

Lymber design values are in accordance with ANSI/TPI 1 section 6.3

RE: 4053706 - IC CONST. - STAR LAKE

MiTek, Inc.

16023 Swingley Ridge Rd. Site Information: Chesterfield, MO 63017

Customer Info: IC CONSTRUCTION Project Name: Spec House Model: Custom 314.434.1200

Lot/Block: 8 Subdivision: Star Lake

Address: TBD, 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: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-22 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 76 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	T34271001	CJ02	6/26/24	15	T34271015	PB01	6/26/24
2	T34271002	CJ02A	6/26/24	16	T34271016	PB02	6/26/24
3	T34271003	CJ02B	6/26/24	17	T34271017	PB03	6/26/24
4	T34271004	CJ02C	6/26/24	18	T34271018	PB04	6/26/24
5	T34271005	CJ04	6/26/24	19	T34271019	PB05	6/26/24
6	T34271006	CJ04A	6/26/24	20	T34271020	PB06	6/26/24
7	T34271007	CJ05	6/26/24	21	T34271021	PB06G	6/26/24
8	T34271008	CJ05A	6/26/24	22	T34271022	PB07	6/26/24
9	T34271009	EJ01	6/26/24	23	T34271023	PB08	6/26/24
10	T34271010	EJ02	6/26/24	24	T34271024	PB09	6/26/24
11	T34271011	EJ03	6/26/24	25	T34271025	PB10	6/26/24
12	T34271012	EJ04	6/26/24	26	T34271026	PB11	6/26/24
13	T34271013	HJ09	6/26/24	27	T34271027	PB12	6/26/24
14	T34271014	HJ09A	6/26/24	28	T34271028	PB15	6/26/24



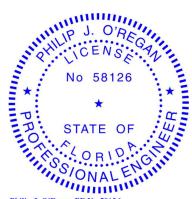
This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2025.

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



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



RE: 4053706 - IC CONST. - STAR LAKE

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

# **Site Information:**

Customer Info: IC CONSTRUCTION Project Name: Spec House Model: Custom

Lot/Block: 8 Subdivision: Star Lake Address: TBD, TBD

City: Columbia Cty State: FL

No. 23333333333444444444445555555555566666666	Seal# T34271029 T34271030 T34271031 T34271034 T34271035 T34271035 T34271039 T34271039 T34271041 T34271042 T34271042 T34271044 T34271045 T34271046 T34271047 T34271048 T34271051 T34271051 T34271052 T34271053 T34271054 T34271055 T34271055 T34271056 T34271056 T34271057 T34271058 T34271059 T34271066 T34271067 T34271068 T34271069 T34271069 T34271070 T34271070 T34271070	Truss Name PB15G PB16 PB17 PB18 T01 T01G T01GG T02 T03 T04 T05 T06 T07 T08 T09 T09G T10 T10G T110 T110G T111 T12 T13 T14 T15 T16 T17 T17G T18 T19 T19G T20 T21 T22 T23 T24 T25 T26 T26G T27 T28 T29 T30 T31 T32 T32 T33	Date 6/26/24 6
69	T34271069	T30	6/26/24
70	T34271070	T31	6/26/24
71	T34271071	T32	6/26/24



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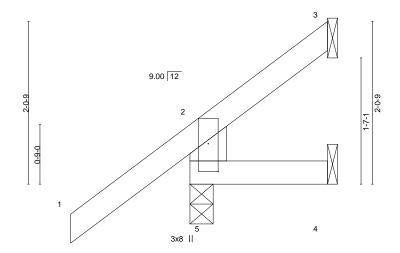
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:25:56 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-oC?b\_8QFUrb461f\_TaxRYucOv\_?0t1Pz2flO8hz2mdv 1-8-12

1-8-12

Scale = 1:14.5



1-8-12 1-8-12

Plate Offs	sets (X,Y)	[5:0-4-3,0-1-8]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	5	>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 FBC2023/TF	PI2014	Matri	x-MR	, ,					Weight: 10 lb	FT = 20%

LUMBER-

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

BOT CHORD 2x6 SP No.2 WFBS

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 1-8-12 oc purlins,

except end verticals.

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

REACTIONS.

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

Max Horz 5=78(LC 12)

Max Uplift 5=-55(LC 12), 3=-26(LC 12), 4=-8(LC 1) Max Grav 5=203(LC 1), 3=18(LC 19), 4=21(LC 3)

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

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

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

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





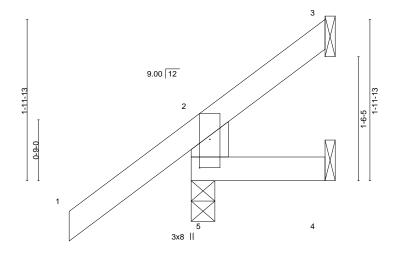


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8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:25:57 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-GOZzCURtF9jxjBEB1ISg559ZfNLFcUf6GJ1xg8z2mdu

-1-6-0 1-7-12 1-6-0

Scale = 1:14.2



1-7-12

Plate Off	Plate Offsets (X,Y) [5:0-4-3,0-1-8]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	5	>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 FBC2023/T	PI2014	Matr	x-MR						Weight: 10 lb	FT = 20%

LUMBER-TOP CHORD BOT CHORD

WFBS

2x4 SP No 2 2x4 SP No 2

2x6 SP No.2

**BRACING-**

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 1-7-12 oc purlins,

except end verticals.

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

REACTIONS.

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

Max Horz 5=76(LC 12)

Max Uplift 5=-57(LC 12), 3=-23(LC 12), 4=-11(LC 1) Max Grav 5=203(LC 1), 3=15(LC 10), 4=19(LC 3)

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

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

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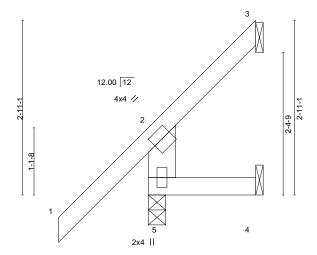
Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271003
4053706	CJ02B	Jack-Open	2	1	
					Job Reference (optional)

-1-6-0 1-6-0

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:25:57 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-GOZzCURtF9jxjBEB1ISg559XhNL3cUf6GJ1xg8z2mdu

Scale = 1:19.3



1-9-9

Plate Of	rsets (X,Y)	[2:0-2-0,0-1-14]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	5	>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 FBC2023/Ti	PI2014	Matri	x-MR						Weight: 12 lb	FT = 20%

LUMBER-

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

BOT CHORD 2x6 SP No.2 WFBS

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 1-9-9 oc purlins,

except end verticals.

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

REACTIONS.

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

Max Horz 5=104(LC 12)

Max Uplift 5=-16(LC 12), 3=-49(LC 12), 4=-16(LC 12) Max Grav 5=203(LC 1), 3=28(LC 10), 4=23(LC 3)

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

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

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Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271004
4053706	CJ02C	Jack-Open	1	1	
		·			Job Reference (optional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:25:58 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-ka7LPqRV0TroLLpNa?\_vdJin\_nhgLxvGVznVDaz2mdt

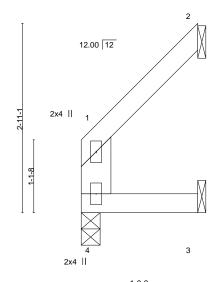
Structural wood sheathing directly applied or 1-9-9 oc purlins,

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

except end verticals.

1-9-9

Scale = 1:17.8



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	0.00	4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.00	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	x-MR						Weight: 9 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

1-9-9

LUMBER-

REACTIONS.

WFBS

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

BOT CHORD 2x6 SP No.2

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

Max Horz 4=54(LC 9)

Max Uplift 2=-61(LC 12), 3=-22(LC 12)

Max Grav 4=65(LC 21), 2=53(LC 19), 3=31(LC 10)

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

### NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.

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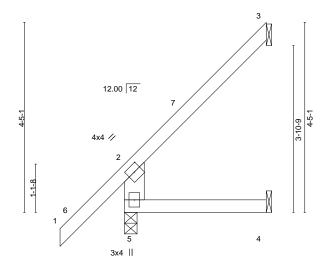
J	ob	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
						T34271005
4	053706	CJ04	Jack-Open	2	1	
						Job Reference (optional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:25:58 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-ka7LPqRV0TroLLpNa?\_vdJiiRneRLxvGVznVDaz2mdt

-1-6-0 1-6-0

Scale = 1:26.8



3-3-9

Plate Off	sets (X,Y)	[2:0-2-0,0-1-14]			
-					_
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	
TCLL	20.0	Plate Grip DOL	1.25	TC 0.44	4
TCDL	7.0	Lumber DOL	1.25	BC 0.27	7
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.00	0

0.0 WB 0.00 Rep Stress Incr Code FBC2023/TPI2014 Matrix-MR

DEFL. (loc) I/defI L/d Vert(LL) 0.01 >999 240 Vert(CT) -0.01 4-5 >999 180 Horz(CT) -0.03 n/a n/a **PLATES** GRIP MT20 244/190

> Weight: 17 lb FT = 20%

LUMBER-TOP CHORD BOT CHORD

10.0

BCDL

WFBS

2x4 SP No.2 2x4 SP No 2 2x6 SP No 2

BRACING-

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 3-3-9 oc purlins,

except end verticals.

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

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=160(LC 12)

Max Uplift 3=-99(LC 12), 4=-22(LC 12)

Max Grav 5=231(LC 1), 3=81(LC 19), 4=54(LC 3)

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

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 3-2-13 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271006
4053706	CJ04A	Jack-Open	1	1	
					Job Reference (optional)

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

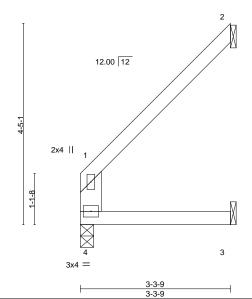
8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:25:59 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-CnhjdAS8nmzfzVNZ8jV8AWEuSBz64O8PkdW2l0z2mds

Structural wood sheathing directly applied or 3-3-9 oc purlins,

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

except end verticals.

Scale = 1:25.3



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.02	3-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	0.02	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TP	12014	Matri	x-MR						Weight: 14 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD 2x6 SP No.2 WFBS

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

Max Horz 4=116(LC 12)

Max Uplift 2=-105(LC 12), 3=-28(LC 12)

Max Grav 4=117(LC 21), 2=92(LC 19), 3=57(LC 3)

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

### NOTES-

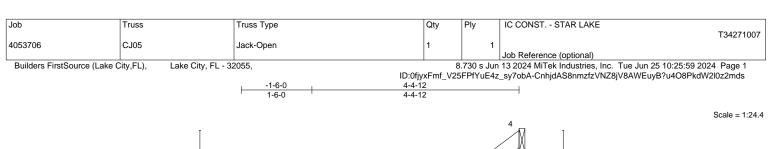
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=105.

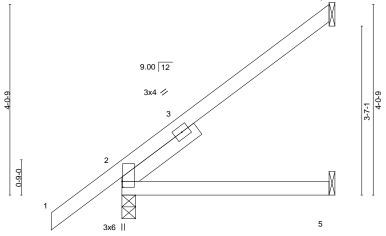
This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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









4-4-12

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y) [2:0-1-8,0-0-3]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.03	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.03	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matri	x-MP						Weight: 21 lb	FT = 20%

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=163(LC 12)

Max Uplift 4=-94(LC 12), 2=-38(LC 12), 5=-10(LC 12) Max Grav 4=110(LC 19), 2=255(LC 1), 5=77(LC 3)

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

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-4-0 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.

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

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

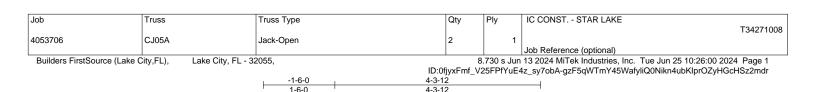
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

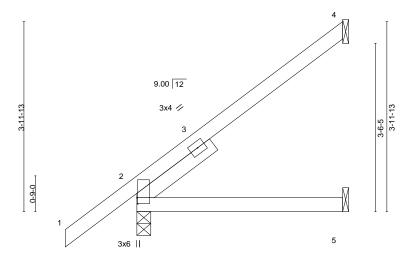
June 26,2024



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







		4-3-12	
Plate Offsets (X,Y)	[2:0-1-8,0-0-3]	4-3-12	

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
LUADING (psi)	SPACING- 2-0-0	USI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.25	Vert(LL) 0.03 5-8 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.24	Vert(CT) -0.03 5-8 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 4 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 20 lb $FT = 20\%$

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=160(LC 12)

Max Uplift 4=-92(LC 12), 2=-38(LC 12), 5=-10(LC 12) Max Grav 4=107(LC 19), 2=253(LC 1), 5=75(LC 3)

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

# NOTES-

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

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Structural wood sheathing directly applied or 4-3-12 oc purlins.

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

Scale: 1/2"=1

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

June 26,2024









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

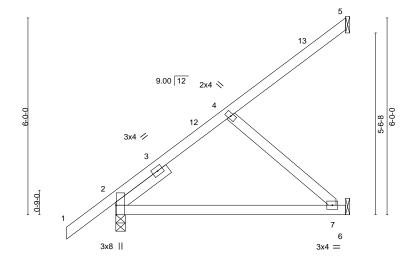
8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:00 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-gzF5qWTmY45WafyliQ0Nikn44bHdpq3ZyHGcHSz2mdr

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

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

3-6-0 1-6-0 3-6-0

Scale = 1:35.1



7-0-0

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y) [2:0-3-8,Edge]													
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.Ó	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.07	7-1Ó	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	0.41	Vert(CT)	-0.14	7-10	>586	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	2	n/a	n/a			
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 36 lb	FT = 20%	

LUMBER-

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

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

REACTIONS.

(size) 5=Mechanical, 2=0-3-8, 6=Mechanical

Max Horz 2=230(LC 12)

Max Uplift 5=-59(LC 12), 2=-44(LC 12), 6=-92(LC 12) Max Grav 5=82(LC 19), 2=346(LC 1), 6=192(LC 19)

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

TOP CHORD 2-4=-516/0

### NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.

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

June 26,2024



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



Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271010
4053706	EJ02	Jack-Open	4	1	
					Job Reference (optional)

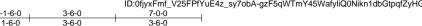
Lake City, FL - 32055, Builders FirstSource (Lake City,FL),

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:00 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-gzF5qWTmY45WafyliQ0Nikn1dbGtpqfZyHGcHSz2mdr

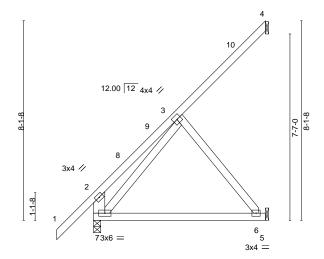
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale = 1:46.9



7-0-0 7-0-0

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.39	Vert(LL)	-0.08	6-7	>952	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.46	Vert(CT)	-0.17	6-7	>469	180		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS						Weight: 45 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

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

2-7: 2x6 SP No.2

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-8

Max Horz 7=292(LC 12)

Max Uplift 4=-81(LC 12), 5=-141(LC 12)

Max Grav 4=95(LC 19), 5=190(LC 19), 7=354(LC 1)

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

**WEBS** 3-6=-190/272

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=141.

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







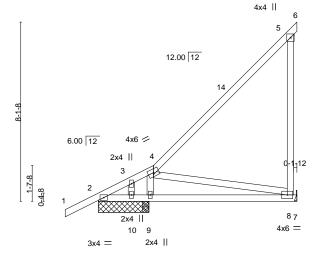
Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271011
4053706	EJ03	Jack-Closed Structural Gable	2	1	
					Inh Reference (ontional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:01 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-89pU2rUOJODNCpXyG7XcFxK86?eDYHHiBx?9pvz2mdq

1-6-0 1-6-0 2-6-0 1-6-0 1-6-0 1-0-0

Scale = 1:52.2



	2-6-0	
1-6-0	2-0-Q I	9-0-0
1-6-0	d-6-d	6-6-0
	0-6-0	

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.04	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.08	8-9	>984	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	x-MS						Weight: 57 lb	FT = 20%

LUMBER-**BRACING-**

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

2x4 SP No.3

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

except end verticals

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 2-3-8 except (jt=length) 8=Mechanical, 9=0-3-8, 9=0-3-8.

Max Horz 2=321(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2 except 8=-208(LC 12), 10=-219(LC 19), 9=-176(LC 12) Max Grav All reactions 250 lb or less at joint(s) 2, 10, 2 except 8=257(LC 19), 9=525(LC 19), 9=516(LC 1)

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

2-3=-315/119, 3-4=-407/168, 4-5=-264/114, 5-8=-185/344 TOP CHORD

**WEBS** 4-9=-351/295

### NOTES-

WFBS

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 2 except (jt=lb) 8=208, 10=219, 9=176.

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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	Ply	IC CONST STAR LAKE
					T34271012
4053706	EJ04	Jack-Closed	3	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:02 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-dMNsFBU04hLEqy68pr2ro9sLYO\_YHfprQbliMLz2mdp

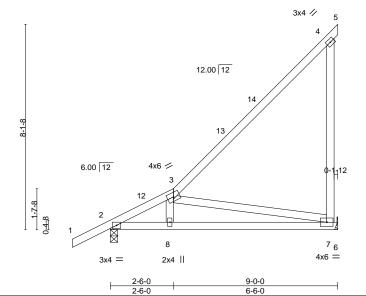
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals

2-6-0 2-6-0

Scale = 1:45.6



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	0.56	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.10	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	x-MS						Weight: 56 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 WFBS

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

Max Horz 2=286(LC 12)

Max Uplift 7=-184(LC 12), 2=-34(LC 12) Max Grav 7=361(LC 19), 2=410(LC 1)

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

TOP CHORD 2-3=-572/0, 4-7=-188/259 BOT CHORD 2-8=-206/512. 7-8=-216/504

**WEBS** 3-7=-494/200

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=184.

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

June 26,2024









4-0-0

4-0-0

2-6-0

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:02 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-dMNsFBU04hLEqy68pr2ro9sL1O04HjPrQbliMLz2mdp 8-0-8

8-0-8

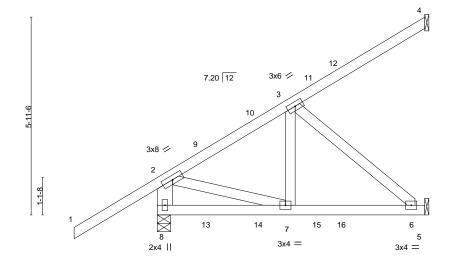
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

7-11-12

except end verticals

Scale = 1:34.6



					- 4	1-0-0		3-1	1-12	0-0-12			
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	_
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.02	6-7	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	0.22	Vert(CT)	-0.03	6-7	>999	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.00	4	n/a	n/a			
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 49 lb	FT = 20%	

**BRACING-**

TOP CHORD

BOT CHORD

4-0-0

LUMBER-

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

2x4 SP No.3 \*Except\* WFBS 2-8: 2x6 SP No.2

REACTIONS. (size) 8=0-4-13, 4=Mechanical, 5=Mechanical

Max Horz 8=221(LC 8)

Max Uplift 8=-165(LC 8), 4=-93(LC 8), 5=-171(LC 8) Max Grav 8=476(LC 35), 4=103(LC 35), 5=240(LC 35)

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

TOP CHORD 2-8=-442/178 2-3=-394/167

**BOT CHORD** 6-7=-214/254

WFBS 2-7=-179/324, 3-6=-334/282

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 8=165, 5=171.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 46 lb up at 1-6-0, 82 lb down and 68 lb up at 3-0-14, and 122 lb down and 131 lb up at 4-10-0, and 102 lb down and 126 lb up at 5-6-14 on top chord, and 12 lb down and 17 lb up at 1-6-0, 20 lb down and 21 lb up at 3-0-14, and 40 lb down and 23 lb up at 4-10-0, and 37 lb down and 30 lb up at 5-6-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-2=-54, 2-4=-54, 5-8=-20

Concentrated Loads (lb) Vert: 11=-6(F) 12=-0(B) 15=-15(F) 16=1(B) This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

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

except end verticals

Scale = 1:34.6

4-0-0 8-0-8 2-6-0 4-0-0

12 3x6 // 7.20 12 3 10 3x8 🖊 1-1-8 13 14 7 8 3x4 =2x4 || 3x4 =

1	4-0-0	7-11-12	8-Q-8
	4-0-0	3-11-12	0-0 <sup>-</sup> 12

**BRACING-**

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.04	6-7	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.04	6-7	>999	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	-0.00	4	n/a	n/a			
BCDL	10.0	Code FBC2023/T	PI2014	Matri	ix-MS	, ,					Weight: 49 lb	FT = 20%	

LUMBER-

WFBS

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

2x4 SP No.3 \*Except\* 2-8: 2x6 SP No.2

REACTIONS. (size) 8=0-4-13, 4=Mechanical, 5=Mechanical

Max Horz 8=221(LC 8)

Max Uplift 8=-165(LC 8), 4=-95(LC 8), 5=-171(LC 8) Max Grav 8=469(LC 1), 4=105(LC 35), 5=238(LC 35)

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

2-8=-446/182, 2-3=-395/172 TOP CHORD

**BOT CHORD** 6-7=-217/254

WFBS 2-7=-182/329. 3-6=-347/296

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 8=165, 5=171.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 50 lb up at 1-7-4, 82 lb down and 68 lb up at 3-0-14, and 123 lb down and 133 lb up at 4-11-4, and 102 lb down and 126 lb up at 5-6-14 on top chord, and 12 lb down and 16 lb up at 1-7-4, 20 lb down and 21 lb up at 3-0-14, and 41 lb down and 23 lb up at 4-11-4, and 37 lb down and 30 lb up at 5-6-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-2=-54, 2-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 11=-7(B) 12=-0(F) 15=-17(B) 16=1(F)

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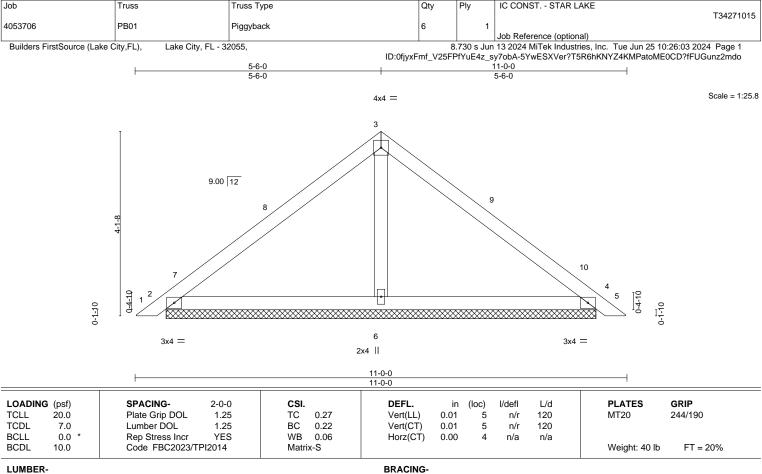
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June 26,2024



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

TOP CHORD

BOT CHORD

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

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

REACTIONS. (size) 2=9-7-5, 4=9-7-5, 6=9-7-5

Max Horz 2=-97(LC 10)

Max Uplift 2=-65(LC 12), 4=-78(LC 13), 6=-60(LC 12) Max Grav 2=204(LC 1), 4=204(LC 1), 6=350(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 5-6-0, Zone2 5-6-0 to 9-8-15, Zone1 9-8-15 to 10-8-15 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) Gable requires continuous bottom chord bearing.
- 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) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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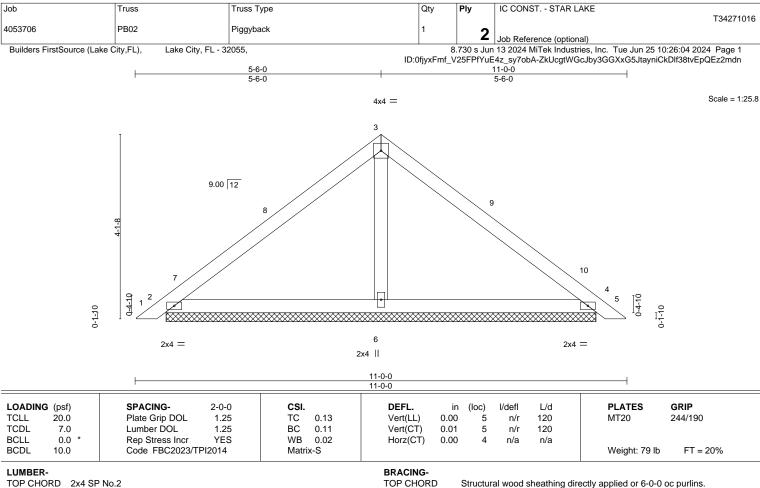
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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS** 

TOP CHORD BOT CHORD

2x4 SP No.3

(size) 2=9-7-5, 4=9-7-5, 6=9-7-5

Max Horz 2=-97(LC 10)

Max Uplift 2=-65(LC 12), 4=-78(LC 13), 6=-60(LC 12) Max Grav 2=204(LC 1), 4=204(LC 1), 6=350(LC 1)

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

### NOTES-

REACTIONS.

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 5-6-0, Zone2 5-6-0 to 9-8-15, Zone1 9-8-15 to 10-8-15 zone; C-C for members and forces & MWFRS for reactions shown; 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) Gable requires continuous bottom chord bearing.
- 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, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building

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

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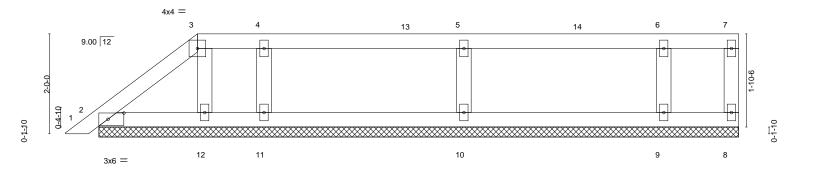
Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271017 4053706 **PB03 GABLE** Job Reference (optional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:04 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-ZkUcgtWGcJby3GGXxG5JtaynLCk5lfj8tvEpQEz2mdn

13-6-0 13-6-0

Scale = 1:23.1



-						13-6-0						
DI + 0"	. ()()()	[0 0 0 10 0 1 0]				13-0-0						
Plate Offse	ets (X,Y)	[2:0-3-13,0-1-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	-0.00	` <u>í</u>	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.12	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-S						Weight: 50 lb	FT = 20%

13-6-0

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

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

except end verticals.

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

REACTIONS. All bearings 12-9-11.

(lb) -Max Horz 2=69(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 11, 9, 12 except 10=-104(LC 9) Max Grav All reactions 250 lb or less at joint(s) 8, 2, 11, 9, 12 except 10=316(LC 1)

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

### NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 2-8-0, Zone2 2-8-0 to 6-10-15, Zone1 6-10-15 to 13-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 11, 9, 12 except (jt=lb) 10=104.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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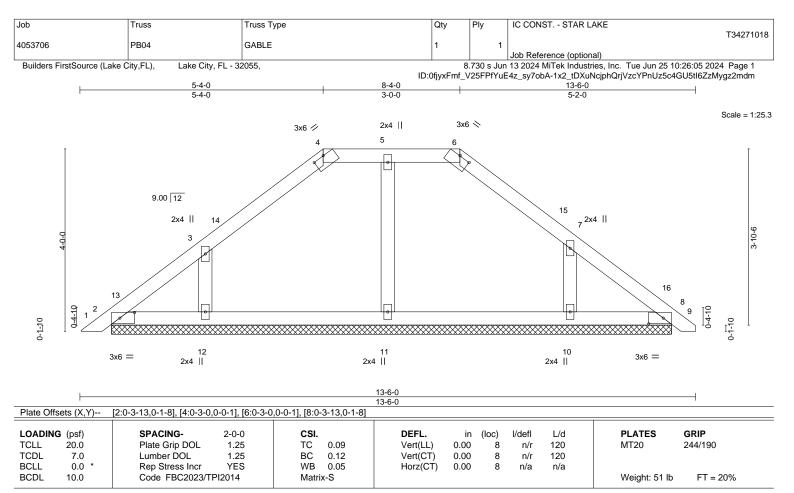
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LUMBER-TOP CHORD

OTHERS

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 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-5.

Max Horz 2=95(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 11 except 12=-143(LC 12), 10=-139(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11 except 12=253(LC 19), 10=251(LC 20)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 5-4-0, Zone3 5-4-0 to 8-4-0, Zone2 8-4-0 to 12-6-15, Zone1 12-6-15 to 13-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber 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) Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 11 except (it=lb) 12=143, 10=139,
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

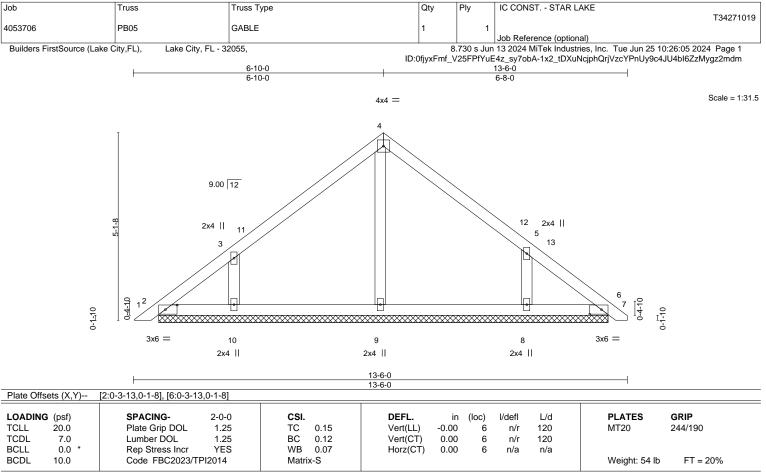
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LUMBER-TOP CHORD BOT CHORD

OTHERS

2x4 SP No 2 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 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-5.

Max Horz 2=121(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-183(LC 12), 8=-177(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=301(LC 19), 8=296(LC 20)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 6-10-0, Zone2 6-10-0 to 11-0-15, Zone1 11-0-15 to 13-4-1 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 4-0-0 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, 6 except (jt=lb)
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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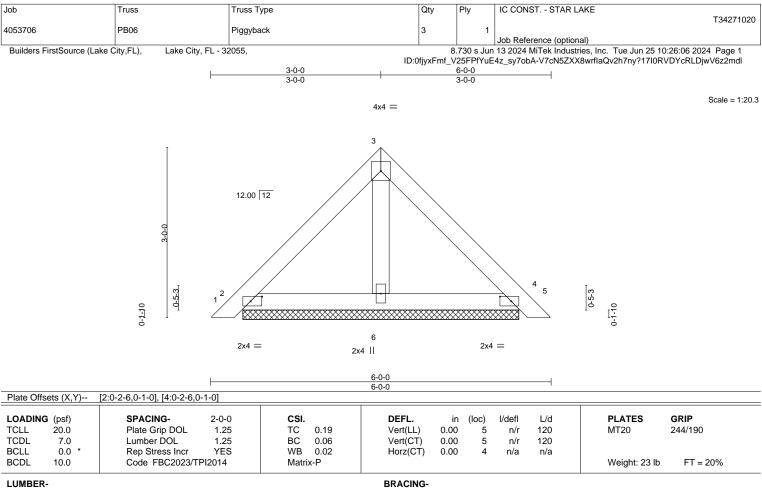
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TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

(size) 2=4-10-6, 4=4-10-6, 6=4-10-6

Max Horz 2=-69(LC 10)

Max Uplift 2=-46(LC 13), 4=-51(LC 13), 6=-7(LC 12) Max Grav 2=128(LC 1), 4=128(LC 1), 6=143(LC 3)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Gable requires continuous bottom chord bearing.
- 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) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

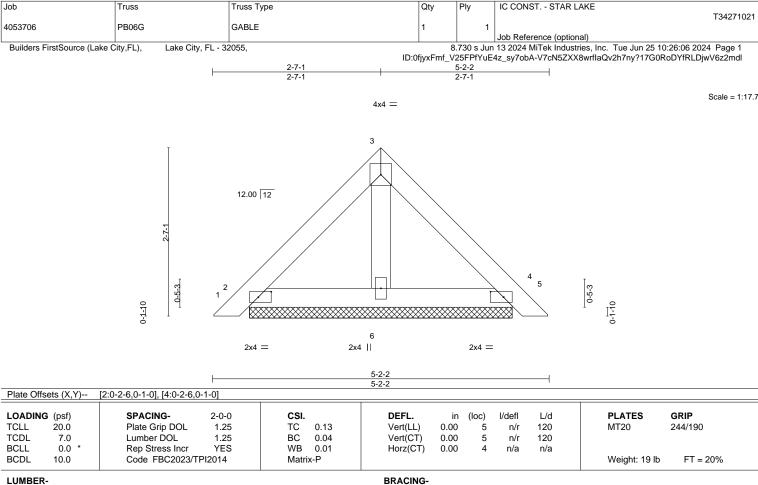
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TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

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

(size) 2=4-0-8, 4=4-0-8, 6=4-0-8

Max Horz 2=-59(LC 10)

Max Uplift 2=-39(LC 13), 4=-44(LC 13), 6=-6(LC 12) Max Grav 2=110(LC 1), 4=110(LC 1), 6=118(LC 3)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) 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, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Structural wood sheathing directly applied or 5-2-2 oc purlins.

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

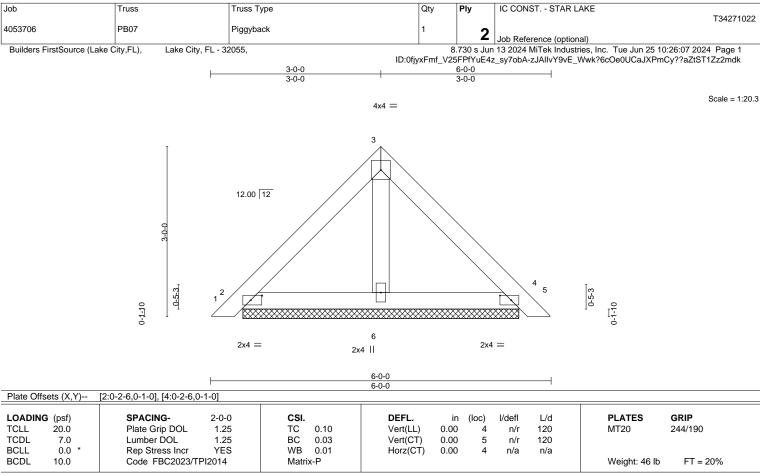
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 26,2024



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LUMBER-

**OTHERS** 

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 10-0-0 oc bracing.

REACTIONS.

(size) 2=4-10-6, 4=4-10-6, 6=4-10-6

Max Horz 2=-69(LC 10)

Max Uplift 2=-46(LC 13), 4=-51(LC 13), 6=-7(LC 12) Max Grav 2=128(LC 1), 4=128(LC 1), 6=143(LC 3)

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

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
  - Bottom chords connected as follows: 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; 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) Gable requires continuous bottom chord bearing.
- 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, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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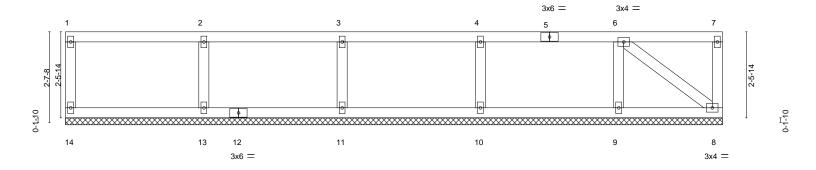
Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271023 4053706 **PB08 GABLE** Job Reference (optional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:07 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-zJAllvY9vE\_Wwk?6cOe0UCalcPlmy\_5aZtST1Zz2mdk

19-0-0 19-0-0

Scale = 1:33.3



			9-0-0 9-0-0	
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.15	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999	PLATES GRIP MT20 244/190
TCDL 7.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.12 WB 0.07	Vert(CT) n/a - n/a 999 Horz(CT) 0.00 8 n/a n/a	W1120 244/190
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	11012(01) 0.00 0 11/4 11/4	Weight: 78 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals 2x4 SP No.3 **BOT CHORD** WFBS Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-0-0.

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) 14, 8, 11, 10, 9 except 13=-103(LC 8) All reactions 250 lb or less at joint(s) 14, 8 except 13=315(LC 1), 11=290(LC 1), 10=303(LC 1), 9=268(LC 1)

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

# NOTES-

OTHERS

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8, 11, 10, 9 except (jt=lb) 13=103.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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June 26,2024



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Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271024 4053706 PB09 **GABLE** Job Reference (optional)

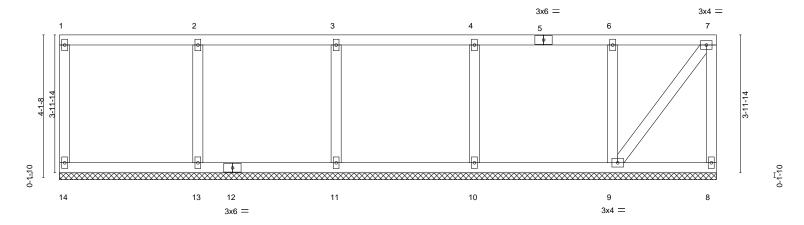
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:08 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-RVk7WFZngX6NYtaIA59F1Q6TLp5?hRHkoWC1Z?z2mdj

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

19-0-0 19-0-0

Scale = 1:33.3



19-0-0 19-0-0								
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.16 BC 0.12 WB 0.07 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 8	I/defl L/d n/a 999 n/a 999 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 93 lb         FT = 20%		

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals 2x4 SP No.3 **BOT CHORD** WFBS

OTHERS 2x4 SP No.3

REACTIONS. All bearings 19-0-0. Max Uplift All uplift 100 lb or less at joint(s) 14, 8, 11, 10, 9 except 13=-104(LC 8) Max Grav All reactions 250 lb or less at joint(s) 14, 8 except 13=317(LC 1), 11=289(LC 1), 10=303(LC 1), 9=270(LC 1)

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

### NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8, 11, 10, 9 except (jt=lb) 13=104.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271025 PB10 **GABLE** 4053706 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:08 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-RVk7WFZngX6NYtaIA59F1Q6TKp41hR5koWC1Z?z2mdj 19-0-0 19-0-0 Scale = 1:33.3 5x6 =3x4 =2 3 4 5 6 4-4-12 4-6-6 13 12 11 10 9 8 3x4 = 3x6 =19-0-0 19-0-0 Plate Offsets (X,Y)--[4:0-3-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** Plate Grip DOL 1.25 TC 0.16 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.18 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.08 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-S Weight: 97 lb FT = 20% LUMBER-**BRACING-**

BOT CHORD

TOP CHORD **BOT CHORD** 

2x4 SP No 2 2x4 SP No.2

2x4 SP No.3 WFBS **OTHERS** 2x4 SP No.3 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 19-0-0.

(lb) -Max Uplift All uplift 100 lb or less at joint(s) 13, 7, 10, 9, 8 except 12=-104(LC 8) Max Grav All reactions 250 lb or less at joint(s) 13, 7 except 12=404(LC 2), 10=367(LC 2), 9=387(LC 2), 8=318(LC 2)

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

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7, 10, 9, 8 except (it=lb) 12=104.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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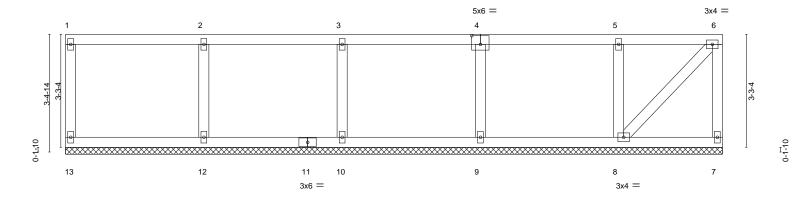
Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271026 4053706 PB11 **GABLE** Job Reference (optional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:09 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-viIVjbaPRrEE918UkpgUadfe5DREQuat1Axa6Rz2mdi

19-0-0 19-0-0

Scale = 1:33.3



1	19-0-0	
Г	19-0-0	
e Off	fsets (X Y) [4:0-3-0 0-3-0]	

Plate Offsets (X,Y)	[4:0-3-0,0-3-0]										
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2023/TF	2-0-0 1.25 1.25 YES Pl2014	CSI. TC BC WB Matrix	0.16 0.12 0.07 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 86 lb	<b>GRIP</b> 244/190 FT = 20%

**BRACING-**

BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS **OTHERS** 2x4 SP No.3 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. All bearings 19-0-0.

2x4 SP No 2

(lb) -Max Uplift All uplift 100 lb or less at joint(s) 13, 7, 10, 9, 8 except 12=-103(LC 8) Max Grav All reactions 250 lb or less at joint(s) 13, 7 except 12=316(LC 1), 10=290(LC 1), 9=303(LC 1),

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

# NOTES-

LUMBER-

TOP CHORD

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7, 10, 9, 8 except (it=lb) 12=103.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271027 4053706 PB12 **GABLE** Job Reference (optional)

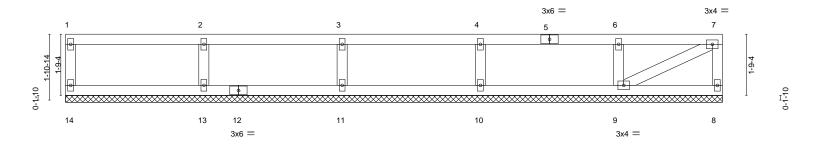
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:10 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-Ourtwwb1B9M5nBjgHWBj6rBptdnT9Lr1Gqh7etz2mdh

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

19-0-0 19-0-0

Scale = 1:33.3



	19-0-0									
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.15 BC 0.12 WB 0.07 Matrix-S	DEFL. Vert(LL) n. Vert(CT) n. Horz(CT) 0.0	/a -	I/defI n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 71 lb	<b>GRIP</b> 244/190 FT = 20%		

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals 2x4 SP No.3 **BOT CHORD** WFBS

OTHERS 2x4 SP No.3

REACTIONS. All bearings 19-0-0. Max Uplift All uplift 100 lb or less at joint(s) 14, 8, 11, 10, 9 except 13=-103(LC 8) All reactions 250 lb or less at joint(s) 14, 8 except 13=314(LC 1), 11=290(LC 1), 10=303(LC 1),

9=267(LC 1)

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

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 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 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8, 11, 10, 9 except (jt=lb) 13=103.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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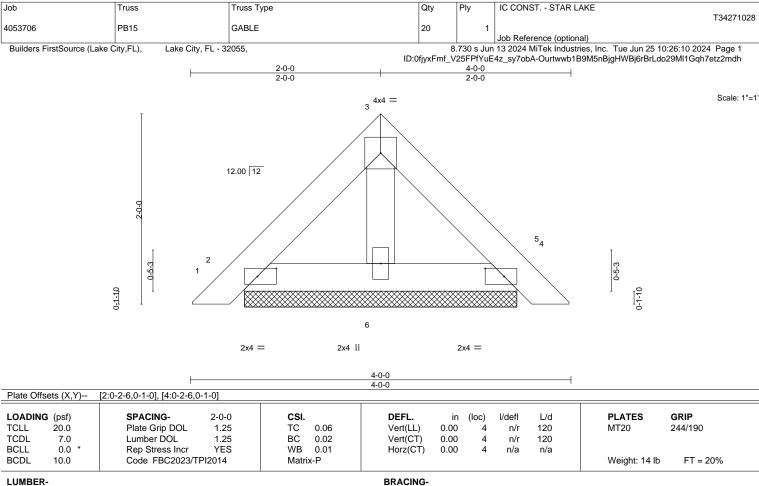
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 26,2024



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





TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

**OTHERS** 

REACTIONS.

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

2x4 SP No 3

(size) 2=2-10-6, 4=2-10-6, 6=2-10-6

Max Horz 2=-44(LC 10)

Max Uplift 2=-30(LC 12), 4=-35(LC 13), 6=-3(LC 12) Max Grav 2=84(LC 1), 4=84(LC 1), 6=83(LC 3)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 0-2-10 to 2-0-0, Zone3 2-0-0 to 3-9-6 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, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

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

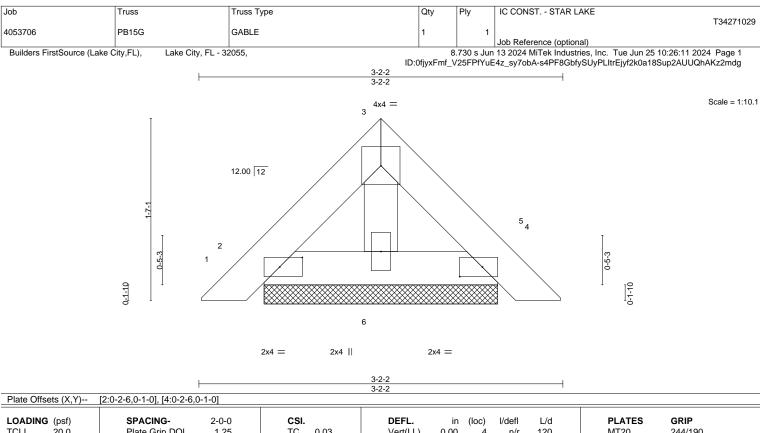
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June 26,2024









LOADIN	VI /	SPACING-	2-0-0	CSI.	0.00	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	10	0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-P						Weight: 11 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

WFBS

2x4 SP No 2 2x4 SP No 2

2x4 SP No.3

(size) 2=2-0-8, 4=2-0-8, 6=2-0-8

Max Horz 2=-34(LC 10)

Max Uplift 2=-25(LC 12), 4=-28(LC 13), 6=-1(LC 12) Max Grav 2=66(LC 1), 4=66(LC 1), 6=59(LC 3)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 0-2-10 to 1-7-1, Zone3 1-7-1 to 2-11-8 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, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

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June 26,2024

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



Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271030
4053706	PB16	Piggyback	3	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:11 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-s4PF8GbfySUyPLltrEjyf2k0P18lup7AUUQhAKz2mdg

Structural wood sheathing directly applied or 2-1-8 oc purlins,

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

except end verticals.

Scale = 1:12.2

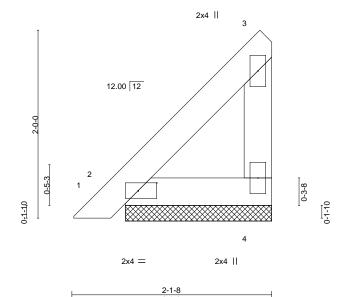


Plate Offsets (X,Y)--[2:0-2-6,0-1-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.25 TC 0.04 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL вс Vert(CT) 7.0 Lumber DOL 1.25 0.02 -0.00 n/r 120 0.0 WB **BCLL** Rep Stress Incr YES 0.00 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-P Weight: 8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 2x4 SP No 2

TOP CHORD BOT CHORD 2x4 SP No.3 WFBS

REACTIONS. (size) 4=1-6-10, 2=1-6-10 Max Horz 2=66(LC 12)

Max Uplift 4=-46(LC 12) Max Grav 4=58(LC 19), 2=73(LC 1)

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

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 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) Gable requires continuous bottom chord bearing.
- 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.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271031
4053706	PB17	Piggyback	3	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

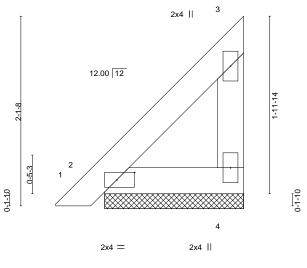
8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:11 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-s4PF8GbfySUyPLltrEjyf2k0F18lup7AUUQhAKz2mdg

Structural wood sheathing directly applied or 2-1-8 oc purlins,

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

except end verticals.

Scale = 1:12.9



2-1-8

Plate Offsets (X,Y)	[2:0-2-6,0-1-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.05	Vert(LL) -0.00 1 n/r 120	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.02	Vert(CT) 0.00 1 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P		Weight: 9 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x4 SP No.3 WFBS

REACTIONS. (size) 4=1-6-10, 2=1-6-10 Max Horz 2=66(LC 12)

Max Uplift 4=-46(LC 12)

Max Grav 4=58(LC 19), 2=73(LC 1)

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

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Gable requires continuous bottom chord bearing.
- 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.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271032 4053706 PB18 Piggyback Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:12 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-KHzeLccHjmcp0Vt3PxEBBGH8wQT1dGgKj8AEimz2mdf Scale = 1:11.5 4x4 = 2x4 || 3 4 12.00 12 1-5-14 6 5 2x4 =2x4 | 2x4 Plate Offsets (X,Y)--[2:0-2-6,0-1-0], [3:0-2-8,0-2-0] LOADING (psf) SPACING-CSI. DEFL. I/defI L/d **PLATES** GRIP **TCLL** Plate Grip DOL 1.25 TC 0.25 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL вс 7.0 Lumber DOL 1.25 0.12 Vert(CT) -0.00 n/r 120 0.0 WB **BCLL** Rep Stress Incr YES 0.04 Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-P Weight: 20 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, BOT CHORD 2x4 SP No 2 except end verticals.

BOT CHORD

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

WFBS 2x4 SP No.3

> 5=5-2-2, 2=5-2-2, 6=5-2-2 (size)

Max Horz 2=55(LC 12)

Max Uplift 5=-51(LC 8), 2=-13(LC 12), 6=-47(LC 9) Max Grav 5=138(LC 1), 2=55(LC 1), 6=198(LC 1)

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

# NOTES-

REACTIONS.

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 0-2-10 to 1-7-8, Zone3 1-7-8 to 5-7-4 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) Gable requires continuous bottom chord bearing.
- 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) 5, 2, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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June 26,2024



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



Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271033 4053706 T01 14 Attic Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:13 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-oTX0ZydwU4kgefSFzflQkTpEqqhnMZZTyovoFCz2mde 15-2-10 14-7<sub>1</sub>9 0-7-9 10-0-0 1-6-0 3-3-0 5-10-4 8-9-6 14-0-0 20-9-0 24-0-0 25-6-0 2-7-4 2-11-2 0-7-0 2-11-2 5x6 = 0-7-9 Scale: 3/16"=1" 5x8 = 3x4 = $\bowtie$  <sup>24</sup>  $\bowtie$ 3x4 =5 12.00 12 16 17 2x 3x10 || Bracing 3x10 || 7x8 // 9-1-2 7x8 📏 10 26 12-0-0 12 H 14 15 13 6x8 =4x8 8x10 = 6x8 = 4x8 || 5-10-4 9-9-0 14-3-0 18-1-12 24-0-0 5-10-4 5-10-4 3-10-12 4-6-0 3-10-12 Plate Offsets (X,Y)--[3:0-4-0,0-4-8], [6:0-6-4,0-1-12], [7:0-4-4,0-1-12], [10:0-4-0,0-4-8], [13:0-3-8,0-4-8], [15:0-3-8,0-5-12] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) L/d **PLATES GRIP** 

Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**

TOP CHORD

BOT CHORD

Attic

WEBS

-0.38 13-15

-0.64 13-15

-0.23 13-15

0.02

>754

>452

n/a

638

1 Row at midpt

240

180

n/a

360

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

5-8

2-0-0 oc purlins (10-0-0 max.): 6-7.

MT20

Structural wood sheathing directly applied or 5-1-5 oc purlins, except

Weight: 204 lb

244/190

FT = 20%

LUMBER-

**TCLL** 

**TCDL** 

**BCLL** 

BCDL

TOP CHORD 2x6 SP M 26 \*Except\*

6-7: 2x4 SP No.2, 1-3,10-12: 2x6 SP No.2

**BOT CHORD** 2x8 SP 2400F 2.0E

**WEBS** 2x4 SP No.3

20.0

7.0

0.0

10.0

WEDGE

Left: 2x6 SP No.2 , Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=-284(LC 10)

Max Uplift 2=-60(LC 12), 11=-60(LC 13)

Max Grav 2=1443(LC 2), 11=1443(LC 2)

Plate Grip DOL

Rep Stress Incr

Code FBC2023/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-1848/32, 3-4=-1800/54, 4-5=-947/152, 5-6=0/553, 6-7=-48/1043, 7-8=0/585,

1.25

1.25

YES

TC

BC

WB

Matrix-MS

0.56

0.53

0.64

8-9=-948/152, 9-10=-1798/54, 10-11=-1846/31 2-15=-59/1369, 13-15=0/1082, 11-13=0/1250

**WEBS** 3-15=-475/221, 4-15=0/1211, 5-16=-2011/215, 16-17=-1996/216, 8-17=-2041/220,

9-13=0/1208, 10-13=-474/222

# NOTES-

**BOT CHORD** 

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-3-14 to 1-8-2, Zone1 1-8-2 to 10-0-0, Zone3 10-0-0 to 14-0-0, Zone2 14-0-0 to 18-1-15, Zone1 18-1-15 to 25-3-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s), 4-5, 8-9, 5-16, 16-17, 8-17; Wall dead load (5.0 psf) on member(s), 4-15, 9-13
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Attic room checked for L/360 deflection.

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June 26,2024



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Job	)	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
						T34271034
405	53706	T01G	GABLE	1	1	
						Job Reference (optional)

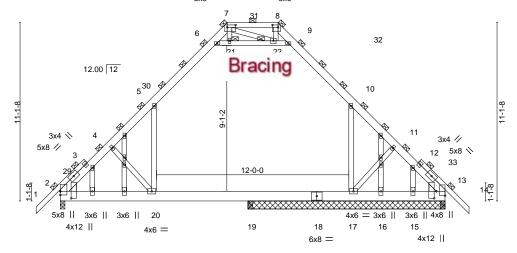
Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:13 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-oTX0ZydwU4kgefSFzflQkTpHaqlnMilTyovoFCz2mde



Scale = 1:71.9



1	5-10-4	9-9-0	11-8-8	14-3-0	18-1-12	24-0-0	
ſ	5-10-4	3-10-12	1-11-8	2-6-8	3-10-12	5-10-4	

Plate Offsets (X,Y)				
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 0.38	Vert(LL) 0.09 20 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.28	Vert(CT) -0.16 20 >880 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) -0.01 19 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Attic -0.08 19-20 1800 360	Weight: 219 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

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

1 Brace at Jt(s): 7, 8, 21, 22

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

LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\* 2-7,8-13: 2x6 SP No.2

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

WEDGE

Left: 2x6 SP No.2 , Right: 2x6 SP No.2

**REACTIONS.** All bearings 0-3-8 except (jt=length) 17=12-3-8, 15=12-3-8, 16=12-3-8.

(lb) - Max Horz 2=-286(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 15, 16, 19 except 17=-222(LC

8

Max Grav All reactions 250 lb or less at joint(s) 15, 16 except 2=847(LC 1), 13=697(LC 1), 17=531(LC 21), 19=1156(LC 20)

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

TOP CHORD 2-4=-762/34, 4-5=-675/55, 5-6=-532/132, 9-10=-540/166, 10-11=-677/144,

11-13=-760/126

BOT CHORD 2-20=-127/723, 19-20=-82/487, 17-19=-82/487, 16-17=-81/550, 15-16=-81/550,

13-15=-85/557

WEBS 4-20=-379/187, 6-21=-482/205, 21-22=-478/206, 9-22=-616/298

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-4-15, Zone3 10-4-15 to 13-7-1, Zone2 13-7-1 to 17-10-0, Zone1 17-10-0 to 25-6-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-21, 21-22, 9-22; Wall dead load (5.0 psf) on member(s).5-20, 10-17
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 17-19

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

June 26,2024

Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271034
4053706	T01G	GABLE	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:14 2024 Page 2 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-Gf5OmleYFNsXGo1SWMGfHhMSKE5059?cASfLnfz2mdd

#### NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 15, 16, 19 except (jt=lb) 17=222.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.



Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271035 4053706 T01GG Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:14 2024 Page 1

ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-Gf5OmleYFNsXGo1SWMGfHhMV\_E9l59NcASfLnfz2mdd <del>-1-6-0</del> <del>1-6-0</del> 12-0-0 13-6-0 6-0-0 6-0-0 1-6-0

> Scale = 1:44.2 5x6 =

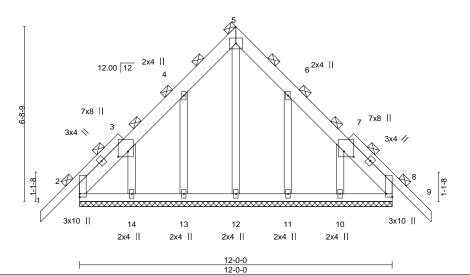


Plate Offsets (X,Y)--[3:0-2-8,0-4-8], [7:0-2-8,0-4-8], [8:Edge,0-2-11] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.25 TC 0.15 Vert(LL) -0.01 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.04 Vert(CT) -0.01 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.10 Horz(CT) 0.00 8 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-S Weight: 98 lb FT = 20%

LUMBER-BRACING-

2x6 SP No.2 \*Except\* TOP CHORD TOP CHORD 2-0-0 oc purlins (6-0-0 max.).

**BOT CHORD** 1-3,7-9: 2x4 SP No.2 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 12-0-0.

(lb) -Max Horz 2=-172(LC 10) Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=-115(LC 12), 14=-146(LC 12), 11=-113(LC 13),

10=-138(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable 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 except (jt=lb) 13=115, 14=146, 11=113, 10=138.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

June 26,2024



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



Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271036 4053706 T02 5 Attic Job Reference (optional)

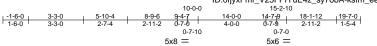
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:15 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-ksfm\_eeA0h\_Otyce44nupuvWjeMiqXEmP6OuJ5z2mdc

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.

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



Scale = 1:67.9

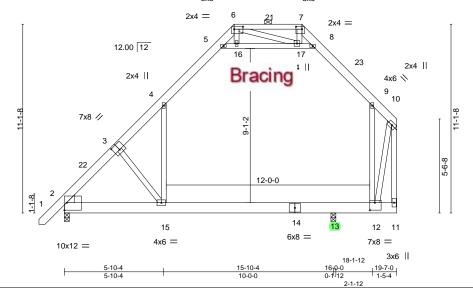


Plate Off	late Offsets (x,Y) [2:Edge,U-5-4], [3:U-4-U,U-4-8], [6:U-6-4,U-1-12], [7:U-4-4,U-1-12], [12:U-3-8,U-5-4]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.28 13-15	>680	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	0.63	Vert(CT)	-0.52 13-15	>368	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05 2	n/a	n/a			
BCDL	10.0	Code FBC2023/TPI2	2014	Matri	x-MS	Attic	-0.07 12-13	836	360	Weight: 179 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.2 \*Except\* 6-7: 2x4 SP No.2

**BOT CHORD** 2x8 SP 2400F 2.0E

**WEBS** 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2

REACTIONS.

(size) 2=0-3-8, 13=0-3-8 Max Horz 2=314(LC 12) Max Uplift 2=-54(LC 12)

Max Grav 2=849(LC 28), 13=1707(LC 2)

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

TOP CHORD  $2 - 3 = -643/28, \ 3 - 4 = -605/52, \ 4 - 5 = -342/140, \ 5 - 6 = -349/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 6 - 7 = -268/198, \ 7 - 8 = -333/103, \ 7 - 8$ 

8-9=-463/144, 10-11=-1016/197

**BOT CHORD** 2-15=-166/570, 13-15=-45/278, 12-13=-45/278

WEBS 4-15=-168/399, 8-17=-429/195, 9-12=-914/165, 10-12=-203/1177, 3-15=-479/213,

6-17=-386/132

# NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-3-14 to 1-8-2, Zone1 1-8-2 to 10-0-0, Zone3 10-0-0 to 14-0-0, Zone2 14-0-0 to 18-1-15, Zone1 18-1-15 to 19-5-4 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-16, 16-17, 8-17; Wall dead load (5.0 psf) on member(s). 4-15, 9-12
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15, 12-13
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.

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

June 26,2024

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



 Job
 Truss
 Truss Type
 Qty
 Ply
 IC CONST. - STAR LAKE
 T34271037

 4053706
 T03
 Attic Girder
 1
 1
 1
 Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:16 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-C2D8B\_fon?6FV6BqenI7M6RiD2j1Zscvem8SrXz2mdb

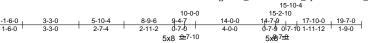
Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.

9-14

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

1 Row at midpt



Scale = 1:66.6

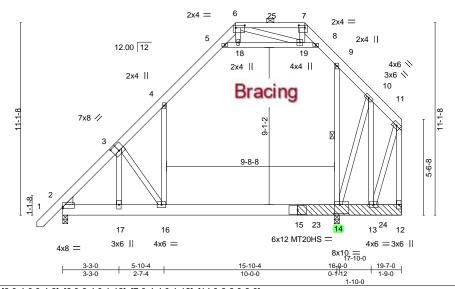


Plate Off	late Offsets (X,Y) [2:0-0-0,0-1-0], [3:0-4-0,0-4-8], [6:0-6-4,0-1-12], [7:0-4-4,0-1-12], [14:0-3-8,0-6-0]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.20 14-16	>947	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	0.56	Vert(CT)	-0.37 14-16	>509	180	MT20HS	187/143	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.03 2	n/a	n/a			
BCDL	10.0	Code FBC2023/TPI2	2014	Matri	x-MS	Attic	-0.11 14-16	1132	360	Weight: 224 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2 \*Except\* 6-7: 2x4 SP No.2

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

LBR SCAB 12-15 2x8 SP 2400F 2.0E one side

WEDGE

Left: 2x6 SP No.2

**REACTIONS.** (size) 2=0-3-8, 14=0-3-8

Max Horz 2=314(LC 8)

Max Uplift 2=-90(LC 30), 14=-319(LC 8) Max Grav 2=890(LC 16), 14=2889(LC 2)

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

TOP CHORD 2-3=-948/66, 3-4=-711/117, 4-5=-425/165, 5-6=-285/117, 6-7=-74/269, 7-8=-261/127,

8-9=-415/165, 9-10=-387/245, 11-12=-287/161 BOT CHORD 2-17=-253/775, 16-17=-260/798, 14-16=-91/389

WEBS 3-17=-279/723, 3-16=-778/354, 4-16=-306/282, 5-18=-412/375, 18-19=-407/376, 8-19=-631/258, 10-13=-1228/298, 6-19=-429/175, 9-14=-794/156, 10-14=-218/1186

# NOTES-

- 1) Attached 6-0-0 scab 12 to 15, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except: starting at 0-0-0 from end at joint 15, nail 3 row(s) at 2" o.c. for 5-10-4.
- 2) Unbalanced roof live loads have been considered for this design
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-18, 18-19, 8-19; Wall dead load (5.0 psf) on member(s).4-16, 9-14
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 14=319.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1247 lb down and 290 lb up at

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June 26,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271037
4053706	T03	Attic Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:16 2024 Page 2 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-C2D8B\_fon?6FV6BqenI7M6RiD2j1Zscvem8SrXz2mdb

#### NOTES-

14) Attic room checked for L/360 deflection.

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

# LOAD CASE(S) Standard

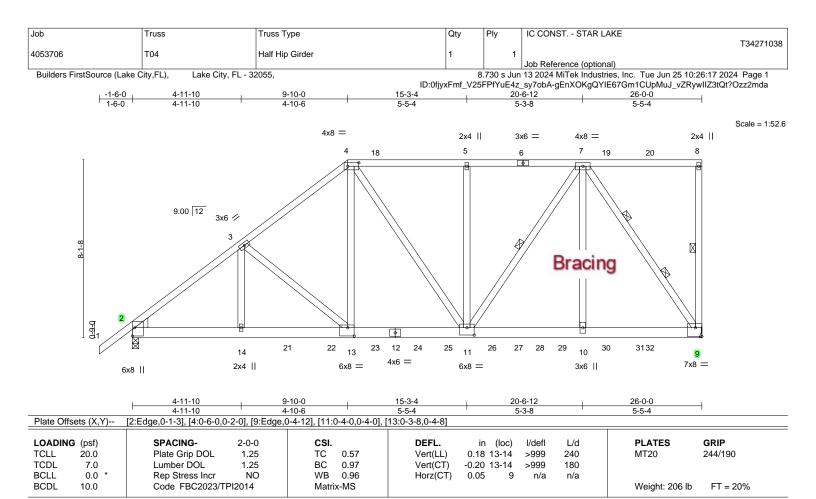
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-64, 5-6=-54, 6-7=-54, 7-8=-54, 8-9=-64, 9-11=-54, 16-20=-20, 14-16=-40, 12-14=-20, 5-8=-10

Drag: 4-16=-10, 9-14=-10

Concentrated Loads (lb) Vert: 13=-1058(F)





TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

WEBS 2x4 SP No.3 WEDGE

Left: 2x6 SP No.2

REACTIONS.

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

Max Horz 2=323(LC 29)

Max Uplift 9=-1752(LC 5), 2=-1262(LC 8) Max Grav 9=2681(LC 35), 2=2296(LC 35)

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

TOP CHORD 2-3=-3146/1829, 3-4=-2747/1718, 4-5=-2251/1433, 5-7=-2251/1433

BOT CHORD 2-14=-1653/2511, 13-14=-1653/2511, 11-13=-1447/2182, 10-11=-951/1506,

9-10=-951/1506

WEBS 3-14=-116/284, 3-13=-454/287, 4-13=-853/1271, 4-11=-168/319, 5-11=-304/175,

7-11=-865/1320, 7-10=-480/880, 7-9=-2654/1673

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1752, 2=1262.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 91 lb down and 82 lb up at 11-0-12, 91 lb down and 82 lb up at 21-7-4, and 91 lb down and 82 lb up at 23-7-4, and 80 lb down and 83 lb up at 25-10-4 on top chord, and 467 lb down and 390 lb up at 7-0-12, 238 lb down and 259 lb up at 9-0-12, 161 lb down and 161 lb up at 11-0-12, 215 lb down and 228 lb up at 12-4-12, 312 lb down and 204 lb up at 14-4-12, 312 lb down and 204 lb up at 16-4-12, 312 lb down and 204 lb up at 17-7-4, 215 lb down and 228 lb up at 19-7-4, 161 lb down and 161 lb up at 21-7-4, and 161 lb down and 161 lb up at 23-7-4, and 168 lb down and 154 lb up at 25-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Structural wood sheathing directly applied or 3-0-6 oc purlins,

7-9

8-9, 7-11

Rigid ceiling directly applied or 5-1-14 oc bracing.

except end verticals.

1 Row at midpt

2 Rows at 1/3 pts

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

June 26,2024

#### (LOMA) LOCAS E(S) de Standard

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



Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271038
4053706	T04	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:17 2024 Page 2 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-gEnXOKgQYIE67Gm1CUpMuJ\_vZRywIIZ3tQt?Ozz2mda

#### LOAD CASE(S) Standard

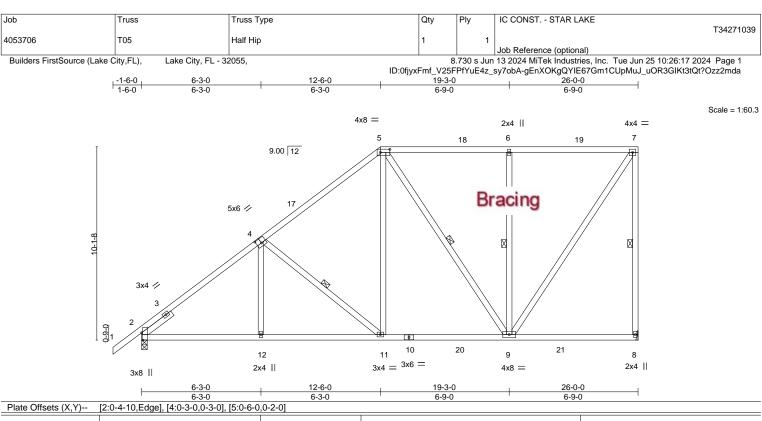
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf) Vert: 1-4=-54, 4-8=-54, 9-15=-20

Concentrated Loads (lb)

 $Vert: 8 = -46(\mathring{F}) \stackrel{'}{9} = -144(F) \ 18 = -26(F) \ 19 = -26(F) \ 20 = -26(F) \ 21 = -454(F) \ 22 = -210(F) \ 23 = -136(F) \ 24 = -200(F) \ 25 = -305(F) \ 26 = -305(F) \ 27 = -305(F) \ 29 = -200(F) \ 30 = -136(F) \ 20 = -200(F) \ 30 = -136(F) \ 20 = -200(F) \ 30 = -136(F) \ 30 = -136(F)$ 32=-136(F)





TOP CHORD

**BOT CHORD** 

WEBS

LOADING TCLL	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.58	DEFL. Vert(LL)	in -0.09	(loc) 8-9	l/defl >999	L/d 240
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.15	8-9	>999	180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.03	8	n/a	n/a
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS					

**PLATES GRIP** MT20 244/190

Structural wood sheathing directly applied or 4-9-7 oc purlins,

7-8, 4-11, 5-9, 6-9

Rigid ceiling directly applied or 8-3-0 oc bracing.

except end verticals.

1 Row at midpt

Weight: 183 lb FT = 20%

LUMBER-

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

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

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

Max Horz 2=401(LC 12)

Max Uplift 8=-303(LC 9), 2=-265(LC 12) Max Grav 8=1108(LC 2), 2=1137(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1333/293, 4-5=-996/272, 5-6=-581/184, 6-7=-581/184, 7-8=-972/318

BOT CHORD 2-12=-499/1079 11-12=-498/1081 9-11=-289/733

**WEBS** 4-11=-482/268, 5-11=-124/568, 5-9=-349/187, 6-9=-416/244, 7-9=-329/1027

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 25-10-4 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, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=303, 2=265.

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

June 26,2024



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



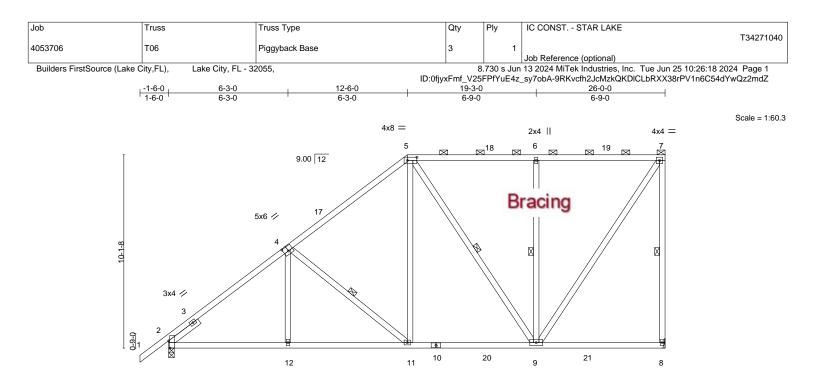


Plate Offsets (X,Y)	[2:0-4-10,Edge], [4:0-3-0	,0-3-0], [5:0-6-0	),0-2-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.09	8-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	ВС	0.56	Vert(CT)	-0.15	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.03	8	n/a	n/a		
BCDL 10.0	Code FBC2023/T	PI2014	Matri	x-MS	` ′					Weight: 183 lb	FT = 20%

3x4 =

3x6 =

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

19-3-0

4x8 =

1 Row at midpt

26-0-0

6-9-0

Structural wood sheathing directly applied or 4-9-7 oc purlins,

7-8, 4-11, 5-9, 6-9

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.

Rigid ceiling directly applied or 8-3-0 oc bracing

LUMBER-

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

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

REACTIONS.

(size) 8=Mechanical, 2=0-3-8 Max Horz 2=401(LC 12)

3x8 |

Max Uplift 8=-303(LC 9), 2=-265(LC 12) Max Grav 8=1108(LC 2), 2=1137(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1333/293, 4-5=-996/272, 5-6=-581/184, 6-7=-581/184, 7-8=-972/318

6-3-0

6-3-0

2-12=-499/1079, 11-12=-498/1081, 9-11=-289/733 BOT CHORD

**WEBS** 4-11=-482/268, 5-11=-124/568, 5-9=-349/187, 6-9=-425/244, 7-9=-329/1027

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 25-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2x4 ||

12-6-0

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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2x4 ||

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June 26,2024







Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271041 4053706 T07 Half Hip Girder Job Reference (optional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:18 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-9RKvcfh2JcMzkQKDlCLbRXX82rWk1wxC54dYwQz2mdZ

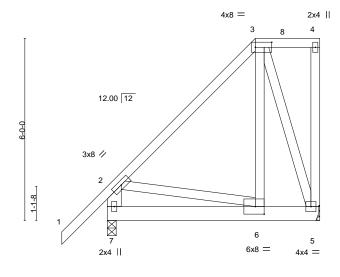
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

4-10-8 7-0-0 4-10-8 2-1-8

Scale = 1:38.0



4-10-8	7-0-0
4-10-8	2-1-8

**BRACING-**

TOP CHORD

BOT CHORD

Plate Of	fsets (X,Y)	[3:0-6-8,0-2-0], [6:0-3-8,0	)-3-0]									
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.10	Vert(CT)	-0.01	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.31	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 65 lb	FT = 20%

LUMBER-TOP CHORD 2x4 SP No 2

2x6 SP No.2 **BOT CHORD** 

**WEBS** 2x4 SP No.3 \*Except\* 2-7: 2x6 SP No.2

REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=227(LC 8) Max Uplift 7=-123(LC 8), 5=-370(LC 8) Max Grav 7=443(LC 1), 5=500(LC 35)

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

TOP CHORD 2-3=-301/106, 2-7=-386/132

**BOT CHORD** 6-7=-292/171

**WEBS** 3-6=-258/414, 3-5=-493/378, 2-6=-180/310

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 59 lb up at 4-10-8 on top chord, and 216 lb down and 196 lb up at 4-10-8, and 161 lb down and 112 lb up at 5-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

# LOAD CASE(S) Standard

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

Vert: 1-2=-54, 2-3=-54, 3-4=-54, 5-7=-20

Concentrated Loads (lb)

Vert: 3=-20(B) 6=-313(B)

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

June 26,2024

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



Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271042
4053706	T08	Half Hip	1	1	
					Job Reference (optional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:19 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-dduHp?ih4wUpMavPJvsq\_k3EWFs1mOuMKkM6Ssz2mdY

> Scale = 1:46.5 3x6 //

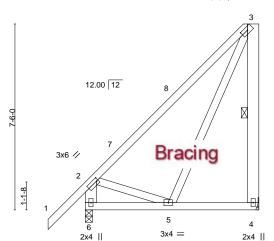




Plate Off	sets (X,Y)	[2:0-0-12,0-1-8], [3:0-3-5,	0-1-8]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.09	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 62 lb	FT = 20%

LUMBER-

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

BOT CHORD 2x6 SP No.2 \*Except\* WFBS

3-5,2-5: 2x4 SP No.3

**BRACING-**

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

except end verticals.

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

**WEBS** 1 Row at midpt

REACTIONS.

(size) 4=Mechanical, 6=0-3-8 Max Horz 6=296(LC 12) Max Uplift 4=-239(LC 12)

Max Grav 4=278(LC 19), 6=348(LC 1)

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

TOP CHORD 3-4=-244/370, 2-6=-318/85

**BOT CHORD** 5-6=-687/398 **WEBS** 2-5=-326/623

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-9-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=239.

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June 26,2024







Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271043
4053706	T09	Common	5	1	
					Job Reference (optional)

4x4 =

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:19 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-dduHp?ih4wUpMavPJvsq\_k3HdFp3mQMMKkM6Ssz2mdY 1-6-0 6-0-0 12-0-0 13-6-0 6-0-0 1-6-0

Scale = 1:60.1

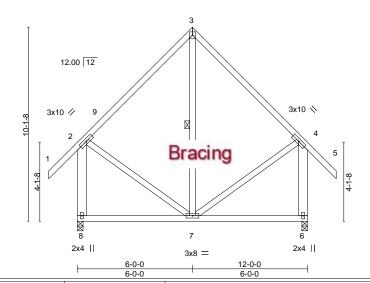
Structural wood sheathing directly applied or 6-0-0 oc purlins,

3-7

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

except end verticals.

1 Row at midpt



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	x-MS						Weight: 102 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

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

2-8,4-6: 2x6 SP No.2

REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=330(LC 11)

Max Uplift 8=-122(LC 13), 6=-122(LC 12) Max Grav 8=520(LC 1), 6=520(LC 1)

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

TOP CHORD 2-3=-309/196, 3-4=-309/218, 2-8=-469/280, 4-6=-469/288

**BOT CHORD** 7-8=-308/306

# NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-6-0 zone; end vertical 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) 8=122, 6=122.

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

June 26,2024



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



Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271044
4053706	T09G	Common Supported Gable	1	1	
					Job Reference (optional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:20 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-5pSf1LiJrDcg\_jUbtdN3WycU0fBiVs5VZO6f\_Iz2mdX 6-0-0 12-0-0 13-6-0 6-0-0 6-0-0 1-6-0

> Scale = 1:60.0 4x4 =

> > 2-0-0 oc purlins (6-0-0 max.), except end verticals.

6-15

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

1 Row at midpt

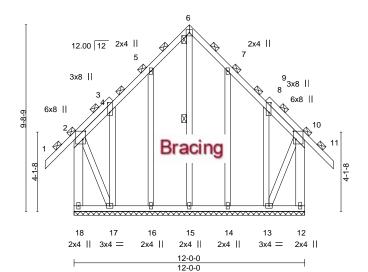


Plate Offsets (X,Y)-- [2:0-5-0,0-1-8], [3:0-6-0,0-1-4], [9:0-6-0,0-1-4], [10:0-5-0,0-1-8]

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.02	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TI	PI2014	Matri	x-S						Weight: 136 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

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

2x6 SP No.2 \*Except\* **WEBS** 2-17,10-13: 2x4 SP No.3

**OTHERS** 2x4 SP No.3

REACTIONS. All bearings 12-0-0.

Max Horz 18=-312(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 18=-254(LC 10), 12=-208(LC 11), 16=-125(LC 12),

17=-346(LC 9), 14=-125(LC 13), 13=-318(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 15, 16, 14 except 18=345(LC 20), 12=311(LC 19), 17=388(LC

10), 13=357(LC 11)

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

TOP CHORD 2-18=-325/257, 5-6=-121/287, 6-7=-121/287, 10-12=-292/212

**BOT CHORD** 17-18=-290/258, 16-17=-172/271, 15-16=-172/271, 14-15=-172/271, 13-14=-172/271

**WEBS** 6-15=-306/82, 2-17=-314/450, 10-13=-281/428

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint 18, 208 lb uplift at joint 12, 125 lb uplift at joint 16, 346 lb uplift at joint 17, 125 lb uplift at joint 14 and 318 lb uplift at joint 13.

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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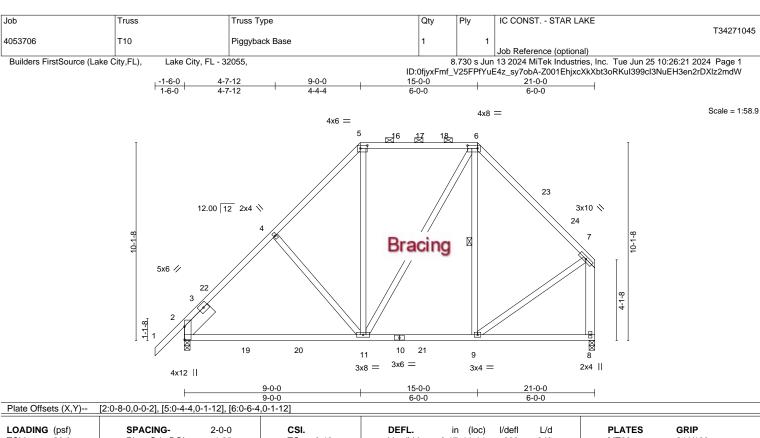
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 26,2024



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





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	0.46	Vert(LL)	-0.17	11-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.28	11-14	>904	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 155 lb	FT = 20%

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

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

**BOT CHORD** 2x4 SP No.3 \*Except\* WFBS 7-8: 2x6 SP No.2

**SLIDER** Left 2x8 SP 2400F 2.0E 1-11-8

REACTIONS.

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

Max Horz 2=272(LC 12) Max Uplift 2=-212(LC 12), 8=-181(LC 12) Max Grav 2=940(LC 2), 8=859(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-845/209, 4-5=-743/253, 5-6=-477/248, 6-7=-646/195, 7-8=-764/197 TOP CHORD

**BOT CHORD** 2-11=-272/650, 9-11=-74/392 WEBS 5-11=-82/294, 7-9=-104/435

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 20-9-4 zone; end vertical 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 212 lb uplift at joint 2 and 181 lb uplift at
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

6-9

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

1 Row at midpt

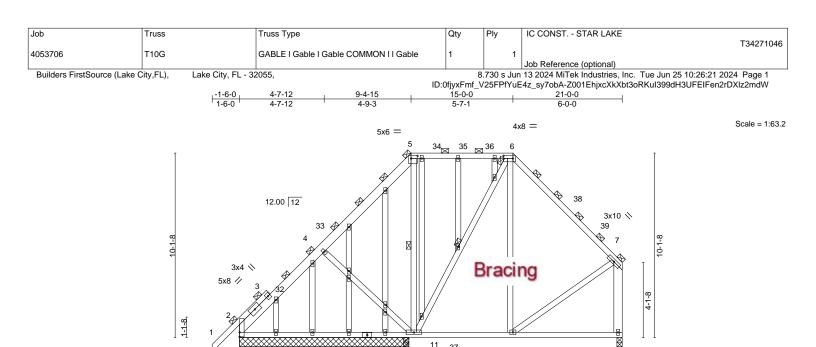
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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9-0-0	9-4-15	15-0-0	21-0-0
9-0-0	0-4-15	5-7-1	6-0-0

TOP CHORD

**BOT CHORD** 

WFBS

3x4 =

1 Row at midpt

2-0-0 oc purlins (6-0-0 max.), except end verticals.

5-10 6-10

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

Plate Offs	Plate Offsets (X,Y) [5:0-4-4,0-1-12], [6:0-6-4,0-1-12]												
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	0.40	Vert(LL)	-0.03	8-9	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	0.30	Vert(CT)	-0.06	8-9	>999	180	MT20HS	187/143	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.00	2	n/a	n/a			
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 216 lb	FT = 20%	

13 12

3x6 =

14

LUMBER-

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

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

7-8: 2x6 SP No.2

**OTHERS** 2x4 SP No.3

REACTIONS. All bearings 9-3-8 except (jt=length) 8=0-3-8, 11=0-3-8.

(lb) -Max Horz 2=271(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 16 except 10=-284(LC 12),

11=-289(I C 18)

Max Grav All reactions 250 lb or less at joint(s) 16, 15, 14, 12 except 2=348(LC 25), 10=973(LC 2), 8=468(LC 28), 2=346(LC 1)

16

3x12 MT20HS ||

15

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

TOP CHORD 6-7=-318/111, 7-8=-376/103

**WEBS** 4-10=-242/266, 5-10=-303/140, 6-10=-346/135

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-4-15, Zone2 9-4-15 to 13-7-14, Zone1 13-7-14 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 20-9-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 16, 2 except (jt=lb) 10=284, 11=289.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

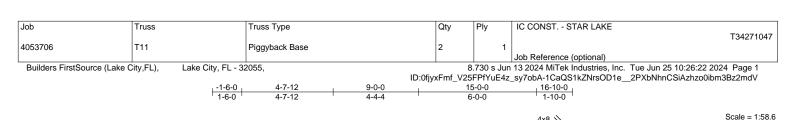
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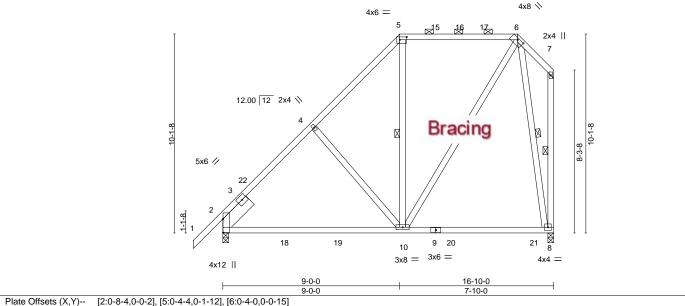
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 26,2024

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		[=:: : :,: : =]; [::: : :,: : :	1/ [								
LOADIN	G (psf)	SPACING- 2-	0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	.25	TC	0.45	Vert(LL)	-0.14 10-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1	.25	BC	0.77	Vert(CT)	-0.23 10-13	>877	180		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.50	Horz(CT)	0.02 2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI201	14	Matri	x-MS					Weight: 133 lb	FT = 20%

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

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

SLIDER Left 2x8 SP 2400F 2.0E 1-11-8

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

Max Horz 2=361(LC 12) Max Uplift 2=-139(LC 12), 8=-224(LC 12) Max Grav 2=775(LC 19), 8=719(LC 2)

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

TOP CHORD 2-4=-620/114, 4-5=-536/159, 5-6=-330/179

BOT CHORD 2-10=-299/494

**WEBS** 6-10=-200/482, 6-8=-572/232

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 16-8-4 zone; end vertical 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) 2=139, 8=224,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

5-10, 7-8, 6-8

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied or 10-0-0 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 Date:

June 26,2024



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

Scale = 1:58.6

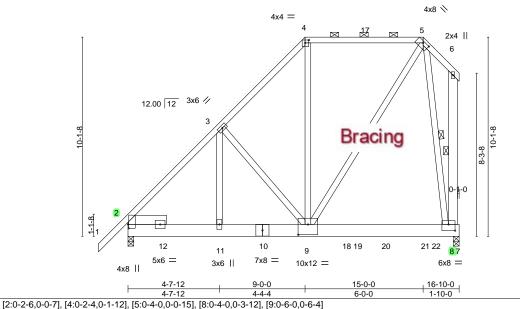


Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.34 Vert(LL) -0.09 8-9 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.36 Vert(CT) -0.14 8-9 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.85 Horz(CT) 0.01 8 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 342 lb FT = 20%

**BRACING-**

LUMBER-

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

WEBS 2x4 SP No.3 \*Except\* 6-8: 2x6 SP No.2

SLIDER Left 2x6 SP No.2 1-11-8

TOF

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

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

WEBS 1 Row at midpt 6-8, 5-8

REACTIONS. (size)

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=365(LC 29)

Max Uplift 2=-1501(LC 8), 8=-1853(LC 8) Max Grav 2=3291(LC 2), 8=4820(LC 2)

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

TOP CHORD 2-3=-3815/1852, 3-4=-3441/1507, 4-5=-2407/1144 BOT CHORD 2-11=-1516/2635, 9-11=-1516/2635, 8-9=-244/556

WEBS 3-11=-597/762, 3-9=-679/647, 4-9=-947/2162, 5-9=-1671/3578, 5-8=-3113/1437

#### NOTES-

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

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1501, 8=1853.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2565 lb down and 1772 lb up at 7-0-12, 1073 lb down and 323 lb up at 9-0-12, 1070 lb down and 323 lb up at 11-0-12, and 1058 lb down and 323 lb up at 13-0-12, and 1061 lb down and 323 lb up at 15-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

June 26,2024

#### COAD CASE (S) DeStandard

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	Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
						T34271048
	4053706	T12	Piggyback Base Girder	1	2	11.57
l					_	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:23 2024 Page 2 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-VO8ofNlB88?FrBDAYlwm8aE\_ks9ni1mxFMKJbdz2mdU

#### LOAD CASE(S) Standard

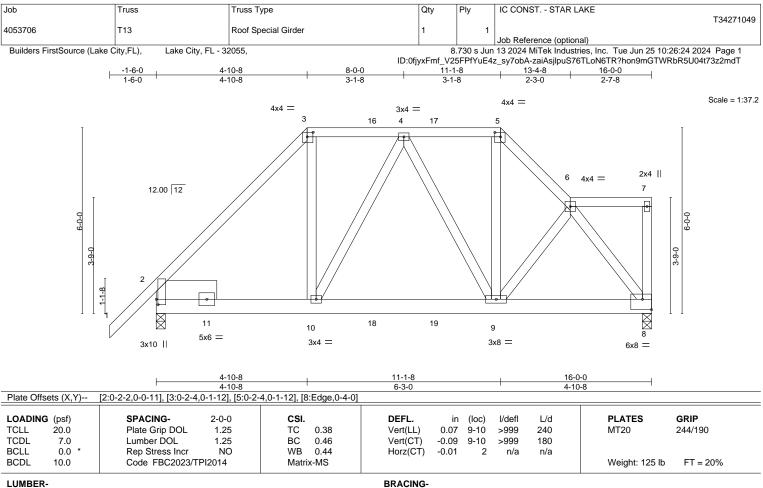
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 5-6=-54, 7-13=-20

Concentrated Loads (lb)

Vert: 10=-2494(B) 9=-934(B) 18=-934(B) 20=-934(B) 21=-934(B)





TOP CHORD

BOT CHORD

LUMBER-

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

WFBS SLIDER Left 2x8 SP 2400F 2.0E 1-11-8

REACTIONS.

(size) 8=0-3-8, 2=0-3-8 Max Horz 2=191(LC 8) Max Uplift 8=-586(LC 9), 2=-598(LC 8)

Max Grav 8=1095(LC 1), 2=1174(LC 1)

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

TOP CHORD 2-3=-1244/691, 3-4=-836/561, 4-5=-829/540, 5-6=-1176/691

BOT CHORD 2-10=-505/838. 9-10=-538/881. 8-9=-425/749 **WEBS** 3-10=-386/658, 5-9=-383/667, 6-8=-1257/717

# NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=586, 2=598.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 60 lb up at 4-10-8, 75 lb down and 59 lb up at 7-0-0, and 75 lb down and 59 lb up at 9-0-0, and 68 lb down and 60 lb up at 11-1-8 on top chord , and 370 lb down and 308 lb up at 4-10-8, 161 lb down and 112 lb up at 7-0-0, and 161 lb down and 112 lb up at 9-0-0, and 370 lb down and 308 lb up at 11-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

# LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-5=-54, 5-6=-54, 6-7=-54, 8-12=-20

Vert: 3=-20(F) 5=-20(F) 10=-313(F) 9=-313(F) 16=-20(F) 17=-20(F) 18=-154(F) 19=-154(F)

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Structural wood sheathing directly applied or 4-11-14 oc purlins,

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

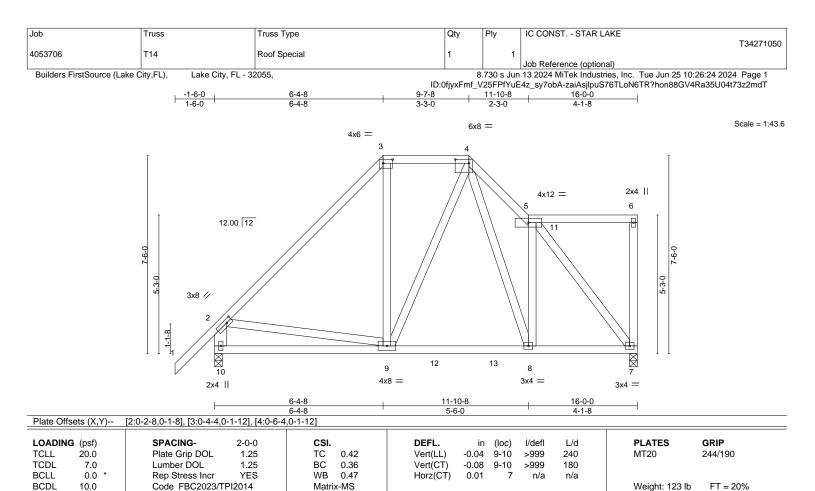
except end verticals.

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

June 26,2024

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TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 \*Except\* WFBS 2-10: 2x6 SP No.2

REACTIONS. (size) 7=0-3-8, 10=0-3-8 Max Horz 10=234(LC 12)

Max Uplift 7=-145(LC 9), 10=-142(LC 12) Max Grav 7=633(LC 2), 10=711(LC 2)

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

TOP CHORD 2-3=-606/168, 3-4=-354/183, 4-5=-609/236, 2-10=-618/227

**BOT CHORD** 9-10=-402/339, 8-9=-90/327, 7-8=-110/403 **WEBS** 4-8=-110/252, 5-7=-633/171, 2-9=-121/322

# NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 -1-6-0 to 6-4-8, Zone3 6-4-8 to 11-10-8, Zone1 11-10-8 to 15-10-4 zone; end vertical 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) 7=145, 10=142.

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

Rigid ceiling directly applied or 9-3-15 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 26,2024







Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE	٦
4050700	T46	Doct Coorday			T34271051	
4053706	T15	Roof Special	1	1		
					Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:25 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-RnFY43mRfmFz4VNZgAzED?JFegmFA4nEigpQgWz2mdS

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

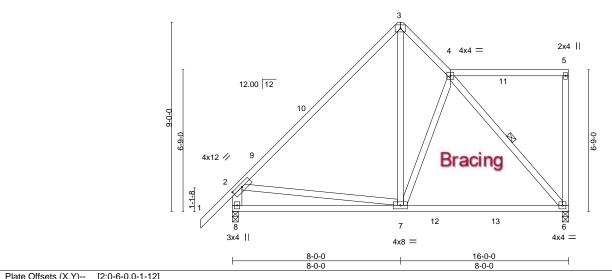
Rigid ceiling directly applied or 7-7-5 oc bracing.

except end verticals.

1 Row at midpt

8-1-8 -1-6-0 7-10-8 10-4-8 16-0-0 8-0-0 0-1-8 7-10-8  $^{0-1-8}_{4x6} =$ 

Scale = 1:54.8



	0010 (71,1)	[2.0 0 0,0 1 12]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.69	Vert(LL) -0.15 6-7 >999 240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.68	Vert(CT) -0.24 6-7 >792 180	i
BCLL	0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) -0.01 6 n/a n/a	
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 114 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD 2x4 SP No.3 \*Except\* WFBS

2-8: 2x6 SP No.2

REACTIONS.

(size) 6=0-3-8, 8=0-3-8 Max Horz 8=292(LC 12)

Max Uplift 6=-167(LC 13), 8=-133(LC 12) Max Grav 6=649(LC 19), 8=733(LC 19)

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

2-3=-593/129, 3-4=-494/191, 2-8=-619/241 TOP CHORD

BOT CHORD 7-8=-601/508, 6-7=-137/373

**WEBS** 4-6=-552/207, 2-7=-268/485, 3-7=-70/431

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-0-0, Zone3 8-0-0 to 10-4-8, Zone1 10-4-8 to 15-10-4 zone; end vertical 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) 6=167, 8=133.

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

June 26,2024





Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
4050700	T40	Deef Consist			T34271052
4053706	T16	Roof Special	1	1	Job Reference (optional)
Builders FirstSource (Lake	Builders FirstSource (Lake City,FL), Lake City, FL - 32055,			.730 s Jun	13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:25 2024 Page 1

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

ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-RnFY43mRfmFz4VNZgAzED?JFxgm5A3NEigpQgWz2mdS 16-Ó-0

> Scale = 1:55.0 4x6 =

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

5-6, 4-6

Rigid ceiling directly applied or 7-5-6 oc bracing.

except end verticals.

1 Row at midpt

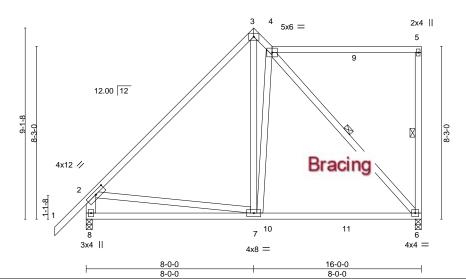


Plate Offsets (X,Y)--[2:0-6-0,0-1-12] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.25 TC 0.67 Vert(LL) -0.15 6-7 >999 240 MT20 244/190 TCDL вс Vert(CT) 7.0 Lumber DOL 1.25 0.69 -0.23 6-7 >798 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.33 Horz(CT) -0.01 6 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 121 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

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

2-8: 2x6 SP No.2

REACTIONS. (size) 6=0-3-8, 8=0-3-8 Max Horz 8=326(LC 12)

Max Uplift 6=-193(LC 13), 8=-117(LC 12)

Max Grav 6=652(LC 19), 8=743(LC 19)

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

2-3=-599/88, 3-4=-466/143, 2-8=-629/158 TOP CHORD

**BOT CHORD** 7-8=-628/534, 6-7=-130/369

**WEBS** 3-7=-77/534, 4-7=-270/137, 4-6=-537/195, 2-7=-276/491

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 -1-6-0 to 8-0-0, Zone3 8-0-0 to 8-10-8, Zone1 8-10-8 to 15-10-4 zone; end vertical 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) 6=193, 8=117.

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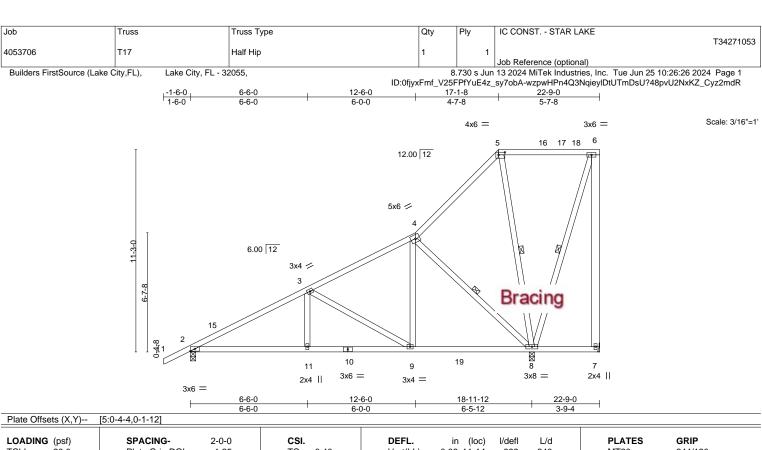
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 26,2024



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





LOADIN	G (psf)	SPACING-	2-0-0	CSI.
TCLL	20.0	Plate Grip DOL	1.25	TC 0.40
TCDL	7.0	Lumber DOL	1.25	BC 0.47
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.50
BCDL	10.0	Code FBC2023/T	PI2014	Matrix-MS

Vert(LL) -0.06 11-14 >999 240 Vert(CT) -0.12 11-14 >999 180 Horz(CT) 0.02 n/a n/a

BRACING-

MT20 244/190

Weight: 169 lb FT = 20%

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No.2

BOT CHORD 2x4 SP No.3 \*Except\* WFBS 6-7: 2x6 SP No.2

TOP CHORD

Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 8-10-1 oc bracing. **WEBS** 1 Row at midpt 4-8, 5-8, 6-8

REACTIONS.

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

Max Horz 2=445(LC 12)

Max Uplift 7=-312(LC 19), 2=-134(LC 12), 8=-452(LC 12) Max Grav 7=49(LC 12), 2=752(LC 2), 8=1403(LC 2)

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

TOP CHORD 2-3=-1062/90, 3-4=-530/0, 6-7=-43/336

BOT CHORD 2-11=-429/937, 9-11=-429/937, 8-9=-198/424

**WEBS** 3-11=0/254, 3-9=-580/263, 4-9=-86/536, 4-8=-694/257, 5-8=-341/227, 6-8=-435/86

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-5-9 to 1-6-7, Zone1 1-6-7 to 17-1-8, Zone2 17-1-8 to 21-4-7, Zone1 21-4-7 to 22-6-4 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=312, 2=134, 8=452.

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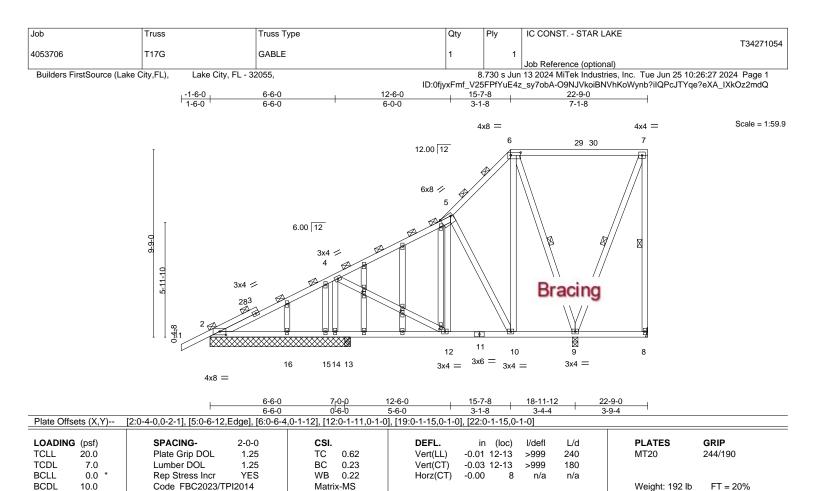
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 26,2024



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LUMBER-

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

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

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals, and sheathed or

10-0-0 oc purlins: 6-7.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 1 Row at midpt 7-8, 6-9, 7-9

REACTIONS. All bearings 7-3-8 except (jt=length) 8=Mechanical, 9=0-3-8, 13=0-3-8.

Max Horz 2=387(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 16, 15 except 14=-371(LC 12), 9=-216(LC 12) All reactions 250 lb or less at joint(s) 2, 8, 16, 15, 2 except 14=584(LC 1), 9=604(LC 1), 13=309(LC Max Grav

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

TOP CHORD 2-4=-288/197 4-5=-293/0

WEBS 4-14=-655/318, 4-12=-80/333, 6-9=-423/234

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-7-8, Zone2 15-7-8 to 19-10-7, Zone1 19-10-7 to 22-7-4 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 16, 15, 2 except (it=lb) 14=371, 9=216.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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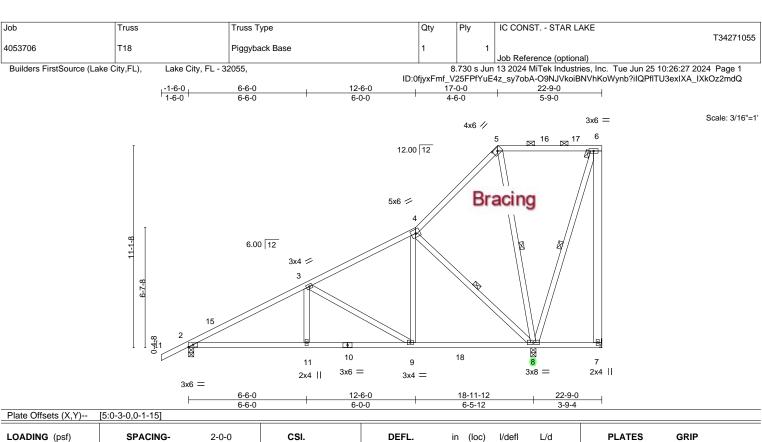
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 26,2024



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LOADING TCLL TCDL BCLL	(psf) 20.0 7.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC BC WB	0.40 0.47 0.50	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.12 0.02	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code FBC2023/TI	PI2014	Matri	ix-MS					Weight: 169 lb	FT = 20%

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No.2

BOT CHORD 2x4 SP No.3 \*Except\* WFBS

6-7: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-6.

**BOT CHORD** Rigid ceiling directly applied or 8-10-14 oc bracing

**WEBS** 

1 Row at midpt 4-8, 5-8, 6-8

REACTIONS.

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

Max Horz 2=441(LC 12)

Max Uplift 7=-314(LC 19), 2=-134(LC 12), 8=-416(LC 12) Max Grav 7=60(LC 12), 2=754(LC 2), 8=1404(LC 2)

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

TOP CHORD 2-3=-1062/88, 3-4=-530/0, 6-7=-54/338 BOT CHORD 2-11=-422/935, 9-11=-422/935, 8-9=-192/422

**WEBS** 3-11=0/254, 3-9=-580/263, 4-9=-86/536, 4-8=-690/255, 5-8=-340/205, 6-8=-440/87

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 22-6-4 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, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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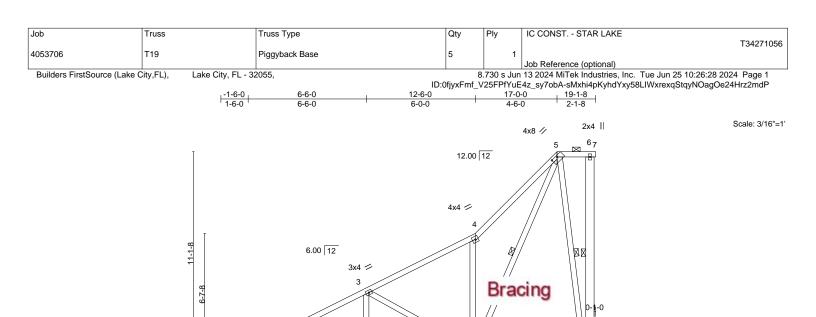
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 26,2024









				6-6-0	6-0-0	ı	6-7-8	1		
Plate Off	sets (X,Y)	[5:0-4-0,0-0-15]								
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 0.40	Vert(LL)	-0.09 9-1	0 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.14 9-1	0 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.02	9 n/a	n/a		
BCDL	10.0	Code FBC2023/TPI	2014	Matrix-MS					Weight: 145 lb	FT = 20%

11

3x6 =

12-6-0

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

12

2x4 ||

6-6-0

17

19-1-8

1 Row at midpt

10

4x8 =

18

98

Structural wood sheathing directly applied or 5-0-14 oc purlins,

6-9, 5-10, 5-9

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.

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

3x8 =

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No.2

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

6-9: 2x6 SP No.2

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=441(LC 12)

Max Uplift 9=-318(LC 12), 2=-145(LC 12) Max Grav 9=830(LC 19), 2=820(LC 2)

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

TOP CHORD 2-3=-1206/111, 3-4=-676/0, 4-5=-859/202 **BOT CHORD** 2-12=-443/1066, 10-12=-443/1066

**WEBS** 

3-12=0/253, 3-10=-578/265, 4-10=-533/290, 5-10=-408/1152, 5-9=-670/360

# NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 17-0-0, Zone3 17-0-0 to 19-1-8 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=318, 2=145.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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June 26,2024



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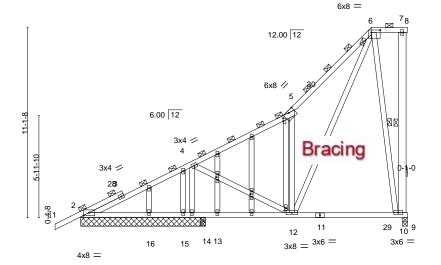




Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:29 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-KYV3wQpyj\_IPZ6gKv01AOrU?mHBe6sdqdInepHz2mdO 6-6-0 6-6-0 17-0-0 6-0-0 4-6-0 2-1-8

Scale = 1:67.4



ı	6-6-0	7 <sub>t</sub> 0 <sub>1</sub> 0	12-6-0	19-1-8
	6-6-0	0-6-0	5-6-0	6-7-8
[2.0-4-0.0-2-1] [5.0-2-2.0-0-2] [6.0-	-6-4 0-1-12] [12·0-1-11	1 0-1-01 [10·	0_1_15_0_1_01_[	24.0-1-15 0-1-01

Plate Of	-late Offsets (X, 1) [2.0-4-0,0-2-1], [5.0-2-2,0-0-2], [6.0-6-4,0-1-12], [12.0-1-1], [19.0-1-13,0-1-0]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.08 10-12	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.13 10-12	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	-0.00 10	n/a	n/a			
BCDL	10.0	Code FBC2023/TI	PI2014	Matri	x-MS					Weight: 173 lb	FT = 20%	

LUMBER-**BRACING-**

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

7-10: 2x6 SP No.2

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

2-0-0 oc purlins (6-0-0 max.), except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 10-12,9-10.

WEBS 1 Row at midpt 7-10, 6-10

REACTIONS. All bearings 7-3-8 except (jt=length) 10=0-3-8, 13=0-3-8.

(lb) - Max Horz 2=441(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 15 except 10=-218(LC 12), 14=-345(LC 12) All reactions 250 lb or less at joint(s) 2, 16, 15, 13, 2 except 10=507(LC 19), 14=664(LC 25)

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

TOP CHORD 2-4=-373/318, 4-5=-373/14, 5-6=-404/36

WEBS 4-14=-714/314, 4-12=-85/476, 5-12=-377/236, 6-12=-169/446, 6-10=-351/267

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 17-0-0, Zone3 17-0-0 to 19-1-8 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 15, 2 except (it=lb) 10=218, 14=345,

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

June 26,2024









19-4-0

5-6-0

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

13-10-0

6-8-0

13-10-0

ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-KYV3wQpyj\_IPZ6gKv01AOrU\_aH6e6nmqdInepHz2mdO 24-10-0 , 31-6-0 38-8-0 5-6-0

38-8-0

Structural wood sheathing directly applied or 3-9-8 oc purlins, except

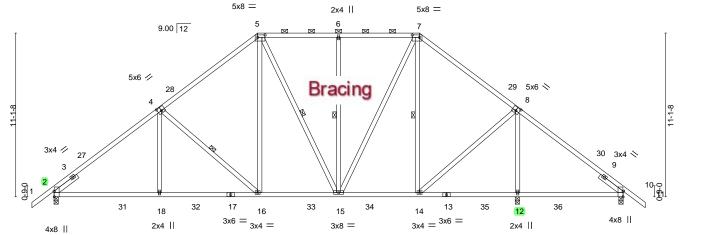
4-16, 5-15, 6-15, 7-14

2-0-0 oc purlins (5-8-1 max.): 5-7.

1 Row at midpt

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

Scale = 1:78.3



		7-2-0	0-0	0 5-6-	0 5-6-1	U	0-7-12		1-2-4	
Plate Offsets (X,Y) [2:0-4-10,Edge], [4:0-3-0,0-3-0], [5:0-6-0,0-2-0], [7:0-6-0,0-2-0], [8:0-3-0,0-3-0], [10:0-4-10,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.10 16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.19 16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.05 12	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matrix-MS					Weight: 261 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-TOP CHORD 2x4 SP No 2

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

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

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 10=0-3-8

Max Horz 2=-285(LC 10)

Max Uplift 2=-367(LC 12), 12=-176(LC 12), 10=-281(LC 13) Max Grav 2=1438(LC 2), 12=1511(LC 2), 10=586(LC 20)

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

TOP CHORD 2-4=-1798/444, 4-5=-1369/431, 5-6=-1000/391, 6-7=-1000/391, 7-8=-1029/408,

8-10=-406/311 BOT CHORD

2-18=-392/1501, 16-18=-392/1499, 15-16=-219/1061, 14-15=-94/738, 12-14=-97/280, 10-12=-96/272

4-18=0/347, 4-16=-590/294, 5-16=-150/642, 6-15=-331/194, 7-15=-231/631,

7-14=-274/180, 8-14=-224/723, 8-12=-1165/209

#### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-4-6, Zone1 2-4-6 to 13-10-0, Zone2 13-10-0 to 19-4-0, Zone1 19-4-0 to 24-10-0, Zone2 24-10-0 to 30-3-10, Zone1 30-3-10 to 40-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=367, 12=176, 10=281,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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June 26,2024



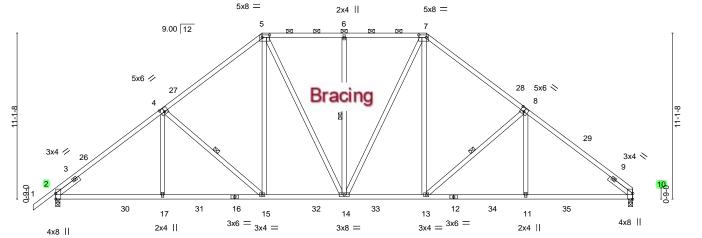
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE





ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-ok3R7mqaUltGBGFWSjYPw303fhPorHvzsyXBLjz2mdN 13-10-0 19-4-0 24-10-0 31-6-0 38-8-0 6-8-0 5-6-0 5-6-0 6-8-0 7-2-0

Scale = 1:77.2



24-10-0

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

31-6-0

2-0-0 oc purlins (4-7-8 max.): 5-7.

1 Row at midpt

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

38-8-0

Structural wood sheathing directly applied or 1-7-8 oc purlins, except

4-15, 6-14, 8-13

	1-2-0	13-10-0	13-4-0	24-10-0	31-0-0	30-0-0	
	7-2-0	6-8-0	5-6-0	5-6-0	6-8-0	7-2-0	7
Plate Offsets (X,Y)	[2:0-4-10,Edge], [4:0-3-0,0	-3-0], [5:0-6-0,0-2-0], [7:0	)-6-0,0-2-0], [8:0-3-0	,0-3-0], [10:0-4-10,Ed	ge]		

10-/-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	0.87	Vert(LL)	-0.15 15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.91	Vert(CT)	-0.27 15-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.11 10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI	I2014	Matri	x-MS					Weight: 258 lb	FT = 20%

LUMBER-TOP CHORD

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

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

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

Max Horz 2=276(LC 9) Max Uplift 2=-400(LC 12), 10=-362(LC 13) Max Grav 2=1720(LC 2), 10=1651(LC 2)

7-2-0

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

TOP CHORD 2-4=-2231/495, 4-5=-1819/484, 5-6=-1501/441, 6-7=-1501/441, 7-8=-1820/486,

8-10=-2238/501

BOT CHORD 2-17=-450/1801, 15-17=-450/1798, 14-15=-259/1386, 13-14=-157/1387, 11-13=-283/1721,

13-10-0

10-11=-283/1724

**WEBS** 4-17=0/334, 4-15=-565/291, 5-15=-149/633, 5-14=-205/349, 6-14=-327/193,

7-14=-204/347, 7-13=-151/638, 8-13=-575/297, 8-11=0/336

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-4-6, Zone1 2-4-6 to 13-10-0, Zone2 13-10-0 to 19-4-0, Zone1 19-4-0 to 24-10-0, Zone2 24-10-0 to 30-3-10, Zone1 30-3-10 to 38-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=400, 10=362,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

June 26,2024



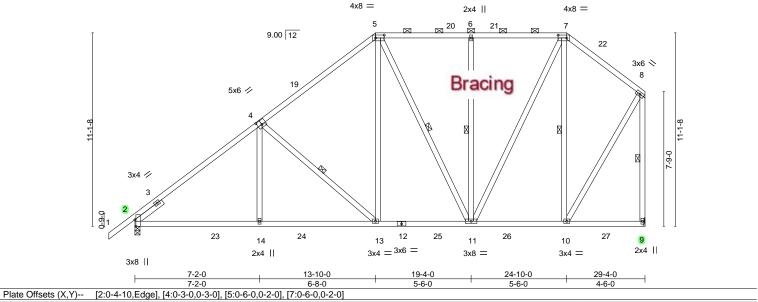
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.





ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-GxdpL6rCFc?6oQqj0R4eTGZKD5qVai775cGkt9z2mdM <del>-1-6-0</del> 1-6-0 7-2-0 7-2-0 13-10-0 . 24-10-0 29-4-0 6-8-0 5-6-0

Scale = 1:66.3



LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.43 Vert(LL) -0.09 13-14 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.63 Vert(CT) -0.17 13-14 >999 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.70 Horz(CT) 0.04 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 227 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

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

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

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

Max Horz 2=367(LC 12)

Max Uplift 2=-309(LC 12), 9=-270(LC 12) Max Grav 2=1324(LC 19), 9=1267(LC 2)

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

TOP CHORD 2-4=-1604/354, 4-5=-1168/339, 5-6=-776/278, 6-7=-776/278, 7-8=-623/173,

8-9=-1183/280

BOT CHORD 2-14=-496/1305, 13-14=-496/1303, 11-13=-271/864, 10-11=-92/447 **WEBS** 

4-14=0/353, 4-13=-600/300, 5-13=-153/646, 5-11=-305/146, 6-11=-337/196,

7-11=-251/742, 7-10=-531/188, 8-10=-180/874

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-10-0, Zone2 13-10-0 to 18-0-15. Zone1 18-0-15 to 24-10-0, Zone3 24-10-0 to 29-2-4 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=309, 9=270.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

4-13, 5-11, 6-11, 7-10, 8-9

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.

Rigid ceiling directly applied or 8-1-8 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 26,2024



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



Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271061 4053706 Piggyback Base Girder T23 2 Job Reference (optional) 8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:32 2024 Page 1

12-4-0

5-6-0

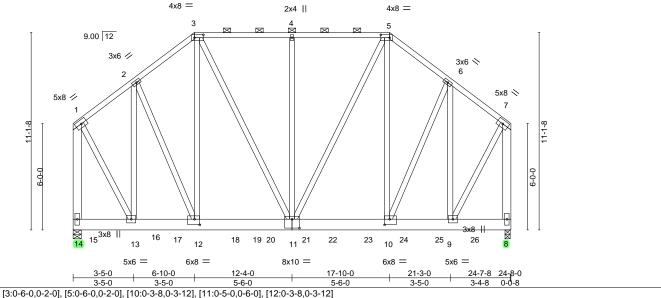
6-10-0

3-5-0

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

ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-k7BCYSsq0v7zQaPva8bt?U6YvUGBJ9mGJF0lQcz2mdL 17-10-0 21-3-0 . 2<u>4-8-0</u> 5-6-0 3-5-0 3-5-0

Scale = 1:64.9



(loc)

I/defI

L/d

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

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

**PLATES** 

GRIP

**TCLL** 20.0 Plate Grip DOL 1.25 TC 0.24 Vert(LL) -0.05 10-11 >999 240 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 BC 0.15 Vert(CT) -0.10 10-11 >999 180 **BCLL** 0.0 Rep Stress Incr WB 0.68 Horz(CT) 0.01 8 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 578 lb FT = 20%

DEFL.

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

WFBS

Plate Offsets (X,Y)--

LOADING (psf)

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2 0F 2x4 SP No.3 \*Except\*

1-14,7-8: 2x6 SP No.2

REACTIONS. (size) 14=0-5-8, 8=0-3-8 Max Horz 14=123(LC 5)

Max Uplift 14=-1503(LC 8), 8=-1534(LC 9) Max Grav 14=5092(LC 1), 8=4767(LC 1)

SPACING-

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

TOP CHORD 1-2=-2273/714, 2-3=-2987/1035, 3-4=-2989/1059, 4-5=-2989/1059, 5-6=-3004/1066, 6-7=-2261/754, 1-14=-4519/1376, 7-8=-4498/1455

2-0-0

CSI.

BOT CHORD 12-13=-621/1770, 11-12=-793/2343, 10-11=-753/2357, 9-10=-553/1761

2-13=-1892/646, 2-12=-555/1435, 3-12=-143/344, 3-11=-580/1451, 4-11=-332/197, 5-11=-525/1421, 5-10=-203/345, 6-10=-538/1493, 6-9=-1962/625, 1-13=-1039/3544,

7-9=-1103/3529

#### NOTES-

WEBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1503, 8=1534,
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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June 26,2024

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



	Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
						T34271061
	4053706	T23	Piggyback Base Girder	1	2	Job Reference (optional)
L						Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:32 2024 Page 2 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-k7BCYSsq0v7zQaPva8bt?U6YvUGBJ9mGJF0IQcz2mdL

#### NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 674 lb down and 174 lb up at 1-0-12, 672 lb down and 186 lb up at 3-0-12, 672 lb down and 197 lb up at 5-0-12, 672 lb down and 246 lb up at 7-0-12, 672 lb down and 246 lb up at 9-0-12, 672 lb down and 246 lb up at 11-0-12, 672 lb down and 246 lb up at 13-0-12, 672 lb down and 246 lb up at 14-6-12, 672 lb down and 246 lb up at 16-6-12, 672 lb down and 246 lb up at 18-6-12, and 672 lb down and 246 lb up at 20-6-12, and 672 lb down and 246 lb up at 22-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-5=-54, 5-7=-54, 8-14=-20

Concentrated Loads (lb)

Vert: 12=-672(F) 15=-674(F) 16=-672(F) 17=-672(F) 18=-672(F) 20=-672(F) 21=-672(F) 22=-672(F) 23=-672(F) 24=-672(F) 25=-672(F) 25=-672(F) 26=-672(F) 26=-6



Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271062 4053706 T24 Piggyback Base Girder Job Reference (optional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:33 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-CJkalosTnDFq2j\_58s67Yhejkudh2eLPYvlry2z2mdK 8-8-0 14-2-0 17-4-0 5-6-0 3-2-0

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

2-9, 3-8, 4-7, 1-11, 5-6

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.

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

1 Row at midpt

Scale = 1:63.3

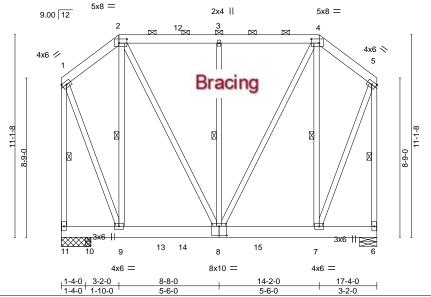


Plate Offsets (X,Y)-- [2:0-5-4,0-2-12], [4:0-5-4,0-2-12], [8:0-5-0,0-6-0]

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	0.24	Vert(LL)	-0.02	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.03	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	x-MS						Weight: 226 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No 2 BOT CHORD 2x8 SP 2400F 2.0E WFBS 2x4 SP No 3

REACTIONS. (size) 11=1-7-8, 6=0-11-9, 10=0-3-8

Max Horz 11=-102(LC 4)

Max Uplift 11=-186(LC 9), 6=-257(LC 9), 10=-382(LC 8) Max Grav 11=303(LC 43), 6=875(LC 43), 10=581(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-343/223, 3-4=-343/223, 4-5=-330/153, 1-11=-550/370, 5-6=-827/254 TOP CHORD

WFBS  $2-9=-570/206,\ 2-8=-202/488,\ 3-8=-528/237,\ 4-8=-203/290,\ 4-7=-410/216,\ 1-9=-318/428,$ 

5-7=-187/606

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 11=186, 6=257, 10=382.
- 8) Girder carries tie-in span(s): 4-0-0 from 6-4-0 to 17-4-0
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 79 lb up at 1-4-12, and 43 lb down and 316 lb up at 3-4-12, and 54 lb down and 326 lb up at 5-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

# LOAD CASE(S) Standard

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

Vert: 1-2=-54, 2-12=-54, 4-12=-91(F=-37), 4-5=-91(F=-37), 6-11=-20

Concentrated Loads (lb)

Vert: 9=138(B) 10=-106(B) 13=138(B)

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

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

June 26,2024

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

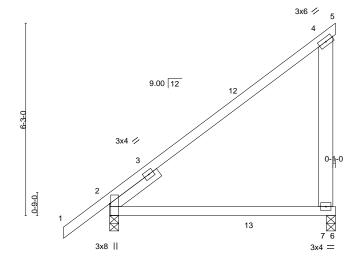


Job	Truss	Truss Type	Qty	Ply	IC CONST STAR LAKE
					T34271063
4053706	T25	Monopitch	2	1	
					Job Reference (optional)

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

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:33 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-CJkalosTnDFq2j\_58s67YhefBuY22mZPYvlry2z2mdK

Scale = 1:37.4



7-4-0

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	ets (X,Y) [2:0-4-10,Edge]						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.				
TCLL	20.0	Plate Grip DOL	1.25	TC 0.47				
TCDL	7.0	Lumber DOL	1.25	BC 0.43				

0.43 7.0 Lumber DOL 1.25 0.0 WB Rep Stress Incr YES 0.00 10.0 Code FBC2023/TPI2014 Matrix-MS

DEFL. in (loc) I/defI L/d Vert(LL) 0.08 7-10 >994 240 Vert(CT) -0.14 7-10 >599 180 Horz(CT) 0.03 n/a n/a

except end verticals.

**PLATES** GRIP MT20 244/190

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

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

Weight: 43 lb FT = 20%

LUMBER-

REACTIONS.

BCLL

BCDL

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

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

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

Max Horz 2=248(LC 12)

Max Uplift 7=-181(LC 12), 2=-32(LC 12) Max Grav 7=389(LC 19), 2=378(LC 19)

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

TOP CHORD 2-4=-434/104, 4-7=-184/277

#### NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-4-0 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=181.

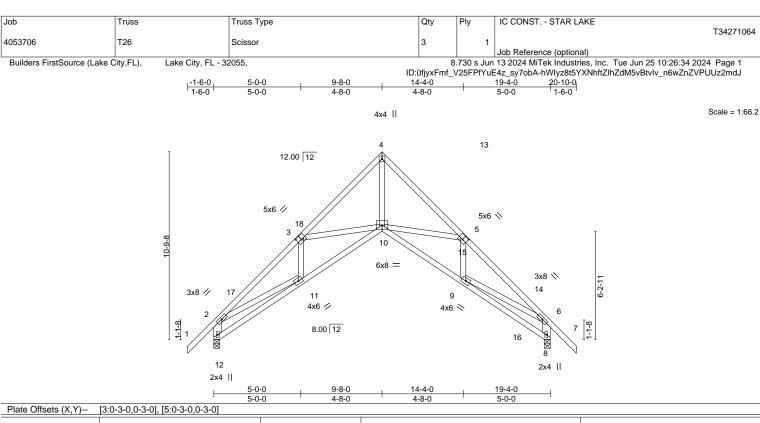
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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 26,2024







LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.08 10-1	1 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.15 10-1	1 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.21	8 n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	ix-MS					Weight: 129 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD 2x4 SP No 2 TOP CHORD

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

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

2-12,6-8: 2x6 SP No.2

REACTIONS. (size) 12=0-4-0, 8=0-4-0

Max Horz 12=314(LC 11)

Max Uplift 12=-186(LC 12), 8=-186(LC 13) Max Grav 12=792(LC 1), 8=792(LC 1)

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

TOP CHORD  $2\text{-}3\text{=-}1463/524,\ 3\text{-}4\text{=-}1205/267,\ 4\text{-}5\text{=-}1205/332,\ 5\text{-}6\text{=-}1463/504,\ 2\text{-}12\text{=-}787/377,}$ 

6-8=-787/395

BOT CHORD 11-12=-347/446, 10-11=-535/1356, 9-10=-170/1179

**WEBS** 4-10=-403/1354, 5-10=-235/422, 3-10=-229/413, 2-11=-236/986, 6-9=-238/986

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-8-0, Zone2 9-8-0 to 13-10-15, Zone1 13-10-15 to 20-10-0 zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=186, 8=186.

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Structural wood sheathing directly applied or 4-8-11 oc purlins,

Rigid ceiling directly applied or 8-0-8 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 26,2024



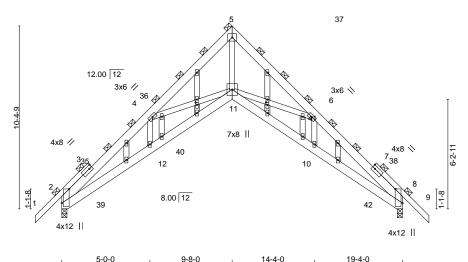
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271065 4053706 **GABLE** T26G Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:35 2024 Page 1

ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-9isKATujJqVYH18UFG8bd6ktJiDLWW?i0DEy0xz2mdI 20-10-0 9-8-0 ,, 14-4-0 19-4-0 5-0-0 4-8-0 4-8-0 5-0-0

> Scale = 1:65.4 5x6 =



**BRACING-**

TOP CHORD

**BOT CHORD** 

5-0-0 9-8-0 5-0-0 4-8-0 4-8-0 5-0-0 Plate Offsets (X.Y)-- [2:0-9-10.Edge], [8:0-9-10.Edge], [13:0-1-11,0-1-0], [22:0-1-11,0-1-0]

1 10110 0 110010 (11)					,	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		
TCLL	20.0	Plate Grip DOL	1.25	TC	1.00	V
TCDL	7.0	Lumber DOL	1.25	BC	0.51	V
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	H
BCDL	DL 10.0 Code FBC2023/TPI2014		Matrix-MS			

DEFL. (loc) I/defI L/d Vert(LL) -0.13 10-11 >999 240 Vert(CT) -0.24 10-11 >979 180 Horz(CT) 0.33 8 n/a n/a

2-0-0 oc purlins

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

**PLATES** GRIP MT20 244/190

Weight: 171 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No 2 \*Except\*

1-3,7-9: 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

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

Max Horz 2=-263(LC 10)

Max Uplift 2=-189(LC 12), 8=-189(LC 13) Max Grav 2=796(LC 1), 8=796(LC 1)

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

TOP CHORD 2-4=-1660/637, 4-5=-1461/279, 5-6=-1461/342, 6-8=-1660/655 **BOT CHORD** 

2-12=-625/1434, 11-12=-581/1586, 10-11=-340/1470, 8-10=-393/1359 WEBS 5-11=-411/1691, 6-11=-258/472, 4-11=-258/482

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-8-0, Zone2 9-8-0 to 13-10-15, Zone1 13-10-15 to 20-10-0 zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 2, 8 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) 2=189 8=189
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

June 26,2024

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



Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271066 4053706 T27 Scissor Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:35 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-9isKATujJqVYH18UFG8bd6k2EiF4WYui0DEy0xz2mdI 9-8-0 14-4-0 19-4-0 5-0-0 5-0-0 4-8-0 4-8-0 5-0-0 Scale = 1:65.7 4x4 || 3 11 12.00 12 3x6 // 3x6 📏 2 6x8 = 3x8 \ 3x8 /

		3-0-0 4-6-0	4-0-0	5-0-0	
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 0.30	Vert(LL) -0.08	8 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.33	Vert(CT) -0.15	7-8 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.22	6 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS			Weight: 123 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

4x6 >

14

except end verticals

2x4 ||

Rigid ceiling directly applied or 7-8-9 oc bracing.

Structural wood sheathing directly applied or 4-6-15 oc purlins,

4x6 /

8.00 12

LUMBER-

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

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

1-10.5-6: 2x6 SP No.2

REACTIONS. (size) 10=0-4-0, 6=0-4-0 Max Horz 10=-271(LC 8)

Max Uplift 10=-158(LC 13), 6=-158(LC 12) Max Grav 10=698(LC 1), 6=698(LC 1)

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

1-1-8

10

TOP CHORD 1-2=-1501/677, 2-3=-1232/363, 3-4=-1232/393, 4-5=-1501/690, 1-10=-711/359,

5-6=-711/403

BOT CHORD 9-10=-349/411. 8-9=-582/1339. 7-8=-382/1222

WEBS 3-8=-458/1375, 4-8=-248/408, 2-8=-246/387, 1-9=-358/993, 5-7=-337/993

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 9-8-0, Zone2 9-8-0 to 13-10-15, Zone1 13-10-15 to 19-1-4 zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=158, 6=158.

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

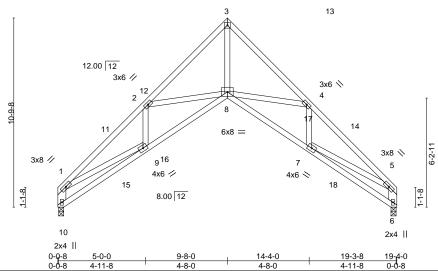
June 26,2024



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



Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271067 4053706 2 T28 Scissor Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:36 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-duQiOpvL48dPvBjgp\_fqAKGD\_6bJF?8sEt\_VZNz2mdH 9-8-0 14-4-0 19-4-0 5-0-0 5-0-0 4-8-0 4-8-0 5-0-0 Scale = 1:65.7 4x4 ||



LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in I/defl I/d **PLATES** GRIP (loc) **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.30 Vert(LL) -0.08 8 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.33 Vert(CT) -0.15 >999 180 WB 0.52 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.22 6 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 123 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 \*Except\* WFBS

1-10.5-6: 2x6 SP No.2

REACTIONS. (size) 10=0-3-8, 6=0-3-8 Max Horz 10=-271(LC 8)

Max Uplift 10=-158(LC 13), 6=-158(LC 12) Max Grav 10=698(LC 1), 6=698(LC 1)

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

TOP CHORD 1-2=-1501/677, 2-3=-1232/363, 3-4=-1232/393, 4-5=-1501/690, 1-10=-711/359,

5-6=-711/403

BOT CHORD 9-10=-349/411. 8-9=-582/1339. 7-8=-382/1222

**WEBS** 2-8=-246/387, 3-8=-458/1375, 4-8=-248/408, 1-9=-358/993, 5-7=-337/993

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 9-8-0, Zone2 9-8-0 to 13-10-15, Zone1 13-10-15 to 19-1-4 zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=158, 6=158.

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

Structural wood sheathing directly applied or 4-6-15 oc purlins,

Rigid ceiling directly applied or 7-8-11 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 26,2024



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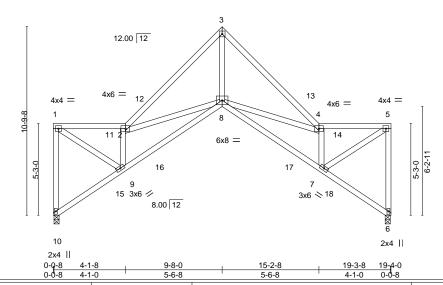


Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:37 2024 Page 1 ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-55\_5b9vzrSIGWLHtNhA3iXpL4Vwg\_Td?TXj35pz2mdG

9-8-0 15-2-8 19-4-0 5-6-8 5-6-8

> Scale = 1:66.0 4x4 ||



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	0.10	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.16	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.21	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	x-MS						Weight: 128 lb	FT = 20%

LUMBER-

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

2x4 SP No.3 WFBS

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins,

except end verticals

BOT CHORD Rigid ceiling directly applied or 8-5-15 oc bracing.

REACTIONS. (size) 10=0-3-8, 6=0-3-8

Max Horz 10=135(LC 11)

Max Uplift 10=-273(LC 8), 6=-273(LC 9) Max Grav 10=705(LC 1), 6=705(LC 1)

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

TOP CHORD 1-10=-677/334, 1-2=-899/442, 2-3=-1269/431, 3-4=-1269/406, 4-5=-899/438,

5-6=-677/327

BOT CHORD 8-9=-486/1189, 7-8=-447/1189

WFBS 1-9=-524/1065, 2-9=-1118/456, 3-8=-440/1333, 4-8=-211/287, 4-7=-1118/452,

5-7=-521/1065

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-8-0, Zone2 9-8-0 to 13-10-15, Zone1 13-10-15 to 19-2-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=273, 6=273.

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

June 26,2024



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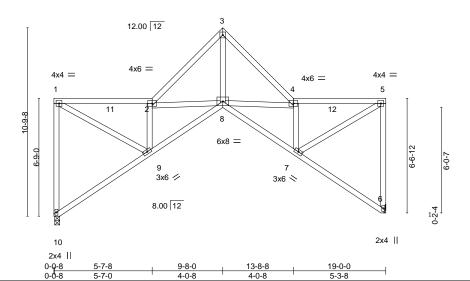


Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271069 4053706 T30 Roof Special Job Reference (optional) 8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:37 2024 Page 1

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

ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-55\_5b9vzrSIGWLHtNhA3iXpJSVx8\_Tc?TXj35pz2mdG 9-8-0 13-8-8 19-0-0 4-0-8 4-0-8 5-3-8

> Scale = 1:66.0 4x4 ||



LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.07	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.13	8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.19	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI	I2014	Matri	x-MS						Weight: 129 lb	FT = 20%

LUMBER-

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

2x4 SP No.3 WFBS

**BRACING-**

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

except end verticals

BOT CHORD Rigid ceiling directly applied or 9-2-1 oc bracing.

REACTIONS. (size) 10=0-3-8, 6=Mechanical

Max Horz 10=-98(LC 10)

Max Uplift 10=-159(LC 12), 6=-156(LC 13) Max Grav 10=692(LC 1), 6=692(LC 1)

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

TOP CHORD 1-10=-649/217, 1-2=-908/254, 2-3=-1181/313, 3-4=-1180/353, 4-5=-871/204,

5-6=-652/169

BOT CHORD 8-9=-415/1165, 7-8=-271/1120

WFBS 1-9=-288/1030, 2-9=-1030/357, 3-8=-360/1335, 4-7=-1022/301, 5-7=-236/1004

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-8-0, Zone3 9-8-0 to 13-8-8, Zone1 13-8-8 to 18-10-4 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) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 10 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) 10=159, 6=156.

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

June 26,2024



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Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271070 4053706 T31 Roof Special Job Reference (optional)

4x4 ||

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Scale = 1:66.0

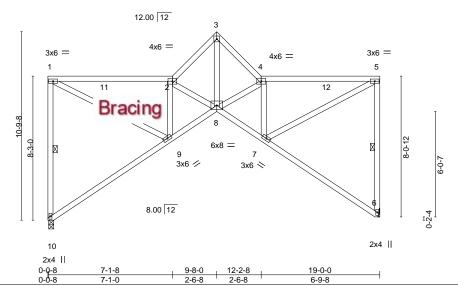
Structural wood sheathing directly applied or 3-10-5 oc purlins,

1-10. 5-6

Rigid ceiling directly applied or 9-10-14 oc bracing.

except end verticals.

1 Row at midpt



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	0.72	Vert(LL)	-0.09	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.19	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.18	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TP	12014	Matri	x-MS						Weight: 134 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 10=0-3-8, 6=Mechanical

Max Horz 10=61(LC 9)

Max Uplift 10=-168(LC 12), 6=-166(LC 13) Max Grav 10=692(LC 1), 6=692(LC 1)

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

TOP CHORD 1-10=-638/215, 1-2=-901/228, 2-3=-1149/310, 3-4=-1145/328, 4-5=-877/197,

5-6=-641/184

BOT CHORD 8-9=-350/1125, 7-8=-261/1098

WFBS 1-9=-251/997, 2-9=-936/315, 3-8=-394/1439, 4-7=-938/284, 5-7=-222/982

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-8-0, Zone3 9-8-0 to 12-2-8, Zone1 12-2-8 to 18-10-4 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) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=168, 6=166.

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

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

June 26,2024



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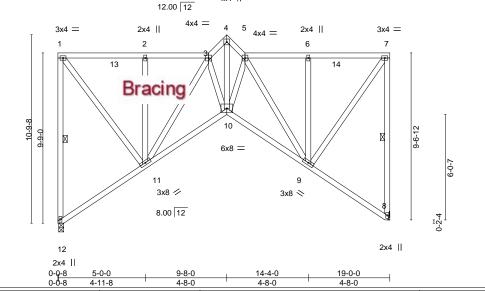


Job Truss Truss Type Qty Ply IC CONST. - STAR LAKE T34271071 4053706 T32 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jun 13 2024 MiTek Industries, Inc. Tue Jun 25 10:26:38 2024 Page 1

ID:0fjyxFmf\_V25FPfYuE4z\_sy7obA-ZHYTpVwbblt78Vs3wPilFIMaUvHkjrE8iBTcdGz2mdF 10-8-8 5-0-0 19-0-0 9-8-0 1-0-8 1-0-8 5-0-0

4x4 ||

Scale = 1:66.0



LOADIN	G (psf)	SPACING- 2	-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.06	10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.11	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.16	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI20	)14	Matri	x-MS						Weight: 168 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.3 WFBS

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

Max Horz 12=-24(LC 8)

Max Uplift 12=-180(LC 12), 8=-177(LC 13) Max Grav 12=692(LC 1), 8=692(LC 1)

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

1-12=-653/203, 1-2=-421/110, 2-3=-421/110, 3-4=-1053/252, 4-5=-1055/261, TOP CHORD

5-6=-401/95, 6-7=-401/95, 7-8=-657/188 BOT CHORD 10-11=-260/992. 9-10=-231/984

WFBS 1-11=-178/686, 2-11=-290/158, 3-11=-785/182, 4-10=-308/1293, 5-9=-814/220,

6-9=-276/151, 7-9=-161/683

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-8-0, Zone3 9-8-0 to 10-8-8, Zone1 10-8-8 to 18-10-4 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) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 12 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) 12=180, 8=177.

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Structural wood sheathing directly applied or 5-7-15 oc purlins,

1-12, 7-8

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

except end verticals.

1 Row at midpt

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

June 26,2024



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9-8-0

4-8-0

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

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

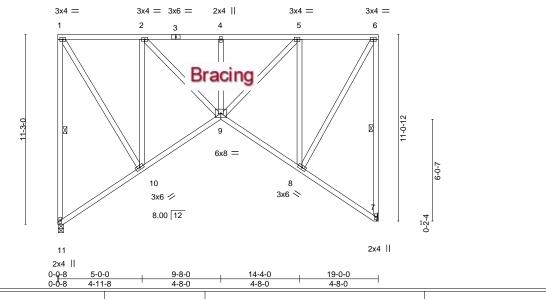
1-11, 6-7

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

except end verticals.

1 Row at midpt

Scale = 1:68.3



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.04	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.07	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TP	12014	Matri	x-MS						Weight: 168 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 11=0-3-8, 7=Mechanical

Max Uplift 11=-226(LC 8), 7=-226(LC 8) Max Grav 11=692(LC 1), 7=692(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-11=-653/448, 1-2=-340/214, 2-4=-707/448, 4-5=-707/448, 5-6=-323/203,

6-7=-656/446

**BOT CHORD** 9-10=-266/430 8-9=-253/411

 $1\hbox{-}10\hbox{-}-402/639, 2\hbox{-}10\hbox{-}-658/517, 2\hbox{-}9\hbox{-}-333/521, 5\hbox{-}9\hbox{-}-348/545, 5\hbox{-}8\hbox{-}-663/517.}$ **WEBS** 

6-8=-403/641

## NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=226, 7=226.

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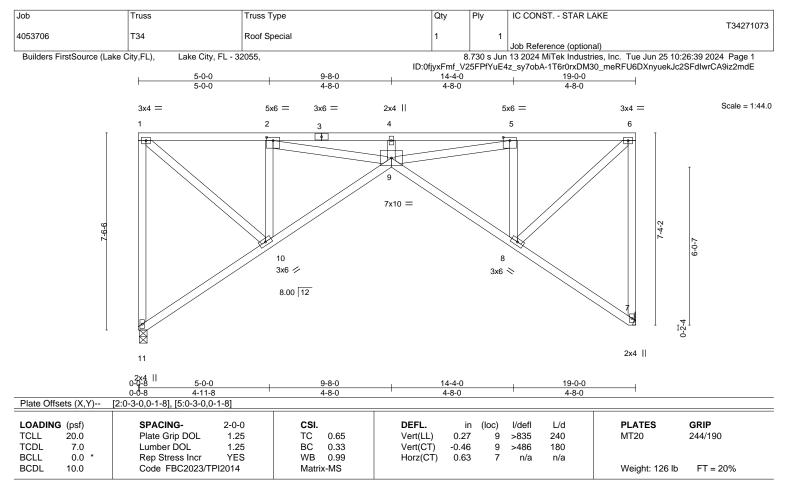
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 26,2024



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LUMBER-

2x4 SP No 2 2x4 SP No 2

TOP CHORD BOT CHORD WFBS 2x4 SP No 3 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-11-7 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-2-13 oc bracing.

REACTIONS. 11=0-3-8, 7=Mechanical

Max Uplift 11=-226(LC 8), 7=-226(LC 8) Max Grav 11=692(LC 1), 7=692(LC 1)

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

TOP CHORD 1-11=-658/451, 1-2=-662/416, 2-4=-3168/2008, 4-5=-3168/2008, 5-6=-631/397,

6-7=-661/450

BOT CHORD 9-10=-503/802 8-9=-479/765

WFBS 1-10=-541/860, 2-10=-862/645, 2-9=-1627/2562, 5-9=-1647/2593, 5-8=-859/639,

6-8=-532/847

## NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=226, 7=226.

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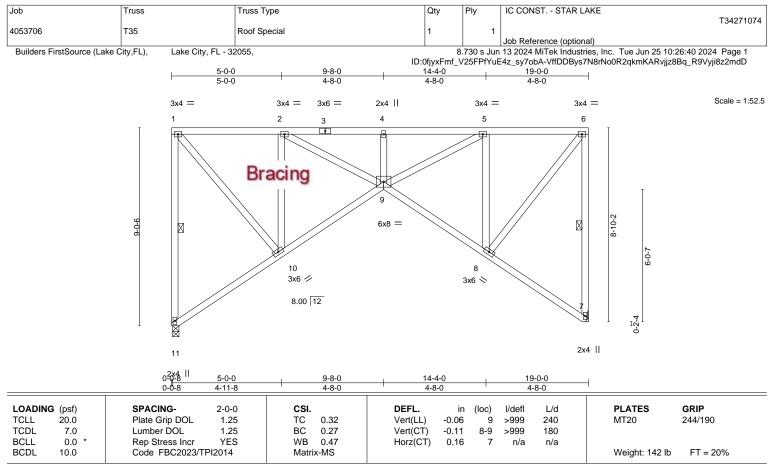
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 26,2024



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





BOT CHORD

WFBS

LUMBER-

REACTIONS.

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

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

> (size) 11=0-3-8, 7=Mechanical Max Uplift 11=-226(LC 8), 7=-226(LC 8) Max Grav 11=692(LC 1), 7=692(LC 1)

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

TOP CHORD 1-11=-654/448, 1-2=-476/299, 2-4=-1329/842, 4-5=-1329/842, 5-6=-453/285,

6-7=-657/447

**BOT CHORD** 9-10=-368/587 8-9=-350/560

**WEBS** 1-10=-453/720, 2-10=-746/573, 2-9=-616/967, 5-9=-632/993, 5-8=-747/570,

6-8=-449/715

## NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=226, 7=226.

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Structural wood sheathing directly applied or 4-11-7 oc purlins,

1-11, 6-7

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

except end verticals.

1 Row at midpt

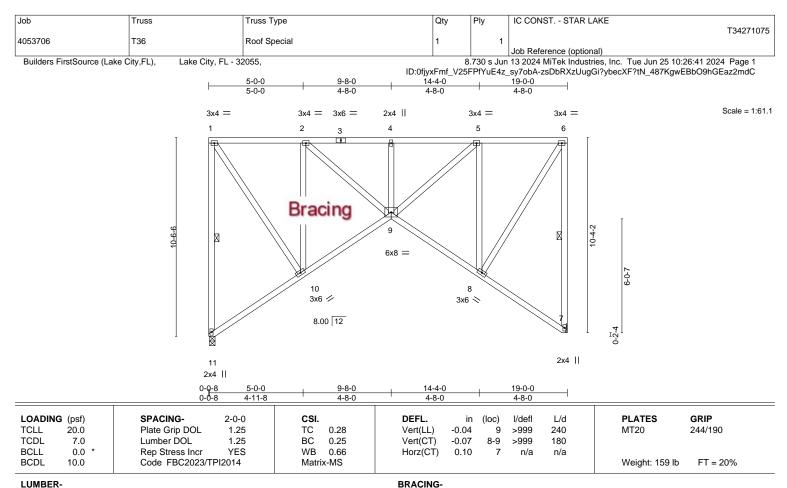
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TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 11=0-3-8, 7=Mechanical

Max Uplift 11=-226(LC 8), 7=-226(LC 8) Max Grav 11=692(LC 1), 7=692(LC 1)

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

TOP CHORD 1-11=-653/448, 1-2=-375/236, 2-4=-834/528, 4-5=-834/528, 5-6=-356/224,

6-7=-656/447

**BOT CHORD** 9-10=-292/472 8-9=-278/450

 $1\text{-}10\text{=-}414/658, 2\text{-}10\text{=-}680/531, 2\text{-}9\text{=-}385/604, 5\text{-}9\text{=-}400/628, 5\text{-}8\text{=-}684/530.}$ **WEBS** 

6-8=-414/658

## NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=226, 7=226.

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

1-11, 6-7

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

except end verticals.

1 Row at midpt

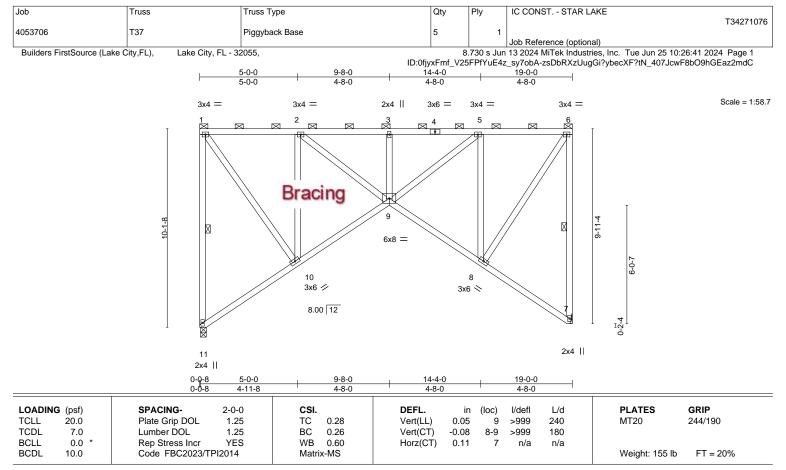
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LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins (5-11-4 max.): 1-6, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD

WFBS 1 Row at midpt 1-11, 6-7

REACTIONS.

(size) 11=0-3-8, 7=Mechanical Max Uplift 11=-226(LC 8), 7=-226(LC 8) Max Grav 11=692(LC 1), 7=692(LC 1)

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

TOP CHORD 1-11=-653/448, 1-2=-397/250, 2-3=-928/588, 3-5=-928/588, 5-6=-378/238,

6-7=-656/447

**BOT CHORD** 9-10=-309/499 8-9=-294/476

1-10=-422/671, 2-10=-695/541, 2-9=-426/668, 5-9=-441/693, 5-8=-699/539. **WEBS** 

6-8=-421/670

## NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=226, 7=226,
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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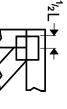


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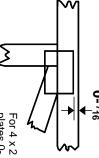


## Symbols

## PLATE LOCATION AND ORIENTATION



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



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

This symbol indicates the required direction of slots in connector plates.

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

## PLATE SIZE



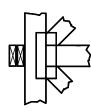
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## **BEARING**



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

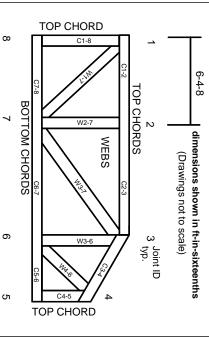
## Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

## **Numbering System**



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

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

# Product Code Approvals

ICC-ES Reports:

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

# Design General Notes

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

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

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## 

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

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- 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.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.