

RE: 3708825 LOT 24 RP MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer: RON DAVID PLASTERING Project Name: 3708825 Lot/Block: 24 Model: Custom

Address: TBD Subdivision: Rose Pointe

City: Columbia Cty State: FL

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-16 Wind Speed: 130 mph Floor Load: N/A psf Roof Load: 37.0 psf

This package includes 18 individual, dated 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	T31824031	CJ01	10/12/2023
2	T31824032	CJ03	10/12/2023
3	T31824033	CJ05	10/12/2023
4	T31824034	EJ01	10/12/2023
5	T31824035	EJ02	10/12/2023
6	T31824036	HJ08	10/12/2023
7	T31824037	HJ10	10/12/2023
8	T31824038	T01	10/12/2023
9	T31824039	T01G	10/12/2023
10	T31824040	T02	10/12/2023
11	T31824041	T03	10/12/2023
12	T31824042	T04	10/12/2023
13	T31824043	T05	10/12/2023
14	T31824044	T06	10/12/2023
15	T31824045	T07	10/12/2023
16	T31824046	T08	10/12/2023
17	T31824047	T08G	10/12/2023
18	T31824048	T09	10/12/2023

This item has been electronically signed and sealed by ORegan, Philip using a Digital Signature.

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The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

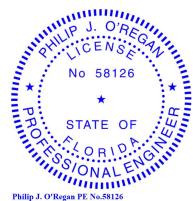
based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

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

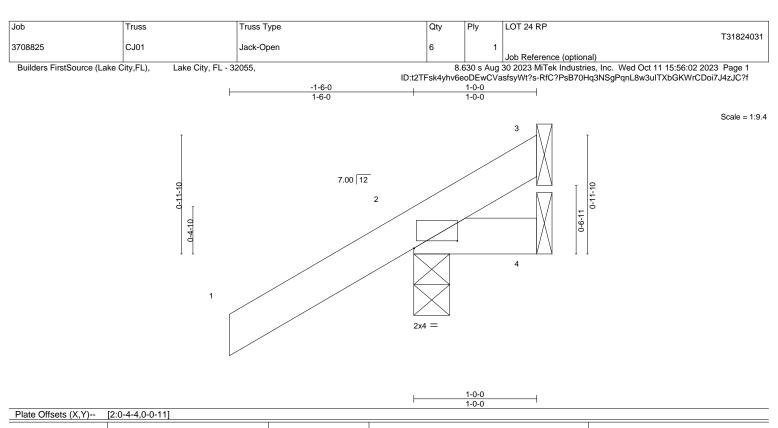
Florida COA: 6634

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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

October 12, 2023



LOADING	VI /	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	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	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 FBC2020/T	PI2014	Matri	x-MP						Weight: 6 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=46(LC 12)

Max Uplift 3=-6(LC 1), 2=-68(LC 12), 4=-22(LC 19) Max Grav 3=7(LC 16), 2=179(LC 1), 4=20(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3, 68 lb uplift at joint 2 and 22 lb uplift at joint 4.

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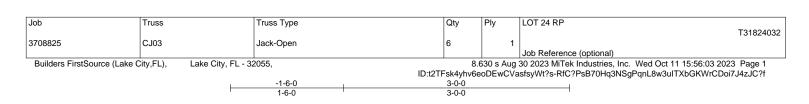
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

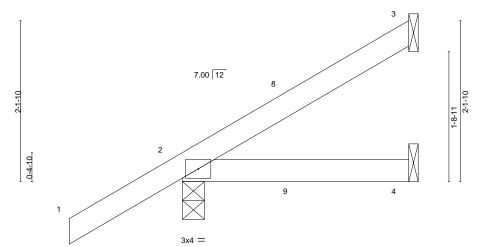
October 12,2023











3-0-0

LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MP						Weight: 12 lb	FT = 20%

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=85(LC 12)

Max Uplift 3=-39(LC 12), 2=-54(LC 12), 4=-16(LC 9) Max Grav 3=61(LC 19), 2=210(LC 1), 4=50(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 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 39 lb uplift at joint 3, 54 lb uplift at joint 2 and 16 lb uplift at joint 4.

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Scale = 1:15.3

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

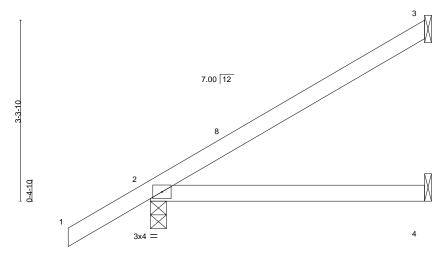
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🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job Truss Truss Type Qty Ply LOT 24 RP T31824033 3708825 CJ05 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:04 2023 Page 1 ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -1-6-0 1-6-0 Scale = 1:21.0



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	0.28	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2	2014	Matri	x-MP						Weight: 19 lb	FT = 20%

LUMBER-

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

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

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

Max Horz 2=125(LC 12)

Max Uplift 3=-73(LC 12), 2=-57(LC 12)

Max Grav 3=118(LC 19), 2=276(LC 1), 4=89(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 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 73 lb uplift at joint 3 and 57 lb uplift at ioint 2.

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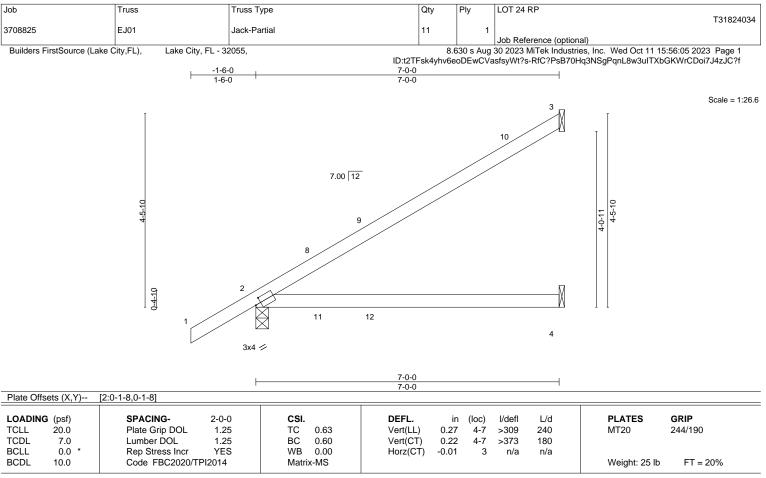
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October 12,2023









LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 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) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=159(LC 12)

Max Uplift 3=-94(LC 12), 2=-66(LC 12), 4=-40(LC 9) Max Grav 3=165(LC 19), 2=346(LC 1), 4=126(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 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 94 lb uplift at joint 3, 66 lb uplift at joint 2 and 40 lb uplift at joint 4.

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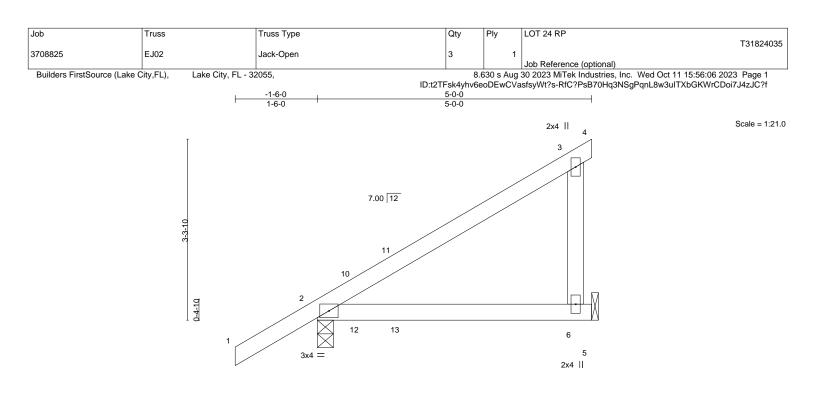
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LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.06	6-9	>964	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	0.05	6-9	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	2	n/a	n/a			
BCDI	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 23 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

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

BOT CHORD 2x4 SP No.3 WFBS

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

Max Horz 2=125(LC 12)

Max Uplift 2=-54(LC 12), 6=-77(LC 12) Max Grav 2=268(LC 1), 6=172(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 5-0-0 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
- 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 54 lb uplift at joint 2 and 77 lb uplift at joint 6.

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Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

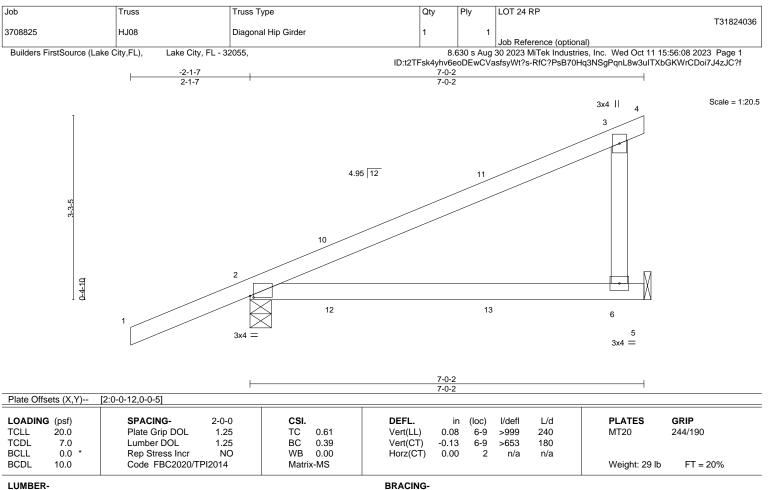
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October 12,2023



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TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

BOT CHORD WFBS 2x4 SP No 3

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

Max Horz 2=124(LC 8)

Max Uplift 2=-176(LC 4), 5=-128(LC 8) Max Grav 2=391(LC 1), 5=246(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 2 and 128 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 73 lb up at 1-6-1, 59 lb down and 73 lb up at 1-6-1, and 74 lb down and 42 lb up at 4-4-0, and 74 lb down and 42 lb up at 4-4-0 on top chord, and 19 lb down and 50 lb up at 1-6-1, 19 lb down and 50 lb up at 1-6-1, and 18 lb down and 24 lb up at 4-4-0, and 18 lb down and 24 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 13=-5(F=-3, B=-3)

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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.

except end verticals.

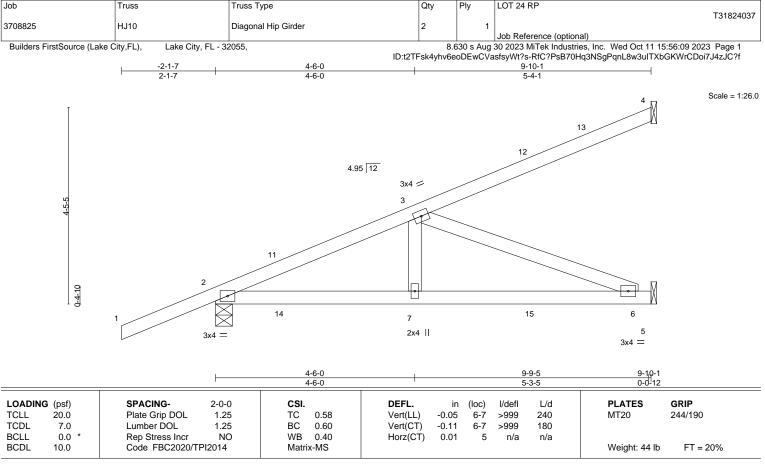
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 12,2023



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





LUMBER-

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

BRACING-

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

Rigid ceiling directly applied or 9-7-14 oc bracing.

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

Max Horz 2=159(LC 8)

Max Uplift 4=-84(LC 8), 2=-261(LC 4), 5=-149(LC 5) Max Grav 4=149(LC 1), 2=527(LC 1), 5=299(LC 1)

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

TOP CHORD 2-3=-712/313

BOT CHORD 2-7=-362/629 6-7=-362/629 WFBS 3-7=-62/283, 3-6=-674/387

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 4, 261 lb uplift at joint 2 and 149 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 73 lb up at 1-6-1, 59 lb down and 73 lb up at 1-6-1, 74 lb down and 42 lb up at 4-4-0, 74 lb down and 42 lb up at 4-4-0, and 106 lb down and 84 lb up at 7-1-15, and 106 lb down and 84 lb up at 7-1-15 on top chord, and 42 lb down and 50 lb up at 1-6-1, 42 lb down and 50 lb up at 1-6-1, 19 lb down and 24 lb up at 4-4-0, 19 lb down and 24 lb up at 4-4-0, and 69 lb down at 7-1-15, and 69 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) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

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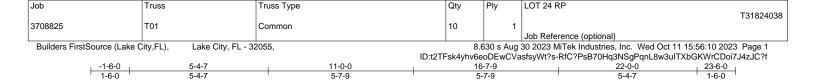
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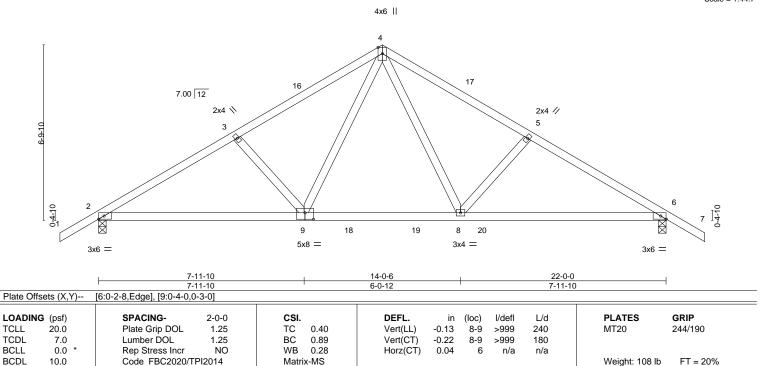
11-0-0

Scale = 1:44.7

22-0-0

Structural wood sheathing directly applied or 4-2-12 oc purlins.

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



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=161(LC 11)

Max Uplift 2=-251(LC 12), 6=-256(LC 13) Max Grav 2=1201(LC 19), 6=1217(LC 20)

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

TOP CHORD 2-3=-1787/372, 3-4=-1633/361, 4-5=-1665/370, 5-6=-1817/380

BOT CHORD 2-9=-341/1621, 8-9=-143/1099, 6-8=-240/1527

WFBS 4-8=-191/823, 5-8=-306/191, 4-9=-174/764, 3-9=-306/191

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 23-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 2 and 256 lb uplift at
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

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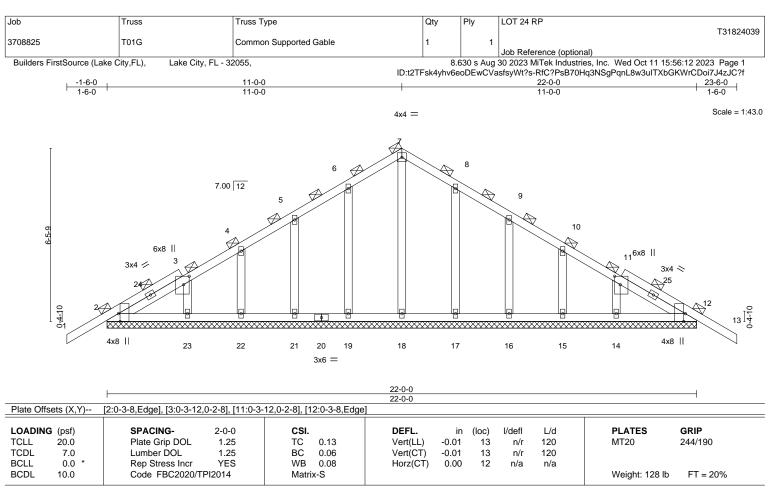
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 12,2023



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LUMBER-

2x4 SP No 2

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

BRACING-

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

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

REACTIONS. All bearings 22-0-0.

Max Horz 2=-153(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 21, 22, 23, 17, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 21, 22, 23, 17, 16, 15, 14

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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 23-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 21, 22, 23, 17, 16, 15, 14.
- 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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October 12,2023

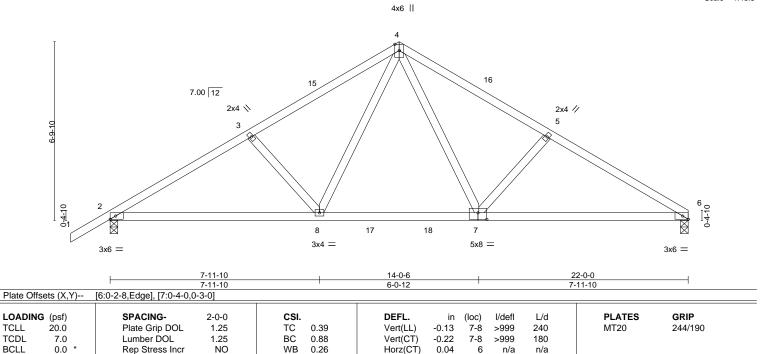


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Scale = 1:43.8



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

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

Max Horz 2=154(LC 9)

Max Uplift 6=-213(LC 13), 2=-247(LC 12) Max Grav 6=1104(LC 20), 2=1183(LC 19)

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

Code FBC2020/TPI2014

TOP CHORD 2-3=-1753/364, 3-4=-1601/354, 4-5=-1607/359, 5-6=-1762/371

BOT CHORD 2-8=-348/1582 7-8=-149/1059 6-7=-260/1487

WFBS 4-7=-182/776, 5-7=-315/196, 4-8=-176/764, 3-8=-306/191

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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) 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) 6=213, 2=247.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 8-12=-20, 7-8=-80(F=-60), 7-9=-20

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Weight: 106 lb

Structural wood sheathing directly applied or 4-3-1 oc purlins.

Rigid ceiling directly applied or 9-11-3 oc bracing.

FT = 20%

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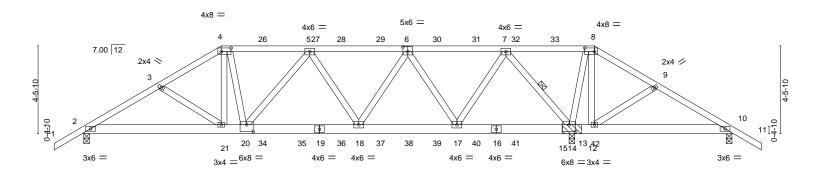
Job Truss Truss Type Qty Ply LOT 24 RP T31824041 3708825 T03 Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:15 2023 Page 1 ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

16-6-0

4-11-14

21-5-14 26-0-0 29-0-10 4-6-2 3-0-10 3-11-6

Scale = 1:58.6



	1	7-0-0 ρ	- I- IZ _I	14-0-0	19-0-0	24-10-4	20-0-0 ₁	33-0-0	1
		7-0-0	-1-12 ^l	5-10-4	4-11-15	5-10-4	կ-1-12 ^l	7-0-0	
Plate Offs	sets (X,Y)	[4:0-6-0,0-2-4], [6:0-3-0,0)-3-0], [8:0-6-0	0-2-4], [14:0-4-0,0)-4-4], [20:0-4-0,0-4-4]				
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 0.8	7 Vert(LL)	0.12 18-20 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.5	4 Vert(CT)	-0.18 18-20 >999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.6	8 Horz(CT)	0.04 14 n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS	s			Weight: 212 lb	FT = 20%
								_	

10_0_0

LUMBER-TOP CHORD **BOT CHORD**

WFBS

2x4 SP No 2 2x6 SP No 2

2x4 SP No.3

BRACING-

TOP CHORD BOT CHORD WFBS

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

33-0-0

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

26-0-0

24-10-4

REACTIONS.

2=0-3-8, 14=(0-3-8 + bearing block) (req. 0-4-10), 10=0-3-8

8-1-12

1/1-0-0

Max Horz 2=-110(LC 6)

7-0-0

Max Uplift 2=-685(LC 8), 14=-1804(LC 5), 10=-546(LC 19) Max Grav 2=1583(LC 19), 14=3901(LC 1), 10=384(LC 7)

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

TOP CHORD 2-3=-2661/1227, 3-4=-2510/1191, 4-5=-2270/1128, 5-6=-2230/1104, 6-7=-1064/554,

7-8=-706/1553, 8-9=-627/1403, 9-10=-658/1314

7-0-0

3-0-10

11-6-2

4-6-2

BOT CHORD 2-21=-1055/2272, 20-21=-998/2145, 18-20=-1183/2438, 17-18=-909/1829,

12-14=-1164/613, 10-12=-1115/564

WEBS 4-21=-175/485, 4-20=-313/482, 5-20=-317/229, 5-18=-408/224, 6-18=-357/778, $6\text{-}17\text{=-}1477/732, \, 7\text{-}17\text{=-}826/1761, \, 7\text{-}14\text{=-}2652/1293, \, 8\text{-}14\text{=-}1396/670, \, 8\text{-}12\text{=-}133/313}$

NOTES-

- 1) 2x6 SP No.2 bearing block 12" long at jt. 14 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=685, 14=1804, 10=546.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 101 lb up at 7-0-0, 119 lb down and 98 lb up at 9-0-12, 119 lb down and 98 lb up at 11-0-12, 119 lb down and 98 lb up at 13-0-12, 119 lb down and 98 lb up at 15-0-12, 119 lb down and 91 lb up at 16-6-0, 119 lb down and 98 lb up at 17-11-4, 119 lb down and 98 lb up at 19-11-4, 119 lb down and 98 lb up at 21-11-4, and 119 lb down and 98 lb up at 23-11-4, and 229 lb down and 196 lb up at 26-0-0 on top chord, and 336 lb down and 240 lb up at 7-0-0, 86 lb down and 60 lb up at 9-0-12, 86 lb down and 60 lb up at 11-0-12, 86 lb down and 60 lb up at 13-0-12, 86 lb down and 60 lb up at 15-0-12, 86 lb down and 60 lb up at 16-6-0, 86 lb down and 60 lb up at 17-11-4, 86 lb down and 60 lb up at 19-11-4, 86 lb down and 60 lb up at 21-11-4, and 86 lb down and 60 lb up at 23-11-4, and 336 lb down and 240 lb up at 25-11-4 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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October 12,2023

LOAD CASE(S) verify dealed 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	LOT 24 RP
					T31824041
3708825	T03	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:16 2023 Page 2 ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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, 8-11=-54, 2-10=-20

Concentrated Loads (lb)

264-109(F) 6=-109(F) 8=-182(F) 21=-336(F) 12=-336(F) 26=-109(F) 27=-109(F) 28=-109(F) 29=-109(F) 30=-109(F) 31=-109(F) 32=-109(F) 33=-109(F) 34=-64(F) 35=-64(F) 36=-64(F) 37=-64(F) 38=-64(F) 39=-64(F) 40=-64(F) 41=-64(F) 42=-64(F)



Job Truss Truss Type Qty Ply LOT 24 RP T31824042 3708825 T04 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:17 2023 Page 1 ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

24-0-0

24-10-4

1 Row at midpt

28-3-8

4-3-8

16-6-0

7-6-0

16-6-0

Scale = 1:58.6

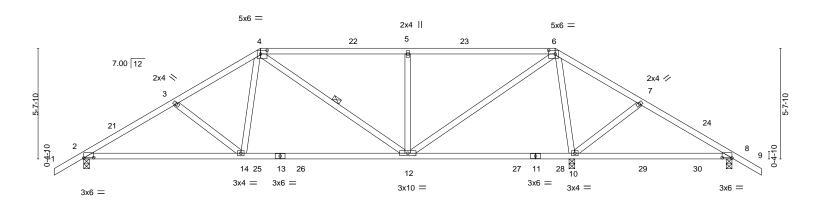
33-0-0

4-8-8

33-0-0

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

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



		8-1-12		8-4-4	1	8-4-4		1	8-1-12	
Plate Offs	ets (X,Y)	[2:0-6-0,0-0-4], [4:0-4-0,0-2	4], [6:0-4-0,	0-2-4], [8:0-6-0,0-0-4]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	0.16 10-20	>618	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	0.14 10-20	>719	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.03 10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI	2014	Matrix-MS					Weight: 170 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

REACTIONS.

-1-6-0 1-6-0

4-8-8

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

2x4 SP No.3 WFBS

(size) 2=0-3-8, 10=0-3-8, 8=0-3-8 Max Horz 2=-135(LC 10)

8-1-12

Max Uplift 2=-237(LC 12), 10=-271(LC 13), 8=-91(LC 13) Max Grav 2=998(LC 25), 10=1663(LC 2), 8=200(LC 24)

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

TOP CHORD 2-3=-1446/337, 3-4=-1286/299, 4-5=-904/223, 5-6=-904/223, 6-7=-75/459,

7-8=-102/329

BOT CHORD 2-14=-299/1234. 12-14=-218/991. 8-10=-254/88

WEBS $3-14=-277/152,\ 4-14=-45/501,\ 5-12=-470/229,\ 6-12=-280/1291,\ 6-10=-1202/258,$

7-10=-276/180

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-10, Interior(1) 1-9-10 to 9-0-0, Exterior(2R) 9-0-0 to 13-8-0, Interior(1) 13-8-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-5-0, Interior(1) 28-5-0 to 34-6-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 8 except (jt=lb) 2=237, 10=271.

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October 12,2023



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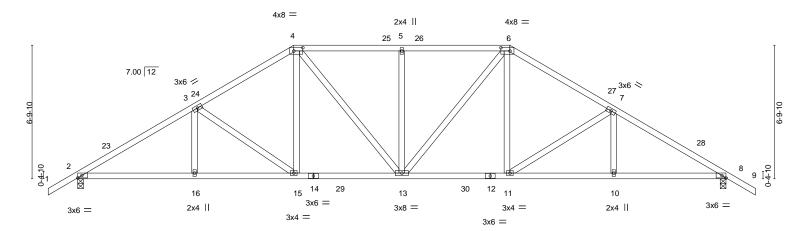
Job Truss Truss Type Qty Ply LOT 24 RP T31824043 3708825 T05 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:18 2023 Page 1 ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

16-6-0

5-6-0

22-0-0 27-3-8 33-0-0 5-6-0 5-8-8

Scale = 1:58.6



1	5-11-7	11-0-0	16-6-0	22-0-0	27-3-8	33-0-0	1
	5-11-7	5-0-9	5-6-0	5-6-0	5-3-8	5-8-8	7
Plate Offsets (X,	Y) [4:0-5-8,0-2-0], [6:0	0-5-8,0-2-0], [8:0-2-8,Edg	je]				

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	0.34	Vert(LL)	-0.13 1	3-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.22 13	3-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 188 lb	FT = 20%

LUMBER-

WFBS

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 3-8-11 oc purlins. Rigid ceiling directly applied or 9-6-0 oc bracing.

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

Max Horz 2=-161(LC 10)

Max Uplift 2=-292(LC 12), 8=-292(LC 13) Max Grav 2=1402(LC 2), 8=1402(LC 2)

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

2-3=-2243/424, 3-4=-1836/378, 4-5=-1739/353, 5-6=-1739/353, 6-7=-1840/376, TOP CHORD

7-8=-2256/428

BOT CHORD 2-16=-378/1889, 15-16=-378/1889, 13-15=-225/1540, 11-13=-137/1542, 10-11=-276/1902,

11-0-0

5-0-9

8-10=-276/1902

WEBS 3-15=-518/188, 4-15=-73/501, 4-13=-160/387, 5-13=-339/169, 6-13=-161/386,

6-11=-67/494, 7-11=-523/190

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-10, Interior(1) 1-9-10 to 11-0-0. Exterior(2R) 11-0-0 to 15-8-0, Interior(1) 15-8-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-8-0, Interior(1) 26-8-0 to 34-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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=292, 8=292.

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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

October 12,2023



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20-0-0

7-0-0

6-10-0

6-10-0

, 26-10-0

6-10-0

6-10-0

1 Row at midpt

Scale = 1:59.6

33-0-0

6-2-0

6-2-0

Structural wood sheathing directly applied or 3-6-12 oc purlins.

Rigid ceiling directly applied or 9-4-3 oc bracing.

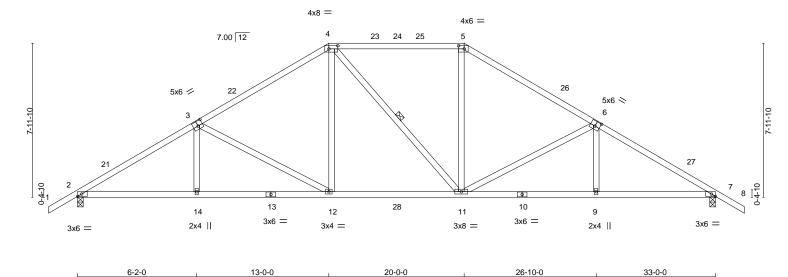


Plate Off	Plate Offsets (X,Y) [3:0-3-0,0-3-0], [4:0-5-8,0-2-0], [5:0-3-8,0-2-0], [6:0-3-0,0-3-0], [7:0-2-8,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.15 11-12	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.24 11-12	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.09 7	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS					Weight: 179 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WFBS

7-0-0

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 2=0-3-8, 7=0-3-8 Max Horz 2=-187(LC 10)

Max Uplift 2=-288(LC 12), 7=-288(LC 13) Max Grav 2=1406(LC 19), 7=1400(LC 20)

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

TOP CHORD 2-3=-2242/421 3-4=-1710/342 4-5=-1406/346 5-6=-1699/342 6-7=-2232/421 **BOT CHORD** 2-14=-395/1977, 12-14=-395/1977, 11-12=-185/1416, 9-11=-269/1882, 7-9=-269/1882 WFBS $3-14=0/268,\ 3-12=-652/238,\ 4-12=-69/587,\ 5-11=-64/553,\ 6-11=-653/239,\ 6-9=0/267$

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-10, Interior(1) 1-9-10 to 13-0-0, Exterior(2R) 13-0-0 to 17-8-0, Interior(1) 17-8-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-8-0, Interior(1) 24-8-0 to 34-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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=288, 7=288.

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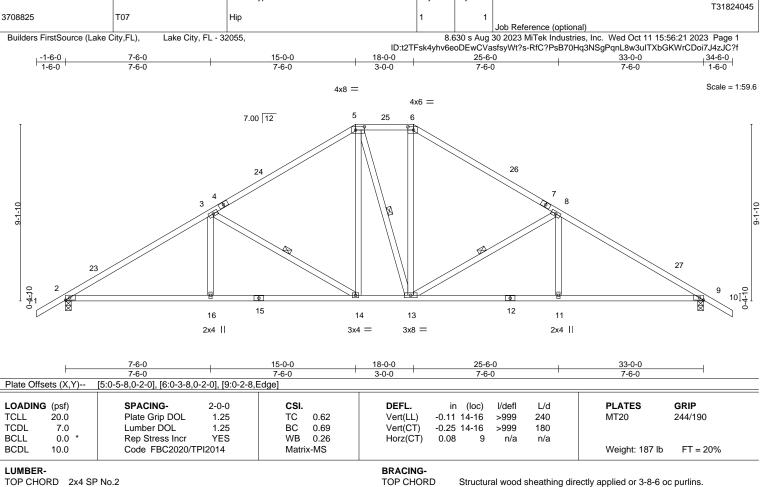
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BOT CHORD

WFBS

Qty

Ply

LOT 24 RP

Rigid ceiling directly applied or 9-4-10 oc bracing.

3-14, 5-13, 8-13

1 Row at midpt

BOT CHORD 2x4 SP No 2 WFBS

2x4 SP No 3 (size) 2=0-3-8, 9=0-3-8

Truss

Truss Type

Max Horz 2=-213(LC 10) Max Uplift 2=-284(LC 12), 9=-284(LC 13) Max Grav 2=1302(LC 1), 9=1302(LC 1)

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

TOP CHORD 2-3=-2017/400 3-5=-1430/315 5-6=-1142/325 6-8=-1431/315 8-9=-2016/400 **BOT CHORD** 2-16=-378/1671, 14-16=-378/1671, 13-14=-142/1141, 11-13=-235/1670, 9-11=-235/1670 WFBS 3-16=0/329, 3-14=-648/275, 5-14=-104/421, 6-13=-106/423, 8-13=-646/276, 8-11=0/327

NOTES-

REACTIONS.

Job

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-10, Interior(1) 1-9-10 to 15-0-0, Exterior(2E) 15-0-0 to 18-0-0, Exterior(2R) 18-0-0 to 22-8-0, Interior(1) 22-8-0 to 34-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=284, 9=284.

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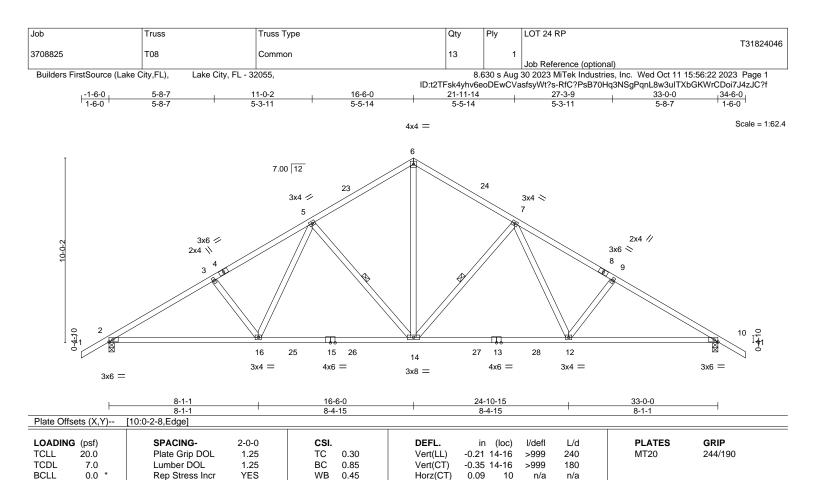
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BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

BCDL

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

10.0

2x4 SP No 3 WFBS

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=231(LC 11)

Max Uplift 2=-280(LC 12), 10=-280(LC 13) Max Grav 2=1489(LC 19), 10=1489(LC 20)

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

Code FBC2020/TPI2014

TOP CHORD 2-3=-2313/408, 3-5=-2179/412, 5-6=-1482/338, 6-7=-1482/338, 7-9=-2179/412,

9-10=-2313/408

2-16=-415/2120, 14-16=-269/1708, 12-14=-167/1594, 10-12=-259/1947 BOT CHORD **WEBS**

6-14=-221/1185, 7-14=-640/255, 7-12=-103/603, 9-12=-277/174, 5-14=-639/255,

5-16=-103/603, 3-16=-277/174

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-9-10, Interior(1) 1-9-10 to 16-6-0, Exterior(2R) 16-6-0 to 19-9-10, Interior(1) 19-9-10 to 34-6-0 zone; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=280, 10=280.

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Weight: 182 lb

Structural wood sheathing directly applied or 3-7-10 oc purlins.

7-14 5-14

Rigid ceiling directly applied or 9-1-8 oc bracing.

1 Row at midpt

FT = 20%

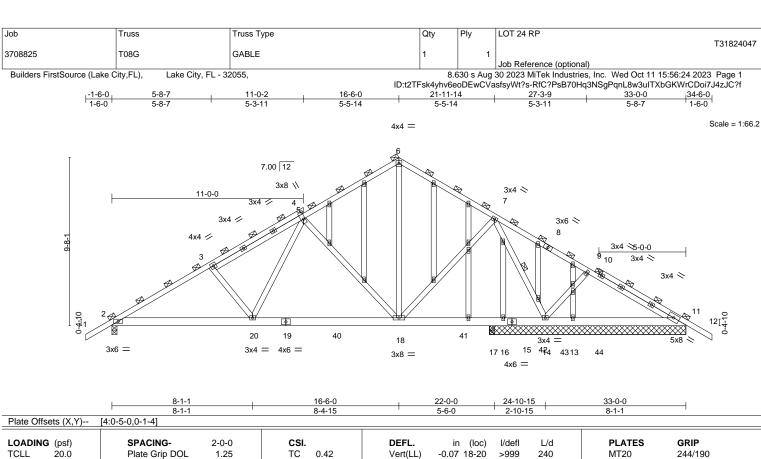
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TCDL 7.0 Lumber DOL

1.25 WB Rep Stress Incr 0.87 Code FBC2020/TPI2014 Matrix-MS

Vert(LL) -0.07 18-20 >999 240 Vert(CT) -0.12 18-20 >999 180 Horz(CT) 0.02 14 n/a n/a

MT20 244/190

> Weight: 269 lb FT = 20%

LUMBER-TOP CHORD

BCLL

BCDL

WERS

BOT CHORD

2x4 SP No 2 2x6 SP No 2 2x4 SP No 3 **BRACING-**

TOP CHORD 2-0-0 oc purlins (4-7-2 max.).

BOT CHORD

WFBS

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

6-0-0 oc bracing: 13-14,11-13. 1 Row at midpt 7-14

OTHERS 2x4 SP No.3

0.0

10.0

REACTIONS. All bearings 11-3-8 except (jt=length) 2=0-3-8, 17=0-3-8.

(lb) -Max Horz 2=-224(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 11, 17 except 2=-224(LC 27), 14=-327(LC 28), 16=-235(LC 15),

BC

0.46

13=-342(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 16, 11 except 2=1069(LC 15), 14=1246(LC 16), 13=773(LC 20),

11=292(LC 20), 17=401(LC 15)

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

TOP CHORD 2-3=-1522/301, 3-4=-1395/302, 4-6=-649/203, 6-7=-665/212, 7-9=-81/489,

9-11=-80/336

2-20=-316/1433, 18-20=-181/1040, 13-14=-253/104, 11-13=-253/104

WEBS 6-18=-102/367, 7-18=-66/545, 7-14=-1244/269, 9-14=-282/177, 4-18=-690/261,

NOTES-

BOT CHORD

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 17, 11 except (jt=lb) 2=224, 14=327, 16=235, 13=342.
- 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) 152 lb down and 97 lb up at 23-11-4, and 152 lb down and 97 lb up at 25-11-4, and 369 lb down and 253 lb up at 27-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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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Job	Truss	Truss Type	Qty	Ply	LOT 24 RP
3708825	T08G	GABLE	4	1	T31824047
3700025	100G	GABLE		'	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Oct 11 15:56:24 2023 Page 2 ID:t2TFsk4yhv6eoDEwCVasfsyWt?s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

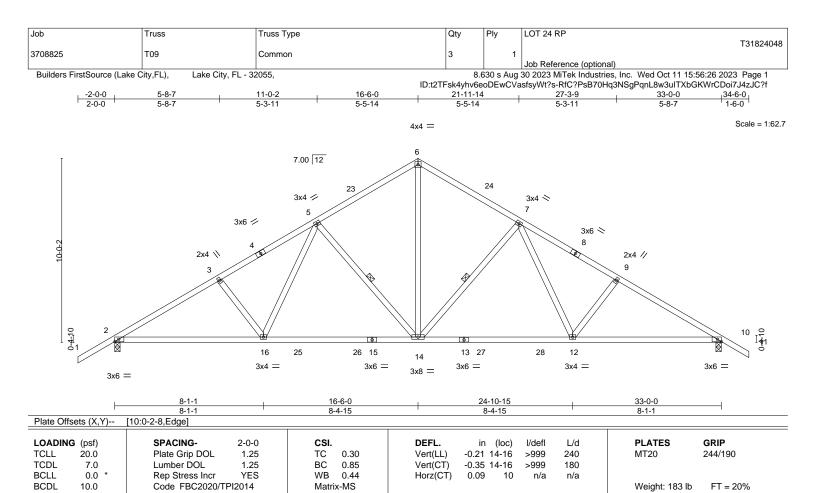
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-6=-54, 6-12=-54, 2-37=-20

Concentrated Loads (lb)

Vert: 42=-152(B) 43=-152(B) 44=-369(B)





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) 2=0-3-8, 10=0-3-8 Max Horz 2=236(LC 11)

Max Uplift 2=-291(LC 12), 10=-280(LC 13) Max Grav 2=1515(LC 19), 10=1488(LC 20)

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

TOP CHORD 2-3=-2313/401, 3-5=-2168/405, 5-6=-1481/336, 6-7=-1480/337, 7-9=-2178/412,

9-10=-2311/408

BOT CHORD 2-16=-407/2107, 14-16=-266/1703, 12-14=-166/1592, 10-12=-258/1945

WEBS 6-14=-220/1184, 7-14=-639/255, 7-12=-103/603, 9-12=-277/174, 5-14=-635/252,

5-16=-97/593, 3-16=-271/170

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-3-10, Interior(1) 1-3-10 to 16-6-0, Exterior(2R) 16-6-0 to 19-9-10, Interior(1) 19-9-10 to 34-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=291, 10=280.

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Structural wood sheathing directly applied or 3-7-10 oc purlins.

7-14 5-14

Rigid ceiling directly applied or 9-2-14 oc bracing.

1 Row at midpt

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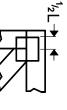


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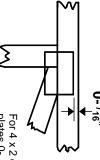


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

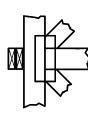
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

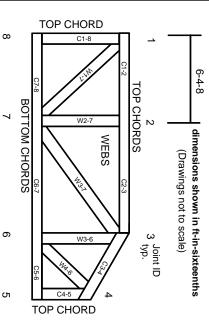
Industry Standards:

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.

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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.

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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.

'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.

9

- 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.