

RE: 4558297 - GIEBEIG - LOT 19 CW MiTek, Inc. 16023 Swinalev Ridae Rd. Site Information: Customer Info: GIEBEIG CONST. Project Name: Spec Hse Model: St. Johns Modigred 434.1200 Lot/Block: 19 S Address: TBD SW Chesterfield Circle, TBD Subdivision: Crosswinds 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 Wind Code: ASCE 7-22 Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.8 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 29 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T36788332	CJ1	3/26/25	15	T36788346	T09	3/26/25
2	T36788333	CJ3	3/26/25	16	T36788347	T10	3/26/25
3	T36788334	CJ5	3/26/25	17	T36788348	T11	3/26/25
4	T36788335	EJ5	3/26/25	18	T36788349	T12	3/26/25
5 6	T36788336	EJ7	3/26/25	19	T36788350	T13	3/26/25
6	T36788337	HJ7	3/26/25	20	<u>T</u> 36788351	<u>T14</u>	3/26/25
7	T36788338	HJ9	3/26/25	21	<u>T36788352</u>	<u>T15</u>	3/26/25
8	T36788339	T03	3/26/25	22	T36788353	<u>T16</u>	3/26/25
9	T36788340	<u>T03</u> G	3/26/25	23	T36788354	T17	3/26/25
10	<u>T36788341</u>	<u>T04</u>	3/26/25	24	<u>T36788355</u>	T18	3/26/25
11	T36788342	T05	3/26/25	25	<u>T36788356</u>	T18G	3/26/25
12	T36788343	<u>T06</u>	3/26/25	26	<u>T36788357</u>	T19	3/26/25
13	T36788344	T07	3/26/25	27	T36788358	T19A	3/26/25
14	T36788345	T08	3/26/25	28	T36788359	T20	3/26/25



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

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, 2027.

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.



16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

March 26,2025



RE: 4558297 - GIEBEIG - LOT 19 CW

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

Site Information:

Customer Info: GIEBEIG CONST. Project Name: Spec Hse Model: St. Johns Modified Lot/Block: 19 Subdivision: Crosswinds Address: TBD SW Chesterfield Circle, TBD City: Columbia Cty State: FL

 No.
 Seal#
 Truss Name
 Date

 29
 T36788360
 T21
 3/26/25



Plate Offsets (X,Y) [2	2:Edge,0-0-4]		' 1-0-0 '	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrYESCode FBC2023/TPI2014	CSI. TC 0.30 BC 0.06 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 7 >999 240 Vert(CT) 0.00 7 >999 180 Horz(CT) 0.00 4 n/a n/a	PLATES GRIP MT20 244/190 Weight: 7 lb FT = 20%

TOP CHORD

BOT CHORD

1-0-0

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

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

LUMBER-

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

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

Max Horz 2=52(LC 12) Max Uplift 3=-26(LC 1), 2=-121(LC 12), 4=-47(LC 1) Max Grav 3=19(LC 16), 2=254(LC 1), 4=34(LC 16)

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

NOTES- (7)

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=121.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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:

March 26,2025





							<u>3-0-0</u> 3-0-0				4	
Plate Offset	ts (X,Y)	[2:0-0-4,Edge]									1	
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	0.30	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	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 FBC2023/TF	912014	Matrix	-MP						Weight: 13 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=90(LC 12) Max Uplift 3=-35(LC 12), 2=-92(LC 12), 4=-16(LC 9) Max Grav 3=52(LC 1), 2=253(LC 1), 4=47(LC 3)

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

NOTES- (7)

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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:

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

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

March 26,2025





						·0-0 ·0-0					
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	0.30	Vert(LL)	-0.02	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/T	PI2014	Matri	x-MP						Weight: 19 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=128(LC 12)

Max Uplift 3=-74(LC 12), 2=-98(LC 12)

Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
- to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any
- particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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.

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

March 26,2025





LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.30	DEFL. in (loc) I/defl L/d Vert(LL) -0.02 4-7 >999 240	PLATES GRIP MT20 244/190
TCDL 7.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.23 WB 0.00	Vert(CT) -0.05 4-7 >999 180 Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 19 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=128(LC 12)

Max Uplift 3=-74(LC 12), 2=-98(LC 12)

Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES- (7)

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any
- particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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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March 26,2025





			7-0-0			
Plate Offsets (X,Y)	[2:0-2-10,0-1-8]					
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 0.60	Vert(LL) 0.10	4-7 >837 24	40 MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.50	Vert(CT) -0.21	4-7 >395 18	80	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	2 n/a n	n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP			Weight: 26 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=161(LC 12) Max Uplift 3=-97(LC 12), 2=-110(LC 12)

Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

NOTES- (7)

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=110.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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:

March 26,2025





						-0-14 -0-14				
LOADING (psf) TCLL 20.0		2-0-0 1.25	CSI. TC 0.	DEFL.	in	(loc)	l/defl	L/d	PLATES MT20	GRIP 244/190
TCLL 20.0 TCDL 7.0	Plate Grip DOL Lumber DOL	1.25		.56 Vert(LL) .43 Vert(CT)	-0.10 -0.15	4-7 4-7	>836 >565	240 180	IMIT20	244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr Code FBC2023/TPI2	NO 2014	WB 0. Matrix-M	.00 Horz(CT) IS	0.00	2	n/a	n/a	Weight: 26 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 3=Mechanical, 2=0-4-15, 4=Mechanical

Max Horz 2=147(LC 25)

Max Uplift 3=-90(LC 8), 2=-200(LC 4), 4=-41(LC 5)

Max Grav 3=141(LC 1), 2=347(LC 1), 4=110(LC 3)

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

NOTES- (9)

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl.,
- GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=200.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-5-12, 63 lb down and 103 lb up at 1-5-12, and 21 lb down and 40 lb up at 4-3-11, and 21 lb down and 40 lb up at 4-3-11 on top chord, and 52 lb down and 75 lb up at 1-5-12, 52 lb down and 75 lb up at 1-5-12, and 45 lb down and 23 lb up at 4-3-11, and 45 lb down and 23 lb up at 4-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-3=-54, 4-5=-20
- Concentrated Loads (lb)
 - Vert: 8=49(F=24, B=24) 10=70(F=35, B=35) 11=4(F=2, B=2)

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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.

March 26,2025





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEX REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPII Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com



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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

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March 26,2025





DADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP MT20 244/190
CLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL) -0.02 13 n/r 120	
CDL 7.0	Lumber DOL 1.25	BC 0.10	Vert(CT) -0.02 13 n/r 120	
CLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 12 n/a n/a	
CDL 10.0 *	Code FBC2023/TPI2014	MB 0.05 Matrix-S	Horz(C1) 0.00 12 n/a n/a	Weight: 105 lb FT = 20 ⁶

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 2=-95(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14

Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 16, 15, 14 except 2=265(LC 25), 12=265(LC 26)

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

NOTES- (13)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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, 18, 19, 20, 16, 15, 14.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

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

March 26,2025





Scale = 1:46.1



	7-0-0	13-0-8		19-1-0		25-5-0	
	7-0-0	6-0-8		6-0-8	1	6-4-0	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrNOCode FBC2023/TPI2014	CSI. TC 0.60 BC 0.74 WB 0.65 Matrix-MS	Vert(LL) -0.1	in (loc) l/defl 5 12-14 >999 9 12-14 >999 8 10 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 156 lb	GRIP 244/190 FT = 20%
Max Ho Max Up	No.2	1	BRACING- TOP CHORD BOT CHORD WEBS	except end ver	icals. ectly applied o	L ectly applied or 2-9-14 r 6-10-8 oc bracing. 10	oc purlins,
FOP CHORD 2-3=-3 9-10= 3OT CHORD 2-14= WEBS 4-14= 8-10= NOTES- (11) 1) Unbalanced roof live 2) Wind: ASCE 7-22; View	Comp./Max. Ten All forces 250 (lb) or 3475/1092, 3-4=-3300/1027, 4-5=-2971 -291/171 -1064/3084, 12-14=-1167/3618, 11-12= -242/1096, 5-14=-877/341, 6-12=-84/43 -2710/880 loads have been considered for this de ult=130mph (3-second gust) Vasd=1011 (envelope) gable end zone; Lumber DC	/957, 5-6=-3617/1107, 6-4 1079/3355, 10-11=-718/ 34, 6-11=-1020/426, 8-11: 	8=-2686/810, /2211 =-245/1191, L=3.0psf; h=18ft; Cat. II;	Exp B; Encl.,			
to the use of this trus Provide adequate dra This truss has been This truss has been will fit between the bay Refer to girder(s) for	Project engineer responsible for verifying ss component. ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. truss to truss connections. connection (by others) of truss to bearin	e load nonconcurrent with the bottom chord in all are	n any other live loads. eas where a rectangle 3-	6-0 tall by 2-0-0 v	vide	on the date	ed and Regan, Philip, PE indicated here.
 7-0-0, 106 lb down a down and 100 lb up at 21-0-12, and and 103 lb up at 7-0 17-0-12, 85 lb down The design/selection 0) In the LOAD CASE 1) This manufactured 	onnection device(s) shall be provided su nd 100 lb up at 9-0-12, 106 lb down an at 15-0-12, 106 lb down and 99 lb up at d 106 lb down and 100 lb up at 23-0-12 -0, 85 lb down at 9-0-12, 85 lb down at at 19-0-12, 85 lb down at 21-0-12, and of such connection device(s) is the res (S) section, loads applied to the face of product is designed as an individual bu	d 100 lb up at 11-0-12, 1 t 17-0-12, 106 lb down ar and 127 lb down and 99 11-0-12, 85 lb down at 85 lb down at 23-0-12, a ponsibility of others. the truss are noted as fro ilding component. The su	06 lb down and 100 lb u nd 100 lb up at 19-0-12 9 lb up at 25-3-4 on top 13-0-12, 85 lb down at and 100 lb down at 25-3 ont (F) or back (B). uitability and use of this	p at 13-0-12, 10 , 106 lb down and chord, and 296 lb 15-0-12, 85 lb dov 3-4 on bottom cho component for an	6 lb l 100 down wn at ord.	signed and signature m	re not considered sealed and the ust be verified ronic copies.
particular building is	s the responsibility of the building design lard	ner per ANSI TPI 1 as ref	erenced by the building	code.			26,2025

LOAD CASE(S) Standard d on r



[Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW
						T36788341
	4558297	T04	Half Hip Girder	1	1	
						Job Reference (optional)
	Builders FirstSource (Lake C	ity,FL), Lake City, FL - 32	2055,	8.	830 s Mar	11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:55 2025 Page 2
			ID OD C		0 10/ 1/	

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-tgVgiETHKXnkxk04JXOckGGrInejRZwInkMUxJzXNH2

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-54, 4-9=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 7=-106(F) 9=-127(F) 10=-69(F) 14=-287(F) 12=-61(F) 11=-61(F) 17=-106(F) 18=-106(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-106(F) 24=-61(F) 25=-61(F) 26=-61(F) 27=-61(F) 28=-61(F) 29=-61(F)





	9-0-0 9-0-0		17-0-12 8-0-12		25-5-0 8-4-4	
Plate Offsets (X,Y)	[2:0-2-9,0-1-8]	1	1		i	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrYESCode FBC2023/TPI2014	CSI. TC 0.41 BC 0.74 WB 0.35 Matrix-MS	Vert(LL) -0.14	n (loc) I/defi L/d 4 12-15 >999 240 9 12-15 >999 180 5 9 n/a n/a	-	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	P No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o 1 Row at midpt 7-	r 7-10-14 oc bracing.	purlins,

11

3x6 =

12

3x8 =

10

3x4 =

REACTIONS. (size) 9=Mechanical, 2=0-3-8 Max Horz 2=207(LC 12) Max Uplift 9=-291(LC 9), 2=-319(LC 12) Max Grav 9=931(LC 1), 2=1047(LC 1)

16

3x6 ⋍

2

0-4-3

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

- TOP CHORD 2-3=-1668/492, 3-4=-1406/399, 4-5=-1217/392, 5-7=-1143/330
- BOT CHORD 2-12=-556/1467, 10-12=-397/1286, 9-10=-293/901
- WEBS 3-12=-294/186, 4-12=-45/408, 5-10=-281/187, 7-10=-127/490, 7-9=-1140/376

NOTES- (9)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 25-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=291, 2=319.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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9

3x6 =

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

March 26,2025





	5-9-4 5-9-4	11-0-0 5-2-12	<u>18-2-8</u> 7-2-8	<u>25-5-0</u> 7-2-8
Plate Offsets (X,Y) [4:0-5-4,0-2-0]			
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.	25 TC 0.64 25 BC 0.61 ES WB 0.52	DEFL. in (loc) l/defl L/d Vert(LL) -0.10 8-10 >999 240 Vert(CT) -0.18 8-10 >999 180 Horz(CT) 0.04 7 n/a n/a	PLATES GRIP MT20 244/190 Weight: 143 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	No.2		BRACING- TOP CHORD Structural wood sheathing except end verticals. BOT CHORD Rigid ceiling directly applie WEBS 1 Row at midpt	u directly applied or 4-1-8 oc purlins, ed or 7-10-12 oc bracing. 4-8

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=246(LC 12) Max Uplift 7=-283(LC 9), 2=-318(LC 12) Max Grav 7=1042(LC 2), 2=1108(LC 2)

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

- TOP CHORD 2-3=-1827/460, 3-4=-1364/369, 4-5=-1010/276, 5-6=-1010/276, 6-7=-908/300
- BOT CHORD 2-11=-557/1594, 10-11=-557/1594, 8-10=-371/1182
- WEBS 3-10=-494/214, 4-10=-66/480, 4-8=-251/129, 5-8=-451/254, 6-8=-344/1259

NOTES- (9)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 25-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=283, 2=318.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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March 26,2025





3.00 12

L	6-3-8	13-0-0	20-1	-0	25-5-0	
	6-3-8	6-8-8	7-1-	-0	5-4-0	
Plate Offsets (X,Y)	[5:0-5-4,0-2-0], [6:0-3-0,0-2-4]					
LOADING (psf) TCLL 20.0 TCDL 7.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25	CSI. TC 0.65 BC 0.76	DEFL. in (loc Vert(LL) -0.18 11-12 Vert(CT) -0.36 11-12	2 >999 240	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2023/TPI2014	WB 0.42 Matrix-MS	Horz(CT) 0.15	8 n/a n/a	Weight: 133 lb	FT = 20%
LUMBER-			BRACING-			
TOP CHORD 2x4 SP BOT CHORD 2x4 SP				tural wood sheathing dir ot end verticals.	ectly applied or 3-1-10	oc purlins,
WEBS 2x4 SP	No.3		BOT CHORD Rigid	ceiling directly applied of	or 5-11-1 oc bracing.	

WEBS

1 Row at midpt

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=227(LC 12) Max Uplift 2=-311(LC 12), 8=-213(LC 13) Max Grav 2=1047(LC 1), 8=931(LC 1)

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

- TOP CHORD 2-3=-3017/953, 3-5=-1412/406, 5-6=-804/239, 6-7=-955/243, 7-8=-884/224
- BOT CHORD 2-12=-1004/2727, 11-12=-954/2577, 9-11=-359/1207
- WEBS 3-12=-205/756, 3-11=-1432/619, 5-11=-115/562, 5-9=-541/218, 7-9=-193/848

NOTES- (9)

- 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=18ft; Cat. II; Exp B; Encl.,
- GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 20-1-0, Zone2 20-1-0 to 24-3-15, Zone1 24-3-15 to 25-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=311, 8=213.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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3-11, 5-9

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

March 26,2025





3.00	12
3.00	12

	1	6-3-8	1	15-0-0		18-1-0	1		25-5-0	1
		6-3-8	1	8-8-8		3-1-0	1		7-4-0	1
Plate Offsets	(X,Y)	[3:0-3-0,0-3-0], [4:0-5-4,0-2-	0], [5:0-2-12	,0-2-4], [6:0-2-0,0-1-8]						
LOADING (p	osf)	SPACING-	2-0-0	CSI.	DEFL.	in (loo	c) l/defl	L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	-0.24 9-1	1 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.84	Vert(CT) -0.54 9-1	1 >562	180		

BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code FBC2023/TPI2014	WB 0.65 Matrix-MS	Horz(CT) 0.	13 7 n/a n/a	Weight: 139 lb	FT = 20%
LUMBER TOP CH	ORD 2x4 SF	P No.2		BRACING- TOP CHORD	Structural wood sheathing di	rectly applied or 2-8-14 oc	purlins,
BOT CH WEBS	ORD 2x4 SF 2x4 SF			BOT CHORD	except end verticals. Rigid ceiling directly applied	or 5-9-2 oc bracing.	

REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=211(LC 12) Max Uplift 1=-255(LC 12), 7=-212(LC 12) Max Grav 1=935(LC 1), 7=935(LC 1)

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

- TOP CHORD 1-2=-3043/945, 2-3=-3018/1050, 3-4=-1142/338, 4-5=-832/281, 5-6=-1015/283,
- 6-7=-863/232
- BOT CHORD 1-11=-1013/2753, 9-11=-600/1651, 8-9=-266/971
- WEBS 3-11=-551/1443, 3-9=-817/398, 4-9=-168/579, 4-8=-397/147, 6-8=-196/793

NOTES- (9)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone3 15-0-0 to 18-1-0, Zone2 18-1-0 to 22-3-15, Zone1 22-3-15 to 25-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=255, 7=212.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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March 26,2025





Scale = 1:54.0



	7-0-0 7-0-0	14-8-12 7-8-12	<u> </u>		<u> </u>
Plate Offsets (X,Y)	[2:0-4-0,0-1-15], [4:0-2-12,0-2-4], [6:0-4	-0,0-3-4], [9:Edge,0-5-0], [11:0-5-0,0-6-0]		
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrNOCode FBC2023/TPI2014	CSI. TC 0.93 BC 0.29 WB 0.89 Matrix-MS	DEFL. in (loc) I/defl Vert(LL) -0.21 11 >999 Vert(CT) -0.39 11 >910 Horz(CT) 0.07 9 n/a	L/d 240 180 n/a	PLATES GRIP MT20 244/190 Weight: 200 lb FT = 20%
1-4: 2x BOT CHORD 2x8 SF WEBS 2x4 SF REACTIONS. (siz Max H Max U	P No.1 *Except* 4 SP No.2 P 2400F 2.0E No.3 e) 9=0-3-8, 2=0-3-8 lorz 2=168(LC 8) uplift 9=-828(LC 5), 2=-700(LC 8) Grav 9=2497(LC 1), 2=2194(LC 1)			sheathing directly ctly applied or 9-5 5-12, 7	0
TOP CHORD 2-3=- 8-9=- 8-9=- BOT CHORD 2-12: WEBS 4-12: 7-10: 7-10:	Comp./Max. Ten All forces 250 (lb) o -4256/1332, 3-4=-4121/1267, 4-5=-372(-377/223 =-1276/3763, 11-12=-1609/4983, 10-11 =-332/1421, 5-12=-1554/586, 5-11=0/35 =-311/1560, 7-9=-3513/1159	//179, 5-6=-5107/1552, 6- =-1579/4872, 9-10=-987/29 7, 6-11=-12/450, 6-10=-13	84		
 2) Wind: ASCE 7-22; V GCpi=0.18; MWFRS 3) Building Designer /1 to the use of this tru 4) Provide adequate di 5) This truss has been (a) * This truss has been (b) * This truss has been (c) * This manufactured (c) * This manufactured (c) * This truss has been (c) * This truss h	ss component. rainage to prevent water ponding. designed for a 10.0 psf bottom chord lin n designed for a live load of 20.0psf on sottom chord and any other members. connection (by others) of truss to bearin connection device(s) shall be provided s and 100 lb up at 9-0-12, 106 lb down ar at 15-0-12, 106 lb down and 100 lb up 6 lb down and 100 lb up at 23-0-12, 10 down and 100 lb up at 23-0-12, and 13 85 lb down at 9-0-12, 85 lb down at 11 at 19-0-12, 85 lb down at 21-0-12, 85 29-0-12 on bottom chord. The design/se S) section, loads applied to the face of f product is designed as an individual bu is the responsibility of the building design	mph; TCDL=4.2psf; BCDL= OL=1.60 plate grip DOL=1. g applied roof live load sho re load nonconcurrent with the bottom chord in all area ng plate capable of withstar ufficient to support concent id 100 lb up at 11-0-12, 10 at 17-0-12, 106 lb down at 5 lb down and 100 lb up at 5 lb down and 98 lb up at 0-12, 85 lb down at 13-0- lb down at 23-0-12, 85 lb o election of such connection he truss are noted as front ilding component. The sui ner per ANSI TPI 1 as refe	60 wn covers rain loading requirements spec any other live loads. as where a rectangle 3-6-0 tall by 2-0-0 wi nding 100 lb uplift at joint(s) except (jt=lb) rated load(s) 125 lb down and 100 lb up at 6 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 25-0-12, 106 lb down and 100 lb up at 29-11-4 on top chord, and 296 lb down an 12, 85 lb down at 15-0-12, 85 lb down at 25-0-12, and 85 lb down at 27-0 device(s) is the responsibility of others. (F) or back (B). tability and use of this component for any renced by the building code.	de t Ib IOO id	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.
Design valid for use only a truss system. Before u building design. Bracing is always required for st fabrication, storage, deli	with MiTek® connectors. This design is based or use, the building designer must verify the applicabil indicated is to prevent buckling of individual truss ability and to prevent collapse with possible persor very, erection and bracing of trusses and truss sys mponent Safety Information available from the	ly upon parameters shown, and is ity of design parameters and proy web and/or chord members only. al injury and property damage. Fo tems, see ANSI/TPI1 Quality Cri	for an individual building component, not arly incorporate this design into the overall Additional temporary and permanent bracing or general guidance regarding the teria and DSB-22 available from Truss Plate Institu	te (www.tpinst.org)	16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

Jo	b	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW
4.5	50007	T 00				T36788346
45	58297	Т09	Half Hip Girder	1	1	
						Job Reference (optional)
E	Builders FirstSource (Lake C	ity,FL), Lake City, FL - 3	2055,	8.	830 s Mar	11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:58 2025 Page 2
			ID:9B5	QRtZPhU	_0yMYqzV	n3hhzz6?b-IFApKFV9dS9JoClf?fxJMvuHN_mQetvkTib8YezXNH?

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, 2-9=-20

Concentrated Loads (lb)

Vert: 4=-106(B) 8=-135(B) 12=-287(B) 15=-106(B) 16=-106(B) 17=-106(B) 18=-106(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-106(B) 23=-106(B) 24=-106(B) 25=-109(B) 26=-61(B) 27=-61(B) 28=-61(B) 29=-61(B) 30=-61(B) 31=-61(B) 32=-61(B) 33=-61(B) 33=-61(B) 33=-61(B) 35=-61(B) 35=-61(B





Scale = 1:54.0



	9-0-0 9-0-0		19-6-7 10-6-7		-		30-1-0 10-6-8	
Plate Offsets (X,Y)	[2:0-2-9,0-1-8], [6:0-2-12,0-3-4]							
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrYESCode FBC2023/TPI2014	CSI. TC 0.58 BC 0.91 WB 0.58 Matrix-MS	Vert(CT) -0	in (loc .26 8- .54 8- .08	9 >999	L/d 240 180 n/a	PLATES MT20 Weight: 155 lb	GRIP 244/190 FT = 20%
8-10: 2: WEBS 2x4 SP REACTIONS. (size Max H Max U	No.2 *Except* x4 SP No.1		BRACING- TOP CHORD BOT CHORD WEBS	exce Rigid	pt end vertion	cals. ctly applied or	- ectly applied or 3-10-5 r 7-3-8 oc bracing. 11, 6-8	oc purlins,
TOP CHORD 2-3=-2 BOT CHORD 2-11= WEBS 3-11=	Comp./Max. Ten All forces 250 (lb) or 2046/600, 3-4=-1798/511, 4-5=-1575/49 -652/1801, 9-11=-585/1840, 8-9=-439/1 -272/180, 4-11=-75/526, 5-11=-416/211 1546/519	4, 5-6=-1666/484 326	606,					
2) Wind: ASCE 7-22; V GCpi=0.18; MWFRS Zone1 13-2-15 to 29 DOL=1.60	loads have been considered for this deu ult=130mph (3-second gust) Vasd=101r (envelope) gable end zone and C-C Zo -11-4 zone;C-C for members and forces	nph; TCDL=4.2psf; BCDL= ne3 -2-0-0 to 1-0-0, Zone1 & MWFRS for reactions s	1-0-0 to 9-0-0, Zone hown; Lumber DOL=	2 9-0-0 t 1.60 plat	to 13-2-15, te grip			
 Building Designer / F to the use of this trus 	Project engineer responsible for verifying ss component.	applied root live load show	wn covers rain loadir	ig require	ements spec	CITIC	This item ha	s been

- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=349, 2=370.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

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March 26,2025





Scale = 1:54.0



L	5-7-11	11-0-0		16-6-8	22-			27-5-5	30-1-0
Plate Offsets (X,Y)	5-7-11 [4:0-5-4,0-2-0], [6:0-5-4	5-4-5		5-6-8	5-	5-8		5-4-5	2-7-11
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2023/	2-0-0 1.25 1.25 YES	CSI. TC 0.34 BC 0.49 WB 0.42 Matrix-MS	DEFL. Vert(LL) Vert(CT Horz(CT		4 >999	L/d 240 180 n/a	PLATES MT20 Weight: 173 lb	GRIP 244/190 • FT = 20%
				BRACING TOP CHO BOT CHO	ORD Struct exce	ot end vertica	als.	ectly applied or 3-10-1 r 7-11-15 oc bracing.	15 oc purlins,
Max H Max U Max G FORCES. (lb) - Max.	e) 2=0-3-8, 9=0-3-8 orz 2=160(LC 12) plift 2=-354(LC 12), 9=- rav 2=1219(LC 1), 9=1 Comp./Max. Ten All fr 2069/543, 3-4=-1626/4/	104(LC 1) prces 250 (lb) or l							
BOT CHORD 2-15= WEBS 3-14=	1052/274, 8-9=-1086/27 =-547/1800, 14-15=-547 =-464/218, 4-14=-69/38 =-99/341, 7-10=-513/18(/1800, 12-14=-35 , 4-12=-124/267,	5-12=-339/193, 6-1		31				
Zone1 15-2-15 to 22 reactions shown; Lu 3) Building Designer / f to the use of this trus 4) Provide adequate dr 5) This truss has been 6) * This truss has been	fult=130mph (3-second (envelope) gable end z (-1-0, Zone2 22-1-0 to 2 mber DOL=1.60 plate g Project engineer respon ss component. ainage to prevent water designed for a 10.0 psf n designed for a live loa ottom chord and any oti	gust) Vasd=101rr cone and C-C Zor 6-3-15, Zone12 2or fip DOL=1.60 sible for verifying ponding. bottom chord live d of 20.0psf on th her members.	ph; TCDL=4.2psf; I te3 -2-0-0 to 1-0-0, -3-15 to 29-11-4 zo applied roof live loa load nonconcurren e bottom chord in a	Zone1 1-0-0 to 11-0- ne;C-C for members ad shown covers rain at with any other live I Ill areas where a rect	0, Zone2 11-0- and forces & M loading require bads. angle 3-6-0 tall	0 to 15-2-15, IWFRS for ments specif by 2-0-0 wid	fic	on the date Printed cop document a	ned and DRegan, Philip, PE indicated here.

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

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March 26,2025



႔ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - verify design parameters and READ NOTES ON THIS AND INCLOSED INTERNETING TO THE REFERENCE FOR UNITY TO THE INSTANCE OF THE ADDRESS OF THE ADDRESS



	6-3-8	13-0-0	20-1-0	21-8-022-3-8	30-1-0
	6-3-8	6-8-8	7-1-0	1-7-0 0-7-8	7-9-8
Plate Offsets (X,Y)	[2:0-4-0,0-1-9], [5:0-5-4,0-2-0], [6:0-3-0	,0-2-4], [17:0-2-0,0-0-0]			
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	CSI. TC 0.76 BC 0.90 WB 0.71 Matrix-MS	Vert(LL) -0.25	n (loc) l/defl L/d 5 15-16 >999 240 0 15-16 >715 180 9 10 n/a n/a	PLATES GRIP MT20 244/190 Weight: 175 lb FT = 20%
	Code 1 DC2023/11 12014	Width - Wio			Weight: 175 15 11 = 20%
BOT CHORD 2x4 S 7-11: 2x4 S	P No.2 P No.2 *Except* 2x4 SP No.3 P No.3 *Except* 2x4 SP No.2		BRACING- TOP CHORD BOT CHORD WEBS	except end verticals. Rigid ceiling directly applied of 10-0-0 oc bracing: 11-13	rectly applied or 2-2-0 oc purlins, or 6-1-9 oc bracing. Except: 3-15, 5-14
Max I Max 0 Max 0 Max 0 FORCES. (lb) - Max TOP CHORD 2-3= BOT CHORD 2-16 10-1 WEBS 3-16	ze) 2=0-3-8, 10=0-3-8 Horz 2=176(LC 12) Jplift 2=-319(LC 12), 10=-236(LC 13) Grav 2=1223(LC 1), 10=1115(LC 1) . Comp./Max. Ten All forces 250 (lb) o =-3735/938, 3-5=-1918/444, 5-6=-1497/3 =-938/3384, 15-16=-891/3203, 14-15=-3 1=-228/1066 =-189/906, 3-15=-1611/604, 5-15=-110/ =-332/1630, 8-11=-1265/324, 8-10=-136	99, 6-7=-1672/422, 7-8=-18 10/1661, 13-14=-285/1588 602, 5-14=-313/128, 6-14=	3, 11-13=-201/995,		
 Wind: ASCE 7-22; GCpi=0.18; MWFR Zone1 17-2-15 to 2 reactions shown; L Building Designer / to the use of this fm Provide adequate of This truss has beer * This truss has beer * This truss has beer Bearing at joint(s) 2 capacity of bearing Provide mechanica 2=319, 10=236. 	drainage to prevent water ponding. In designed for a 10.0 psf bottom chord live an designed for a live load of 20.0psf on bottom chord and any other members. Considers parallel to grain value using A	mph; TCDL=4.2psf; BCDL one3 -2-0-0 to 0-9-15, Zono (4-3-15 to 29-11-4 zone;C- g applied roof live load sho re load nonconcurrent with the bottom chord in all area (NSI/TPI 1 angle to grain for ng plate capable of withstar	e1 0-9-15 to 13-0-0, Zor C for members and forc wn covers rain loading any other live loads. as where a rectangle 3-0 prmula. Building design nding 100 lb uplift at joir	ne2 13-0-0 to 17-2-15, es & MWFRS for requirements specific 6-0 tall by 2-0-0 wide ner should verify nt(s) except (jt=lb)	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.

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

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March 26,2025





⊢	6-3-8	15-0-0			22-3-8	30-1-0	
Plate Offsets (X,Y)	<u>6-3-8</u> [4:0-3-0,0-3-0], [6:0-3-0,0-2-0], [<u>8-8-8</u> 16:0-1-8.0-1-0]	6-	8-0	0-7-8	7-9-8	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0. Plate Grip DOL 1.2 Lumber DOL 1.2 Rep Stress Incr YE Code FBC2023/TPI2014	0 CSI. 5 TC 0.60 5 BC 0.98 S WB 0.75	Vert(LL) -0.34	(loc) l/defl 14-15 >999 14-15 >541 10 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 178 lb	GRIP 244/190 FT = 20%
13-15: 2 WEBS 2x4 SP	No.2 No.2 *Except* 2x4 SP No.1, 7-11: 2x4 SP No.3 No.3 *Except* x4 SP No.2	3		except end verti	cals. ctly applied or 2	ttly applied or 2-4-5 o 2-2-0 oc bracing. Ex	•
Max Ho Max Up Max Gr FORCES. (Ib) - Max. (TOP CHORD 2-3=-2 7-8=-2	4014/968, 3-4=-3971/1074, 4-5= 2033/425	2) 0 (Ib) or less except when shown 1785/398, 5-6=-1560/391, 6-7=-	-2087/508,				
WEBS 4-15= 8-13= NOTES- (9)	542/1794, 4-14=-846/373, 5-14 341/1862, 8-11=-1371/309, 8-1						
 Wind: ASCE 7-22; Vi GCpi=0.18; MWFRS Zone2 18-1-0 to 22-6 DOL=1.60 plate grip Building Designer / P to the use of this trus Provide adequate dra 5) This truss has been of This truss has been of<	i (envelope) gable end zone and 5-1, Zone1 22-6-1 to 29-11-4 zo DOL=1.60 Project engineer responsible for is component. ainage to prevent water ponding designed for a 10.0 psf bottom of n designed for a 10.0 psf bottom of n designed for a live load of 20.0 ottom chord and any other mem considers parallel to grain value surface.	sd=101mph; TCDL=4.2psf; BCDL I C-C Zone3 -2-0-0 to 0-9-15, Zor ne;C-C for members and forces 8 verifying applied roof live load sho g. chord live load nonconcurrent with opsf on the bottom chord in all are	e1 0 ⁻⁹ -15 to 15-0-0, Zone MWFRS for reactions shown covers rain loading re any other live loads. as where a rectangle 3-6 formula. Building designe	e3 15-0-0 to 18-1 nown; Lumber equirements spec -0 tall by 2-0-0 w er should verify	bific	on the date i Printed copie document ar signed and s	ed and Regan, Philip, P ndicated here.

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

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March 26,2025





LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrYESCode FBC2023/TPI2014	CSI. TC 0.64 BC 0.96 WB 0.75 Matrix-MS	Vert(LL) -0.3	in (loc) l/defl 1 14-15 >999 8 14-15 >621 9 9 n/a	L/d 240 180 n/a	PLATES GRIP MT20 244/190 Weight: 176 lb FT = 20%
			BRACING- TOP CHORD BOT CHORD	except end vertic	als. ctly applied o	ectly applied or 2-3-6 oc purlins, or 2-2-0 oc bracing. Except:
Max H Max U	e) 2=0-3-8, 9=0-3-8 orz 2=206(LC 12) plift 2=-342(LC 12), 9=-264(LC 13) rav 2=1300(LC 2), 9=1225(LC 2)					
TOP CHORD 2-3=- BOT CHORD 2-15= 10-12 WEBS 4-15=	Comp./Max. Ten All forces 250 (lb) or 4021/1016, 3-4=-3975/1115, 4-5=-1984/ 1033/3659, 14-15=-602/2246, 13-14=- 2=-198/1056, 9-10=-235/1152 558/1773, 4-14=-776/380, 5-14=-250/9 343/1717, 7-10=-1247/319, 7-9=-1452/	494, 5-6=-1974/473, 6-7= 244/1342, 12-13=-305/17 59, 5-13=-222/699, 6-13=	1979/432 84,			
 2) Wind: ASCE 7-22; V GCpi=0.18; MWFRS Zone1 20-9-7 to 29- 3) Building Designer / F to the use of this trus 4) This truss has been 	e loads have been considered for this de ult=130mph (3-second gust) Vasd=101r (envelope) gable end zone and C-C Zo 11-4 zone;C-C for members and forces & Project engineer responsible for verifying ss component. designed for a 10.0 psf bottom chord live enditioned for a live load of 20 Option the	nph; TCDL=4.2psf; BCDL ne3 -2-0-0 to 0-9-15, Zon & MWFRS for reactions si applied roof live load sho e load nonconcurrent with	e1 0-9-15 to 16-6-8, Zo hown; Lumber DOL=1.6 own covers rain loading any other live loads.	ne2 16-6-8 to 20-9 0 plate grip DOL=1 requirements spec	ific	This item has been digitally signed and

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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify

c) bearing at joint(s) 2 considers parallel to grain value using ANS// IPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=342, 9=264.

8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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March 26,2025





4x6 ≈ 3.00 12

	F	<u>6-3-8</u> 6-3-8	+	<u>13-7-14</u> 7-4-6		20-10-15 7-3-1	5		<u>30-1</u> 9-2-		
Plate Off	sets (X,Y)	[6:0-3-0,0-3-4], [7:0-2-12,0	-1-8]			1				1	
LOADIN TCLL TCDL	G (psf) 20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.64 0.95	DEFL. Vert(LL) Vert(CT)	in (loc) -0.31 11-12 -0.59 11-12	l/defl >999 >616	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2023/TF	YES 12014	WB Matri	0.68 k-MS	Horz(CT)	0.22 7	n/a	n/a	Weight: 147 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) 2=0-3-8, 7=0-3-8 Max Horz 2=188(LC 12) Max Uplift 2=-344(LC 12), 7=-320(LC 13) Max Grav 2=1296(LC 2), 7=1302(LC 2)

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

TOP CHORD 2-3=-4006/1007, 3-4=-3960/1107, 4-5=-1968/496, 5-6=-1984/457, 6-7=-2137/463

BOT CHORD 2-12=-1007/3651, 11-12=-583/2232, 9-11=-227/1334, 7-9=-320/1880

WEBS 4-12=-549/1778, 4-11=-778/377, 5-11=-251/941, 5-9=-206/702, 6-9=-376/260

NOTES- (8)

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 16-6-8, Zone2 16-6-8 to 20-9-7, Zone1 20-9-7 to 32-1-0 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=344.7=320.

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

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Structural wood sheathing directly applied or 2-3-8 oc purlins.

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

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4x6 = 3.00 12

	<u>6-3-8</u> 6-3-8		-7-4 3-12	<u>20-10-15</u> 7-3-11			<u>30-1-0</u> 9-2-1		
Plate Offsets (X,Y)	[3:0-3-0,0-3-0], [5:0-3-0,0)-3-4], [6:0-2-12	2,0-1-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.70	Vert(LL)	-0.31 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 1.00	Vert(CT)	-0.58 10-11	>618	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.22 6	n/a	n/a		
BCDL 10.0	Code FBC2023/T	PI2014	Matrix-MS					Weight: 144 lb	FT = 20%

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

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=0-3-8 Max Horz 1=154(LC 12) Max Uplift 1=-293(LC 12), 6=-320(LC 13) Max Grav 1=1205(LC 2), 6=1305(LC 2)

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

TOP CHORD 1-2=-4060/1046 2-3=-4023/1153 3-4=-1986/507 4-5=-1992/458 5-6=-2144/464

BOT CHORD 1-11=-1046/3705, 10-11=-584/2227, 8-10=-231/1340, 6-8=-325/1887

WFBS 3-11=-596/1843, 3-10=-774/379, 4-10=-261/956, 4-8=-206/704, 5-8=-376/260

NOTES-(8)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-2, Zone1 3-0-2 to 16-6-8, Zone2 16-6-8 to 20-9-9, Zone1 20-9-9 to 32-1-0 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=293. 6=320.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=251, 7=216.

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

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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:

March 26,2025





LOADING (psf) SPACING- 2-0-0 CSI. TCLL 20.0 Plate Grip DOL 1.25 TC 0.42 TCDL 7.0 Lumber DOL 1.25 BC 0.45 BCLL 0.0 * Rep Stress Incr YES WB 0.40	DEFL. in (loc) l/defl L/d Vert(LL) -0.10 9-17 >983 240 Vert(CT) -0.21 9-17 >493 180 Horz(CT) 0.01 7 n/a n/a	PLATES GRIP MT20 244/190
SCDL 10.0 Code FBC2023/TPI2014 Matrix-MS		Weight: 118 lb FT = 20%

BOT CHORD

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

5-10: 2x6 SP No.2 WEBS 2x4 SP No.3 REACTIONS. (size) 2=0-3-8, 7=0-3-8, 10=0-3-0 Max Horz 2=150(LC 12)

Max Uplift 2=-186(LC 12), 7=-175(LC 13), 10=-185(LC 12) Max Grav 2=555(LC 27), 7=376(LC 26), 10=972(LC 2)

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

TOP CHORD 2-3=-603/163. 3-4=-621/299

BOT CHORD 2x4 SP No.2 *Except*

BOT CHORD 2-11=-192/514, 9-10=-401/237

WEBS 3-11=-356/256, 4-11=-310/771, 4-10=-500/151, 6-9=-284/185

NOTES- (7)

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 12-0-12, Zone2 12-0-12 to 16-3-11, Zone1 16-3-11 to 23-1-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) 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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=186, 7=175, 10=185.

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

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

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March 26,2025









		6-4	-			13-0-8 6-8-8		-		21-1 8-1		
LOADING (psf))	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0)	Plate Grip DOL	1.25	тс	0.46	Vert(LL)	0.11	8-13 [́]	>948	240	MT20	244/190
TCDL 7.0)	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.21	8-13	>479	180		
BCLL 0.0) *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.0)	Code FBC2023/TI	PI2014	Matri	x-MS						Weight: 114 lb	FT = 20%

LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2 *Except*

 5-9: 2x6 SP No.2

 WEBS
 2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 7=0-3-8, 2=0-3-8, 9=0-3-0 Max Horz 2=167(LC 12) Max Uplift 7=-108(LC 8), 2=-179(LC 12), 9=-201(LC 12) Max Grav 7=266(LC 28), 2=554(LC 27), 9=986(LC 2)

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

- TOP CHORD 2-3=-602/149, 3-4=-620/285
- BOT CHORD 2-10=-195/508, 8-9=-407/238
- WEBS 3-10=-356/256, 4-10=-310/771, 4-9=-485/166, 6-8=-316/205

NOTES- (7)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 12-0-12, Zone2 12-0-12 to 16-3-11, Zone1 16-3-11 to 21-1-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 7=108, 2=179, 9=201.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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March 26,2025





g) Mitek-US.com

	Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW
						T36788358
	4558297	T19A	Common Girder	1	2	
						Job Reference (optional)
	Builders FirstSource (Lake C	City,FL), Lake City, FL - 3	2055,	8	.830 s Mar	11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:05 2025 Page 2

ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-ab5SofbYzc2J8Hn?vdZy8NggqpAxn3Im4In?HkzXNGu

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-4=-54, 4-5=-54, 1-6=-20 Concentrated Loads (lb)

Vert: 11=-2067(B) 12=-911(B) 13=-911(B)





	5-0-0		4-0-0	5-0-0					
Plate Offsets (X,Y)	[3:0-5-4,0-2-0]								
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2023/TPI2014	CSI. TC 0.34 BC 0.36 WB 0.11 Matrix-MS	Vert(LL) 0.04	i (loc) I/defl L/d 7-14 >999 240 8-11 >999 180 5 n/a n/a	PLATES GRIP MT20 244/190 Weight: 63 lb FT = 20%				
LUMBER- BRACING- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 REACTIONS. (size) 2=0-3-8, 5=0-3-8 Max Horz 2=59(LC 12) Max Grav 2=811(LC 1), 5=829(LC 1)									
TOP CHORD 2-3=- BOT CHORD 2-8=- WEBS 3-8=- NOTES- (10) 1) Unbalanced roof live 2) Wind: ASCE 7-22; V GCpi=0.18; MWFRS 3) Building Designer / F	Comp./Max. Ten All forces 250 (lb) or 1179/563, 3-4=-1049/552, 4-5=-1220/53 471/1005, 7-8=-475/1015, 5-7=-478/10- 72/302, 4-7=-49/290 e loads have been considered for this de fult=130mph (3-second gust) Vasd=101 5 (envelope) gable end zone; porch left a Project engineer responsible for verifying	92 11 sign. mph; TCDL=4.2psf; BCDI and right exposed; Lumbe	L=3.0psf; h=18ft; Cat. II; E er DOL=1.60 plate grip DC	DL=1.60					
 5) This truss has been 6) * This truss has been will fit between the b 7) Provide mechanical 2=337, 5=350. 8) Hanger(s) or other c 5-0-0, and 54 lb dow 5-0-0, and 63 lb dow device(s) is the resp 9) In the LOAD CASE(10) This manufactured 	ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on ottom chord and any other members. connection (by others) of truss to bearin onnection device(s) shall be provided si n and 68 lb up at 7-0-0, and 165 lb dow n at 7-0-0, and 153 lb down and 54 lb of	he bottom chord in all are ig plate capable of withsta ufficient to support concer vn and 171 lb up at 9-0-0 up at 8-10-15 on bottom of ne truss are noted as fron ilding component. The su	eas where a rectangle 3-6 anding 100 lb uplift at join ntrated load(s) 72 lb down on top chord, and 153 lb chord. The design/selecti at (F) or back (B). uitability and use of this co	t(s) except (jt=lb) a and 77 lb up at down and 54 lb up at ion of such connection omponent for any	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				
Uniform Loads (plf)	dard alanced): Lumber Increase=1.25, Plate ;4, 3-4=-54, 4-6=-54, 9-12=-20	Increase=1.25			On Any electronic copies. Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:				

March 26,2025



	ob	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW			
						T3678835	9		
14	558297	T20	HIP GIRDER	1	1				
						Job Reference (optional)			
	Builders FirstSource (Lake City,FL), Lake City, FL - 32055,		2055,	8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:06 2025 Page 2					
				tZPhUL0yl	MYqzVn3h	hzz6?b-3ofq0_bAkwAAmRMCTL4BhbDoiCU7Wh2vIyXZpBzXNGt			

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-54(F) 4=-119(F) 8=-64(F) 7=-64(F) 15=-54(F) 16=-33(F)





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March 26,2025

tpinst.org) tpinst.org) tpinst.org)



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. 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 Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. 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.
- 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.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. 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.