



RE: 3293268 - MIKE ROBERTS - LOT 8 SH

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

**Site Information:** 

Customer Info: Mike Roberts Project Name: Spec House Model: Custom

Lot/Block: 8 Subdivision: Stonehenge

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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5

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

This package includes 24 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. 1 2 3	Seal# T28728667 T28728668 T28728669	Truss Name CJ01 CJ03 CJ05	Date 9/8/22 9/8/22 9/8/22	No. 15 16 17	Seal# T28728681 T28728682 T28728683	Truss Name T08 T09 T10	Date 9/8/22 9/8/22 9/8/22
4 5	T28728670 T28728671	EJ01 HJ10	9/8/22 9/8/22	18 19	T28728684 T28728685	T11 T12	9/8/22 9/8/22
6	T28728672 T28728673	T01 T01G	9/8/22	20 21	T28728686 T28728687	T13 T14	9/8/22
8	T28728674	T02	9/8/22 9/8/22	22	T28728688	T15	9/8/22 9/8/22
9 10	T28728675 T28728676	T02G T03	9/8/22 9/8/22	23 24	T28728689 T28728690	T19 T20	9/8/22 9/8/22
11 12	T28728677 T28728678	T04 T05	9/8/22 9/8/22				
13 14	T28728679 T28728680	T06 T07	9/8/22 9/8/22				



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

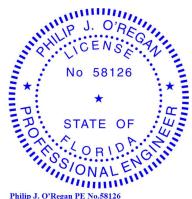
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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

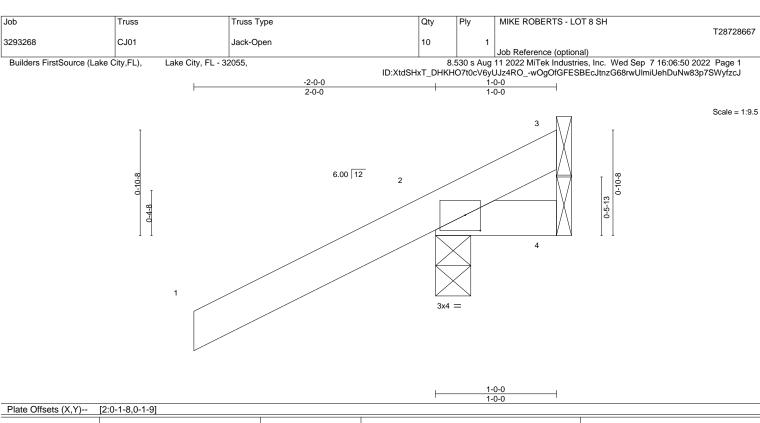
Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2023.

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



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



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MP						Weight: 7 lb	FT = 20%

LUMBER-TOP CHORD

BOT CHORD

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

**BRACING-**

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

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

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

Max Horz 2=46(LC 12)

Max Uplift 3=-27(LC 1), 2=-102(LC 12), 4=-46(LC 1) Max Grav 3=16(LC 16), 2=254(LC 1), 4=29(LC 16)

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

### NOTES-

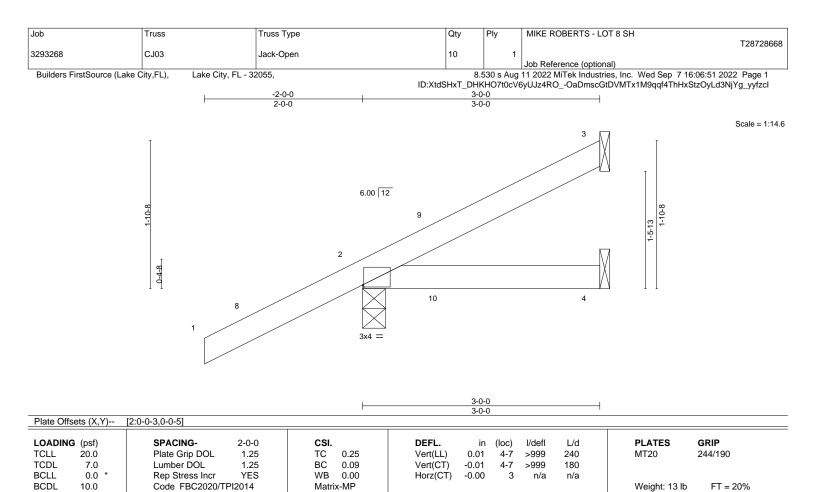
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 102 lb uplift at joint 2 and 46 lb uplift at joint 4.

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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 3-0-0 oc purlins.

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

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

Max Horz 2=80(LC 12)

Max Uplift 3=-31(LC 12), 2=-76(LC 12), 4=-14(LC 9) Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(LC 3)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 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 31 lb uplift at joint 3, 76 lb uplift at joint 2 and 14 lb uplift at joint 4.

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MIKE ROBERTS - LOT 8 SH Job Truss Truss Type Qty Ply T28728669 3293268 CJ05 10 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:06:52 2022 Page 1 ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-tmn83yHV\_pUKZBxLOXBJ0vq58HHOhotDbNIDXPyfzcH 2-0-0 Scale = 1:19.5 6.00 12 0-4-8 3x4 5-0-0

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	0.26	Vert(LL)	0.03	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 FBC2020/TF	PI2014	Matri	x-MP						Weight: 19 lb	FT = 20%

LUMBER-

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

5-0-0

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

REACTIONS.

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

Max Horz 2=114(LC 12)

Max Uplift 3=-64(LC 12), 2=-80(LC 12)

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

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 3 and 80 lb uplift at ioint 2.

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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:

September 8,2022

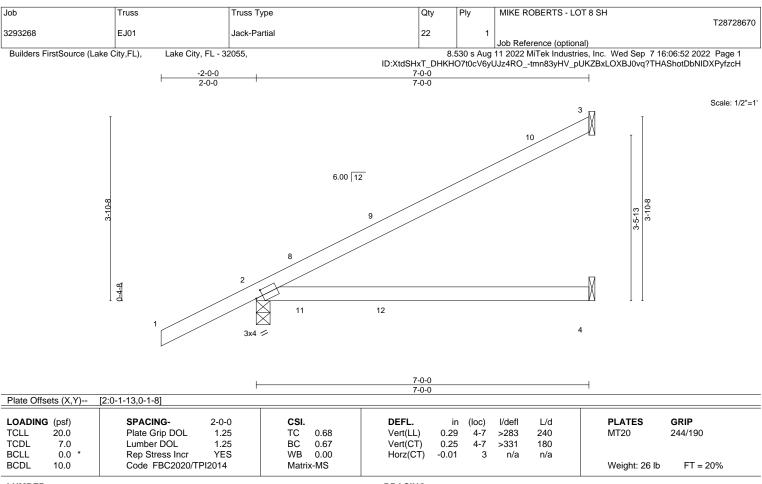


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\*
\*\*available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601\*\*





LUMBER-

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

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

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

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

Max Horz 2=144(LC 12)

Max Uplift 3=-84(LC 12), 2=-90(LC 12), 4=-39(LC 9) 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-

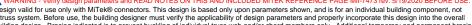
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 3, 90 lb uplift at joint 2 and 39 lb uplift at joint 4.

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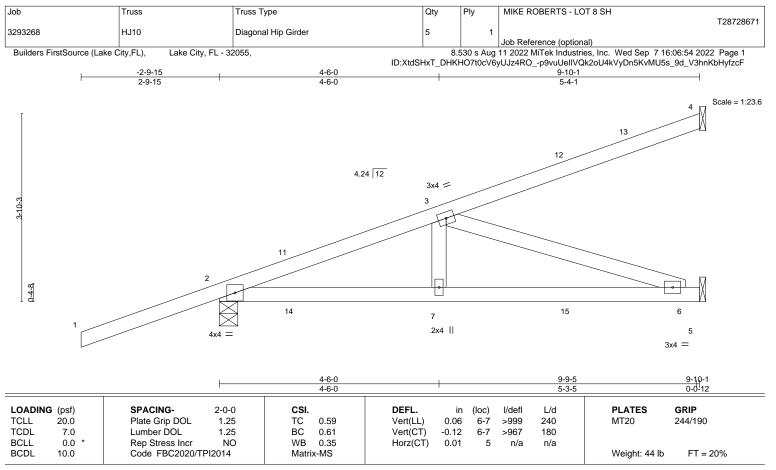


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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LUMBER-

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

BRACING-

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

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

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

Max Horz 2=160(LC 4)

Max Uplift 4=-80(LC 4), 2=-221(LC 4), 5=-112(LC 5) Max Grav 4=150(LC 1), 2=463(LC 1), 5=266(LC 3)

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

TOP CHORD 2-3=-628/248

**BOT CHORD** 2-7=-289/573 6-7=-289/573

WFBS 3-6=-603/305

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 4, 221 lb uplift at joint 2 and 112 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 103 lb up at 1-6-1, 54 lb down and 103 lb up at 1-6-1, 20 lb down and 33 lb up at 4-4-0, 20 lb down and 33 lb up at 4-4-0, and 41 lb down and 75 lb up at 7-1-15, and 41 lb down and 75 lb up at 7-1-15 on top chord, and 44 lb down and 74 lb up at 1-6-1, 44 lb down and 74 lb up at 1-6-1, 42 lb down and 21 lb up at 4-4-0, 42 lb down and 21 lb up at 4-4-0, and 65 lb down at 7-1-15, and 65 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-4=-54, 5-8=-20 Concentrated Loads (lb)

Vert: 7=5(F=2, B=2) 11=50(F=25, B=25) 12=-64(F=-32, B=-32) 14=70(F=35, B=35) 15=-49(F=-24, B=-24)

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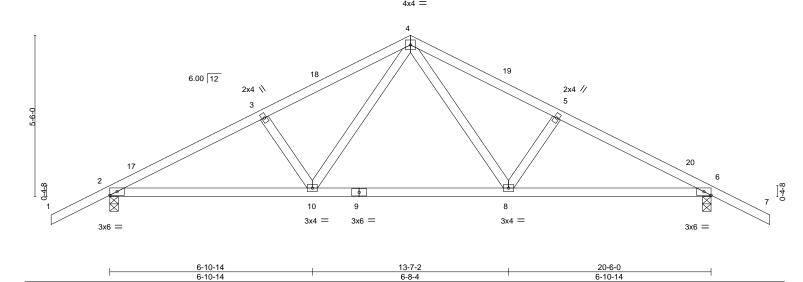
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16023 Swingley Ridge Rd

MIKE ROBERTS - LOT 8 SH Job Truss Truss Type Qty Ply T28728672 3293268 T01 9 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:06:55 2022 Page 1 ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-HLTHi\_JNGksvQefw3fk0dXSbtV7lu5bflLWu8jyfzcE 10-3-0 20-6-0 4-11-13 2-0-0

Scale = 1:39.3



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

in (loc)

8-10

8-10

6

-0.17

-0.32

0.04

I/defI

>999

>758

n/a

L/d

240

180

n/a

Rigid ceiling directly applied or 9-8-3 oc bracing.

**PLATES** 

Weight: 98 lb

MT20

Structural wood sheathing directly applied or 4-3-10 oc purlins.

GRIP

244/190

FT = 20%

LUMBER-

Plate Offsets (X,Y)--

LOADING (psf)

**TCLL** 

TCDL

**BCLL** 

BCDL

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

20.0

7.0

0.0

10.0

2x4 SP No 3 WFBS

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=91(LC 16)

Max Uplift 2=-255(LC 12), 6=-255(LC 13)

[6:0-2-15,Edge]

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

Max Grav 2=1067(LC 1), 6=1067(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1757/494, 3-4=-1618/497, 4-5=-1618/497, 5-6=-1757/494

2-10=-350/1520, 8-10=-175/1028, 6-8=-360/1520 BOT CHORD

4-8=-192/679, 4-10=-192/679 WFBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-3-0, Exterior(2R) 10-3-0 to 13-3-0, Interior(1) 13-3-0 to 22-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60

CSI.

ТС

вс

WB

Matrix-MS

0.35

0.92

0.26

- 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.

2-0-0

1.25

1.25

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 2 and 255 lb uplift at
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

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

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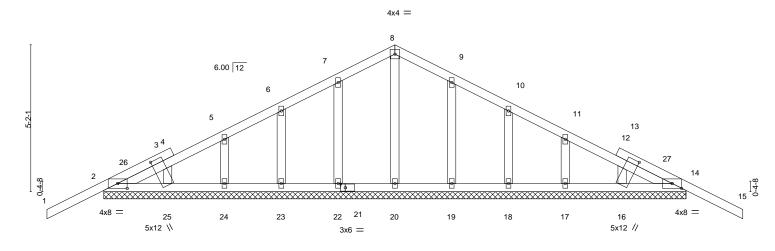
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Job Truss Truss Type Qty Ply MIKE ROBERTS - LOT 8 SH T28728673 3293268 T01G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:06:56 2022 Page 1 ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-IY1fvKK?11\_m1oE7dNFFAI?nVuhKdc7oW?GRgAyfzcD -2-0-0 2-0-0 10-3-0

Scale = 1:40.6



20-6-0 Plate Offsets (X,Y)--[2:0-4-0,0-2-1], [14:0-4-0,0-2-1], [16:0-1-13,1-4-6], [21:0-2-0,0-1-8], [25:0-1-13,1-4-6] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.25 ТС 0.23 Vert(LL) -0.02 15 n/r 120 MT20 244/190 TCDL вс 7.0 Lumber DOL 1.25 0.04 Vert(CT) -0.03 15 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.05 Horz(CT) 0.00 14 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 110 lb FT = 20%

20-6-0

LUMBER-TOP CHORD BOT CHORD

OTHERS

2x4 SP No 2

2x4 SP No 2 2x4 SP No 3 BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 20-6-0.

Max Horz 2=-86(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 22, 23, 24, 25, 19, 18, 17, 16 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 22, 23, 24, 25, 19, 18, 17, 16

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 10-3-0, Corner(3R) 10-3-0 to 13-3-0, Exterior(2N) 13-3-0 to 22-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 22, 23, 24, 25, 19, 18, 17, 16.

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

September 8,2022

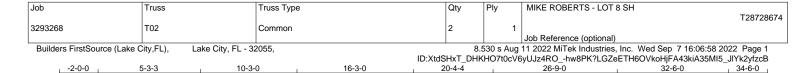


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



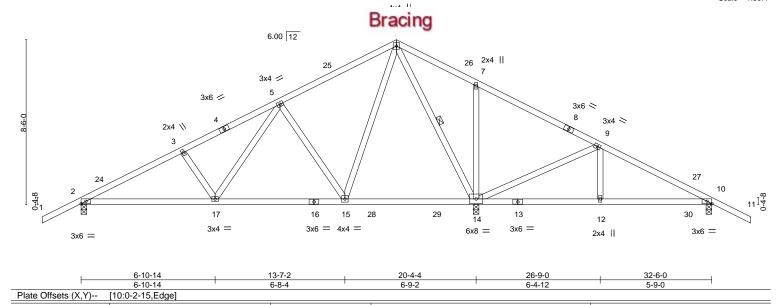


6-4-12

6-0-0

Scale = 1:59.4

5-9-0



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**

WFBS

(loc)

14

1 Row at midpt

0.27 15-17

-0.28 15-17

0.02

I/defI

>918

>861

n/a

L/d

240

180

n/a

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

**PLATES** 

Weight: 180 lb

MT20

Structural wood sheathing directly applied or 4-9-10 oc purlins.

6-14

GRIP

244/190

FT = 20%

LUMBER-

REACTIONS.

LOADING (psf)

**TCLL** 

TCDL

**BCLL** 

BCDL

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

20.0

7.0

0.0

10.0

TOP CHORD **BOT CHORD** 

CSI.

TC

BC

WB

Matrix-MS

0.51

0.85

0.64

(size) 2=0-3-8, 14=0-3-8, 10=0-3-8

2-0-0

1.25

1.25

4-11-13

Max Uplift 2=-240(LC 12), 14=-342(LC 13), 10=-114(LC 8) Max Grav 2=927(LC 25), 14=1922(LC 2), 10=364(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1439/513, 3-5=-1326/523, 5-6=-558/247, 6-7=-196/610, 7-9=-292/619

2-17=-365/1320, 15-17=-192/834 **BOT CHORD** 

Max Horz 2=-136(LC 13)

WFBS 5-17=-307/713. 5-15=-637/318. 6-15=-452/1040. 6-14=-1341/570. 7-14=-315/198.

9-14=-589/555, 9-12=-314/259

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-3-0, Interior(1) 1-3-0 to 16-3-0, Exterior(2R) 16-3-0 to 19-6-0, Interior(1) 19-6-0 to 34-6-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 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: 1-6=-54, 6-11=-54, 17-18=-20, 15-17=-80(F=-60), 15-21=-20

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

September 8,2022

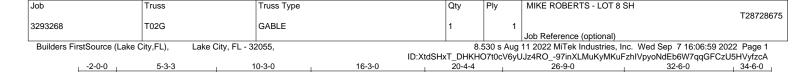


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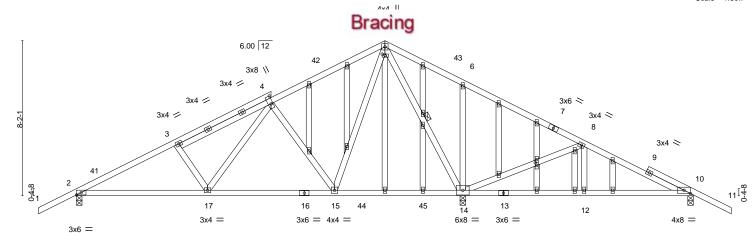
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





6-0-0

Scale = 1:60.7



	'	6-10-14	'	6-8-4	'	6-7-6	0-1-12		6-4-12	1	5-9-0	<u>'</u>
Plate Off	sets (X,Y)	[4:0-5-0,0-1-4], [5:0-1-12,	0-0-12], [10:0	-4-0,0-2-1], [30	:0-1-12,0-1-0]							
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLA	TES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.26 15-17	>936	240	MT2	20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.86	Vert(CT)	-0.28 15-17	>882	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.02 14	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	-MS					Wei	ght: 237 lb	FT = 20%

20-2-8

**BRACING-**

WFBS

TOP CHORD

BOT CHORD

2014-4

1 Row at midpt

26-9-0

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

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

LUMBER-

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

BOT CHORD 2x4 SP No.3 WFBS

**OTHERS** 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 14=0-3-8

6-10-14

Max Horz 2=-131(LC 17)

Max Uplift 2=-246(LC 12), 10=-114(LC 13), 14=-343(LC 13) Max Grav 2=937(LC 23), 10=364(LC 24), 14=1906(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1464/506, 3-4=-1348/519, 4-5=-593/245, 5-6=-241/613, 6-8=-337/631 TOP CHORD

BOT CHORD 2-17=-362/1335 15-17=-211/877

**WEBS** 4-17=-290/683, 4-15=-645/320, 5-15=-451/1042, 5-14=-1349/587, 6-14=-317/200,

8-14=-598/571, 8-12=-304/247

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-3-0, Interior(1) 1-3-0 to 16-3-0, Exterior(2R) 16-3-0 to 19-6-0, Interior(1) 19-6-0 to 34-6-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

13-7-2

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=246, 10=114, 14=343
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-5=-54, 5-11=-54, 17-35=-20, 15-17=-80(F=-60), 15-38=-20

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32-6-0

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

September 8,2022

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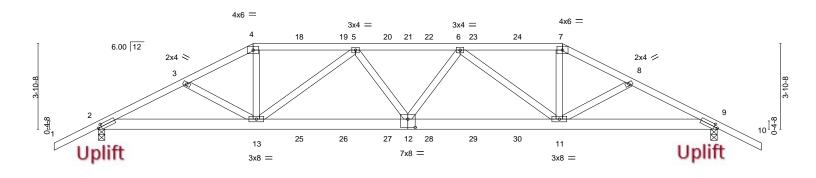
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	b Truss		Truss Type Q			Ply	MIKE ROBERTS - LOT 8 SH			
										T28728676
	3293268	T03	Hip Girder		1	1				
							Job Refere	nce (optional)		
_	Builders FirstSource (Lake 0	City,FL), Lake City, FL - 3	32055,		8.5	30 s Aug	11 2022 Mi	Γek Industries, Inc	: Wed Sep 7 16:07:01	2022 Page 1
				ID:XtdSF	TxT_DHK	HO7t0cV6	SyUJz4RO_	-6VqYy1O8sZd28	Z74QwrQtoiWevAfIh3X	gHzCLNyfzc8
	-2-0-0 3-1	11-15 7-0-0	11-7-10	16-4-6	1	21-0-0	· .	24-0-1	28-0-0	30-0-0
	2-0-0 3-1	11-15 3-0-1	4-7-10	4-8-12	-	4-7-10	'	3-0-1	3-11-15	2-0-0

Scale = 1:52.1



	1	7-0-0	14-0-	-0	21-0-0			1	28-0-0	1	
		7-0-0	1	7-0-	0		7-0-0		1	7-0-0	
Plate Offsets (	(X,Y) [	[2:0-1-12,0-1-8], [9:0-1-12,0-	1-8], [12:0-	4-0,0-4-8]							
LOADING (ps	-f\	SPACING- 2	-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
VI	51)			CSI.			( /	i/deii	L/a		
TCLL 20.	.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.27 12-13	>999	240	MT20	244/190
TCDL 7.	.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.43 11-12	>785	180		
BCLL 0.	.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.12 9	n/a	n/a		
BCDL 10.	.0	Code FBC2020/TPI2	)14	Matri	x-MS					Weight: 164 lb	FT = 20%

LUMBER-

WFBS

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

TOP CHORD Structural wood sheathing directly applied or 2-4-14 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 5-4-4 oc bracing.

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

Max Horz 2=67(LC 27)

Max Uplift 2=-845(LC 8), 9=-862(LC 9) Max Grav 2=2054(LC 1), 9=2091(LC 1)

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

TOP CHORD 2-3=-3968/1705, 3-4=-3805/1667, 4-5=-3435/1539, 5-6=-4509/1990, 6-7=-3507/1570,

7-8=-3887/1703 8-9=-4050/1741

2-13=-1512/3510, 12-13=-1870/4372, 11-12=-1875/4397, 9-11=-1477/3583 BOT CHORD **WEBS** 4-13=-554/1320, 5-13=-1235/596, 5-12=-134/369, 6-12=-101/348, 6-11=-1165/550,

7-11=-527/1283

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 88 lb up at 13-0-12, 106 lb down and 88 lb up at 14-11-4, 106 lb down and 88 lb up at 16-11-4, and 106 lb down and 88 lb up at 18-11-4, and 227 lb down and 175 lb up at 21-0-0 on top chord, and 294 lb down and 206 lb up at 7-0-0, 85 lb down and 59 lb up at 9-0-12, 85 lb down and 59 lb up at 11-0-12, 85 lb down and 59 lb up at 13-0-12, 85 lb down and 59 lb up at 14-11-4, 85 lb down and 59 lb up at 16-11-4, and 85 lb down and 59 lb up at 18-11-4, and 294 lb down and 206 lb up at 20-11-4 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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Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - LOT 8 SH
					T28728676
3293268	T03	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:07:01 2022 Page 2 ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-6VqYy1O8sZd28Z74QwrQtoiWevAflh3XgHzCLNyfzc8

### LOAD CASE(S) Standard

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

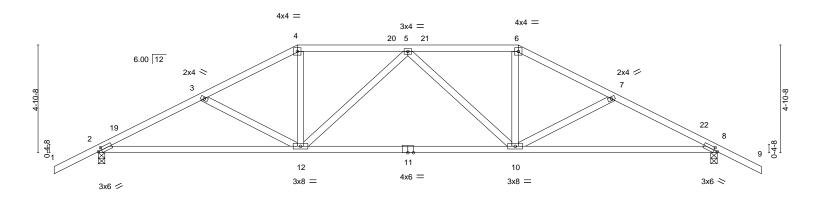
Vert: 1-4=-54, 4-7=-54, 7-10=-54, 2-9=-20

Concentrated Loads (lb)

Vert: 4=-106(B) 7=-180(B) 13=-284(B) 11=-284(B) 18=-106(B) 19=-106(B) 20=-106(B) 22=-106(B) 23=-106(B) 24=-106(B) 25=-61(B) 26=-61(B) 27=-61(B) 27 28=-61(B) 29=-61(B) 30=-61(B)

Job	Truss	Truss Type	•	Qty	Ply	MIKE ROBERTS - LOT	Г 8 SH		
								T28728677	
3293268	T04	Hip		1	1				
						Job Reference (optional	I)		
Builders FirstSource	(Lake City,FL), L	ake City, FL - 32055,			5.530 s Aug	11 2022 MiTek Industrie	s, Inc. Wed Sep 7 16:07:0	2 2022 Page 1	
		-		ID:XtdSHx	r_dhkho7	t0cV6yUJz4ROaiOwAl	NPmdtlvljiGzeMfP?FovJXq1	1GEhvxjltpyfzc7	
-2-0-0	4-9-8	9-0-0	14-0-0	19-0-0	1	23-2-8	28-0-0	30-0-0	
2-0-0	4-9-8	4-2-8	5-0-0	5-0-0		4-2-8	4-9-8	2-0-0	

Scale = 1:52.1



Dieta Officati	Plate Offsets (X,Y) [2:0-1-15,0-1-8] [8:0-1-15,0-1-8]			+	10-0-0						
LOADING (		SPACING-	2-0-0	CSI.		DEFL.	in (loo)	I/defl	L/d	PLATES	GRIP
TCLL 2 TCDL	20.0 7.0	Plate Grip DOL Lumber DOL	1.25 1.25	TC BC	0.30 0.86	Vert(LL) Vert(CT)	in (loc) -0.16 10-12 -0.35 10-12	>999 >960	240 180	MT20	244/190
BCLL BCDL 1	0.0 * 10.0	Rep Stress Incr Code FBC2020/TF	YES PI2014	WB Matrix	0.26 k-MS	Horz(CT)	0.07 8	n/a	n/a	Weight: 140 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

19-0-0

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

WFBS

2x4 SP No 2 2x4 SP No 2

2x4 SP No.3

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=82(LC 12)

Max Uplift 2=-266(LC 12), 8=-266(LC 13)

Max Grav 2=1144(LC 1), 8=1144(LC 1)

9-0-0

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

2-3=-1877/408, 3-4=-1616/335, 4-5=-1409/328, 5-6=-1409/328, 6-7=-1616/335, TOP CHORD

7-8=-1877/408

BOT CHORD 2-12=-364/1638, 10-12=-244/1568, 8-10=-289/1638

**WEBS** 3-12=-279/161, 4-12=-66/483, 5-12=-306/140, 5-10=-306/140, 6-10=-65/483,

7-10=-279/161

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-7, Interior(1) 23-4-7 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.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=266, 8=266.

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September 8,2022



28-0-0

Structural wood sheathing directly applied or 4-2-11 oc purlins.

Rigid ceiling directly applied or 9-8-11 oc bracing.

MIKE ROBERTS - LOT 8 SH Job Truss Truss Type Qty Ply T28728678 3293268 T05 diH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:07:03 2022 Page 1 ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-2uyINjPOOBtmNtGTXLtuyDnwqjzNmiUq7bSJQGyfzc6 11-0-0 22-4-1 28-0-0 30-0-0 6-0-0 2-0-0

Scale = 1:52.1

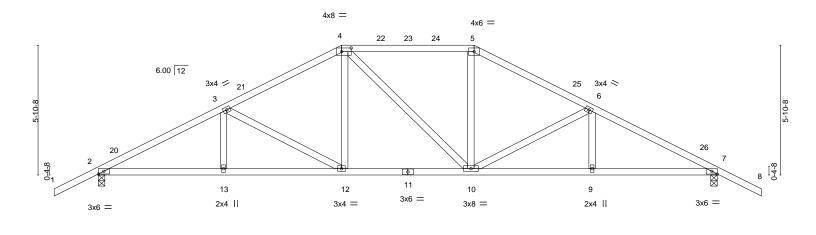


Plate Offsets (X,	[4:0-5-4,0-2-0], [7:0-2-15,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Vert(LL) -0.08 12 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.46	Vert(CT) -0.16 10-12 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.07 7 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 146 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

6-0-0

LUMBER-

REACTIONS.

WFBS

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

2x4 SP No.3

(size) 2=0-3-8, 7=0-3-8 Max Horz 2=-97(LC 17)

Max Uplift 2=-263(LC 12), 7=-263(LC 13) Max Grav 2=1144(LC 1), 7=1144(LC 1)

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

TOP CHORD 2-3=-1884/380. 3-4=-1455/331. 4-5=-1248/328. 5-6=-1455/331. 6-7=-1884/381 **BOT CHORD** 2-13=-348/1632, 12-13=-348/1632, 10-12=-187/1248, 9-10=-265/1632, 7-9=-265/1632

WFBS 3-12=-447/184. 4-12=-52/382. 5-10=-46/383. 6-10=-447/184

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 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.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=263, 7=263.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



5-7-15

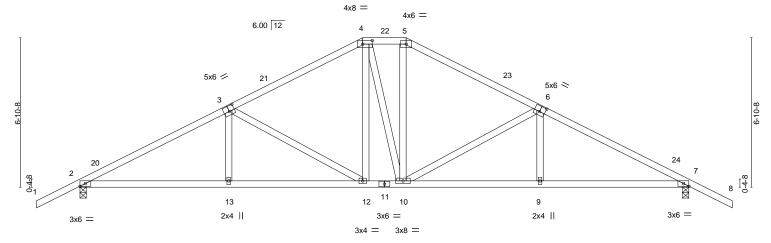
Structural wood sheathing directly applied or 4-1-7 oc purlins.

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



ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-W4Wgb3Q09U?d?1rf52O7VQK6Y7I9V5\_\_MFCsyiyfzc5 15-0-0 21-1-14 28-0-0 6-1-14 2-0-0 6-10-2 2-0-0

Scale = 1:53.0



	6-10-2	13-0-0	15-0-0	21-1-14	1 28-0-0	1
	6-10-2	6-1-14	2-0-0	6-1-14	6-10-2	1
Plate Offsets (X,Y)	[3:0-3-0,0-3-0], [4:0-5-4,0-2-0], [6	6:0-3-0,0-3-0], [7:0-2-15,Edge]				

LOADING TCLL	<b>G</b> (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.42	DEFL. Vert(LL)	in -0.08	(loc)	l/defl >999	L/d 240	PLATES MT20	<b>GRIP</b> 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.17	12	>999	180	WITZU	244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2020/TF	YES PI2014	WB Matri	0.57 ix-MS	Horz(CT)	0.07	/	n/a	n/a	Weight: 153 lb	FT = 20%

LUMBER-

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

**BRACING-**TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied or 3-11-11 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=112(LC 12)

Max Uplift 2=-260(LC 12), 7=-260(LC 13) Max Grav 2=1144(LC 1), 7=1144(LC 1)

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

TOP CHORD 2-3=-1845/364, 3-4=-1304/303, 4-5=-1098/305, 5-6=-1306/304, 6-7=-1844/364 **BOT CHORD**  $2\text{-}13\text{=-}338/1589,\ 12\text{-}13\text{=-}338/1590,\ 10\text{-}12\text{=-}140/1096,\ 9\text{-}10\text{=-}238/1589,\ 7\text{-}9\text{=-}238/1588}$  $3-13=0/281,\, 3-12=-577/227,\, 4-12=-81/349,\, 5-10=-85/353,\, 6-10=-574/227,\, 6-9=0/278$ WFBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2E) 13-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 30-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 7=260.

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September 8,2022



MIKE ROBERTS - LOT 8 SH Job Truss Truss Type Qty Ply T28728680 3293268 T07 2 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:07:05 2022 Page 1 ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-\_G43oPRfwo7UcAQrfmvM1etF7XY6Ecr7bvxPU8yfzc4 14-0-0 28-0-0

7-0-0

Scale = 1:51.5

7-0-0

9-10-8

Structural wood sheathing directly applied or 3-7-9 oc purlins.

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

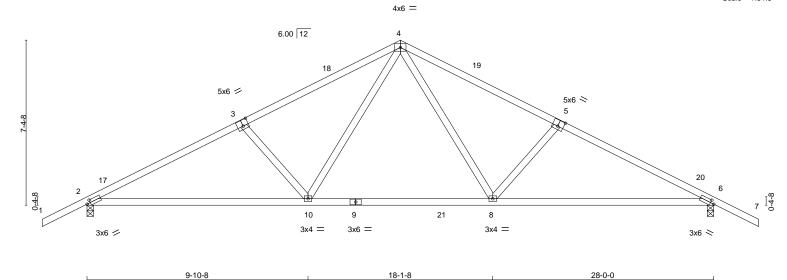


Plate Offsets (X,Y)				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.56	Vert(LL) -0.21 8-16 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.95	Vert(CT) -0.45 8-16 >751 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.06 6 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 132 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

8-3-0

LUMBER-

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

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

Max Horz 2=-119(LC 13)

Max Uplift 2=-258(LC 12), 6=-258(LC 13) Max Grav 2=1223(LC 2), 6=1222(LC 2)

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

9-10-8

2-3=-1937/383, 3-4=-1743/366, 4-5=-1742/366, 5-6=-1936/383 TOP CHORD

**BOT CHORD** 2-10=-354/1703, 8-10=-123/1134, 6-8=-260/1702

WFBS 4-8=-152/712. 5-8=-399/238. 4-10=-152/714. 3-10=-399/238

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=258, 6=258.

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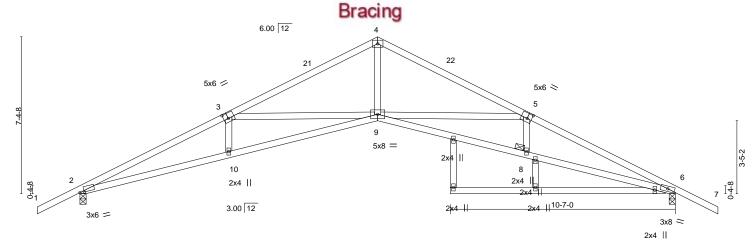
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-wfBpD4SvRPNCsUaEmByq63ycAKDmiMKQ2DQWZ1yfzc2 14-0-0 21-0-0 28-0-0 30-0-0 7-0-0 7-0-0 2-0-0

Scale = 1:54.2



ı	7-0-0	14-0-0	17-5-0	21-0-0	28-0-0	
	7-0-0	7-0-0	3-5-0	3-7-0	7-0-0	1
Plate Offsets (X,Y)-	[2:0-2-8,0-0-4], [3:0-2-8,0-3-0], [5	:0-2-8,0-3-0]				

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.46	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.30 9-10 >999 240	PLATES GRIP MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.94	Vert(CT) -0.61 9-10 >549 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(CT) 0.40 6 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 147 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x4 SP M 31 \*Except\* 1-3.5-7: 2x4 SP No.2

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

6-11: 2x4 SP No.3 **WEBS** 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=-119(LC 13)

Max Uplift 2=-258(LC 12), 6=-258(LC 13) Max Grav 2=1144(LC 1), 6=1144(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3341/689, 3-4=-2349/405, 4-5=-2349/407, 5-6=-3341/603 BOT CHORD 2-10=-657/3017, 9-10=-657/3033, 8-9=-474/3033, 6-8=-473/3017 WEBS 4-9=-216/1640, 5-9=-960/406, 5-8=0/265, 3-9=-960/396, 3-10=0/265

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 0-8-11, Interior(1) 0-8-11 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=258, 6=258.

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September 8,2022

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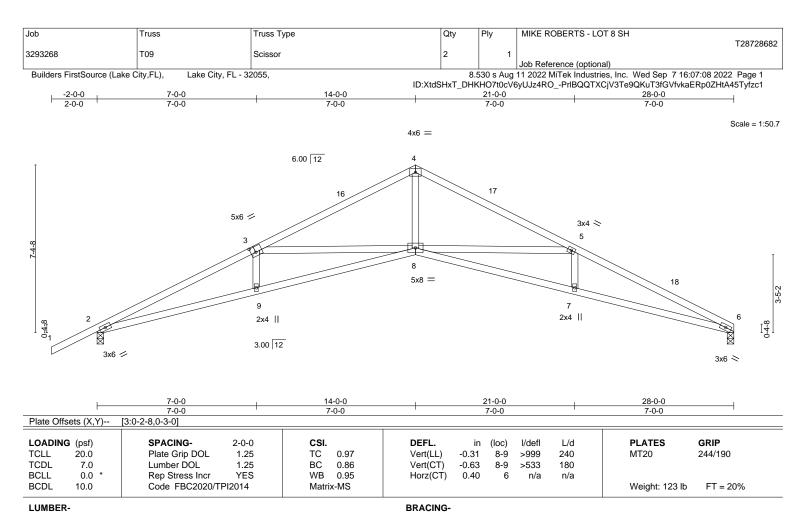
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 2-10-9 oc purlins.

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

1 Brace at Jt(s): 8



TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

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

LUMBER-

2x4 SP No.2 \*Except\* TOP CHORD 3-4: 2x4 SP M 31

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

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=134(LC 12)

Max Uplift 6=-214(LC 13), 2=-259(LC 12) Max Grav 6=1032(LC 1), 2=1148(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3358/707, 3-4=-2363/446, 4-5=-2364/460, 5-6=-3402/673

BOT CHORD 2-9=-688/3032, 8-9=-688/3048, 7-8=-557/3086, 6-7=-557/3082 **WEBS** 4-8=-240/1661, 5-8=-997/424, 5-7=0/271, 3-8=-964/396, 3-9=0/265

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 0-8-11, Interior(1) 0-8-11 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 28-0-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 6, 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) 6=214, 2=259.

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September 8,2022

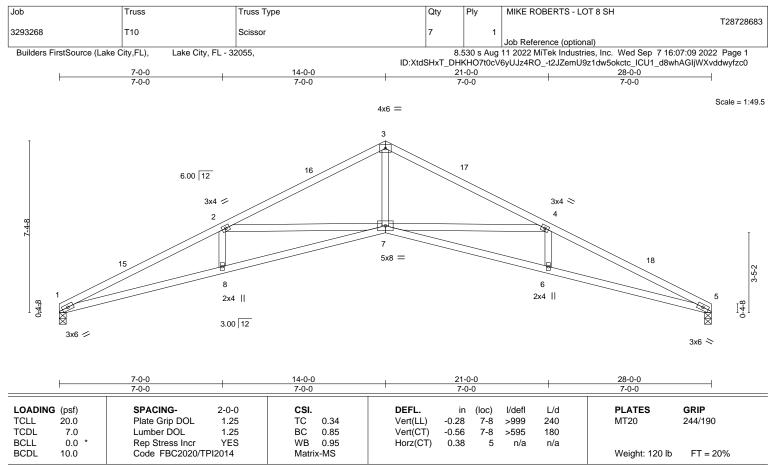


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LUMBER-

TOP CHORD 2x4 SP M 31 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins.

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=-104(LC 17)

Max Uplift 1=-215(LC 12), 5=-215(LC 13) Max Grav 1=1036(LC 1), 5=1036(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-3414/733, 2-3=-2378/456, 3-4=-2378/465, 4-5=-3414/678 TOP CHORD

**BOT CHORD** 1-8=-714/3093, 7-8=-715/3097, 6-7=-562/3097, 5-6=-561/3093 WFBS  $3-7=-248/1677,\ 4-7=-995/425,\ 4-6=0/272,\ 2-7=-995/415,\ 2-8=0/272$ 

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 28-0-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 1, 5 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=215, 5=215.

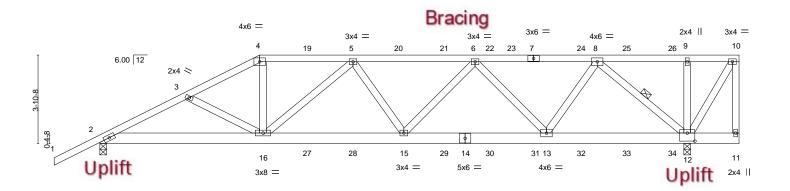
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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job	Truss		Truss Type	Q	Qty	Ply	MIKE ROBERTS -	LOT 8 SH		T00700004
3293268	T11		Half Hip Girder	1		1				T28728684
							Job Reference (opti	onal)		
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:07:10 2022 Page 1					Page 1
				ID:XtdS	SHxT_D	HKHO7t0c	V6yUJz4ROLEtxr	SVnkKlmjyJpRJVXkha37	7YIXvpTskBfA9	9Myfzc?
-2-0-0	3-10-15	7-0-0	11-1-1	16-5-4			21-9-8	25-8-12	28-0-0	1
2-0-0	3-10-15	3-1-1	4-1-1	5-4-3			5-4-4	3-11-5	2-3-4	

Scale = 1:50.5



	7-0-0	13-3-12	19-6-12	25-8	-12 25-10-8 28-0-0
	7-0-0	6-3-12	6-3-0	6-2	-0 0-1-12 2-1-8
Plate Offsets (X,Y)	[12:0-4-0,0-4-4]				
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 NC Code FBC2020/TPI2014	CSI. TC 0.74 BC 0.75 WB 0.57 Matrix-MS	DEFL.         in (loc)         I/def           Vert(LL)         0.19 15-16         >998           Vert(CT)         -0.29 15-16         >998           Horz(CT)         0.08         12         n/a	240 9 180	PLATES         GRIP           MT20         244/190           Weight: 176 lb         FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

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

2x4 SP No 3 WFBS

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

Max Horz 2=151(LC 27)

Max Uplift 2=-752(LC 8), 12=-1202(LC 5) Max Grav 2=1829(LC 1), 12=2609(LC 1)

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

TOP CHORD 2-3=-3471/1499. 3-4=-3295/1455. 4-5=-2966/1345. 5-6=-3621/1624. 6-8=-2572/1146 BOT CHORD 2-16=-1414/3069, 15-16=-1634/3599, 13-15=-1517/3365, 12-13=-822/1818 WFBS

4-16=-483/1136, 5-16=-893/441, 6-15=-176/469, 6-13=-1190/571, 8-13=-617/1404,

8-12=-2550/1161, 9-12=-420/216

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=752, 12=1202.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 88 lb up at 13-0-12, 106 lb down and 88 lb up at 15-0-12, 106 lb down and 84 lb up at 17-0-12, 106 lb down and 88 lb up at 19-0-12, 106 lb down and 88 lb up at 21-0-12, 106 lb down and 88 lb up at 23-0-12, 106 lb down and 88 lb up at 25-0-12, and 106 lb down and 88 lb up at 25-11-4, and 136 lb down and 86 lb up at 27-10-4 on top chord, and 294 lb down and 206 lb up at 7-0-0, 85 lb down and 59 lb up at 9-0-12, 85 lb down and 59 lb up at 11-0-12, 85 lb down and 59 lb up at 13-0-12, 85 lb down and 59 lb up at 15-0-12, 85 lb down and 59 lb up at 17-0-12, 85 lb down and 59 lb up at 19-0-12, 85 lb down and 59 lb up at 23-0-12, 85 lb down and 59 lb up at 23-0-12, 85 lb down and 59 lb up at 25-0-12, and 85 lb down and 59 lb up at 25-11-4, and 106 lb down and 49 lb up at 27-10-4 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:

September 8,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 2-6-15 oc purlins,

8-12

Rigid ceiling directly applied or 5-8-15 oc bracing.

except end verticals.

1 Row at midpt

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - LOT 8 SH
					T28728684
3293268	T11	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:07:10 2022 Page 2 ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-LEtxr6VnkKlmjyJpRJVXkha37YIXvpTskBfA9Myfzc?

### LOAD CASE(S) Standard

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

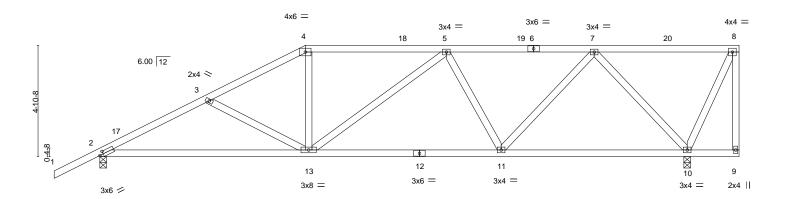
Vert: 1-4=-54, 4-10=-54, 2-11=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 7=-106(F) 10=-136(F) 11=-72(F) 16=-284(F) 5=-106(F) 15=-61(F) 9=-106(F) 12=-61(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-106(F) 24=-106(F) 25=-106(F) 26=-106(F) 27=-61(F) 28=-61(F) 30=-61(F) 31=-61(F) 32=-61(F) 3

Job	Truss	Truss Type		Qty	Ply	MIKE ROBERTS -	LOT 8 SH	
3293268	T12	Half Hip		1	1			T28728685
3293200	112	Hall Hip		'	'	Job Reference (opt	tional)	
Builders FirstSour	rce (Lake City,FL), La		8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:07:11 2022 Page 1					
			ID:Xtds	SHxT_DHK	HO7t0cV6y	/UJz4ROpQRK3S	SVPVetdK5u??10mHv6J1xeSeBH0	)zrOkioyfzc_
-2-0-0	4-9-8	9-0-0	15-2-2	1	21-7	-14	28-0-0	
2-0-0	4-9-8	4-2-8	6-2-2		6-5-	12	6-4-2	

Scale = 1:50.5



<u> </u>	9-0-0		17-6-15	25-8-12	25-10-8 28-0-0
<u> </u>	9-0-0	<u>'</u>	8-6-15	8-1-13	0-1-12 2-1-8
Plate Offsets (X,Y)	[2:0-1-15,0-1-8]				
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 0.41	Vert(LL) -0.13 13-16	>999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.77	Vert(CT) -0.27 13-16	>999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(CT) 0.05 10	n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 151 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

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

Max Horz 2=185(LC 12)

Max Uplift 2=-272(LC 12), 10=-289(LC 9) Max Grav 2=1058(LC 1), 10=1112(LC 1)

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

2-3=-1685/420, 3-4=-1424/346, 4-5=-1235/340, 5-7=-1134/268 TOP CHORD

**BOT CHORD** 2-13=-478/1468, 11-13=-345/1297, 10-11=-198/709

WFBS  $3-13=-276/156,\ 4-13=-24/408,\ 5-11=-352/184,\ 7-11=-151/639,\ 7-10=-1134/342$ 

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 27-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=272, 10=289.

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September 8,2022



Structural wood sheathing directly applied or 4-5-3 oc purlins,

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

except end verticals.

8-6-4 oc bracing: 2-13.

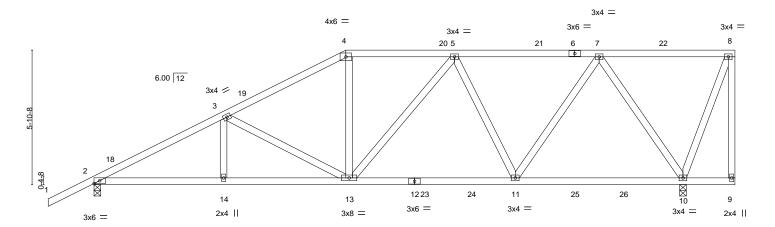
MIKE ROBERTS - LOT 8 SH Job Truss Truss Type Qty Ply T28728686 3293268 T13 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:07:12 2022 Page 1 ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-Hd?iGoW2Gy?UyFTBZkX?p6fT1L?kNcm9CV8HDEyfzbz 11-0-0

6-3-13

5-4-1

Scale = 1:50.3

5-11-3



	5-7-15 5-7-15		-0-0 4-1	18-4-14 7-4-14			25-8-12 7-3-15		3 28-0-0 2-1-8
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TI	2-0-0 1.25 1.25 YES PI2014	CSI. TC 0.3 BC 0.6 WB 0.9 Matrix-MS	63 Vert(CT) 96 Horz(CT)	in (loc) -0.11 11-13 -0.19 11-13 0.05 10	>999 24 >999 18	-	PLATES MT20 Weight: 164 lb	<b>GRIP</b> 244/190 FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 WFBS

> (size) 2=0-3-8, 10=0-3-8 Max Horz 2=219(LC 12)

5-7-15

2-0-0

Max Uplift 2=-269(LC 12), 10=-282(LC 9) Max Grav 2=1118(LC 2), 10=1234(LC 2)

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

2-3=-1839/393, 3-4=-1380/318, 4-5=-1192/318, 5-7=-987/214 TOP CHORD **BOT CHORD** 2-14=-482/1604, 13-14=-482/1604, 11-13=-295/1137, 10-11=-145/580

WFBS 3-13=-485/187, 4-13=-23/398, 5-11=-393/190, 7-11=-150/742, 7-10=-1098/303

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 27-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=269, 10=282.

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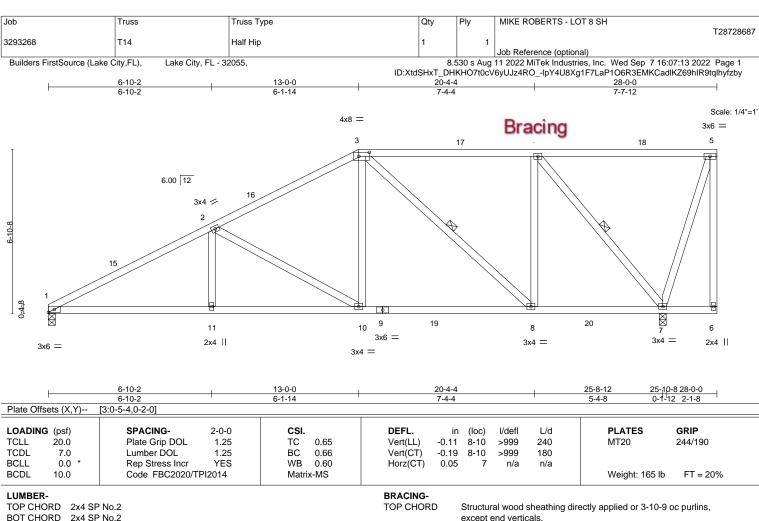
September 8,2022



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

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

except end verticals



**BOT CHORD** 

WEBS

Rigid ceiling directly applied or 8-2-0 oc bracing.

3-8, 4-7

1 Row at midpt

2x4 SP No 2

BOT CHORD 2x4 SP No 3 WFBS

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=224(LC 12)

Max Uplift 1=-220(LC 12), 7=-276(LC 9) Max Grav 1=1034(LC 2), 7=1245(LC 2)

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

TOP CHORD 1-2=-1814/386. 2-3=-1249/286. 3-4=-737/176

**BOT CHORD** 1-11=-501/1589, 10-11=-501/1589, 8-10=-295/1067, 7-8=-176/737

WFBS 2-11=0/268, 2-10=-615/237, 3-10=-70/573, 3-8=-444/160, 4-8=-66/569, 4-7=-1225/289

### NOTES-

1=220, 7=276.

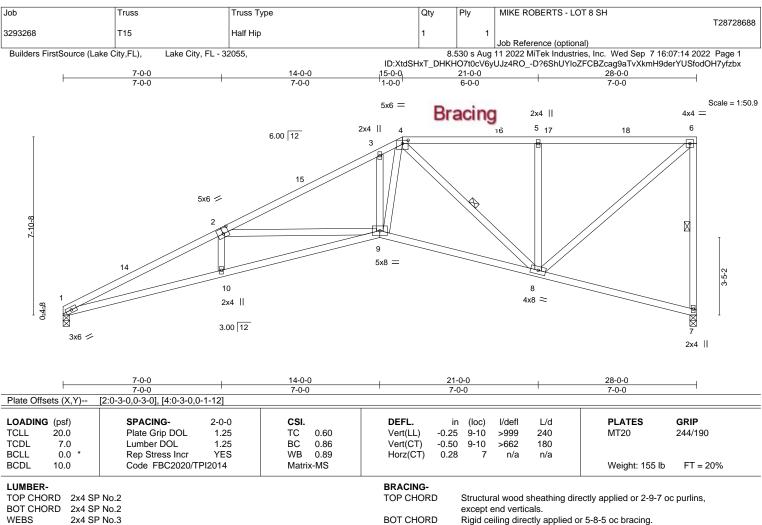
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 27-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

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on any electronic copies.





WEBS

1 Row at midpt

6-7, 4-8

2x4 SP No 3

REACTIONS. (size) 7=0-3-8, 1=0-3-8

Max Horz 1=259(LC 12) Max Uplift 7=-247(LC 9), 1=-232(LC 12)

Max Grav 7=1031(LC 1), 1=1031(LC 1)

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

TOP CHORD 1-2=-3394/950, 2-3=-2359/660, 3-4=-2359/766, 4-5=-961/255, 5-6=-961/255,

6-7=-975/263

BOT CHORD 1-10=-1071/3074, 9-10=-1072/3076, 8-9=-537/1698

**WEBS**  $2 - 10 = 0/275, \ 2 - 9 = -932/379, \ 3 - 9 = -371/225, \ 4 - 8 = -941/365, \ 5 - 8 = -406/197, \ 6 - 8 = -336/1253, \ 4 - 8 = -941/365, \ 5 - 8 = -406/197, \ 6 - 8 = -336/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -306/1253, \ 6 - 8 = -406/197, \ 6 - 8 = -406/197, \ 6 - 8 = -406/197, \ 6 - 8 = -406/197, \ 6 - 8 = -406/197, \ 6$ 

4-9=-601/1721

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 27-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 7, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=247, 1=232,

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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:

September 8,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply MIKE ROBERTS - LOT 8 SH T28728689 T19 3293268 Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:07:16 2022 Page 1 ID:XtdSHxT\_DHKHO7t0cV6yUJz4RO\_-AOED69ZYKAWwRtmzoacx\_yqBNyN4Jckl766VM0yfzbv 16-0-0 18-0-0 9-0-0

3-1-1

3-10-15

16-0-0

7-0-0

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

Rigid ceiling directly applied or 7-2-0 oc bracing.

Scale = 1:32.6

2-0-0

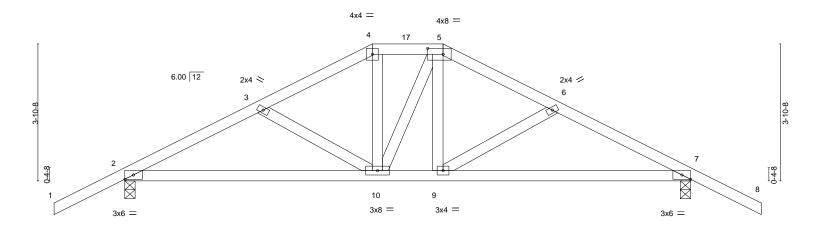


Plate Offsets	Plate Offsets (X,Y) [5:0-5-4,0-2-0], [7:0-2-15,Edge]											
LOADING (	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.08	9-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.61	Vert(CT)	-0.14	9-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.04	7	n/a	n/a		
BCDL 1	10.0	Code FBC2020/TI	PI2014	Matri	x-MS						Weight: 83 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

9-0-0

2-0-0

LUMBER-

REACTIONS.

WFBS

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

BOT CHORD 2x4 SP No.3

> (size) 2=0-3-8, 7=0-3-8 Max Horz 2=-67(LC 28)

Max Uplift 2=-432(LC 8), 7=-431(LC 9) Max Grav 2=1122(LC 1), 7=1131(LC 1)

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

TOP CHORD 2-3=-1855/764. 3-4=-1673/732. 4-5=-1478/674. 5-6=-1690/741. 6-7=-1875/765

7-0-0

2-10=-672/1621, 9-10=-616/1491, 7-9=-641/1638 BOT CHORD

WFBS 4-10=-220/519. 5-9=-211/503

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=432, 7=431,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, and 227 lb down and 171 lb up at 9-0-0 on top chord, and 294 lb down and 206 lb up at 7-0-0, and 294 lb down and 206 lb up at 8-11-4 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

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

Vert: 1-4=-54, 4-5=-54, 5-8=-54, 11-14=-20

Concentrated Loads (lb)

Vert: 4=-106(B) 5=-180(B) 10=-284(B) 9=-284(B)

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

September 8,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

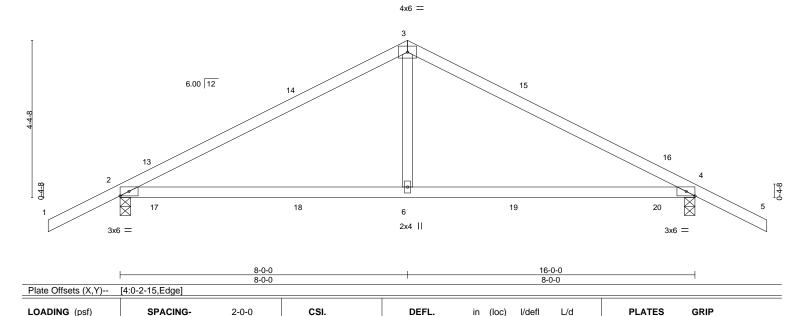
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

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	Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - LOT 8 SH			
							T28728690		
	3293268	T20	Common	2	1				
						Job Reference (optional)			
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,				8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 7 16:07:16 2022 Page 1					
			ID	:XtdSHxT_DHKH	O7t0cV6yL	JJz4ROAOED69ZYKAWwRtmzoacx_yq4iyMUJ	ldMl766VM0yfzbv		
	-2-0-0		8-0-0		-	16-0-0	18-0-0		
	2-0-0	2-0-0 8-0-0				8-0-0			

Scale: 3/8"=1



in (loc)

6-9

>866

>929

n/a

240

180

n/a

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

MT20

Structural wood sheathing directly applied or 4-2-15 oc purlins.

Weight: 63 lb

244/190

FT = 20%

0.22 6-12

-0.21

0.01

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

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

20.0

7.0

0.0

10.0

REACTIONS.

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=-74(LC 17)

Max Uplift 2=-172(LC 9), 4=-172(LC 8) Max Grav 2=700(LC 1), 4=700(LC 1)

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-815/846 3-4=-815/846 **BOT CHORD** 2-6=-628/650, 4-6=-628/650

WFBS 3-6=-481/367

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 18-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

1.25

1.25

YES

ТС

вс

WB

Matrix-MS

0.73

0.65

0.16

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=172, 4=172.

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



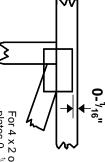


## Symbols

# 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 20/20 software or upon request.

### PLATE SIZE

4 × 4

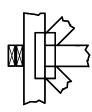
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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 where bearings occur.

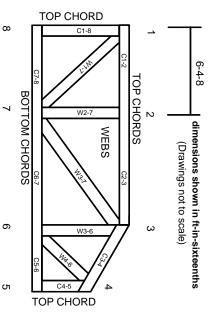
Min size shown is for crushing only

## 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 & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

# **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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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. 5/19/2020

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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

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

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.