

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

RE: 3884251 - IC CONST. - CHILDERS RES.

MiTek, Inc.

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

Customer Info: IC CONSTRUCTION Project Name: Childers Addtiion Model: Customer Info: IC CONSTRUCTION Project Name: Childers Addtiion Model: Customer Info: IC CONSTRUCTION Project Name: Childers Addtiion Model: Customer Info: IC CONSTRUCTION Project Name: Childers Addtiion Model: Customer Info: IC CONSTRUCTION Project Name: Childers Addtiion Model: Customer Info: IC CONSTRUCTION Project Name: Childers Addtiion Model: Customer Info: IC CONSTRUCTION Project Name: Childers Addtiion Model: Customer Info: IC CONSTRUCTION Project Name: Childers Addtiion Model: Customer Info: IC CONSTRUCTION Project Name: Childers Addtiion Model: Customer Info: IC Customer Inf

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

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 11 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
1	T33025973	CJ01	2/25/24
2	T33025974	CJ03	2/25/24
3	T33025975	CJ05	2/25/24
4	T33025976	EJ01	2/25/24
5	T33025977	HJ10	2/25/24
6	T33025978	T01	2/25/24
7	T33025979	T02	2/25/24
8	T33025980	T03	2/25/24
9	T33025981	T04	2/25/24
10	T33025982	T05	2/25/24
11	T33025983	T06	2/25/24

an, and onic copies

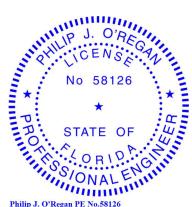
This item has been digitally signed and sealed by ORegan, Philip, PE on the date Printed copies of this document are not considered signed and sealed and the signed and sealed and sealed

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

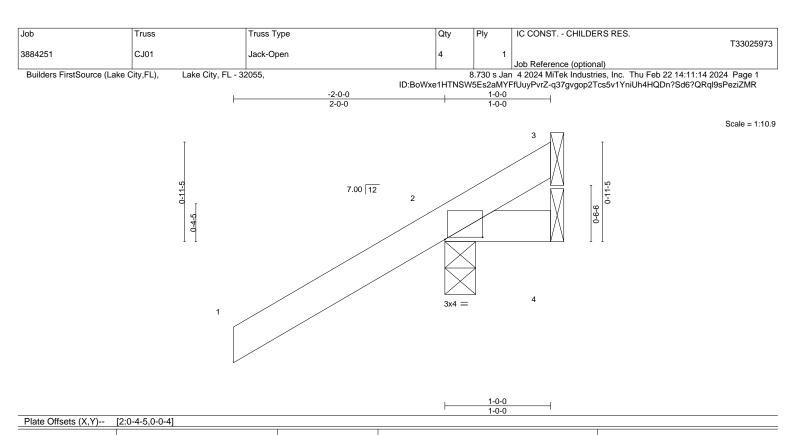
My license renewal date for the state of Florida is February 28, 2025.

**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.



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

February 25,2024



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.34	Vert(LL) 0.00 7 :	>999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(CT) 0.00 7 :	>999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2	n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP			Weight: 7 lb FT = 20%

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=61(LC 12)

Max Uplift 3=-26(LC 1), 2=-125(LC 12), 4=-49(LC 19) Max Grav 3=20(LC 16), 2=254(LC 1), 4=37(LC 16)

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

## NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=125.

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.

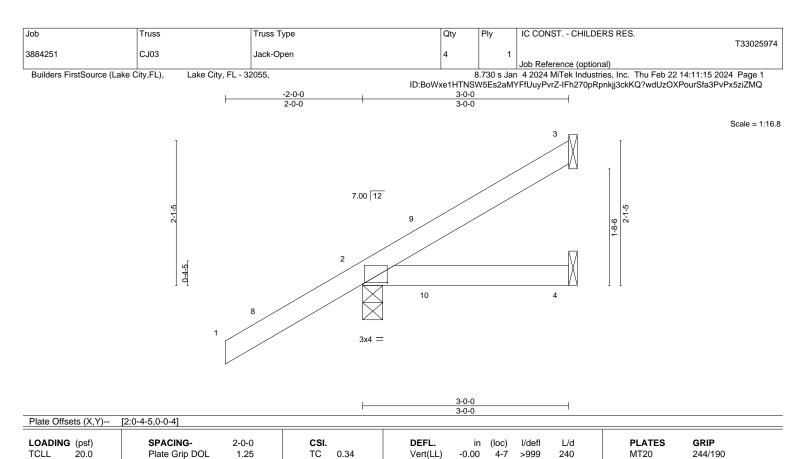
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 25,2024









TCDL 7.0 Lumber DOL 0.0 **BCLL** 

1.25 вс 0.08 WB Rep Stress Incr YES 0.00 10.0 Code FBC2023/TPI2014 Matrix-MP

Horz(CT) -0.00 BRACING-

-0.01

4-7

>999

n/a

180

n/a

Vert(CT)

TOP CHORD

**BOT CHORD** 

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

Weight: 13 lb

FT = 20%

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

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

Max Horz 2=105(LC 12)

Max Uplift 3=-40(LC 12), 2=-88(LC 12), 4=-17(LC 9) Max Grav 3=54(LC 19), 2=253(LC 1), 4=48(LC 3)

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

## NOTES-

REACTIONS.

BCDL

- 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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 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:

February 25,2024







Job Truss Truss Type Qty Ply IC CONST. - CHILDERS RES. T33025975 CJ05 3884251 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Feb 22 14:11:16 2024 Page 1 ID:BoWxe1HTNSW5Es2aMYFfUuyPvrZ-mSERKMp3a4saKDBxu7W99iVZHp6mavvkl3ezTXziZMP Scale = 1:22.5 7.00 12 5-0-0

LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (lo	loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.34	Vert(LL) 0.03 4	4-7 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.23	Vert(CT) -0.05 4	4-7 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP	, ,		Weight: 20 lb FT = 20%

LUMBER-

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

5-0-0

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

REACTIONS.

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

Max Horz 2=150(LC 12)

Max Uplift 3=-81(LC 12), 2=-90(LC 12)

Max Grav 3=117(LC 19), 2=313(LC 1), 4=87(LC 3)

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

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

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.

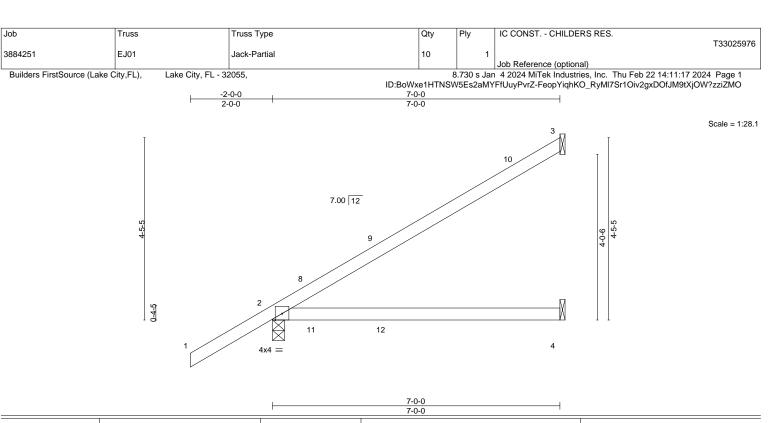
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 25,2024



🗥 WARNING - 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. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.60 Vert(LL) 0.18 4-7 >458 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.51 Vert(CT) -0.21 >389 180 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) -0.01 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 26 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=188(LC 12) Max Uplift 3=-106(LC 12), 2=-100(LC 12), 4=-47(LC 9) Max Grav 3=165(LC 19), 2=380(LC 1), 4=125(LC 3)

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

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 3=106.

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

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

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

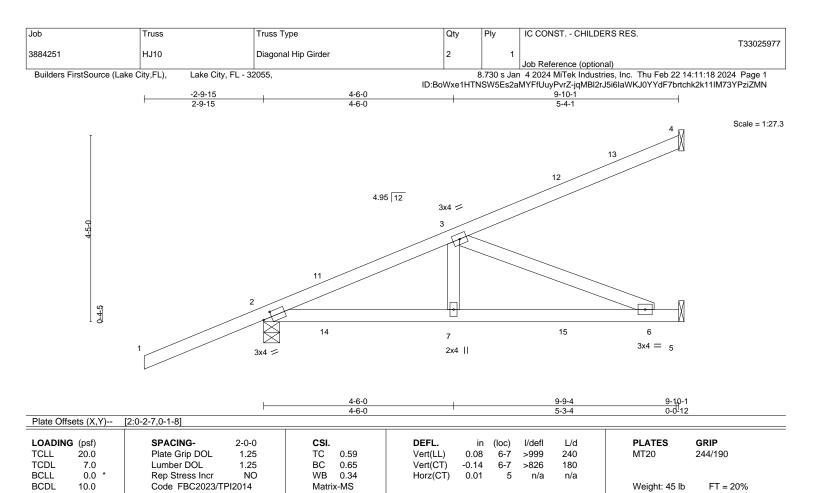
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 25,2024









BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

BOT CHORD WFBS 2x4 SP No 3

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

Max Horz 2=188(LC 8) Max Uplift 4=-95(LC 8), 2=-317(LC 4), 5=-162(LC 5)

Max Grav 4=150(LC 1), 2=485(LC 38), 5=287(LC 37)

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

TOP CHORD 2-3=-767/337

**BOT CHORD** 2-7=-391/615, 6-7=-391/615 WFBS 3-7=-86/262, 3-6=-662/421

## 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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=317, 5=162.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 102 lb up at 1-6-1, 64 lb down and 102 lb up at 1-6-1, 82 lb down and 44 lb up at 4-4-0, 82 lb down and 44 lb up at 4-4-0, and 116 lb down and 90 lb up at 7-1-15, and 116 lb down and 90 lb up at 7-1-15 on top chord, and 55 lb down and 75 lb up at 1-6-1, 55 lb down and 75 lb up at 1-6-1, 46 lb down and 23 lb up at 4-4-0, 46 lb down and 23 lb up at 4-4-0, and 73 lb down at 7-1-15, and 73 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

## LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 7=5(F=3, B=3) 11=49(F=25, B=25) 12=-63(F=-32, B=-32) 14=70(F=35, B=35) 15=-49(F=-25, B=-25)

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

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

Rigid ceiling directly applied or 9-1-6 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:

February 25,2024



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 CHILDERS RES.		
					T3302597	8	
3884251	T01	Hip Girder	1	1			
		,			Job Reference (optional)		
3884251							
,	* *	ID:RoWyo	1HTNSW/	Fe2aMVF	fl luvPvr7-fDLIvAksad IM0pgLij7zh5KYg8zOS IWXm IDgcAcIzj7MI		

20-7-11

4-11-11

15-8-0

4-11-11

Scale = 1:57.6

33-4-0

2-0-0

31-4-0

3-11-2

31-/-0

Structural wood sheathing directly applied or 2-0-6 oc purlins.

Rigid ceiling directly applied or 6-11-8 oc bracing.

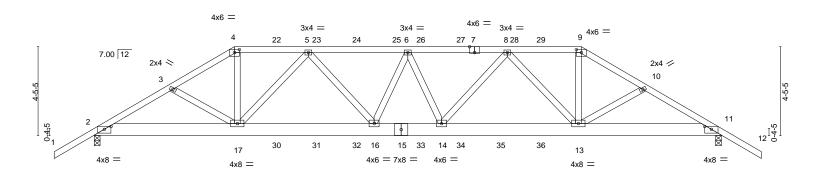
27-4-14

3-0-14

24-4-0

3-8-6

24-4-0



		1-0-0		10-11-10	17-4-0		27-7-	0		31-7-0	
		7-0-0	I	6-11-13	3-4-7		6-11-1	13	ı	7-0-0	ı
Plate Offsets (2	(,Y) [2:0	0-4-0,0-1-11], [4:0-3-0,0	-1-12], [7:0-3-	0,Edge], [9:0-3-0,0-	1-12], [11:0-4-0,0-1	11]					
LOADING (psi	•)	SPACING-	2-0-0	CSI.	DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 20.	j	Plate Grip DOL	1.25	TC 0.81	Vert(L	0.31	14-16	>999	240	MT20	244/190
TCDL 7.	)	Lumber DOL	1.25	BC 0.26	Vert(C	) -0.39	14-16	>943	180		
BCLL 0.	o *	Rep Stress Incr	NO	WB 0.78	Horz(0	T) 0.07	11	n/a	n/a		
BCDL 10.	)	Code FBC2023/TPI	2014	Matrix-MS						Weight: 216 lb	FT = 20%
					1						

**BRACING-**

TOP CHORD

**BOT CHORD** 

17-/-3

LUMBER-

WFBS

-2-0-0 2-0-0

TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E

2x4 SP No.3

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

Max Horz 2=-130(LC 27)

7-0-0

Max Uplift 2=-1264(LC 5), 11=-1297(LC 4) Max Grav 2=2338(LC 1), 11=2381(LC 1)

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

7-0-0

3-0-14

10-8-6

3-8-6

TOP CHORD 2-3=-4064/2338, 3-4=-3918/2332, 4-5=-3411/2065, 5-6=-4828/2919, 6-8=-4846/2920,

8-9=-3481/2118, 9-10=-4000/2395, 10-11=-4146/2401

BOT CHORD 2-17=-2064/3464, 16-17=-2638/4352, 14-16=-2997/4962, 13-14=-2630/4395,

11-13=-2012/3535

WEBS 4-17=-1001/1655, 5-17=-1449/923, 5-16=-491/774, 6-16=-371/249, 6-14=-319/209,

8-14=-452/727, 8-13=-1400/882, 9-13=-969/1623

## 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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

13-11-13

- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1264, 11=1297.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 126 lb down and 112 lb up at 7-0-0, 126 lb down and 109 lb up at 9-0-12, 126 lb down and 109 lb up at 11-0-12, 126 lb down and 109 lb up at 13-0-12, 126 lb down and 106 lb up at 15-0-12, 126 lb down and 106 lb up at 15-0-12, 126 lb down and 109 lb up at 120-3-4, and 126 lb down and 109 lb up at 22-3-4, and 258 lb down and 217 lb up at 24-4-0 on top chord, and 321 lb down and 258 lb up at 7-0-0, 85 lb down and 67 lb up at 9-0-12, 85 lb down and 67 lb up at 11-0-12, 85 lb down and 67 lb up at 15-0-12, 85 lb down and 67 lb up at 15-0-12, 85 lb down and 67 lb up at 15-0-12, 85 lb down and 67 lb up at 15-0-15, 85 lb down and 85
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (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:

February 25,2024

## LOAD CASE(S) Standard

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 CHILDERS RES.
					T33025978
3884251	T01	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Feb 22 14:11:20 2024 Page 2 ID:BoWxe1HTNSW5Es2aMYFfUuyPvrZ-fDUxAksadJM0pqUi7zb5KYg8zQSJWXmJDgcAclziZML

### LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-9=-54, 9-12=-54, 2-11=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 9=-180(F) 15=-61(F) 17=-284(F) 13=-284(F) 22=-106(F) 23=-106(F) 24=-106(F) 25=-106(F) 26=-106(F) 27=-106(F) 28=-106(F) 29=-106(F) 30=-61(F) 31=-61(F) 32=-61(F) 33=-61(F) 34=-61(F) 35=-61(F) 35=-61(F)



Job	Truss	Truss Type	Qty	Ply	IC CONST CHILDERS RES.	
					T33025979	
3884251	T02	Hip	1	1		
					Job Reference (optional)	
Builders FirstSource (Lake C	ity,FL), Lake City, FL - 3	2055,	8	.730 s Jai	n 4 2024 MiTek Industries, Inc. Thu Feb 22 14:11:22 2024 Page 1	_
		ID:BoWx	xe1HTNSV	/5Es2aM`	YFfUuyPvrZ-bbcibPug9wck28e5FOdZPzlZFE1s a2cg 5HhBziZMJ	

22-4-0

6-8-0

22-4-0

26-5-1

31-4-0

4-10-15

31-/-0

Structural wood sheathing directly applied or 4-0-9 oc purlins.

5-14. 5-10

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

1 Row at midpt

15-8-0

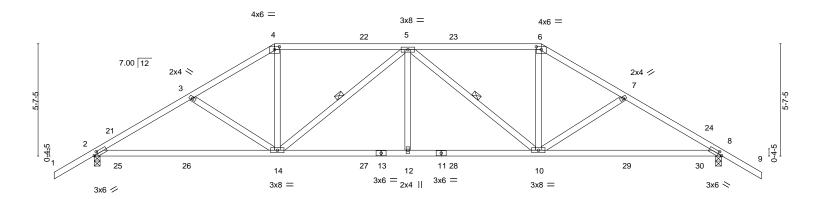
6-8-0

15-8-0

Scale = 1:57.6

33-4-0

2-0-0



	ı	9-0-0	1		3-0-0	1	22-4-0			31-4-0	
		9-0-0		6	6-8-0	1	6-8-0			9-0-0	
Plate Offse	ets (X,Y)	[2:0-2-3,0-1-8], [4:0-3-0,0	-1-12], [6:0-3-	0,0-1-12], [8:0	0-2-3,0-1-8]						
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	0.50	Vert(LL)	0.18 14-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.76	Vert(CT)	-0.32 10-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.08 8	n/a	n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matri	x-MS					Weight: 166 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

REACTIONS.

WFBS

-2-0-0 2-0-0

4-1<u>0-15</u>

4-10-15

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

2x4 SP No.3

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=159(LC 11)

Max Uplift 2=-491(LC 9), 8=-491(LC 8)

a\_n\_n

Max Grav 2=1267(LC 1), 8=1267(LC 1)

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

2-3=-1911/853, 3-4=-1693/800, 4-5=-1423/726, 5-6=-1423/726, 6-7=-1693/800, TOP CHORD

7-8=-1911/853

**BOT CHORD** 2-14=-769/1618. 12-14=-819/1742. 10-12=-819/1742. 8-10=-673/1618

**WEBS**  $3-14=-264/177,\ 4-14=-309/563,\ 5-14=-493/308,\ 5-10=-493/308,\ 6-10=-309/563,$ 

7-10=-265/177

## 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 -2-0-0 to 1-1-10, Zone1 1-1-10 to 9-0-0, Zone2 9-0-0 to 13-5-3, Zone1 13-5-3 to 22-4-0, Zone2 22-4-0 to 26-6-12, Zone1 26-6-12 to 33-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=491, 8=491.

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:

February 25,2024



🗥 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 CHILD	ERS RES.	
								T33025980
3884251	T03	Hip		1	1			
						Job Reference (option	nal)	
Builders FirstSource (Lake C	ity,FL), Lake City, FL - 3	2055,		3	3.730 s Jar	4 2024 MiTek Indust	tries, Inc. Thu Feb 22 14:11:23 2	024 Page 1
			ı	ID:BoWxe1HTNS	W5Es2aM	YFfUuyPvrZ-3o94olvS	SwEkbgHDHo58oyAInCdKgj0fm\	erqDdziZMI
-2-0-0	5-11-2 <sub>i</sub> 1	1-0-0	15-8-0	20-4-0	1	25-4-15	31-4-0	33-4-0
2-0-0	5-11-2 5	5-0-15	4-8-0	4-8-0	-	5-0-15	5-11-2	2-0-0

5-0-15

Scale = 1:57.6

5-11-2

Structural wood sheathing directly applied or 3-10-3 oc purlins.

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

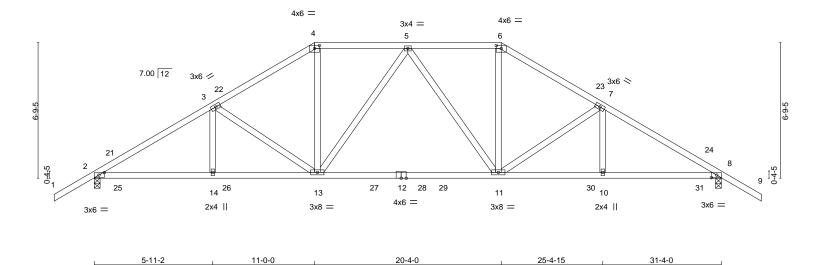


Plate Off	Plate Offsets (X,Y) [2:0-3-3,0-1-8], [4:0-3-0,0-1-12], [6:0-3-0,0-1-12], [8:0-3-3,0-1-8]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.29 11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.92	Vert(CT)	-0.50 11-13	>759	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	8 80.0	n/a	n/a		
BCDL	10.0	Code FBC2023/TI	PI2014	Matri	x-MS					Weight: 174 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

9-4-0

LUMBER-

REACTIONS.

WFBS

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

2x4 SP No.3

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

5-11-2

5-0-15

Max Horz 2=-188(LC 10)

Max Uplift 2=-436(LC 9), 8=-436(LC 8) Max Grav 2=1352(LC 2), 8=1352(LC 2)

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

TOP CHORD 2-3=-2094/869, 3-4=-1721/751, 4-5=-1443/686, 5-6=-1443/686, 6-7=-1721/751,

7-8=-2094/869

BOT CHORD 2-14=-706/1763. 13-14=-706/1763. 11-13=-572/1521. 10-11=-672/1763. 8-10=-672/1763 **WEBS** 

 $3-13=-424/239,\ 4-13=-286/648,\ 5-13=-266/180,\ 5-11=-266/180,\ 6-11=-286/648,$ 

7-11=-425/239

## 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 -2-0-0 to 1-1-10, Zone1 1-1-10 to 11-0-0, Zone2 11-0-0 to 15-8-0, Zone1 15-8-0 to 20-4-0, Zone2 20-4-0 to 24-9-3, Zone1 24-9-3 to 33-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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=436, 8=436.

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:

February 25,2024



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



IC CONST. - CHILDERS RES. Job Truss Truss Type Qty Ply T33025981 3884251 T04 diH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Feb 22 14:11:25 2024 Page 1 ID:BoWxe1HTNSW5Es2aMYFfUuyPvrZ-0AHqDRwjSr?lvbNfwWBG1bN5iR5jBrT2MyKxlVziZMG

18-4-0

13-0-0 6-5-0

24-9-0

Scale = 1:58.5

2-0-0

31-4-0

6-7-0

**PLATES** 

Weight: 174 lb

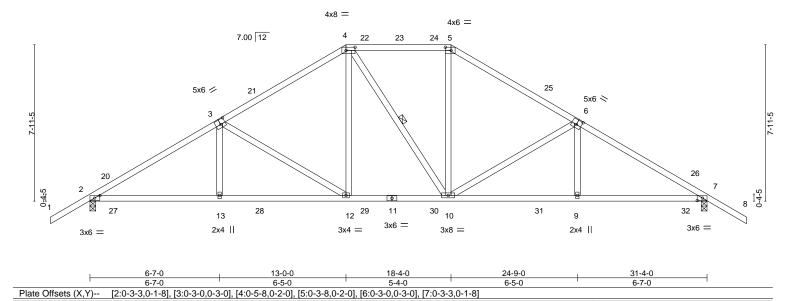
MT20

Structural wood sheathing directly applied or 3-10-0 oc purlins.

GRIP

244/190

FT = 20%



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

WFBS

(loc)

-0.11 12-13

-0.21 12-13

0.08

I/defI

>999

>999

1 Row at midpt

n/a

L/d

240

180

n/a

Rigid ceiling directly applied or 7-1-14 oc bracing.

LUMBER-

REACTIONS.

LOADING (psf)

**TCLL** 

TCDL

**BCLL** 

BCDL

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

20.0

7.0

0.0

10.0

2x4 SP No 3

(size) 2=0-3-8, 7=0-3-8 Max Horz 2=-217(LC 10)

Max Uplift 2=-377(LC 9), 7=-377(LC 8) Max Grav 2=1344(LC 2), 7=1341(LC 2)

SPACING-

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=-2075/865 3-4=-1546/692 4-5=-1270/642 5-6=-1540/692 6-7=-2069/865 **BOT CHORD** 2-13=-643/1743, 12-13=-643/1744, 10-12=-428/1275, 9-10=-664/1739, 7-9=-664/1738 WFBS 3-13=-102/280, 3-12=-565/307, 4-12=-233/506, 5-10=-233/495, 6-10=-565/306,

2-0-0

1.25

1.25

YES

CSI.

TC

BC

WB

Matrix-MS

0.43

0.63

0.62

6-9=-102/279

## 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 -2-0-0 to 1-1-10, Zone1 1-1-10 to 13-0-0, Zone2 13-0-0 to 17-5-3, Zone1 17-5-3 to 18-4-0, Zone2 18-4-0 to 22-9-3, Zone1 22-9-3 to 33-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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=377, 7=377.

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.

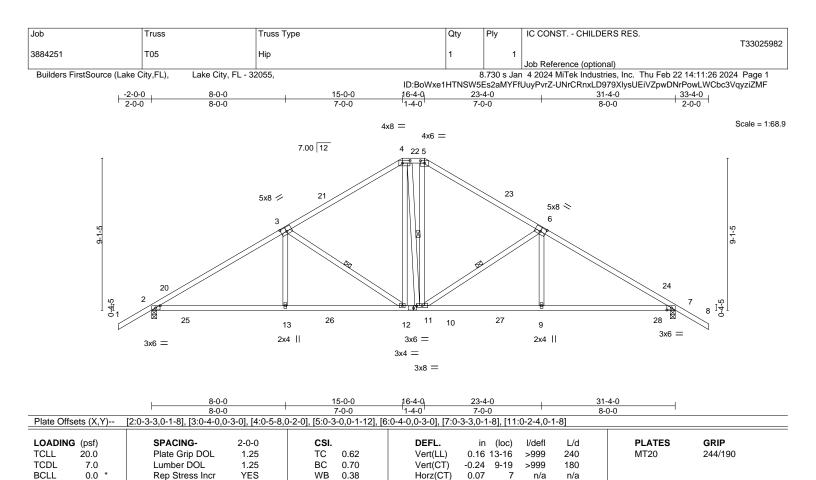
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 25,2024



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





BRACING-

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

BCDL

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

10.0

WFBS 2x4 SP No 3

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=246(LC 11)

Max Uplift 2=-344(LC 12), 7=-344(LC 13) Max Grav 2=1267(LC 1), 7=1267(LC 1)

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

Code FBC2023/TPI2014

TOP CHORD 2-3=-1866/818, 3-4=-1298/635, 4-5=-1033/590, 5-6=-1301/636, 6-7=-1865/818 **BOT CHORD** 2-13=-590/1534, 12-13=-590/1534, 10-12=-318/1030, 9-10=-611/1532, 7-9=-611/1533 WFBS 3-13=-127/333, 3-12=-615/353, 4-12=-227/387, 5-10=-252/414, 6-10=-610/350,

6-9=-124/328

## 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 -2-0-0 to 1-1-10, Zone1 1-1-10 to 15-0-0, Zone3 15-0-0 to 16-4-0, Zone2 16-4-0 to 20-9-3, Zone1 20-9-3 to 33-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MS

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=344, 7=344.

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.

Weight: 183 lb

Structural wood sheathing directly applied or 3-4-13 oc purlins.

3-12, 4-10, 6-10

Rigid ceiling directly applied or 7-3-1 oc bracing.

1 Row at midpt

FT = 20%

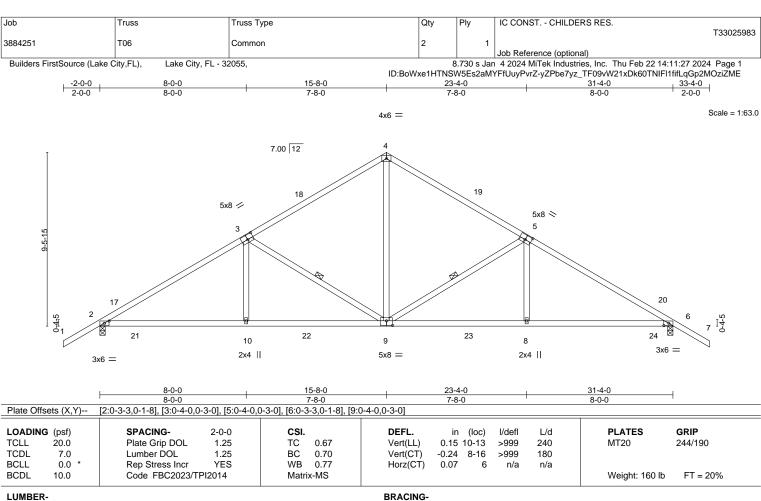
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 25,2024



M WARNING - 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** 

WFBS

LUMBER-

REACTIONS.

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

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=-255(LC 10)

Max Uplift 2=-342(LC 12), 6=-342(LC 13) Max Grav 2=1267(LC 1), 6=1267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1868/825 3-4=-1275/631 4-5=-1275/631 5-6=-1868/825 **BOT CHORD** 2-10=-597/1537, 9-10=-597/1537, 8-9=-616/1537, 6-8=-616/1537 WFBS 4-9=-474/802, 5-9=-642/369, 5-8=-125/332, 3-9=-642/369, 3-10=-125/332

## 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 -2-0-0 to 1-1-10, Zone1 1-1-10 to 15-8-0, Zone2 15-8-0 to 20-1-3, Zone1 20-1-3 to 33-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=342, 6=342.

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

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

5-9 3-9

Rigid ceiling directly applied or 7-2-15 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:

February 25,2024

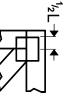


M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

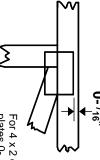


## Symbols

## PLATE LOCATION AND ORIENTATION



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



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

This symbol indicates the required direction of slots in connector plates.

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

## PLATE SIZE

4 × 4

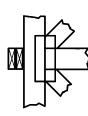
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



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

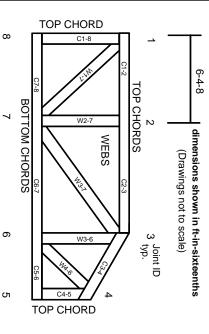
## Industry Standards:

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.

© 2023 MiTek® All Rights Reserved

## 

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.

Ņ

Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

- 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.

'n

- 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.

œ

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the 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.
- 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.