## PERMIT # 38857 5,000



Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

LMSAPP-FIN - LMSAPP-FIN

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Lee Holloway Project Name: . Model: .

Lot/Block: .

Subdivision: .

Address: ., .

City: High Springs

State: FI

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

License #:

Address:

City:

State:

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

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10

Wind Speed: 130 mph

Roof Load: 40.0 psf

Floor Load: N/A psf

This package includes 4 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.

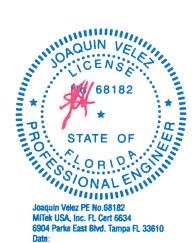
Seal#	Truss Name	Date
T19033309	A1	1/3/20
T19033310	A2	1/3/20
T19033311	A3	1/3/20
T19033312	A4	1/3/20
	T19033309 T19033310 T19033311	T19033309 A1 T19033310 A2 T19033311 A3

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

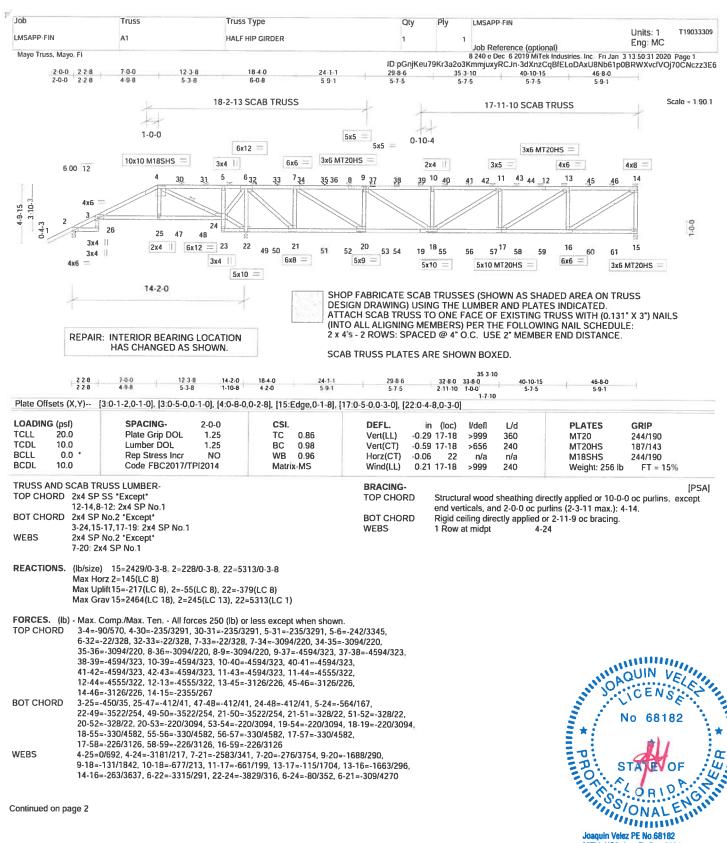
Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2021.

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.



January 3,2020





January 3,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rav. 10/03/2015 BEFORE USE Design valid for use only with MiTeke connectors. This design is based only upon parameters shown, and is for an individual busiding 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 designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent uccling with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

ANSUTP11 Quality Criteria, DSB-89 and BCSI Building Component Safaty Information available from Truss Plate Institute, 218 N Lee Street, Suite 312, Alexandria, VA 22314



Job	Truss	Truss Type	Qty	Ply	LMSAPP-FIN	
LMSAPP-FIN	A1	HALF HIP GIRDER	1	1		T19033309
					Job Reference (optional)	
Mayo Truss, Mayo, FI				8 240 a Dac 6 2019 MiTak Industrias Inc. Ed la	3 13 50 31 2020 Page 2	

ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-3dXnzCqBfELoDAxU8Nb61p0BRWXvcfVOj70CNczz3E6

## NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.
 All plates are MT20 plates unless otherwise indicated.

- 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) 22 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 217 lb uplift at joint 15, 55 lb uplift at joint 2 and 379 lb uplift at joint 2.

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

  10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 138 lb up at 7-0-0, 109 lb down and 69 lb up at 8-8-12, 109 lb down and 69 lb up at 10-8-12, 121 lb down and 80 lb up at 18-8-12, 121 lb down and 80 lb up at 18-8-12, 121 lb down and 80 lb up at 20-8-12, 121 lb down and 80 lb up at 22-8-12, 121 lb down and 80 lb up at 26-8-12, 1 down and 80 lb up at 28-8-12, 121 lb down and 80 lb up at 30-8-12, 121 lb down and 80 lb up at 32-8-12, 121 lb down and 80 lb up at 34-8-12, 121 lb down and 80 lb up at 36-8-12, 121 lb down and 80 lb up at 38-8-12, 121 lb down and 80 lb up at 40-8-12, 121 lb down and 80 lb up at 42-8-12, and 121 lb down and 80 lb up at 44-8-12, and 154 lb down and 68 lb up at 46-6-4 on top chord, and 442 lb down and 18 lb up at 7-0-0, 78 lb down at 8-8-12, 78 lb down at 10-8-12, 83 lb down at 12-5-4, 83 lb down at 14-8-12, 83 lb down at 16-8-12, 83 lb down at 18-5-12, 83 lb down at 28-8-12, 83 lb down at 22-8-12, 83 lb down at 24-8-12, 83 lb down at 26-8-12, 83 lb down at 28-8-12, down at 30-5-15, 83 lb down at 32-8-12, 83 lb down at 34-8-12, 83 lb down at 34-8-12, 83 lb down at 38-8-12, 83 lb down at 40-8-12, and 83 lb down at 42-8-12, and 83 lb down at 44-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

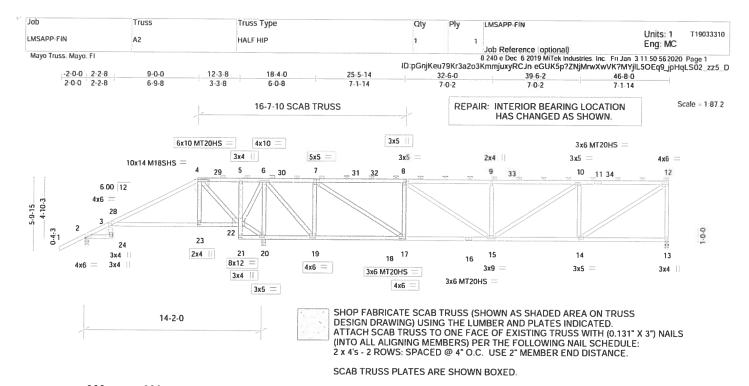
## LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-60, 4-14=-60, 26-27=-20, 3-24=-20, 15-23=-20

Concentrated Loads (lb)

Vert: 4=-109(F) 8=-121(F) 14=-154(F) 24=-59(F) 5=-121(F) 25=-442(F) 21=-59(F) 13=-121(F) 16=-59(F) 12=-121(F) 19=-59(F) 30=-109(F) 31=-109(F) 32=-121(F) 33=-121(F) 35=-121(F) 3



2-2-8 2-2-8 9-0-0 12-3-8 14-2-0 18-4-0 46-8-0 7-1-14 25-5-14 32-6-0 39-6-2 6-9-8 3-3-8 1-10-8 4-2-0 7-1-14 [3:0-1-2,0-1-0], [3:0-5-0,0-1-0], [4:0-7-0,0-2-0], [7:0-2-8,0-3-0], [14:0-2-7,0-1-8] 7-0-2 LOADING (psf) SPACING-2-0-0 CSL DEFL in (loc) l/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.59 Vert(LL) -0.12 15 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL BC 1.25 0.54 Vert(CT) -0.24 15-17 >999 240 MT20HS 187/143 BCLL 0.0 Rep Stress Incr WB 0.61 Horz(CT) -0.04 20 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS 3-23 Wind(LL) 0.08 >999 240 FT = 15% Weight: 265 lb

BRACING-

TOP CHORD

**BOT CHORD** 

TRUSS AND SCAB TRUSS LUMBER-

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

2x4 SP No.2

REACTIONS. (lb/size) 13=1064/0-3-8, 2=195/0-3-8, 20=2583/0-3-8

Max Horz 2=174(LC 12) Max Uplift13=-59(LC 12), 2=-41(LC 12), 20=-188(LC 12) Max Grav 13=1134(LC 22), 2=196(LC 21), 20=2583(LC 1)

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

TOP CHORD

3-28=-286/675, 4-28=-282/862, 4-29=-400/1502, 5-29=-400/1502, 5-6=-397/1503, 6-30=-235/411, 7-30=-235/411, 7-31=-1428/123, 31-32=-1428/123, 8-32=-1428/123, 8-9=-1830/186, 9-33=-1830/186, 10-33=-1830/186, 10-11=-1391/149, 11-34=-1391/149,

12-34=-1391/149, 12-13=-1067/159

**BOT CHORD** 

3-23=-689/167, 22-23=-681/168, 19-20=-1565/405, 18-19=-375/22, 17-18=-375/227,

16-17=-123/1428, 15-16=-123/1428, 14-15=-149/1391

WEBS

4-23=0/269, 4-22=-1184/333, 7-19=-1273/268, 7-17=-257/1677, 8-17=-766/228, 8-15=-132/609, 9-15=-409/146, 10-15=-44/523, 10-14=-734/186, 12-14=-172/1611,

6-20=-1664/271, 20-22=-1727/441, 6-19=-256/1842

## NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-0 to 2-8-0, Interior(1) 2-8-0 to 9-0-0, Exterior(2) 9-0-0 to 15-7-3, Interior(1) 15-7-3 to 46-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.

4) All plates are MT20 plates unless otherwise indicated.

- 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 59 lb uplift at joint 13, 41 lb uplift at joint 2 and 188 lb uplift at joint 20.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

No 68182

No 68182

No 68182

Joaquin Velez PE No 68182 Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

January 3,2020

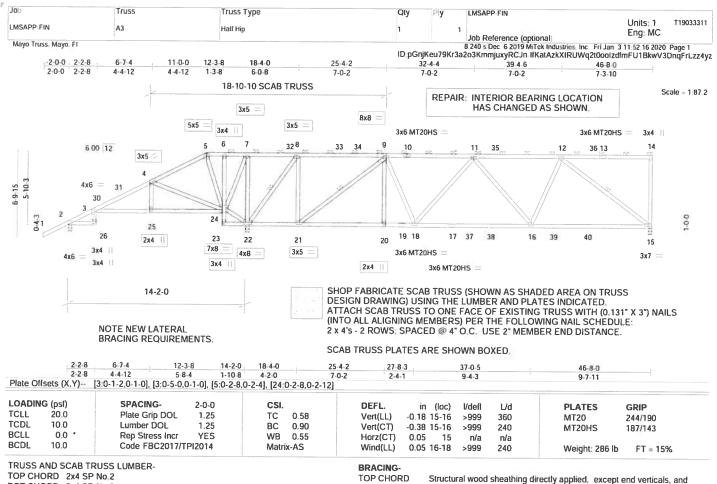
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIN-7473 rev., 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters 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 property 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 amange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information. Available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Structural wood sheathing directly applied, except end verticals, an[PSA]

2-0-0 oc purlins (3-10-9 max.): 4-12.

Rigid ceiling directly applied.



**BOT CHORD** 

WEBS

2-0-0 oc purlins (4-6-7 max.): 5-14.

9-21, 12-15, 8-22

Rigid ceiling directly applied.

1 Row at midpt

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

REACTIONS. (lb/size) 15=1089/0-3-8, 2=252/0-3-8, 22=2501/0-3-8

Max Horz 2=203(LC 12)

Max Uplift15=-61(LC 12), 2=-35(LC 12), 22=-191(LC 12)

Max Grav 15=1160(LC 22), 2=252(LC 1), 22=2501(LC 1)

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

TOP CHORD 3-30=-192/373, 30-31=-181/403, 4-31=-170/461, 4-5=-253/973, 5-6=-238/1011,

6-7=-236/1014, 7-32=-268/1141, 8-32=-268/1141, 9-10=-1379/123, 10-11=-1379/123,

11-35=-1352/122, 12-35=-1352/122

3-25=-341/16, 24-25=-340/15, 20-21=-124/1241, 19-20=-125/1240, 18-19=-125/1240, BOT CHORD

17-18=-183/1539, 17-37=-183/1539, 37-38=-183/1539, 16-38=-183/1539,

16-39=-144/1173, 39-40=-144/1173, 15-40=-144/1173

4-24=-522/170, 5-24=-623/216, 8-21=-56/1013, 9-21=-1435/216, 9-18=-24/499, 11-18=-341/129, 11-16=-290/96, 12-16=0/513, 12-15=-1437/183, 7-22=-470/132,

22-24=-1216/317, 7-24=-83/334, 8-22=-1688/226

## NOTES:

WEBS

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-0 to 2-8-0, Interior(1) 2-8-0 to 11-0-0, Exterior(2) 11-0-0 to 17-7-3, Interior(1) 17-7-3 to 46-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 3x5 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 15, 35 lb uplift at joint 2 and 191 lb uplift at joint 22. 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
- sheetrock be applied directly to the bottom chord. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

No 68182

No 68182

No 68182

Joaquin Velez PE No 68182

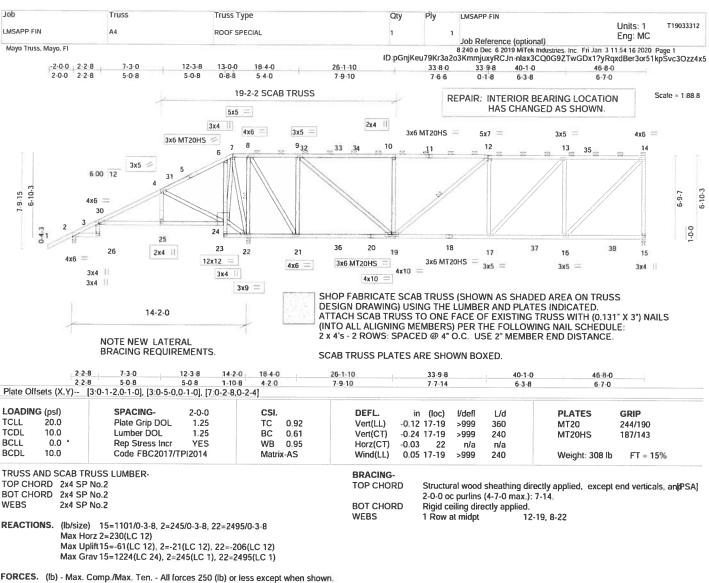
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

January 3,2020

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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 property 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 russ systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314





TOP CHORD

3-30=-224/461, 4-30=-199/563, 4-31=-243/946, 5-31=-231/984, 5-6=-229/1049, 6-7=-141/978, 7-8=-174/960, 8-32=-280/154, 9-32=-280/154, 9-33=-1202/121, 33-34=-1202/121, 10-34=-1202/121, 10-11=-1202/121, 11-12=-1204/121, 12-13=-1366/145, 13-35=-971/106, 14-35=-971/106, 14-15=-1119/176

**BOT CHORD** 3-25=-413/31, 24-25=-412/30, 21-22=-915/170, 21-36=-154/280, 20-36=-154/280,

19-20=-154/280, 18-19=-147/1369, 17-18=-147/1369, 17-37=-106/971, 16-37=-106/971 WEBS

4-24=-529/124, 9-21=-1256/257, 9-19=-180/1334, 10-19=-484/175, 12-19=-362/62, 12-17=-275/121, 13-17=-55/573, 13-16=-820/185, 14-16=-147/1347, 8-22=-1461/221,

7-22=-455/130, 22-24=-982/204, 8-21=-206/1640

## NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. ||; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-0 to 2-8-0, Interior(1) 2-8-0 to 13-0-0, Exterior(2) 13-0-0 to 17-8-0, Interior(1) 17-8-0 to 46-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.

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 61 lb uplift at joint 15, 21 lb uplift at joint 2 and 206 lb uplift at joint 22.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

LOAD CASE(S) Standard

NO 68182

NO 68182

Win Velez PE No.68182

USA, Inc. Fi. Cert 66°

vike East Blvd. Tar

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE

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ANSIGNET Observation available from Truss Plate Institute, 218 N. Lee Street, Sulte 312, Alexandria, VA 22314.

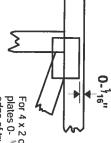


## Symbols

# PLATE LOCATION AND ORIENTATION



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



edge of truss. For 4 x 2 orientation, locate plates 0- 😘 from outside

8

Q

Ç

required direction of slots in connector plates This symbol indicates the

\*Plate location details available in MiTek 20/20 software or upon request.

## **PLATE SIZE**



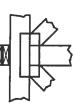
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

## LATERAL BRACING LOCATION



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

## BEARING



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

## Industry Standards:

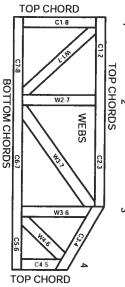
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

DSB-89:

Guide to Good Practice for Handling, **Building Component Safety Information** Connected Wood Trusses Installing & Bracing of Metal Plate

# 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:

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

truss unless otherwise shown. I russes are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI :

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

# **General Safety Notes**

## Damage or Personal Injury Failure to Follow Could Cause Property

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

bracing should be considered. may require bracing, or atternative Tor I

- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. oint and embed fully. Knots and wane at joint

6. Ņ

- 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 camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 11. 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
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or after truss member or plate without prior approval of an engineer
- Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.