

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

RE: 4374769 - MARTIN - SPEC HSE

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer Info: BEN MARTIN Project Name: Spec House Model: Custom

Subdivision: Mayfair

Lot/Block: 3 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:

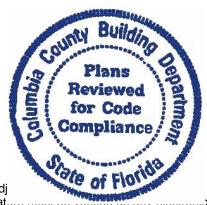
General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):**

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8

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

This package includes 12 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	T35780184	CJ01	12/11/24
2	T35780185	CJ03	12/11/24
2 3 4 5	T35780186	CJ05	12/11/24
4	T35780187	EJ01	12/11/24
5	T35780188	HJ10	12/11/24
6	T35780189	T01	12/11/24
7	T35780190	T02	12/11/24
8	T35780191	T03	12/11/24
9	T35780192	T04	12/11/24
10	T35780193	T05	12/11/24
11	T35780194	T06	12/11/24
12	T35780195	T06G	12/11/24



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

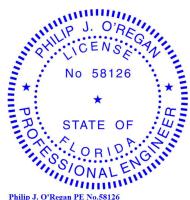
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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

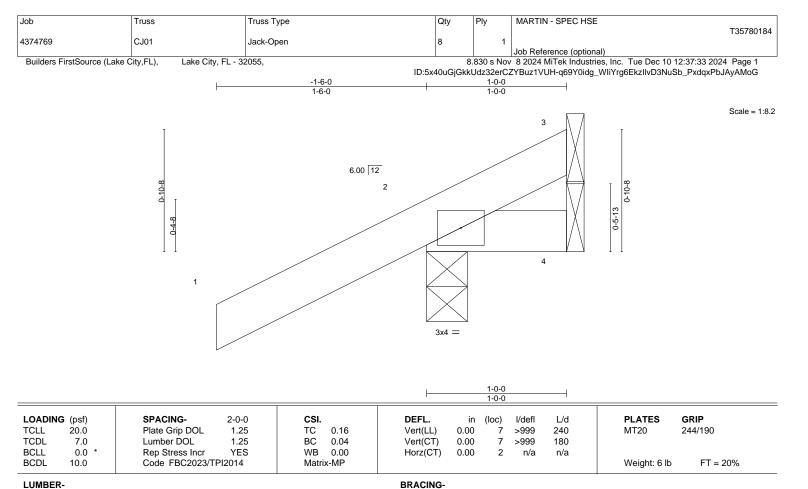
My license renewal date for the state of Florida is February 28, 2025.

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 Date:

December 11,2024



LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

TOP CHORD BOT CHORD

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=44(LC 12)

Max Uplift 3=-6(LC 1), 2=-79(LC 12), 4=-19(LC 1)

Max Grav 3=9(LC 8), 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.

Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

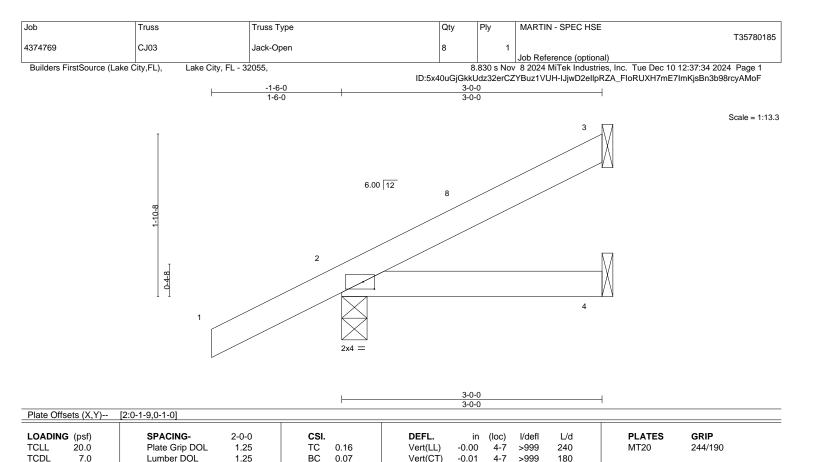
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 11,2024



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





Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

n/a

n/a

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

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

LUMBER-

REACTIONS.

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD

0.0

10.0

2x4 SP No.2

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=82(LC 12) Max Uplift 3=-41(LC 12), 2=-69(LC 12) Max Grav 3=60(LC 1), 2=210(LC 1), 4=50(LC 3)

Code FBC2023/TPI2014

Rep Stress Incr

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

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MP

0.00

- 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.

YES

- * 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.

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FT = 20%

Weight: 12 lb

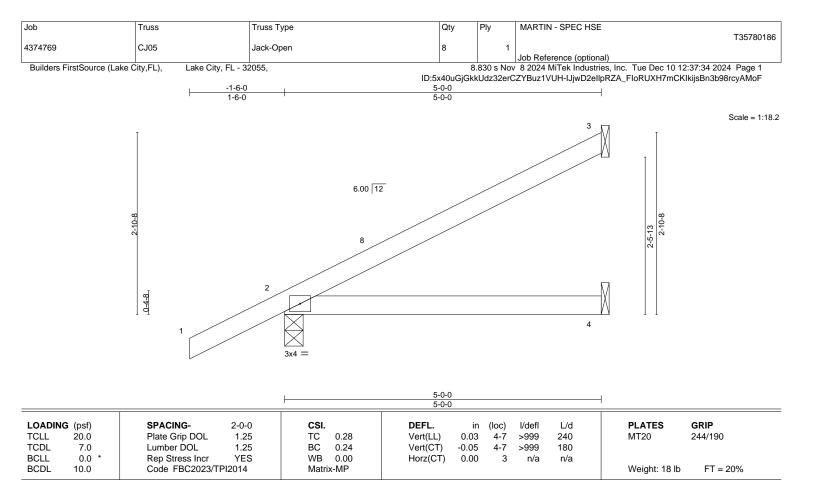
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LUMBER-

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. 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=120(LC 12)

Max Uplift 3=-77(LC 12), 2=-79(LC 12), 4=-1(LC 12) Max Grav 3=113(LC 1), 2=276(LC 1), 4=88(LC 3)

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

NOTES-

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

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December 11,2024







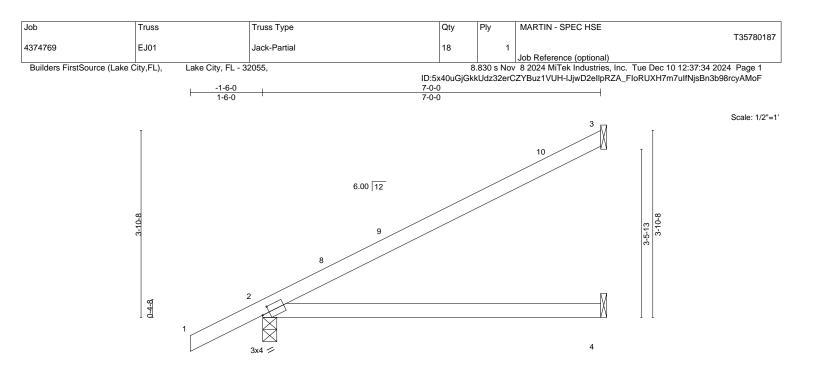


Plate Off	Plate Offsets (X,Y) [2:0-1-13,0-1-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.11	4-7	>741	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.22	4-7	>385	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TI	PI2014	Matri	x-MS						Weight: 25 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2

Max Horz 2=153(LC 12) Max Uplift 3=-99(LC 12), 2=-93(LC 12), 4=-1(LC 12) Max Grav 3=164(LC 1), 2=346(LC 1), 4=126(LC 3)

3=Mechanical, 2=0-3-8, 4=Mechanical

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.

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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.

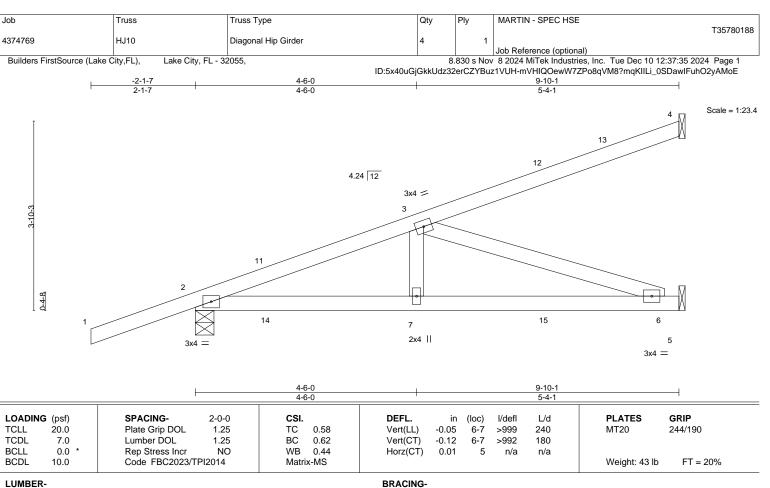
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 11,2024



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

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical Max Horz 2=167(LC 4)

Max Uplift 4=-93(LC 4), 2=-174(LC 4), 5=-85(LC 8) 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=-799/236

BOT CHORD 2-7=-278/729, 6-7=-278/729 **WEBS** 3-7=0/281, 3-6=-767/293

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; 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.
- * 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, 5 except (jt=lb) 2=174
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 63 lb up at 1-6-1, 69 lb down and 63 lb up at 1-6-1, 23 lb down and 46 lb up at 4-4-0, 23 lb down and 46 lb up at 4-4-0, and 45 lb down and 87 lb up at 7-1-15, and 45 lb down and 87 lb up at 7-1-15 on top chord, and 20 lb down and 39 lb up at 1-6-1, 20 lb down and 39 lb up at 1-6-1, 23 lb down at 4-4-0, 23 lb down at 4-4-0, and 41 lb down and 16 lb up at 7-1-15, and 41 lb down and 16 lb up 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=-6(F=-3, B=-3) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

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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.

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

December 11,2024

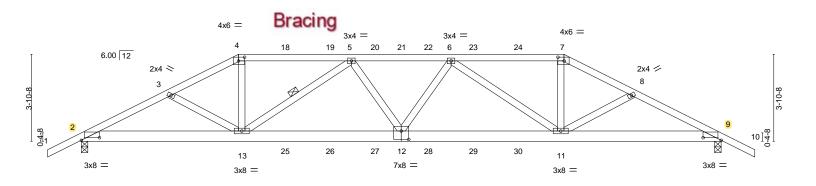


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty MARTIN - SPEC HSE T35780189 4374769 T01 Hip Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Dec 10 12:37:36 2024 Page 1 ID:5x40uGjGkkUdz32erCZYBuz1VUH-EhrgekfYHRhGPIPhwsW?NYrOI5OwBXX4WveFwVyAMoD 30-0-0 16-5-10 21-6-0 24-6-1 28-6-0 1-6-0 3-11-15 3-0-1 5-0-5 5-0-5 3-0-1 3-11-15 1-6-0

Scale = 1:51.3



		7-0-0		14-3-0	1	21-6-0			28-6-0		
	7-0-0			7-3-0		7-3-0		1	7-0-0		
Plate Offse	ets (X,Y)	[2:0-9-11,0-1-6], [4:0-3-4,0	-2-0], [7:0-3-4	,0-2-0], [9:0-9-11,0-1-6], [12:0-4-0,0-4-8]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC 0.95	Vert(LL)	0.24 12	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.43 11-12	>787	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.97	Horz(CT)	0.09 9	n/a	n/a			
BCDL	10.0	Code FBC2023/TP	12014	Matrix-MS					Weight: 165 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied.

1 Row at midpt

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

5-13

LUMBER-

2x4 SP No.2 TOP CHORD

BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26

2x4 SP No.3 **WEBS**

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

Max Horz 2=-71(LC 30)

Max Uplift 2=-803(LC 8), 9=-823(LC 9) Max Grav 2=2207(LC 1), 9=2244(LC 1)

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

TOP CHORD 2-3=-4382/1605, 3-4=-4222/1555, 4-5=-3815/1438, 5-6=-5120/1886, 6-7=-3887/1475,

7-8=-4304/1597, 8-9=-4464/1648

BOT CHORD 2-13=-1429/3879, 12-13=-1810/4967, 11-12=-1810/4990, 9-11=-1397/3952 WEBS

4-13=-461/1480, 5-13=-1468/646, 5-12=-54/416, 6-12=-18/398, 6-11=-1396/592,

7-11=-431/1444

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 102 lb up at 7-0-0, 110 lb down and 102 lb up at 9-0-12, 110 lb down and 102 lb up at 11-0-12, 110 lb down and 102 lb up at 13-0-12, 110 lb down and 94 lb up at 14-3-0, 110 lb down and 102 lb up at 15-5-4, 110 lb down and 102 lb up at 17-5-4, and 110 lb down and 102 lb up at 19-5-4, and 230 lb down and 200 lb up at 21-6-0 on top chord, and 335 lb down and 135 lb up at 7-0-0, 86 lb down and 21 lb up at 9-0-12, 86 lb down and 21 lb up at 11-0-12, 86 lb down and 21 lb up at 13-0-12, 86 lb down and 21 lb up at 14-3-0, 86 lb down and 21 lb up at 15-5-4, 86 lb down and 21 lb up at 17-5-4, and 86 lb down and 21 lb up at 19-5-4, and 335 lb down and 135 lb up at 21-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

December 11,2024

Continued on page 2





Job	Truss	Truss Type	Qty	Ply	MARTIN - SPEC HSE
					T35780189
4374769	T01	Hip Girder	2	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Dec 10 12:37:36 2024 Page 2 ID:5x40uGjGkkUdz32erCZYBuz1VUH-EhrgekfYHRhGPIPhwsW?NYrOI5OwBXX4WveFwVyAMoD

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-7=-54, 7-10=-54, 2-9=-20

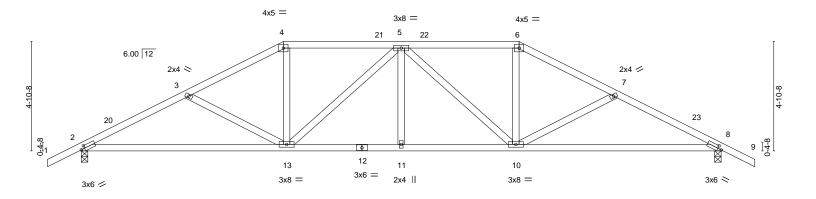
Concentrated Loads (lb)

Vert: 4=-110(B) 7=-182(B) 12=-64(B) 13=-335(B) 11=-335(B) 18=-110(B) 19=-110(B) 20=-110(B) 21=-110(B) 22=-110(B) 23=-110(B) 23=-110(B) 24=-110(B) 25=-64(B) 26=-64(B) 27=-64(B) 28=-64(B) 29=-64(B) 30=-64(B)



Job Truss Truss Type Qty MARTIN - SPEC HSE T35780190 4374769 T02 Hip 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Dec 10 12:37:37 2024 Page 1 ID:5x40uGjGkkUdz32erCZYBuz1VUH-itP2r3gA2kp71S_tTZ1EvlOizVeLw8oDlZNoSxyAMoC 30-0-0 19-6-0 28-6-0 23-8-8 1-6-0 4-9-8 4-2-8 5-3-0 5-3-0 4-2-8 4-9-8 1-6-0

Scale = 1:51.3



1	9-0-0	14-3-0	19-6-0	1 2	28-6-0	
	9-0-0	5-3-0	5-3-0		9-0-0	
Plate Offsets (X,Y)	[2:0-1-15,0-1-8], [8:0-1-15,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.25	TC 0.38	Vert(LL) -0.15 10-19	>999 240	MT20 244/190	
TCDL 7.0	Lumber DOL 1.25	BC 0.75	Vert(CT) -0.32 10-19	>999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.07 8	n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	` '		Weight: 146 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=88(LC 16)

Max Uplift 2=-317(LC 12), 8=-317(LC 13) Max Grav 2=1136(LC 1), 8=1136(LC 1)

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

TOP CHORD 2-3=-1920/523, 3-4=-1660/429, 4-5=-1447/418, 5-6=-1447/418, 6-7=-1660/429,

7-8=-1920/523

BOT CHORD 2-13=-473/1691, 11-13=-335/1659, 10-11=-335/1659, 8-10=-386/1691 WEBS 3-13=-296/190, 4-13=-91/490, 5-13=-374/158, 5-10=-374/158, 6-10=-91/490,

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 19-6-0, Zone2 19-6-0 to 23-10-7, Zone1 23-10-7 to 30-0-0 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.
- * 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=317, 8=317.

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Structural wood sheathing directly applied or 4-0-14 oc purlins.

Rigid ceiling directly applied or 8-6-12 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:

December 11,2024

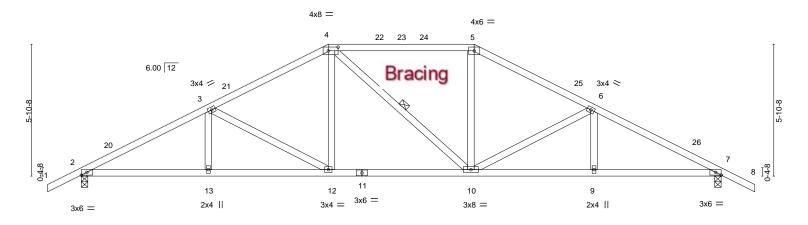


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty MARTIN - SPEC HSE T35780191 4374769 T03 Hip 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Dec 10 12:37:37 2024 Page 1 ID:5x40uGjGkkUdz32erCZYBuz1VUH-itP2r3gA2kp71S_tTZ1EvlOeaViQw8lDlZNoSxyAMoC 30-0-0 22-10-1 1-6-0 5-4-1 6-6-0 5-4-1 5-7-15 1-6-0

Scale = 1:51.3



	-	5-7-15	5-4-1			6-6-0	-		5-4-1	-	5-7-15	
Plate Offset	ts (X,Y)	[4:0-5-4,0-2-0], [7:0-2-1				0-0-0			J-4-1		5-7-15	
LOADING	(f)	ODAONO	0.00	001		DEEL	1	(1)	1/-1-41	1.7-1	DI ATEO	ODID.
LOADING	· /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL :	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.08	12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.18 1	0-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code FBC2023	TPI2014	Matri	x-MS						Weight: 147 lb	FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD WEBS**

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

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

1 Row at midpt 4-10

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=105(LC 12)

Max Uplift 2=-314(LC 12), 7=-314(LC 13) Max Grav 2=1136(LC 1), 7=1136(LC 1)

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

2-3=-1943/491, 3-4=-1507/392, 4-5=-1296/390, 5-6=-1508/392, 6-7=-1943/491 TOP CHORD **BOT CHORD** $2-13 = -454/1686,\ 12-13 = -454/1686,\ 10-12 = -258/1296,\ 9-10 = -350/1686,\ 7-9 = -350/1686$

3-12=-455/224, 4-12=-68/394, 5-10=-59/395, 6-10=-454/225 WFBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 17-6-0, Zone2 17-6-0 to 21-8-15, Zone1 21-8-15 to 30-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

11-0-0

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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=314, 7=314.

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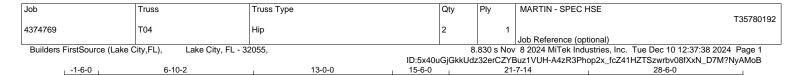
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 11,2024



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2-6-0

6-1-14

6-1-14

Scale = 1:50.9

6-10-2

Structural wood sheathing directly applied or 3-9-4 oc purlins.

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

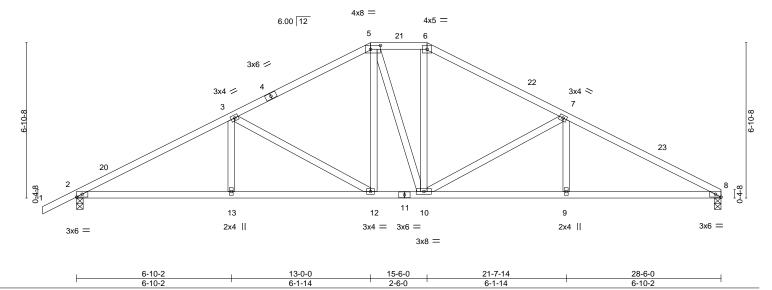


Plate Off	sets (X,Y)	[5:0-5-4,0-2-0], [8:0-2-15,Edge]								
LOADIN	G (psf)	SPACING- 2-0-	cs	il.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.2	5 TC	0.45	Vert(LL)	-0.08 12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.2	5 BC	0.59	Vert(CT)	-0.18 12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr YE	S WE	3 0.59	Horz(CT)	0.07 8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Ma	trix-MS					Weight: 151 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=134(LC 16) Max Uplift 8=-272(LC 13), 2=-311(LC 12)

Max Grav 8=1052(LC 1), 2=1138(LC 1)

6-10-2

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

 $2\hbox{-}3\hbox{-}1907/469,\ 3\hbox{-}5\hbox{-}-1356/349,\ 5\hbox{-}6\hbox{-}-1145/356,\ 6\hbox{-}7\hbox{-}-1358/352,\ 7\hbox{-}8\hbox{-}-1919/479}$ TOP CHORD **BOT CHORD** 2-13=-452/1645, 12-13=-452/1645, 10-12=-213/1143, 9-10=-353/1658, 8-9=-353/1658 3-13=0/283, 3-12=-587/275, 5-12=-104/363, 6-10=-103/366, 7-10=-600/285, 7-9=0/283 WFBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-0-0, Zone3 13-0-0 to 15-6-0, Zone2 15-6-0 to 19-8-15, Zone1 19-8-15 to 28-6-0 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.
- Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=272, 2=311.

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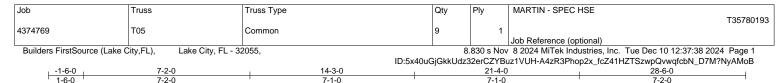
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 11,2024

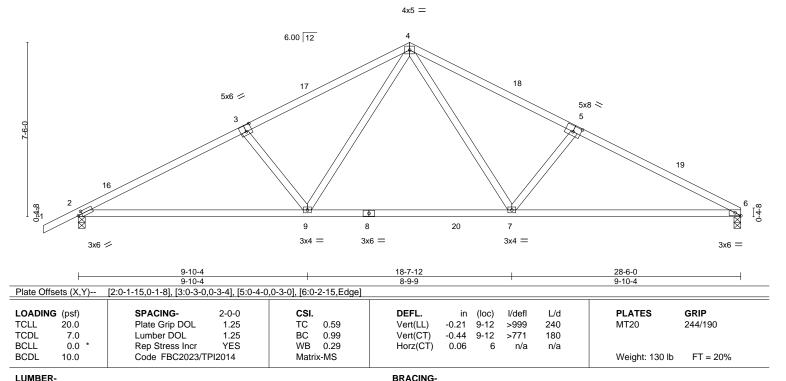


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Scale = 1:49.6



TOP CHORD

BOT CHORD

LUMBER-

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

6-8: 2x4 SP No.1

WEBS 2x4 SP No.3

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

Max Horz 2=144(LC 16)

Max Uplift 2=-309(LC 12), 6=-270(LC 13) Max Grav 2=1221(LC 2), 6=1152(LC 2)

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

TOP CHORD 2-3=-1984/470, 3-4=-1808/448, 4-5=-1817/454, 5-6=-1993/477

BOT CHORD 2-9=-460/1745. 7-9=-186/1158. 6-7=-349/1754

WEBS 4-7=-213/769, 5-7=-409/283, 4-9=-206/755, 3-9=-405/280

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 14-3-0, Zone2 14-3-0 to 18-5-15, Zone1 18-5-15 to 28-6-0 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.
- * 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=309, 6=270.

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Structural wood sheathing directly applied or 3-4-9 oc purlins.

Rigid ceiling directly applied or 2-2-0 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:

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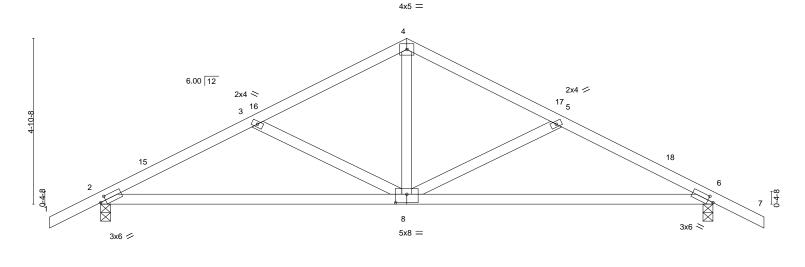


Plate Of	Plate Offsets (X,Y) [2:0-1-15,0-1-8], [6:0-1-15,0-1-8], [8:0-4-0,0-3-0]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.11	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.73	Vert(CT)	-0.22	8-11	>994	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 83 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

18-0-0

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

Rigid ceiling directly applied or 8-3-12 oc bracing.

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

> Max Horz 2=88(LC 16) Max Uplift 2=-228(LC 9), 6=-228(LC 8)

Max Grav 2=747(LC 1), 6=747(LC 1)

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

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

TOP CHORD 2-3=-1096/592, 3-4=-827/491, 4-5=-827/491, 5-6=-1096/591

BOT CHORD 2-8=-457/959, 6-8=-478/959

WFBS 4-8=-325/503, 5-8=-319/208, 3-8=-319/208

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 19-6-0 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.

9-0-0

- * 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=228, 6=228.

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Scale = 1:33.9

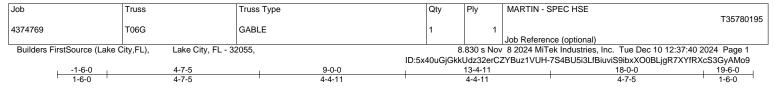
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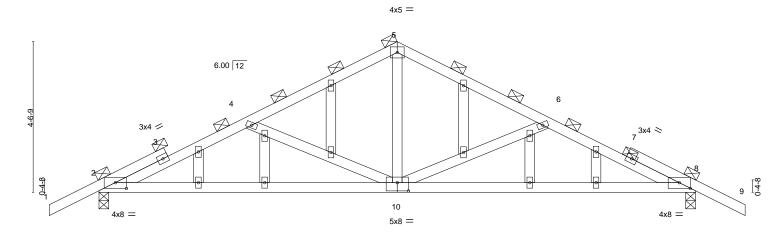


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Scale = 1:34.8



	0 700 100 17 700 1	9-0-0		9-0-0					1
Plate Offsets (X	Y) [2:0-4-0,0-2-1], [8:0-4-	0,0-2-1], [10:0-4-0),0-3-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50	Vert(LL)	0.10 10-25	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.19 10-25	>999	180		
BCLL 0.0	* Rep Stress Inci	YES	WB 0.20	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code FBC2023	3/TPI2014	Matrix-MS					Weight: 101 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

18-0-0

Rigid ceiling directly applied or 7-0-1 oc bracing.

2-0-0 oc purlins (4-7-1 max.).

LUMBER-

2x4 SP No.2 TOP CHORD

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

OTHERS 2x4 SP No.3

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

Max Horz 2=82(LC 12)

Max Uplift 2=-227(LC 9), 8=-227(LC 8) Max Grav 2=744(LC 1), 8=744(LC 1)

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

2-4=-1179/807, 4-5=-856/612, 5-6=-856/612, 6-8=-1179/807 TOP CHORD

BOT CHORD 2-10=-667/1077. 8-10=-677/1077

WEBS 4-10=-399/329, 5-10=-403/525, 6-10=-399/329

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

9-0-0

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=227, 8=227,

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

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December 11,2024

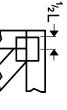


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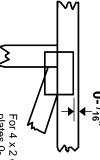


Symbols

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

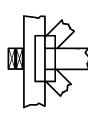
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

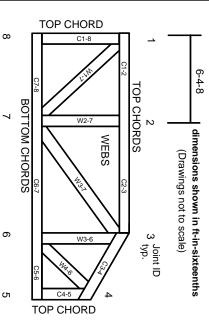
Industry Standards:

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.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 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.