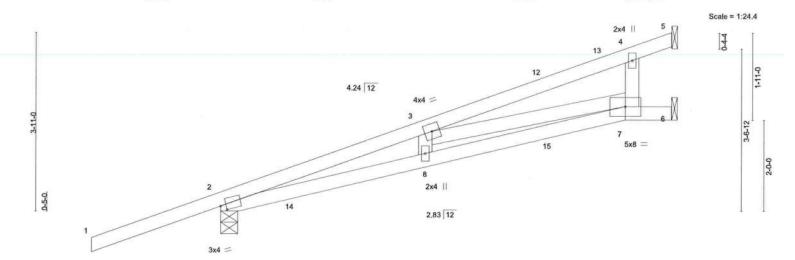


Plate Offs	sets (X,Y)	[2:0-1-7,0-1-5]	1	4-6	i-0				4-4-12	2	1-0-0	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.13	7-8	>913	240	MT20	244/190
TCDL	7.0	Lumber DOL	1,25	BC	0.78	Vert(CT)	-0.25	7-8	>468	180	1 GA-OMPOTCI	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	x-MS	5.00 (F.00) (F.00) (F.00)					Weight: 44 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

8-10-12

4-6-0

LUMBER-

WEBS

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

2x4 SP No.3

REACTIONS.

(size) 5=Mechanical, 2=0-4-9, 6=Mechanical

Max Horz 2=156(LC 4)

Max Uplift 5=-62(LC 8), 2=-221(LC 4), 6=-66(LC 8) Max Grav 5=275(LC 1), 2=500(LC 1), 6=135(LC 1)

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

TOP CHORD

2-3=-1289/405

**BOT CHORD** 2-8=-465/1205, 7-8=-469/1225

WEBS

3-7=-1170/458

### NOTES-(10)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 5, 221 lb uplift at joint 2 and 66 lb uplift at joint 6.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 33 lb up at 4-3-11, 60 lb down and 33 lb up at 4-3-11, and 41 lb down and 74 lb up at 7-1-10, and 41 lb down and 74 lb up at 7-1-10 on top chord, and 30 lb down and 101 lb up at 1-5-12, 30 lb down and 101 lb up at 1-5-12, 23 lb down and 2 lb up at 4-3-11, 23 lb down and 2 lb up at 4-3-11, and 41 lb down at 7-1-10, and 41 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

### LOAD CASE(S) Standard

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



9-10-13

Structural wood sheathing directly applied or 4-9-10 oc purlins.

Rigid ceiling directly applied or 8-6-0 oc bracing.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 14,2022

rs 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and 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 buckling of individual truss web and bracing of trusses and truss systems, see ANSI/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES
3205301	HJ02	Diagonal Hip Girder	1		T27981844
020001	11002	Diagonal Tip Giraei		1	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:43 2022 Page 2 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-7AWKJelCpPHJ11?eJAaGuCr\_9E1WD5kF8vLiwPz6n4\_

### LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-5=-54, 7-9=-20, 6-7=-20

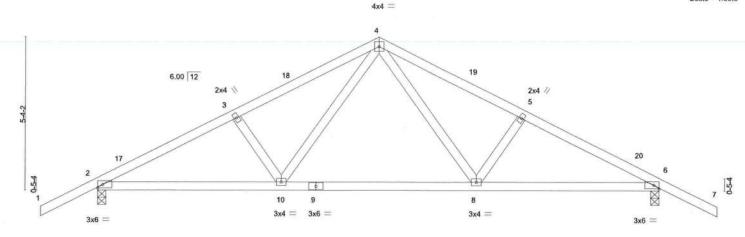
Concentrated Loads (lb)

Vert: 8=4(F=2, B=2) 12=-63(F=-32, B=-32) 14=79(F=40, B=40) 15=-49(F=-25, B=-25)



Job	Truss Type			Qty	Ply	MURTAGH RES	707004045
3205301	í	T02	Common	3	1		T27981845
Builder	rs FirstSource (Lake	City EL) Lake City	FL - 32055.			Job Reference (optional) c 6 2021 MiTek Industries, Inc. Mon Jun 13	00:20:44 0022 D 4
Dunder	s riistsource (Lak			ID:0yrXDNjrxh		0xWyyQw7-cM4iX_mqajP9fBZqtt5VQQOF6e	
	-2-0-0	4-9-15	9-9-12		14-9-9	19-7-8	21-7-8
1	2-0-0	4-9-15	4-11-13		4-11-13	4-9-15	2-0-0

Scale = 1:38.8



6-4-12 6-4-12				13-2-12 6-10-0					-			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.18	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.35	8-10	>665	180	2002000000	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.04	6	n/a	n/a	1.1	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	C. CESCOVERA CO. C. P.					Weight: 94 lb	FT = 20%

LUMBER-

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

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=85(LC 16)

Max Uplift 2=-236(LC 12), 6=-236(LC 13) Max Grav 2=1039(LC 1), 6=1039(LC 1)

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

TOP CHORD 2-3=-1688/472, 3-4=-1558/475, 4-5=-1558/475, 5-6=-1688/472

BOT CHORD 2-10=-325/1452, 8-10=-167/980, 6-8=-344/1452

WEBS 4-8=-181/653, 4-10=-182/653

### 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-9-12, Exterior(2R) 9-9-12 to 12-9-12, Interior(1) 12-9-12 to 21-7-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 2 and 236 lb uplift at ioint 6.

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

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

### LOAD CASE(S) Standard

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

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

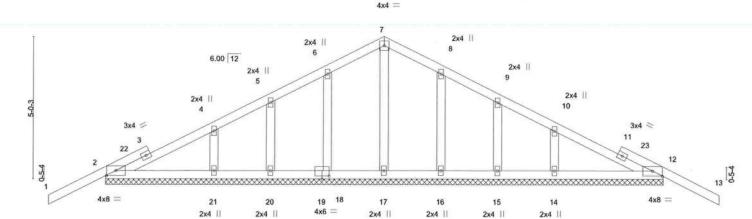






Job	Truss	Truss Type	Qty	Ply	MURTAGH RES	
3205301	T02G	Common Supported Gable	1	1		T27981846
		17/15			Job Reference (optional)	
Builders FirstSour	rce (Lake City,FL), Lake	City, FL - 32055,		8.530 s Dec	6 2021 MiTek Industries, Inc. Mon Ju	un 13 06:39:45 2022 Page 1
			ID:0yrXDNjrxhK	(UZiS4sq5Q)	xWyyQw7-4Ye4kJmSL1X0HL80Qbckz	dwTm2unh6PYbDqozlz6n3y
	-0-0	9-9-12			19-7-8	21-7-8
2-	-0-0	9-9-12	1.5		9-9-12	2-0-0

Scale = 1:39.1



19-7-8 19-7-8 [2:0-4-0,0-2-1], [12:0-4-0,0-2-1], [19:0-3-0,0-1-4] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** GRIP in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.25 -0.01 TC 0.23 Vert(LL) 13 n/r 120 MT20 244/190 TCDL 7.0 1.25 BC 0.09 Vert(CT) -0.02 Lumber DOL 13 n/r 120 BCLL WB 0.0 Rep Stress Incr YES 0.05 Horz(CT) 0.00 12 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-S Weight: 101 lb FT = 20%

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

2x4 SP No.2 2x4 SP No.3 BRACING-

TOP CHORD BOT CHORD

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

REACTIONS. All bearings 19-7-8.

(lb) - Max Horz 2=-81(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 20, 21, 16, 15, 14

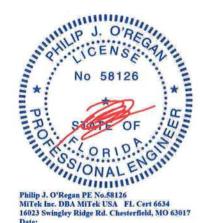
Max Grav All reactions 250 lb or less at joint(s) 17, 18, 20, 21, 16, 15, 14 except 2=258(LC 23), 12=258(LC

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

### (10)

**OTHERS** 

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 9-9-12, Corner(3R) 9-9-12 to 12-9-12, Exterior(2N) 12-9-12 to 21-7-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 20, 21, 16, 15, 14.
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

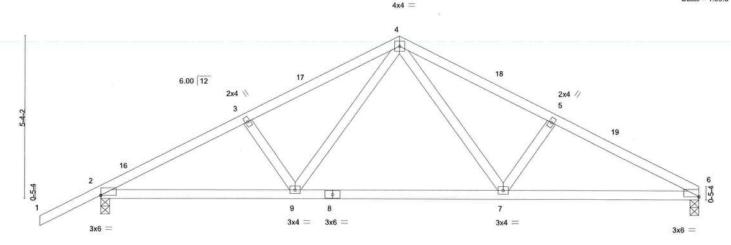






Job Truss Truss Type Qty MURTAGH RES T27981847 3205301 T03 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:46 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-YICSyfn56KgtuVjD\_I7zWrTbcS0NQVKhqtZMVkz6n3x 9-9-12 14-9-9 19-7-8

Scale = 1:36.5



6-4-12 6-4-12				13-2-12 6-10-0					19-7-8 6-4-12			
Plate Offsets (X,Y) [2:Edge,0-0-3], [6:0-0-0,0-0-3]						6-10-0					6-4-12	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.17	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.35	7-9	>676	180	1007000000	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matrix	k-MS	.113135.4040.43175.47					Weight: 91 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.3

WEBS

REACTIONS. (size) 6=0-3-8, 2=0-3-8

Max Horz 2=99(LC 16)

Max Uplift 6=-193(LC 13), 2=-237(LC 12) Max Grav 6=926(LC 1), 2=1045(LC 1)

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

TOP CHORD 2-3=-1699/485, 3-4=-1569/488, 4-5=-1591/503, 5-6=-1723/500

**BOT CHORD** 2-9=-389/1462, 7-9=-212/992, 6-7=-395/1490

4-7=-195/683, 4-9=-178/652 WEBS

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-9-12, Exterior(2R) 9-9-12 to 12-9-12, Interior(1) 12-9-12 to 19-7-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=193, 2=237

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

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

### LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 9-13=-20, 7-9=-80(F=-60), 7-10=-20



Structural wood sheathing directly applied or 4-2-4 oc purlins.

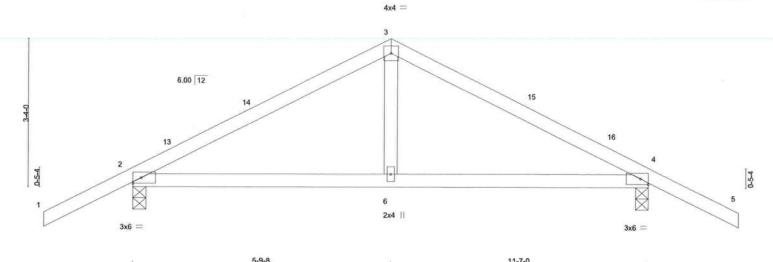
Rigid ceiling directly applied or 9-3-2 oc bracing.

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



Job Truss Truss Type Qty MURTAGH RES Ply T27981848 3205301 T04 COMMON 3 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:47 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-0xlq9?ojteokWfIPY0eC220o4sVZ9?8r3XJv2Az6n3w -2-0-0 2-0-0 5-9-8 13-7-0 2-0-0

Scale = 1:25.0



		1	8	5-9-8								
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	0.31	Vert(LL)	-0.02	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.05	6-12	>999	180	1016310	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	https://discount.com/					Weight: 48 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

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

Max Horz 2=56(LC 12)

Max Uplift 2=-127(LC 12), 4=-127(LC 13) Max Grav 2=537(LC 1), 4=537(LC 1)

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

TOP CHORD 2-3=-547/204, 3-4=-547/204

**BOT CHORD** 2-6=-55/428, 4-6=-55/428

WEBS 3-6=0/253

NOTES-(7)

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-9-8, Exterior(2R) 5-9-8 to 8-9-8, Interior(1) 8-9-8 to 13-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

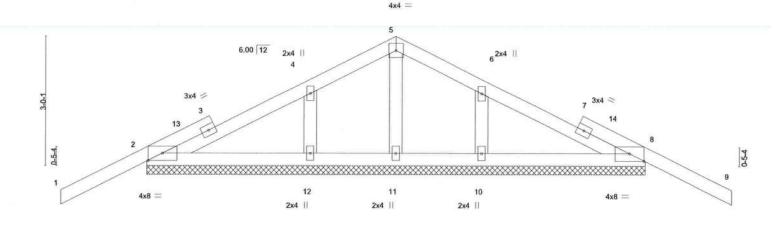
Rigid ceiling directly applied or 10-0-0 oc bracing.





Job		Truss	Truss Type	Qty	Ply	MURTAGH RES	T27981849
32053	301	T04G	GABLE	1	1		12/901049
						Job Reference (optional)	
Build	ders FirstSource (Lake C	City,FL), Lake	City, FL - 32055,			c 6 2021 MiTek Industries, Inc. Mon Jun	
				ID:0yrXDNjrxl	KUZiS4sq5	QxWyyQw7-U7JDNLpLeywb8otb6j9RbG	Y_0FvTuT8_IB2Tacz6n3v
	-2-0-0		5-9-8	1		11-7-0	13-7-0
	2-0-0	1	5-9-8	3.5		5-9-8	2-0-0

Scale = 1:25.8



		[2:0-4-0,0-2-1], [8:0-4-0,0										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.01	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.02	9	n/r	120	2500000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S	10.000000000000000000000000000000000000					Weight: 55 lb	FT = 20%

11-7-0

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

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

REACTIONS. All bearings 11-7-0.

Max Horz 2=52(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 12, 10

Max Grav All reactions 250 lb or less at joint(s) 11, 12, 10 except 2=253(LC 23), 8=253(LC 24)

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

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 5-9-8, Corner(3R) 5-9-8 to 8-9-8, Exterior(2N) 8-9-8 to 13-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 12, 10.
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



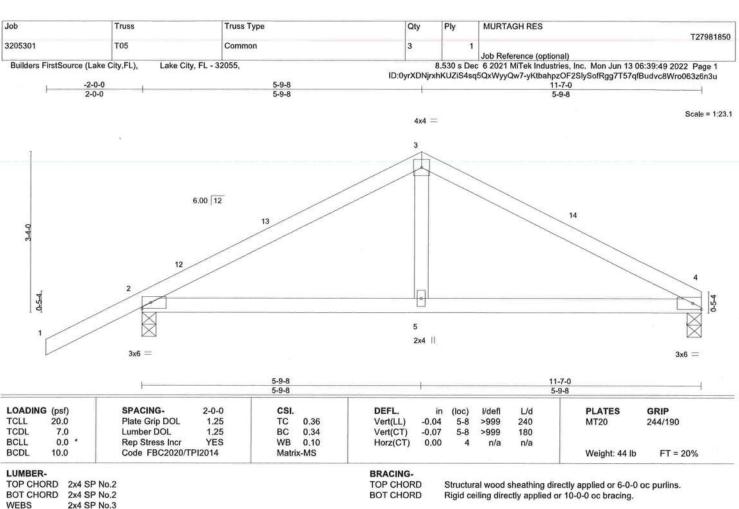
June 14,2022



ors and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIJ-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 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 occllapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and thruss systems, see ANSI/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801





REACTIONS.

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

Max Horz 2=70(LC 12)

Max Uplift 4=-82(LC 13), 2=-128(LC 12) Max Grav 4=419(LC 1), 2=546(LC 1)

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

TOP CHORD 2-3=-574/225, 3-4=-570/236 **BOT CHORD** 2-5=-136/453, 4-5=-136/453

**WEBS** 3-5=-2/256

### 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-9-8, Exterior(2R) 5-9-8 to 8-9-8, Interior(1) 8-9-8 to 11-7-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb)
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



June 14,2022



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES	707004054
3205301	T06	Half Hip Girder	1	1		T27981851
					Job Reference (optional)	
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,		3.530 s Dec	6 2021 MiTek Industries, Inc. Mon Jun 13 06:3	9:51 2022 Page 1

-2-0-0 2-0-0 7-0-0 4-6-14 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-ui?L?NrDwtIA?GcAnsj8DuANrTms5fEQ\_9H7Bxz6n3s 16-8-0 5-1-2

Structural wood sheathing directly applied or 2-6-14 oc purlins,

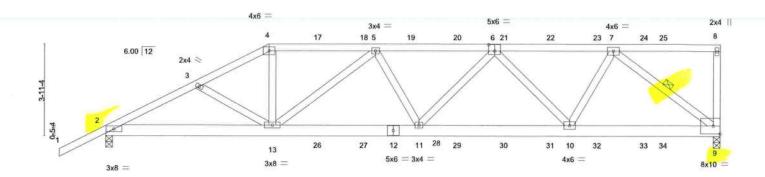
7-9

Rigid ceiling directly applied or 7-4-1 oc bracing.

except end verticals.

1 Row at midpt

Scale: 1/4"=1"



		7-0-0	-		13-5-2			19-10-15	5	1	26-4-0	1
7-0-0			6-5-2			6-5-13				6-5-1		
Plate Offse	ts (X,Y)	[6:0-3-0,0-3-4]										
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	0.64	Vert(LL)	-0.16	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.31	11-13	>998	180	3000000000	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matrix	c-MS	1 3 1 3 4 5 4 5 1 7 1 5 5 1 Te					Weight: 161 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

2x4 SP No.3 WEBS

(size) 9=0-3-8, 2=0-3-8 Max Horz 2=146(LC 8)

Max Uplift 9=-575(LC 5), 2=-506(LC 8) Max Grav 9=2257(LC 1), 2=1952(LC 1)

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

TOP CHORD 2-3=-3654/929, 3-4=-3499/890, 4-5=-3152/826, 5-6=-3888/965, 6-7=-2856/692,

BOT CHORD 2-13=-901/3221, 11-13=-1020/3871, 10-11=-952/3620, 9-10=-599/2238 WEBS

4-13=-179/1115, 5-13=-923/301, 6-11=-52/451, 6-10=-1135/392, 7-10=-209/1341,

### NOTES-(9)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=575, 2=506.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 183 lb down and 170 lb up at 7-0-0, 107 lb down and 87 lb up at 9-0-12, 107 lb down and 87 lb up at 13-0-12, 107 lb down and 87 lb up at 13-0-12, 107 lb down and 87 lb up at 15-0-12, 107 lb down and 83 lb up at 17-0-12, 107 lb down and 87 lb up at 19-0-12, 107 lb down and 87 lb up at 21-0-12, 107 lb down and 87 lb up at 23-0-12, and 107 lb down and 87 lb up at 23-10-12, and 126 lb down and 85 lb up at 26-2-4 on top chord, and 296 lb down and 72 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, and 85 lb down at 23-10-12, and 99 lb down at 26-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

### No 5812 Philip J. O'Rgan PE No. 58126 J. O'REG 58126 Philip J. O'Regan PE No.58126

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 14,2022

### LOAD CASE(S) Standard

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

Design valid for use only with MTE-K® 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 ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES	7981851
3205301	T06	Half Hip Girder	1	1	127	901001
		8			Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:51 2022 Page 2 ID:0yrXDNjrxhKUZIS4sq5QxWyyQw7-ui?L?NrDwIA?GcAnsj8DuANrTms5fEQ\_9H7Bxz6n3s

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 9-14=-20

Concentrated Loads (lb)

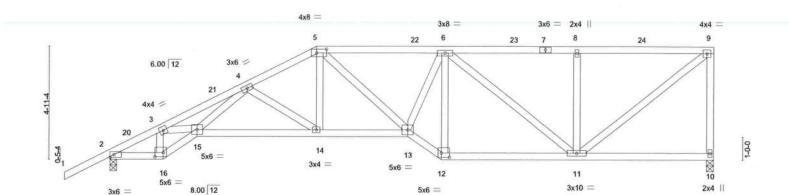
Vert: 4=-183(F) 8=-126(F) 9=-67(F) 13=-282(F) 17=-107(F) 18=-107(F) 19=-107(F) 20=-107(F) 21=-107(F) 22=-107(F) 23=-107(F) 24=-107(F) 25=-107(F) 26=-60(F) 27=-60(F) 28=-60(F) 28=-60(F) 29=-60(F) 30=-60(F) 31=-60(F) 32=-60(F) 33=-60(F) 34=-60(F)

Job	Truss	Truss Type	Qty	Ply	MURTAGH RES	T27981852
3205301	T07	Half Hip	1	1		12/961652
Builders FirstSour	rce (Lake City,FL), Lake Ci	ty, FL - 32055,		530 s Dec	Job Reference (optional) 6 2021 MiTek Industries, Inc. Mon Jun 13 5QxWyyQw7-NvZjCjsrhAQ1dQBNKZENl6jc	

14-5-8 5-5-8

20-4-12 5-11-4

Scale: 1/4"=1"



		2-3-8 2-3-8	3-9-8 1-6-0	9-0-0 5-2-8	- 1	12-11-8 3-11-8	14-5-8		20-4 5-1			26-4-0 5-11-4	
Plate Offse		THE PERSON NAMED IN COLUMN	-4,0-2-0], [12:0-4-4		4,0-2-4]							V-11-7	
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	0.42	Vert(LL)	-0.13	14	>999	240	MT20	244/190
TCDL	7.0		Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.25	14-15	>999	180	70000000	
BCLL	0.0 *		Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0		Code FBC2020/T	PI2014	Matri	x-MS						Weight: 156 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

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

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

Max Horz 2=179(LC 12)

Max Uplift 10=-236(LC 9), 2=-257(LC 12) Max Grav 10=965(LC 1), 2=1081(LC 1)

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

TOP CHORD 2-3=-1692/363, 3-4=-3222/806, 4-5=-1788/435, 5-6=-1706/409, 6-8=-985/237,

8-9=-985/237, 9-10=-913/249

**BOT CHORD** 2-16=-446/1461, 15-16=-491/1627, 14-15=-596/2064, 13-14=-411/1583, 12-13=-390/1613,

11-12=-330/1375

**WEBS** 3-16=-937/299, 3-15=-394/1520, 4-15=-284/1105, 4-14=-600/227, 5-14=-97/460,

6-13=-219/865, 6-12=-799/233, 6-11=-500/185, 8-11=-335/156, 9-11=-298/1241

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 26-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=236, 2=257,
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 2-11-9 oc purlins,

Rigid ceiling directly applied or 7-8-4 oc bracing.

except end verticals.

June 14,2022



ters 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 anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

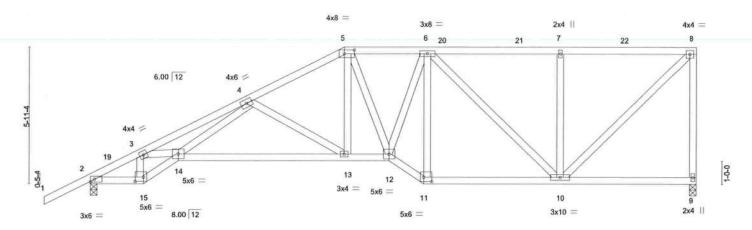


Job Truss Type MURTAGH RES Truss Qty Ply T27981853 Half Hip 3205301 TOS 1 Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:39:53 2022 Page 1

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-r575Q3tUSUYuEalZuGlclJGkzGT5Za3jRTmDFqz6n3q

6-10-15 4-7-7 11-0-0 4-1-1 26-4-0 5-11-4 20-4-12

Scale: 1/4"=1"



		2-3-8	3-9-8	11-0-0		12-11-8	14-5-8		20-4			26-4-0	
		2-3-8	1-6-0	7-2-8		1-11-8	1-6-0		5-1	1-4		5-11-4	
Plate Offs	ets (X,Y)	[5:0-5-	4,0-2-0], [11:0-4-4,	0-2-4], [15:0-4-4,	0-2-4]								
LOADING	G (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0		Plate Grip DOL	1,25	TC	0.60	Vert(LL)	-0.14 13	3-14	>999	240	MT20	244/190
TCDL	7.0		Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.33 13	3-14	>961	180	B12-25	
BCLL	0.0 *		Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.12	9	n/a	n/a	No. 2002 100 000 000	
BCDL	10.0		Code FBC2020/T	PI2014	Matrix-	MS						Weight: 169 lb	FT = 20%

**BRACING-**

LUMBER-

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

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

TOP CHORD

Structural wood sheathing directly applied or 2-10-2 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 7-8-2 oc bracing.

REACTIONS.

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

Max Horz 2=213(LC 12)

Max Uplift 9=-230(LC 9), 2=-255(LC 12) Max Grav 9=965(LC 1), 2=1081(LC 1)

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

TOP CHORD 2-3=-1697/365, 3-4=-3237/828, 4-5=-1551/375, 5-6=-1343/357, 6-7=-813/190,

7-8=-813/190, 8-9=-914/243

**BOT CHORD** 2-15=-483/1468, 14-15=-531/1643, 13-14=-594/1900, 12-13=-361/1348, 11-12=-345/1314,

10-11=-290/1123

WEBS 3-15=-963/321, 3-14=-404/1524, 4-14=-329/1260, 4-13=-658/273, 5-13=-98/535,

6-12=-216/705, 6-11=-625/210, 6-10=-433/170, 7-10=-350/163, 8-10=-261/1119

### 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 26-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=230, 2=255.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

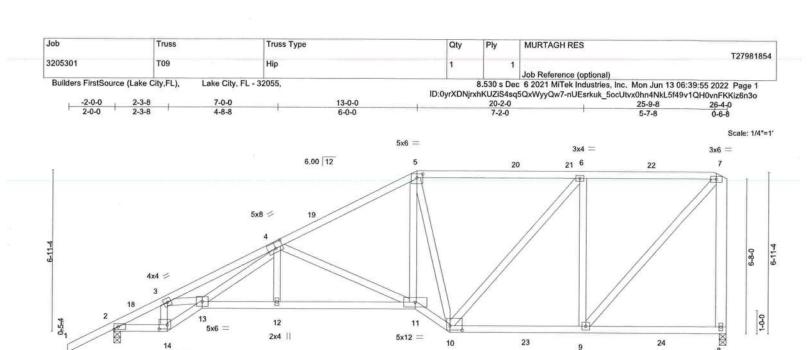
June 14,2022



sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 ray, 5/19/2020 REFORE USE

Design valid for use only with MiTe® 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 manage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ansi/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





	1	2-3-8	3-9-8	7-0-0	12-11-8	14-5-8	20	0-2-0		26-4-0	
		2-3-8	1-6-0	3-2-8	5-11-8	1-6-0	5	-8-8		6-2-0	
Plate Offse	ts (X,Y)	[4:0-3-	12,0-3-0], [5:0-	3-0,0-2-0], [10:0-6	-4,0-2-4], [14:0-4-4,0-2-4]						
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 0.53	Vert(LL)	-0.18 11-12	>999	240	MT20	244/190
TCDL	7.0		Lumber DOL	1.25	BC 0.68	Vert(CT)	-0.32 11-12	>969	180		
BCLL	0.0 *		Rep Stress Inc	r YES	WB 0.85	Horz(CT)	0.14 8	n/a	n/a		
BCDL	10.0		Code FBC202	0/TPI2014	Matrix-MS					Weight: 174 lb	FT = 20%

LUMBER-

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

**WEBS** 2x4 SP No.3 "Except"

7-8: 2x6 SP No.2

BRACING-TOP CHORD

BOT CHORD

6x8

Structural wood sheathing directly applied or 2-10-2 oc purlins,

4x4 =

2x4 ||

except end verticals.

Rigid ceiling directly applied or 7-5-13 oc bracing.

REACTIONS.

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

5x6 =

8 00 12

Max Horz 2=246(LC 12)

Max Uplift 2=-250(LC 12), 8=-223(LC 9) Max Grav 2=1134(LC 2), 8=1091(LC 2)

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

TOP CHORD

2-3=-1837/349, 3-4=-3443/850, 4-5=-1445/326, 5-6=-1018/255, 6-7=-789/169,

7-8=-970/237

**BOT CHORD** 2-14=-499/1590, 13-14=-550/1767, 12-13=-626/2124, 11-12=-624/2135, 10-11=-390/1475,

WEBS

3-14=-951/330, 3-13=-446/1597, 4-13=-360/1219, 4-11=-977/320, 5-11=-312/1292,

5-10=-965/335, 6-10=-133/355, 6-9=-653/232, 7-9=-254/1160, 4-12=0/251

### 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 26-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=250, 8=223.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



16023 Swingley Ridge Rd. Chesterfield, MO 63017

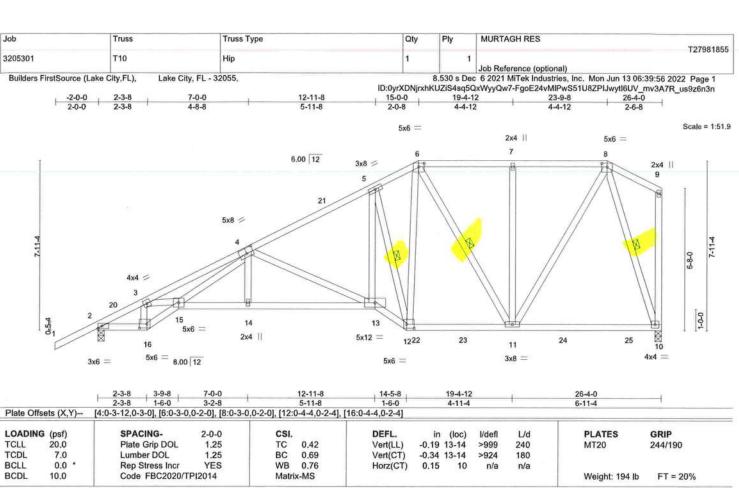
June 14,2022



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





BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS.

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

Max Horz 2=257(LC 12)

Max Uplift 2=-247(LC 12), 10=-193(LC 12) Max Grav 2=1144(LC 2), 10=1092(LC 2)

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

TOP CHORD 2-3=-1856/345, 3-4=-3480/849, 4-5=-1471/322, 5-6=-1093/291, 6-7=-742/180,

**BOT CHORD** 2-16=-507/1607, 15-16=-558/1786, 14-15=-629/2148, 13-14=-628/2159, 12-13=-415/1565,

11-12=-227/901, 10-11=-63/296

WEBS 3-16=-962/336, 3-15=-448/1614, 4-15=-366/1230, 4-14=0/252, 4-13=-975/312,

5-13=-319/1345, 5-12=-1431/441, 6-12=-195/650, 6-11=-330/142, 7-11=-273/128,

8-11=-194/900, 8-10=-952/213

### NOTES-(8)

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-4-12, Interior(1) 19-4-12 to 23-9-8, Exterior(2E) 23-9-8 to 26-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=247, 10=193.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 2-9-12 oc purlins,

5-12, 6-11, 8-10

Rigid ceiling directly applied or 7-5-9 oc bracing.

except end verticals.

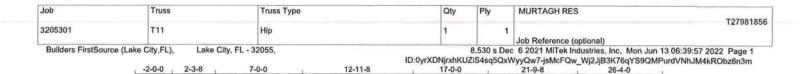
1 Row at midpt

June 14,2022

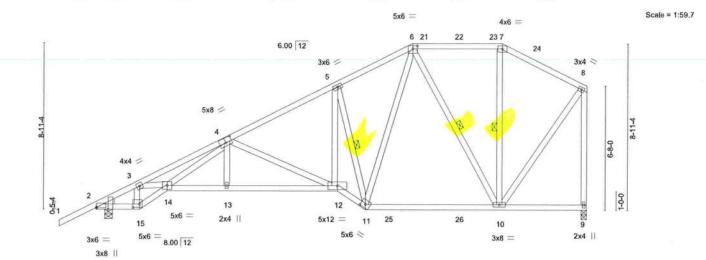


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly amage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





5-11-8



4-0-8

4-9-8

			3-9-0	7-0-0		12-11-8	14-5-8		21-	9-8		26-4-0	
		0-5-41-10-4	1-6-0	3-2-8		5-11-8	1-6-0		7-4	-0		4-6-8	
Plate Offse	ets (X,Y)-	[2:0-1-5,Edge], [2:0-0-	0,0-0-7]	, [4:0-4-0,0-3-0	, [6:0-	3-0,0-2-0], [11:	0-3-0,0-2-3], [15:	0-4-4,0	-2-4]	- 5: 			
LOADING	(psf)	SPACING-	2-	0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1	.25	TC	0.89	Vert(LL)	-0.17	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1	.25	BC	0.67	Vert(CT)	-0.30	12-13	>999	180		
BCLL	0.0	Rep Stress Incr	· Y	'ES	WB	0.67	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code FBC2020	)/TPI201	14	Matr	ix-MS						Weight: 187 lb	FT = 20%

LUMBER-

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

2x4 SP No.3 WEBS

WEDGE

Left: 2x4 SP No.3

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-0-11 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-7-7 oc bracing.

WEBS

1 Row at midpt

5-11, 6-10, 7-10

REACTIONS.

TOP CHORD

(size) 9=0-3-8, 2=0-4-15

Max Horz 2=271(LC 12)

2-0-0

4-8-8

Max Uplift 9=-193(LC 12), 2=-247(LC 12) Max Grav 9=1049(LC 2), 2=1164(LC 2)

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

2-3=-1463/256, 3-4=-3020/748, 4-5=-1423/304, 5-6=-1079/285, 6-7=-482/151, 7-8=-579/141, 8-9=-1007/223

**BOT CHORD** 2-15=-432/1219, 14-15=-475/1345, 13-14=-605/2002, 12-13=-603/2013, 11-12=-417/1481,

10-11=-178/713

WEBS 3-15=-825/311, 3-14=-444/1575, 4-14=-300/884, 4-12=-862/286, 5-12=-316/1223, 5-11=-1349/460, 6-11=-205/745, 6-10=-505/187, 8-10=-152/827

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 0-11-5, Interior(1) 0-11-5 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 21-9-8, Exterior(2E) 21-9-8 to 26-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 100 lb uplift at joint(s) except (jt=lb) 9=193, 2=247,
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

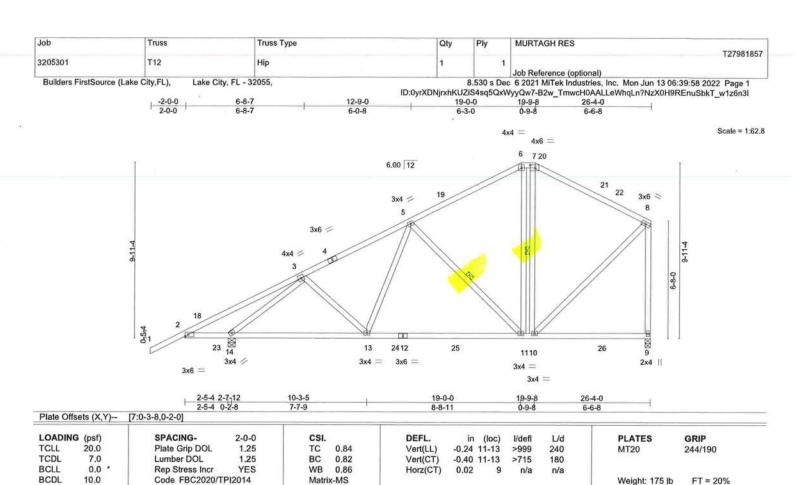
June 14,2022



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





BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS. (size) 14=0-4-15, 9=0-3-8

Max Horz 14=285(LC 12)

Max Uplift 14=-262(LC 12), 9=-178(LC 12) Max Grav 14=1271(LC 2), 9=977(LC 2)

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

TOP CHORD 2-3=-435/528, 3-5=-1121/206, 5-6=-636/153, 6-7=-508/171, 7-8=-627/162,

8-9=-871/202

**BOT CHORD** 2-14=-406/480, 13-14=-346/877, 11-13=-263/848, 10-11=-105/508

**WEBS** 5-13=-21/333, 5-11=-500/224, 6-11=-69/289, 3-14=-1544/530, 8-10=-146/696

### 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-0-0, Exterior(2E) 19-0-0 to 19-9-8, Exterior(2R) 19-9-8 to 24-0-7, Interior(1) 24-0-7 to 26-2-4 zone; cantilever left 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=262, 9=178.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 5-4-15 oc purlins,

5-11, 7-10

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

except end verticals.

1 Row at midpt

June 14,2022



ters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 REFORE USE

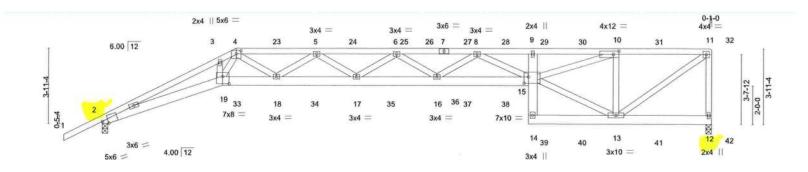
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPH Quality Criteria, DSB-89 and BCSI Building Compo Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss		Truss Type		Qty	Ply	MURTAGH RES		T27981858
3205301	T13		HALF HIP GIR	DER	1	3	Job Reference (optional)		12/961656
Builders FirstSource	(Lake City,FL),	Lake City, FL -	32055,		ID:0yrXDNjr		6 2021 MiTek Industries, Inc QxWyyQw7-Y0jtWT_I5ZpTR6		
-2-0-0	6-3-8	7-0-0	11-2-6	15-4-13	19-7-5	22-3-8		31-9-8	31-10-8
2-0-0	6-3-8	0-8-8	4-2-7	4-2-6	4-2-8	2-8-3	4-7-0	4-11-1	0-1-0

Scale = 1:58.0



	1	6-3-8	9-1-3	13-3-10	17-6	i-1	22-3	8-1	- 7	26-10-7	31-10-8	- 7
	4:	6-3-8	2-9-11	4-2-7	4-2	-7	4-9-	-7		4-7-0	5-0-1	1
Plate Offse	ets (X,Y)	[2:0-3-11,0-2-5], [4:0-3-0	,0-2-0], [10:0-	3-8,0-2-0], [15	:0-2-12,0-4-0], [1	9:0-4-0,0-4-8]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.51 1	6-17	>752	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.98 1	6-17	>387	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.49	12	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	0-035 50				100000	Weight: 585 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.2 TOP CHORD

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

(size) 12=0-3-8, 2=0-3-8

Max Horz 2=146(LC 8)

Max Uplift 12=-710(LC 5), 2=-685(LC 8)

Max Grav 12=2617(LC 1), 2=2450(LC 1)

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

TOP CHORD 2-3=-11482/3319, 3-4=-11243/3308, 4-5=-10701/3061, 5-6=-12569/3552,

6-8=-12739/3574, 8-9=-10647/2964, 9-10=-9696/2717, 10-11=-3046/833,

11-12=-2465/731

**BOT CHORD** 2-19=-3147/10659, 18-19=-2599/8941, 17-18=-3445/12036, 16-17=-3719/13075,

15-16=-3466/12259, 9-15=-323/164, 13-14=-254/927

WEBS 3-19=-202/551, 4-19=-977/3068, 4-18=-635/2223, 5-18=-1696/525, 5-17=-146/693,

6-17=-660/222, 6-16=-419/222, 8-16=-175/602, 8-15=-1830/604, 13-15=-638/2332,

10-15=-2002/7066, 10-13=-3019/973, 11-13=-1017/3731

### NOTES-(12)

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x4 1 row at 0-5-0 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.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=710, 2=685.



Structural wood sheathing directly applied or 5-6-13 oc purlins,

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

except end verticals.

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

June 14,2022

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-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 guildance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES	7081858
3205301	T13	HALF HIP GIRDER	1	3	Job Reference (optional)	301030

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:40:03 2022 Page 2 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-Y0jtWT\_I5ZpTR6WUUNwyiQgRRIrkv1aBk0BlcFz6n3g

### NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 426 lb down and 156 lb up at 7-0-0, 181 lb down and 87 lb up at 9-0-12, 181 lb down and 87 lb up at 11-0-12, 181 lb down and 87 lb up at 13-0-12, 181 lb down and 87 lb up at 15-0-12, 181 lb down and 87 lb up at 15-0-12, 181 lb down and 82 lb up at 19-0-12, 181 lb down and 87 lb up at 21-0-12, 107 lb down and 87 lb up at 23-0-12, 107 lb down and 87 lb up at 25-0-12, 107 lb down and 87 up at 27-0-12, and 107 lb down and 87 lb up at 29-0-12, and 125 lb down and 85 lb up at 31-4-12 on top chord, and 107 lb down and 90 lb up at 7-0-0, 0 lb down at 9-0-12, 0 lb down at 11-0-12, 0 lb down at 13-0-12, 0 lb down at 15-0-12, 0 lb down at 15-0-12, 0 lb down at 19-0-12, 0 lb down at 21-0-12, 85 lb down at 23-0-12, 85 Ib down at 25-0-12, 85 lb down at 27-0-12, and 85 lb down at 29-0-12, and 99 lb down at 31-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-11=-54, 19-20=-20, 15-19=-20, 12-14=-20

Concentrated Loads (lb)

Vert: 4=-379(B) 5=-181(B) 10=-107(B) 13=-60(B) 23=-181(B) 25=-181(B) 25=-181(B) 25=-181(B) 25=-181(B) 28=-181(B) 28=-181(B) 29=-107(B) 30=-107(B) 31=-107(B) 32=-125(B) 33=-107(B) 39=-60(B) 40=-60(B) 41=-60(B) 42=-67(B)



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES
3205301	T14	Hip	1	1	T27981859
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				10011	Job Reference (optional)
Builders FirstSource (Lake C	city,FL), Lake City, FL - 3:	2055,	8	.530 s Dec	6 2021 MiTek Industries, Inc. Mon Jun 13 06:40:04 2022 Page 1

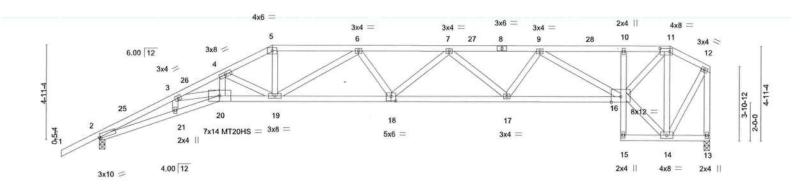
8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:40:04 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-0CHGjp?NssxK3G5g14SBEeDb4i9MeYALzgwJ8hz6n3f 18-3-1 27-2-8 29-9-8 31-10-8 4-8-13 4-2-10 2-7-0 2-1-0

Structural wood sheathing directly applied or 2-1-12 oc purlins,

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

except end verticals.

Scale = 1:58.0



	1	3-11-9	6-3-8	9-0-0	15-2	-13	21-	3-4	1		27-2-8	29-9-8 3	1-10-8
		3-11-9	2-3-15	2-8-8	6-2-	-13	6-0	)-7			5-11-4	2-7-0	2-1-0
Plate Offse	ets (X,Y)	[2:0-0-12,0-0	)-13], [11:0-	6-4,0-2-0], [18	:0-3-0,0-3-0]								
LOADING	(psf)	SPAC	ING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate	Grip DOL	1.25	TC	0.74	Vert(LL)	-0.42	18-19	>911	240	MT20	244/190
TCDL	7.0	Lumb	er DOL	1.25	BC	0.98	Vert(CT)	-0.80	18-19	>478	180	MT20HS	187/143
BCLL	0.0 *	Rep S	Stress Incr	YES	WB	0.68	Horz(CT)	0.52	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/7	TPI2014	Matri	k-MS					3230	Weight: 182 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

-2-0-0 2-0-0

TOP CHORD 2x4 SP No.2

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

2-20: 2x4 SP M 31, 10-15: 2x4 SP No.3

WEBS 2x4 SP No.3

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

Max Horz 2=161(LC 12)

Max Uplift 2=-299(LC 12), 13=-247(LC 8) Max Grav 2=1285(LC 1), 13=1171(LC 1)

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

TOP CHORD 2-3=-4508/1102, 3-4=-5050/1237, 4-5=-3173/750, 5-6=-2886/702, 6-7=-3485/814,

9-0-0

13-6-2

6-3-8

7-9=-3092/732, 9-10=-1703/413, 10-11=-1665/406, 11-12=-572/132, 12-13=-1144/249

BOT CHORD 2-21=-1105/4096, 20-21=-1130/4192, 19-20=-1115/4363, 18-19=-814/3436,

17-18=-831/3436, 16-17=-686/2814 WEBS 3-20=-162/579, 4-20=-369/1429, 4-1

3-20=-162/579, 4-20=-369/1429, 4-19=-1725/498, 5-19=-250/1221, 6-19=-741/246,

7-17=-460/199, 9-17=-110/514, 9-16=-1303/331, 14-16=-118/561, 11-16=-437/1795,

11-14=-1172/286, 12-14=-216/963, 3-21=-265/99

### NOTES- (10)

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-6-2, Interior(1) 13-6-2 to 29-9-8, Exterior(2E) 29-9-8 to 31-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
  to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=299, 13=247.
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

June 14,2022



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, 2870 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES	
3205301	T15	Hip	1	1		T27981860
					Job Reference (optional)	
Buildare EiretCoure	on (Lake City EL) Lake	City EL - 32055	0	E20 c Doc	6 2024 MiTak Industrian Inc. Man Jun 45	00.40.00 0000 0

22-1-12 5-6-0 11-0-0 16-7-12

Mon Jun 13 06:40:06 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-ybP08V1dOUB2IZF39VUfK3IxWWvJ6UieQ\_PPDaz6n3d 27-9-8 31-10-8 4-1-0

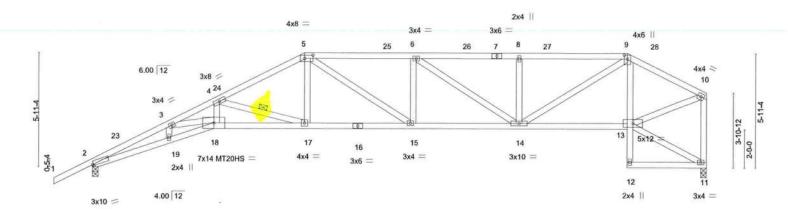
Structural wood sheathing directly applied or 2-1-4 oc purlins,

Rigid ceiling directly applied or 7-2-9 oc bracing.

except end verticals.

1 Row at midpt

Scale = 1:57.8



1	3-11-9	6-3-8	11-0-0		16-7-12	1	22-1-1	2	1	27-9-8	31-10	-8
1:	3-11-9 2	-3-15	4-8-8	1	5-7-12		5-6-0		1	5-7-12	4-1-0	)
ets (X,Y)	[2:0-0-12,0-0-13	3], [5:0-5-	-4,0-2-0], [9:0-2-	8,0-2-0]								
(psf)	SPACING	G-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
20.0	Plate Gri	p DOL	1.25	TC	0.74	Vert(LL)	-0.34	17-18	>999	240	MT20	244/190
7.0	Lumber [	DOL	1.25	BC	0.69	Vert(CT)	-0.65	17-18	>588	180	MT20HS	187/143
0.0 *	Rep Stre	ss Incr	YES	WB	0.55	Horz(CT)	0.41	11	n/a	n/a		
10.0	Code FB	3C2020/T	PI2014	Matrix	c-MS	15 50				33.40	Weight: 182 lb	FT = 20%
	(psf) 20.0 7.0 0.0	3-11-9 2 els (X,Y) [2:0-0-12,0-0-13] (psf) SPACIN 20.0 Plate Gri 7.0 Lumber I 0.0 Rep Stre	3-11-9 2-3-15 els (X,Y) [2:0-0-12,0-0-13], [5:0-5-1] (psf) SPACING- 20.0 Plate Grip DOL 7.0 Lumber DOL 0.0 Rep Stress Incr	3-11-9 2-3-15 4-8-8 ats (X,Y) [2:0-0-12,0-0-13], [5:0-5-4,0-2-0], [9:0-2-  (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.25 7.0 Lumber DOL 1.25 0.0 Rep Stress Incr YES	3-11-9   2-3-15   4-8-8	3-11-9 2-3-15 4-8-8 5-7-12 als (X,Y) [2:0-0-12,0-0-13], [5:0-5-4,0-2-0], [9:0-2-8,0-2-0]  (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.74 7.0 Lumber DOL 1.25 BC 0.69 0.0 Rep Stress Incr YES WB 0.55	3-11-9 2-3-15 4-8-8 5-7-12  als (X,Y) [2:0-0-12,0-0-13], [5:0-5-4,0-2-0], [9:0-2-8,0-2-0]  (psf) SPACING- 2-0-0 CSI. DEFL.  20.0 Plate Grip DOL 1.25 TC 0.74 Vert(LL)  7.0 Lumber DOL 1.25 BC 0.69 Vert(CT)  0.0 Rep Stress Incr YES WB 0.55 Horz(CT)	3-11-9 2-3-15 4-8-8 5-7-12 5-6-0 ats (X,Y) [2:0-0-12,0-0-13], [5:0-5-4,0-2-0], [9:0-2-8,0-2-0]  (psf) SPACING- 2-0-0 CSI. DEFL. in 20.0 Plate Grip DOL 1.25 TC 0.74 Vert(LL) -0.34 7.0 Lumber DOL 1.25 BC 0.69 Vert(CT) -0.65 0.0 Rep Stress Incr YES WB 0.55 Horz(CT) 0.41	3-11-9 2-3-15 4-8-8 5-7-12 5-6-0  als (X,Y) [2:0-0-12,0-0-13], [5:0-5-4,0-2-0], [9:0-2-8,0-2-0]  (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.25 TC 0.74 Vert(LL) -0.34 17-18  7.0 Lumber DOL 1.25 BC 0.69 Vert(CT) -0.65 17-18  0.0 * Rep Stress Incr YES WB 0.55 Horz(CT) 0.41 11	3-11-9 2-3-15 4-8-8 5-7-12 5-6-0  als (X,Y)— [2:0-0-12,0-0-13], [5:0-5-4,0-2-0], [9:0-2-8,0-2-0]  (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl  20.0 Plate Grip DOL 1.25 TC 0.74 Vert(LL) -0.34 17-18 >999  7.0 Lumber DOL 1.25 BC 0.69 Vert(CT) -0.65 17-18 >588  0.0 * Rep Stress Incr YES WB 0.55 Horz(CT) 0.41 11 n/a	3-11-9 2-3-15 4-8-8 5-7-12 5-6-0 5-7-12  als (X,Y) [2:0-0-12,0-0-13], [5:0-5-4,0-2-0], [9:0-2-8,0-2-0]  (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d  20.0 Plate Grip DOL 1.25 TC 0.74 Vert(LL) -0.34 17-18 >999 240  7.0 Lumber DOL 1.25 BC 0.69 Vert(CT) -0.65 17-18 >588 180  0.0 Rep Stress Incr YES WB 0.55 Horz(CT) 0.41 11 n/a n/a	3-11-9 2-3-15 4-8-8 5-7-12 5-6-0 5-7-12 4-1-0 als (X,Y) [2:0-0-12,0-0-13], [5:0-5-4,0-2-0], [9:0-2-8,0-2-0]  (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES 20.0 Plate Grip DOL 1.25 TC 0.74 Vert(LL) -0.34 17-18 >999 240 MT20 7.0 Lumber DOL 1.25 BC 0.69 Vert(CT) -0.65 17-18 >588 180 MT20HS 0.0 * Rep Stress Incr YES WB 0.55 Horz(CT) 0.41 11 n/a n/a

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

2-18,16-18: 2x4 SP M 31, 9-12: 2x4 SP No.3

**WEBS** 2x4 SP No.3

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

Max Horz 2=175(LC 12)

Max Uplift 2=-297(LC 12), 11=-215(LC 13)

Max Grav 2=1285(LC 1), 11=1171(LC 1)

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

TOP CHORD 2-3=-4500/1108, 3-4=-5081/1264, 4-5=-2632/609, 5-6=-2580/583, 6-8=-2196/499,

8-9=-2197/499, 9-10=-1308/270, 10-11=-1133/243

**BOT CHORD** 2-19=-1126/4088, 18-19=-1149/4183, 17-18=-1159/4398, 15-17=-543/2334, 14-15=-563/2580, 13-14=-229/1161, 9-13=-360/117

3-18=-141/625, 4-18=-361/1452, 4-17=-2178/647, 5-17=-148/727, 5-15=-168/439,

6-14=-477/196, 8-14=-312/146, 9-14=-297/1256, 10-13=-238/1212, 3-19=-262/93

### NOTES-(10)

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 27-9-8, Exterior(2E) 27-9-8 to 31-8-12 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) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=297, 11=215.
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 14,2022



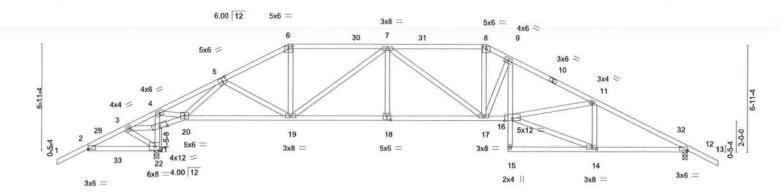
eters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

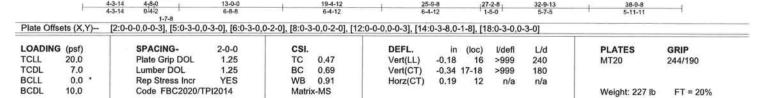
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job		Truss		Truss Type		Qty	F	Ply	MURTAGH	RES		
3205301		T16		Hip		1		1				T279818
Builders First	Source (Lake	e City,FL),	Lake City, F	L - 32055,		ID:0vrX		30 s Dec		k Industries, I	nc. Mon Jun 13 06:4	
-2-0-		4-8-0	8-9-10	13-0-0	19-4-12	25-9		27-2		9-13	38-9-8	40-9-8
2-0-6	2-6-3	2-1-13	4-1-10	4-2-6	6-4-12	6-4-	12	1.5.	-0 5	.7.5	5-11-11	2.0.0

Scale = 1:72.0





**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 \*Except\* **BOT CHORD** 4-22,9-15: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size)

12=0-3-8, 22=0-3-12

Max Horz 22=108(LC 12)

Max Uplift 12=-308(LC 13), 22=-375(LC 12) Max Grav 12=1340(LC 1), 22=1747(LC 1)

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

TOP CHORD 2-3=-463/508, 3-4=-1243/1346, 4-5=-1063/179, 5-6=-1789/325, 6-7=-1567/319,

7-8=-2113/449, 8-9=-2352/488, 9-11=-2806/539, 11-12=-2249/473 2-22=-421/467, 21-22=-1921/793, 4-21=-1519/404, 20-21=-1294/1311, 19-20=-225/1389,

**BOT CHORD** 18-19=-299/2181, 17-18=-299/2181, 16-17=-292/2440, 9-16=-138/793, 12-14=-333/1947

3-22=-457/401, 3-21=-1095/1130, 4-20=-480/1910, 5-20=-1060/789, 6-19=-62/540,

7-19=-798/213, 8-17=-128/853, 9-17=-871/226, 14-16=-353/2017, 11-16=-102/509,

11-14=-638/166

### NOTES-

**WEBS** 

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 25-9-8, Exterior(2R) 25-9-8 to 30-0-7, Interior(1) 30-0-7 to 40-9-8 zone; cantilever left 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=308, 22=375.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

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

6-0-0 oc bracing: 2-22

3-6-2 oc bracing: 21-22 5-0-13 oc bracing: 20-21.

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 14,2022



ters 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 The state of the set only with in the economicals, find usagin is based only upon parameters snown, and is for an intervoluted 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 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

\*\*ABSUTPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES	707004000
3205301	T17	Hip	1	1	Job Reference (optional)	T27981862
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,			c 6 2021 MiTek Industries, Inc. Mon Jun 13 xWyyQw7-NA59nX3WhPZc91_eqd1MxhwS	

19-4-12 4-4-12

23-9-8

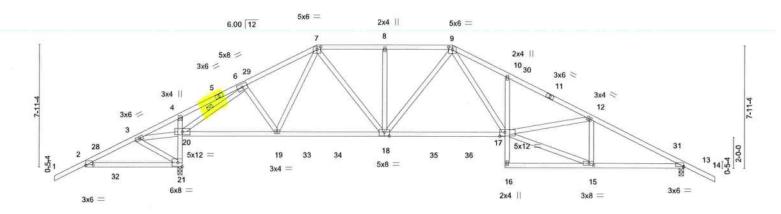
15-0-0 4-8-8

10-3-8

Scale = 1:72.0

2-0-0

5-11-11



	1	6-3-8	12-5-0	19-4-12	27-2-8	32-9-13	38-9-8	
		6-3-8	6-1-7	6-11-12	7-9-12	5-7-5	5-11-11	
Plate Offse	ets (X,Y)	[2:0-6-0,0-0-5], [7:0-3-0,0	0-2-0], [9:0-3-0,	0-2-0], [13:0-0-0,0-0-3], [15	0-3-8,0-1-8], [17:0-4-0,0-3-0], [	[18:0-4-0,0-3-0]	W.	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defi L/d	PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC 0.68	Vert(LL) -0,27 17-18	>999 240	MT20 244/190	j
TCDL	7.0	Lumber DOL	1.25	BC 0.87	Vert(CT) -0.49 17-18	>807 180	1 1000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT) 0.08 13	n/a n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS			Weight: 228 lb FT = 2	20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

4-21,10-16: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 13=0-3-8, 21=0-3-8

Max Horz 21=-123(LC 13)

Max Uplift 13=-295(LC 13), 21=-391(LC 12) Max Grav 13=1342(LC 2), 21=1963(LC 2)

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

TOP CHORD 2-3=-526/581, 3-4=-1694/1841, 4-6=-1666/1826, 6-7=-1353/221, 7-8=-1688/306,

8-9=-1688/306, 9-10=-2724/561, 10-12=-2719/485, 12-13=-2268/445

**BOT CHORD** 2-21=-475/522, 20-21=-2111/910, 19-20=-98/937, 18-19=-98/1249, 17-18=-91/1715,

10-17=-260/153, 13-15=-307/1976

WEBS 3-21=-556/493, 3-20=-1567/1591, 6-20=-3097/1565, 6-19=-247/501, 7-19=-263/279,

7-18=-161/729, 8-18=-267/127, 9-17=-283/1279, 15-17=-320/2082, 12-17=-49/421,

12-15=-545/148

### 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-4-12, Interior(1) 19-4-12 to 23-9-8, Exterior(2R) 23-9-8 to 28-0-7, Interior(1) 28-0-7 to 40-9-8 zone; cantilever left 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.
- \* 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 100 lb uplift at joint(s) except (jt=lb) 13=295, 21=391.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 3-3-12 oc purlins.

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

6-20

6-0-0 oc bracing: 2-21

1 Row at midpt

3-3-0 oc bracing: 20-21.

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 14,2022



ders and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL 7473 (ev. 5/19/2020 REFORE 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/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	MURTAGH RES	T27981863
3205301	T18	Hip	1	1		12/981803
Builders FirstSour	rce (Lake City,FL), Lake C	Sity, FL - 32055,		8.530 s Dec	Job Reference (optional)   6 2021 MiTek Industries, Inc. Mon Jun 1   xWyyQw7-rMeX_t48SihTnBZqOLZbUvTcv	

21-9-8

4-9-8

17-0-0

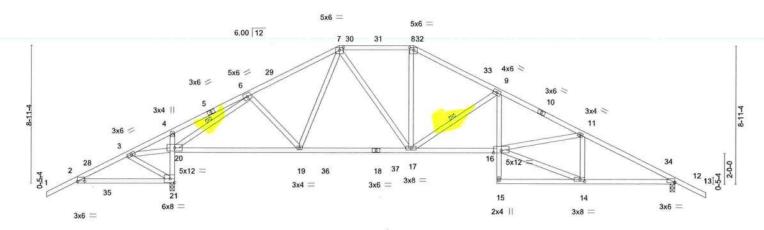
5-10-2

4-10-6

Scale = 1:72.0

2-0-0

38-9-8 5-11-11



	1	6-3-8	14-4-14 8-1-6		21-9-8 7-4-10	27-2-8 5-5-0	-1-	32-9-13 5-7-5	38-9-8 5-11-11	
Plate Offs	ets (X,Y)	[2:0-6-0,0-0-5], [7:0-3-0,0		-2-0], [12:0-0-0,0-0		0-0-0		5-7-5	3-11-11	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	-0.19 17-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.82	Vert(CT)	-0.32 16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.08 12	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS				110-V-51	Weight: 227 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 \*Except\*

BOT CHORD 4-21,9-15: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. 12=0-3-8, 21=0-3-8 (size)

Max Horz 21=-137(LC 13)

Max Uplift 12=-291(LC 13), 21=-387(LC 12)

Max Grav 12=1330(LC 2), 21=1953(LC 2)

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

TOP CHORD 2-3=-527/582, 3-4=-1694/1832, 4-6=-1665/1804, 6-7=-1458/241, 7-8=-1474/315,

8-9=-1697/315, 9-11=-2751/486, 11-12=-2240/436 2-21=-476/523, 20-21=-2098/912, 4-20=-269/131, 19-20=-127/1069, 17-19=-75/1232, BOT CHORD

16-17=-256/2435, 9-16=-99/869, 12-14=-299/1951

WEBS 3-21=-560/492, 3-20=-1555/1593, 6-20=-3118/1640, 6-19=-185/366, 7-17=-129/459, 8-17=-50/521, 9-17=-1170/307, 14-16=-313/2037, 11-16=-19/471, 11-14=-575/151

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 21-9-8, Exterior(2R) 21-9-8 to 26-0-7, Interior(1) 26-0-7 to 40-9-8 zone; cantilever left 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=291, 21=387.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 3-4-5 oc purlins.

6-20, 9-17

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

6-0-0 oc bracing: 2-21

1 Row at midpt

3-2-4 oc bracing: 20-21.

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 14,2022



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 designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

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

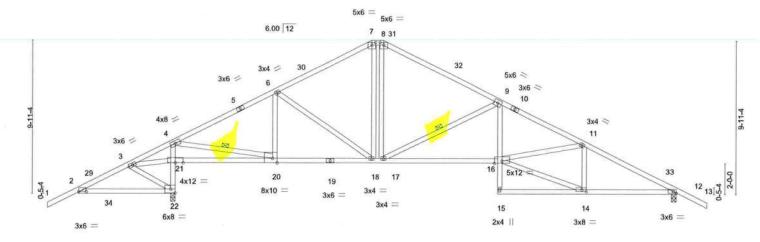


Job	Truss	Truss Type	Qty	Ply	MURTAGH RES T27981864
3205301	T19	Hip	1	1	12/30/1004
					Job Reference (optional)

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:40:12 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-nlmHPY5O\_KxB0UiDVmb3ZKYz8xxrW4AWpwskQDz6n3X 19-0-0 6-3-4 32-9-13 2-11-9

Scale = 1:72.0



	1	6-3-8	12-8-12	19-0	0-0 19-9 <sub>7</sub> 8	27-2-8	-	32-9-13	38-9-8	
	,	6-3-8	6-5-4	6-3	-4 0-9-8	7-5-0		5-7-5	5-11-11	1
Plate Offse	ets (X,Y)	[2:0-6-0,0-0-1], [7:0-3-0,0	0-2-0], [8:0-3-0,0	0-2-0], [14:0-3-8,	0-1-8], [20:0-3-8,Edge]					
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc	) I/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.6	7 Vert(LL	) -0.18 16-1	7 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.8	Vert(C	r) -0.42 16-1	7 >934	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 1.0	00 Horz(C	T) 0.08 1	2 n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS	š			030000	Weight: 232 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2

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

4-22,9-15: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 12=0-3-8, 22=0-3-8

Max Horz 22=152(LC 12)

Max Uplift 12=-287(LC 13), 22=-383(LC 12) Max Grav 12=1253(LC 1), 22=1834(LC 1)

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

TOP CHORD 2-3=-527/583, 3-4=-1696/1837, 4-6=-1277/210, 6-7=-1300/278, 7-8=-1097/269,

8-9=-1321/251, 9-11=-2548/477, 11-12=-2059/425

**BOT CHORD** 2-22=-477/523, 21-22=-2028/900, 4-21=-2103/1066, 20-21=-1537/1609, 18-20=-144/1067,

17-18=-47/1097, 16-17=-263/2272, 9-16=-90/763, 12-14=-288/1776

WEBS 3-22=-556/496, 3-21=-1558/1591, 4-20=-1393/2631, 6-20=-376/308, 7-18=-127/429, 8-17=-64/426, 9-17=-1320/379, 14-16=-298/1865, 11-16=-21/459, 11-14=-575/144

### 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-0-0, Exterior(2E) 19-0-0 to 19-9-8, Exterior(2R) 19-9-8 to 24-0-7, Interior(1) 24-0-7 to 40-9-8 zone; cantilever left 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=287, 22=383,
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 3-5-4 oc purlins.

4-20 9-17

Rigid ceiling directly applied or 3-3-12 oc bracing.

1 Row at midpt

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

June 14,2022



sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 (ev. 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and 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 buckling of individual truss when the property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job MURTAGH RES Truss Truss Type Qty Ply T27981865 T20 3205301 Roof Special 1 Job Reference (optional) Builders FirstSource (Lake City,FL), 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:40:13 2022 Page 1 Lake City, FL - 32055, ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-FxKfcu60ld32eeHP3T6I6X58MKGxFb1g1acHygz6n3W 32-9-13 5-7-5 19-4-12 27-2-8 7-9-12

6-8-0

2-0-0 Scale = 1:69.7

38-9-8

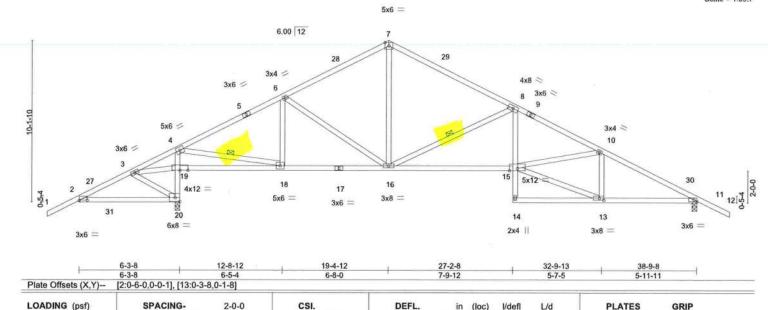
5-11-11

MT20

Weight: 222 lb

244/190

FT = 20%



Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

-0.17 15-16

-0.40 15-16

11

1 Row at midpt

0.08

>999

>979

n/a

240

180

n/a

Rigid ceiling directly applied or 3-3-14 oc bracing.

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

4-18, 8-16

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

20.0

7.0

0.0

10.0

2x4 SP No.2 "Except" **BOT CHORD** 4-20,8-14: 2x4 SP No.3

2x4 SP No.3 \*Except\* WEBS

4-18: 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 20=0-3-8

Max Horz 20=-154(LC 13)

Max Uplift 11=-287(LC 13), 20=-382(LC 12) Max Grav 11=1253(LC 1), 20=1834(LC 1)

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-527/583, 3-4=-1706/1840, 4-6=-1284/211, 6-7=-1289/275, 7-8=-1309/247,

8-10=-2547/474, 10-11=-2058/423

**BOT CHORD** 2-20=-477/523, 19-20=-2028/908, 4-19=-2108/1077, 18-19=-1550/1626, 16-18=-148/1074,

1,25

1.25

YES

TC

BC

WB 0.71

Matrix-MS

0.70

0.82

15-16=-263/2273, 8-15=-81/750, 11-13=-286/1775

**WEBS** 3-20=-561/494, 3-19=-1561/1604, 4-18=-1414/2652, 6-18=-361/303, 7-16=-96/726,

8-16=-1326/386, 13-15=-290/1858, 10-15=-23/460, 10-13=-572/141

### 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-4-12, Exterior(2R) 19-4-12 to 22-4-12, Interior(1) 22-4-12 to 40-9-8 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=287, 20=382,
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



MITek Inc. DBA MiTek USA FL Cert 6634 16923 Swingley Ridge Rd. Chesterfield, MO 63017

June 14,2022



ers and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 ray. 5/19/2020 REFORE USE

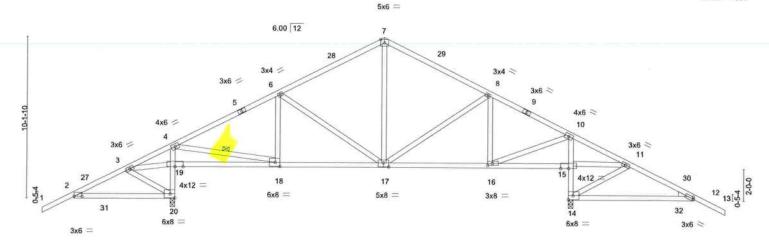
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with MT lete? Connectors, this design is based only upon parameters shown, and is for an individual building design and beginn the 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 

\*\*ABSUTPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Ply MURTAGH RES Qty T27981866 3205301 T21 Roof Special 1 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 13 06:40:14 2022 Page 1 ID:0yrXDNjrxhKUZiS4sq5QxWyyQw7-j7u2qE7fWxBvFosbdBdXeldJokgo\_1ppGELrV6z6n3V 26-0-12 31-0-0 34-8-9 38-9-8 6-5-3 6-8-0 4-0-15

Scale = 1:69.7



		6-3-8	12-8-12	19-4-12	26-0-12	31-0-0	38-9-8	10
		6-3-8	6-5-3	6-8-0	6-8-0	4-11-4	7-9-8	
Plate Offse	ets (X,Y)	[2:0-6-0,0-0-1], [12:0-0-1	14,0-1-8], [16:0-	3-8,0-1-8], [17:0-4-0,0-3-0],	18:0-3-8,0-3-0]		- Andrews	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES (	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0,66	Vert(LL) -0.05 16-17	>999 240	The Control of the Co	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.53	Vert(CT) -0.11 16-17	>999 180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.80	Horz(CT) -0.20 14	n/a n/a		
BCDL	10.0	Code FBC2020/1	TPI2014	Matrix-MS			Weight: 223 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

4-20,10-14: 2x4 SP No.3

WEBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 14=0-3-8, 20=0-3-8

Max Horz 20=154(LC 12)

Max Uplift 14=-374(LC 13), 20=-344(LC 12) Max Grav 14=1636(LC 1), 20=1451(LC 1)

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

TOP CHORD 2-3=-527/583, 3-4=-1707/1843, 4-6=-661/148, 6-7=-558/155, 7-8=-556/176,

8-10=-421/96, 10-11=-1605/1783, 11-12=-580/639

**BOT CHORD** 2-20=-477/523, 19-20=-1646/799, 4-19=-1730/968, 18-19=-1556/1629, 17-18=-91/604,

16-17=0/556, 15-16=-1566/1575, 14-15=-1842/962, 10-15=-1806/984, 12-14=-513/567

WEBS 3-20=-561/496, 3-19=-1565/1606, 4-18=-1255/2103, 6-18=-253/276, 7-17=-29/274,

8-17=-271/220, 8-16=-556/415, 10-16=-1092/1927, 11-15=-1534/1582, 11-14=-667/562

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-4-12, Exterior(2R) 19-4-12 to 22-4-12, Interior(1) 22-4-12 to 40-9-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=374, 20=344.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



Structural wood sheathing directly applied or 4-4-14 oc purlins.

4-18

Rigid ceiling directly applied or 3-7-14 oc bracing.

1 Row at midpt

June 14,2022



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 MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 
\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

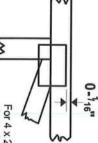


## Symbols

# PLATE LOCATION AND ORIENTATION



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



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

required direction of slots in connector plates This symbol indicates the

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

## PLATE SIZE

4 × 4

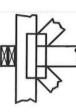
width measured perpendicular to slots. Second dimension is The first dimension is the plate the length parallel to slots.

## LATERAL BRACING LOCATION



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

### BEARING



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

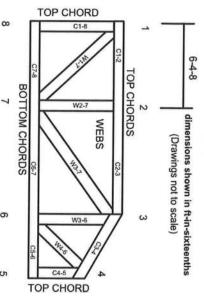
### ANSI/TPI1: Industry Standards:

DSB-89: BCSI:

National Design Specification for Metal Installing & Bracing of Metal Plate Guide to Good Practice for Handling, Plate Connected Wood Truss Construction. Building Component Safety Information Design Standard for Bracing.

Connected Wood Trusses

# **Numbering System**



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# General Safety Notes

## Damage or Personal Injury Failure to Follow Could Cause Property

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

4

Cut members to bear tightly against each other

5

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.