

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

RE: 2391382 - HOUSECRAFT - DAWSON RES.

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: House Craft Homes Project Name: Dawson Res. Model: Custom

Lot/Block: N/A

Subdivision: N/A

Address: Parcel # 05-7S-16-04138-112, N/A

No.

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: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Truss Name Date

Wind Code: ASCE 7-10

Wind Speed: 130 mph

T17

T18

Roof Load: 37.0 psf Floor Load: N/A psf

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

T20645079

T20645080 T20645081 T20645082

T20645083

T20645084

T20645085

Seal#

00111	011110 10 0 10	10 0 1.000, 000	
No.	Seal#	Truss Name	Date
1	T20645057	CJ01	7/6/20
2	T20645058	CJ03	7/6/20
3	T20645059	CJ03A	7/6/20
4	T20645060	CJ05	7/6/20
5	T20645061	CJ05A	7/6/20
1234567891012345678901	T20645062 T20645063 T20645064 T20645066 T20645066 T20645069 T20645070 T20645071 T20645072 T20645073 T20645074 T20645075 T20645075	EJ01 EJ02 HJ10 HJ10A T01 T02 T03 T04 T05 T06 T07 T08 T09 T10	7/6/20 7/6/20 7/6/20 7/6/20 7/6/20 7/6/20 7/6/20 7/6/20 7/6/20 7/6/20 7/6/20 7/6/20 7/6/20 7/6/20
21	T20645077	T12	7/6/20
22	T20645078	T13	7/6/20



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-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin

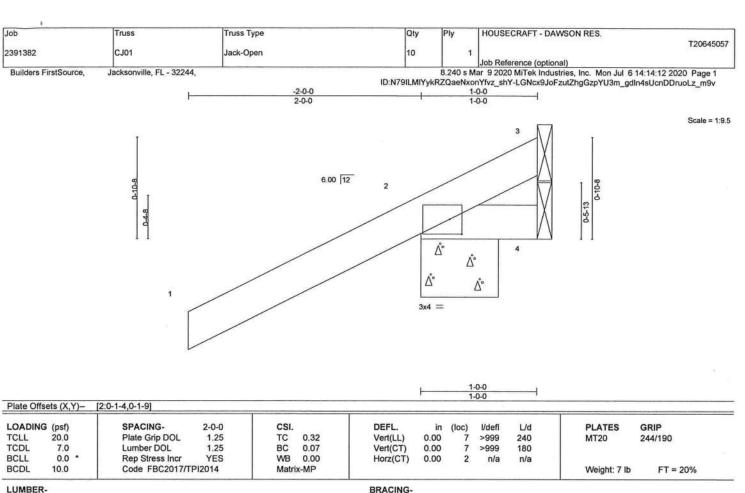
My license renewal date for the state of Florida is February 28, 2021.

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.



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

July 6,2020



TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

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

> (size) 3=Mechanical, 2=0-8-0, 4=Mechanical Max Horz 2=66(LC 12)

Max Uplift 3=-27(LC 1), 2=-162(LC 12), 4=-46(LC 1)

Max Grav 3=25(LC 16), 2=254(LC 1), 4=44(LC 16)

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

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 162 lb uplift at joint 2 and 46 lb uplift at joint 4.



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

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

MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

July 6,2020

MARNING - 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 MITEKS 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of truss systems, see

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



HOUSECRAFT - DAWSON RES. Job Truss Type Qty Truss T20645058 2391382 CJ03 Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:13 2020 Page 1 Jacksonville, FL - 32244, Builders FirstSource. ID:N79ILMIYykRZQaeNxonYfvz\_shY-pSx\_8VKQ0H0kBrFSXW3jczWrNi7JbxsxStaRKoz\_m9u 3-0-0 Scale = 1:14.6 6.00 12 0-4-8 ζ. Δ. Ų. ζ. 3x4 = Plate Offsets (X,Y)-[2:0-0-3,0-0-5] GRIP SPACING-CSI. DEFL L/d PLATES LOADING (psf) 2-0-0 in (loc) I/defl 244/190 Plate Grip DOL TC BC 0.32 -0.00 >999 MT20 TCLL 20.0 1.25 Vert(LL) 4-7 240 0.07 -0.01 >999 180 TCDL 7.0 Lumber DOL 1.25 Vert(CT) WB Rep Stress Incr BCLL 0.0 YES 0.00 Horz(CT) 0.00 n/a n/a Code FBC2017/TPI2014 Weight: 13 lb FT = 20% Matrix-MP BCDL 10.0

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=0-8-0, 4=Mechanical

Max Horz 2=113(LC 12)

Max Uplift 3=-48(LC 12), 2=-126(LC 12) 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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 3 and 126 lb uplift at joint 2.



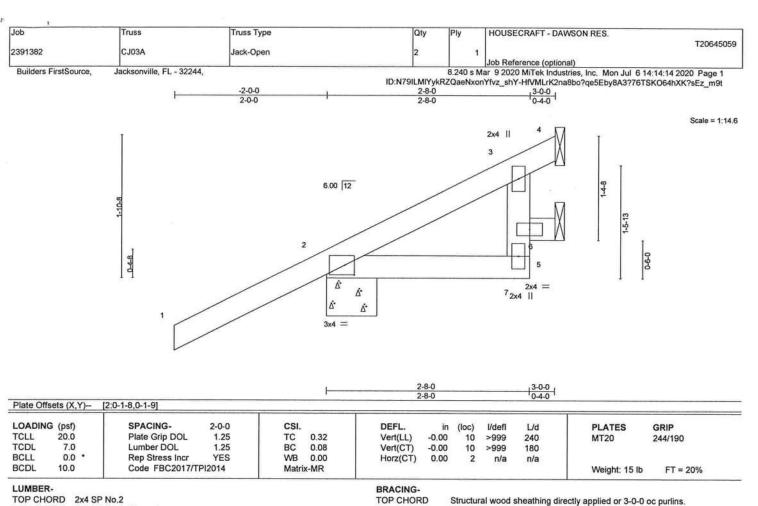
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

July 6,2020

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BOT CHORD

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

REACTIONS.

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

2x4 SP No.2 \*Except\*

3-7: 2x4 SP No.3

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical

Max Horz 2=113(LC 12)

Max Uplift 4=-14(LC 12), 2=-126(LC 12), 5=-27(LC 12) Max Grav 4=25(LC 1), 2=253(LC 1), 5=51(LC 3)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 4, 126 lb uplift at joint 2 and 27 lb uplift at joint 5.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

July 6,2020

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



HOUSECRAFT - DAWSON RES. Qty Truss Type Job Truss T20645060 2391382 CJ05 Jack-Open Job Reference (optional)
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:14 2020 Page 1 Jacksonville, FL - 32244, Builders FirstSource, ID:N79ILMIYykRZQaeNxonYfvz\_shY-HfVMLrK2na8bo?qe5Eby8A3?76R6KO64hXK?sEz\_m9t Scale = 1:19.5 6.00 12 0-4-8 6 Ų. DEFL PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI (loc) I/defl 1/d 244/190 Vert(LL) MT20 TCLL 20.0 Plate Grip DOL 1.25 TC 0.32 0.03 4-7 >999 240 -0.05 >999 180 TCDL 7.0 Lumber DOL 1 25 BC 0.23 Vert(CT) BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Weight: 19 lb FT = 20%Code FBC2017/TPI2014 BCDL 10.0 Matrix-MP BRACING-LUMBER-

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

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=0-8-0, 4=Mechanical

Max Horz 2=162(LC 12)

Max Uplift 3=-98(LC 12), 2=-137(LC 12), 4=-1(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.

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 3, 137 lb uplift at joint 2 and 1 lb uplift at joint 4.



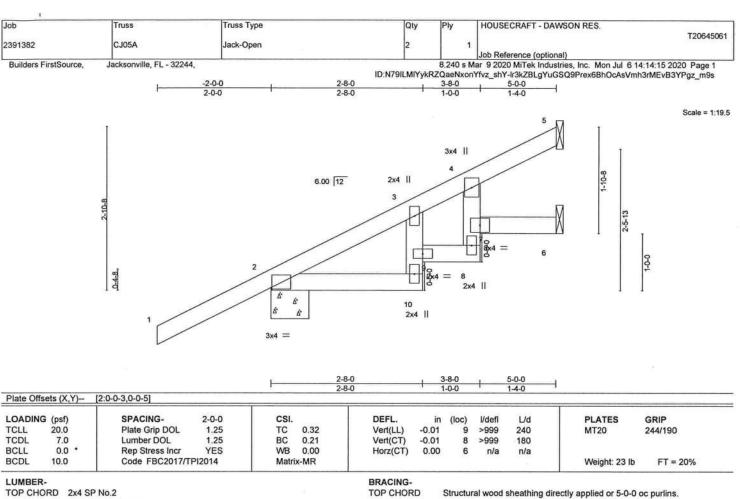
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

July 6,2020

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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





BOT CHORD

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

TOP CHORD 2x4 SP No.2

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

3-10,4-8: 2x4 SP No.3

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

Max Horz 2=162(LC 12)

Max Uplift 5=-61(LC 12), 2=-137(LC 12), 6=-38(LC 12)

Max Grav 5=80(LC 1), 2=313(LC 1), 6=80(LC 1)

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

REACTIONS.

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 5, 137 lb uplift at joint 2 and 38 lb uplift at joint 6.



6904 Parke East Blvd. Tampa FL 33610 Date:

July 6,2020

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ANSITPH Quality Criteria, DSB-89 and BCSI Building Con Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HOUSECRAFT - DAWSON RES. Qty Job Truss Truss Type T20645062 2391382 EJ01 Jack-Partial 25 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:16 2020 Page 1 Jacksonville, FL - 32244. Builders FirstSource, ID:N79ILMIYykRZQaeNxonYfvz\_shY-D1d6mXMJJCOJ2Jz1CedQDb8GCv2GolcN8qp5x7z\_m9r Scale: 1/2"=1" 6.00 12 0-4-8 3x4 = Plate Offsets (X,Y)-[2:0-1-13,0-1-8] PLATES GRIP LOADING (psf) 2-0-0 DEFL L/d SPACING-CSL (loc) I/defl MT20 244/190 TC BC 0.12 4-7 >666 240 TCLL 20.0 Plate Grip DOL 1.25 0.67 Vert(LL) -0.21>393 180 TCDL 7.0 Lumber DOL 1.25 0.51 Vert(CT) WB BCLL 0.0 Rep Stress Incr YES 0.00 Horz(CT) 0.01 n/a n/a Weight: 26 lb FT = 20% Code FBC2017/TPI2014 BCDL 10.0 Matrix-MS

LUMBER-

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

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.

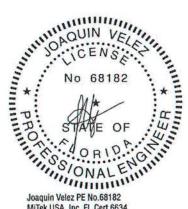
(size) 3=Mechanical, 2=0-8-0, 4=Mechanical

Max Horz 2=204(LC 12)

Max Uplift 3=-130(LC 12), 2=-156(LC 12), 4=-5(LC 12) Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 3, 156 lb uplift at joint 2 and 5 lb uplift at joint 4.

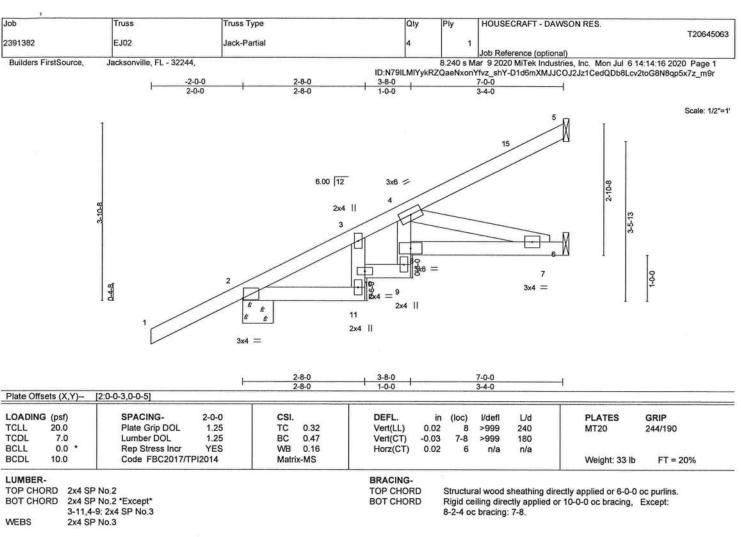


Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

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REACTIONS.

(size) 5=Mechanical, 2=0-8-0, 6=Mechanical

Max Horz 2=204(LC 12)

Max Uplift 5=-60(LC 12), 2=-156(LC 12), 6=-74(LC 12) Max Grav 5=79(LC 1), 2=380(LC 1), 6=162(LC 1)

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

TOP CHORD 2-3=-321/79, 3-4=-378/207

BOT CHORD 2-11=-240/299, 9-10=-329/349, 7-8=-516/522

WEBS 4-7=-540/533

### NOTES-

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- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 5, 156 lb uplift at joint 2 and 74 lb uplift at joint 6.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

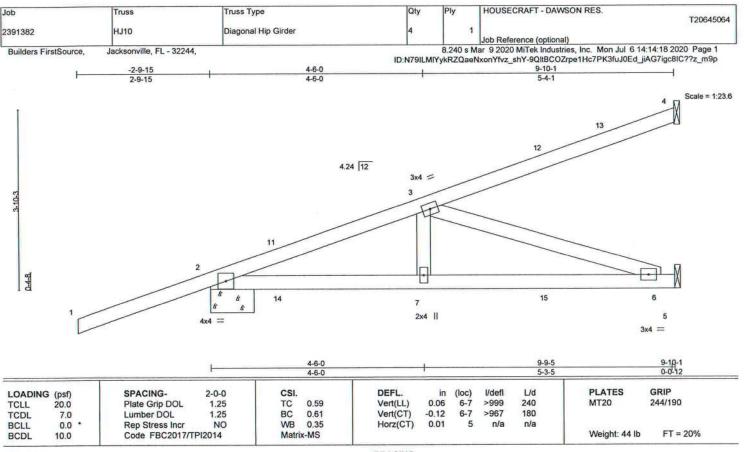
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LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 9-9-15 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical Max Horz 2=226(LC 4)

Max Uplift 4=-123(LC 4), 2=-266(LC 4), 5=-102(LC 8) 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=-628/272

BOT CHORD 2-7=-322/573, 6-7=-322/573

WEBS 3-6=-603/339

### NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 4, 266 lb uplift at joint 2 and 102 lb uplift at joint 5.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 103 lb up at 1-6-1, 86 lb down and 103 lb up at 1-6-1, 26 lb down and 46 lb up at 4-4-0, and 50 lb down and 106 lb up at 7-1-15, and 50 lb down and 106 lb up at 7-1-15, and 50 lb down and 106 lb up at 7-1-15 on top chord, and 36 lb down and 74 lb up at 1-6-1, 36 lb down and 74 lb up at 1-6-1, 28 lb down and 2 lb up at 4-4-0, 28 lb down and 2 lb up at 4-4-0, and 44 lb down and 15 lb up at 7-1-15 on top the down and 15 lb up at 7-1-15 on top the design/selection of such connection device(s) is the responsibility of others.
- 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, 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)



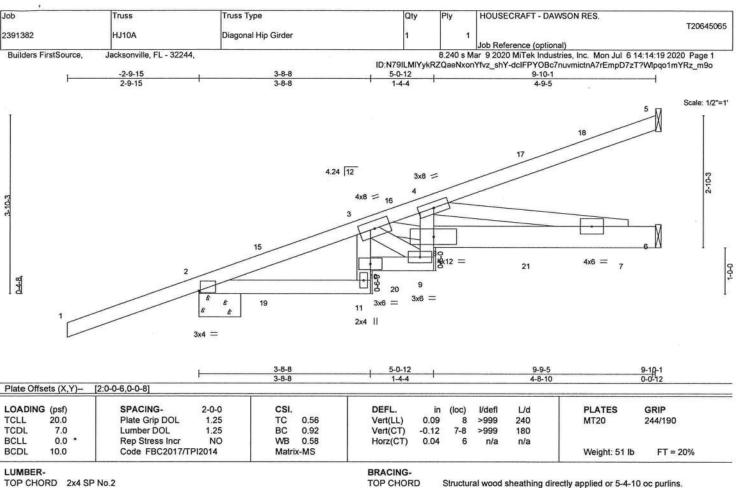
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

July 6,2020

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 properly 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





BOT CHORD

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

**BOT CHORD** 

2x4 SP No.2 \*Except\*

3-11,4-9: 2x4 SP No.3, 6-8: 2x6 SP No.2

WEBS 2x4 SP No 3

REACTIONS.

(size) 5=Mechanical, 2=0-10-15, 6=Mechanical

Max Horz 2=226(LC 4)

Max Uplift 5=-81(LC 8), 2=-304(LC 4), 6=-173(LC 8) Max Grav 5=122(LC 1), 2=491(LC 1), 6=311(LC 1)

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

2-3=-585/237, 3-4=-1169/678 TOP CHORD

**BOT CHORD** 2-11=-319/515, 9-10=-493/771, 8-9=-228/352, 4-8=-206/374, 7-8=-915/1385

3-9=-421/249, 3-8=-467/705, 4-7=-1404/928 WEBS

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 5, 304 lb uplift at joint 2 and 173 lb uplift at joint 6.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 103 lb up at 1-6-1, 86 lb down and 103 lb up at 1-6-1, 12 lb down and 12 lb up at 4-4-0, 12 lb down and 12 lb up at 4-4-0, and 42 lb down and 65 lb up at 7-1-15, and 42 lb down and 65 lb up at 7-1-15 on top chord, and 36 lb down and 74 lb up at 1-6-1, 36 lb down and 74 lb up at 1-6-1, 47 lb down and 37 lb up at 4-4-0, 47 lb down and 37 lb up at 4-4-0, and 52 lb down and 56 lb up at 7-1-15, and 52 lb down and 56 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-5=-54, 11-12=-20, 9-10=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 15=50(F=25, B=25) 17=-25(F=-12, B=-12) 19=70(F=35, B=35) 20=-38(F=-19, B=-19) 21=-104(F=-52, B=-52)

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Daguin Velez PE No.68182

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

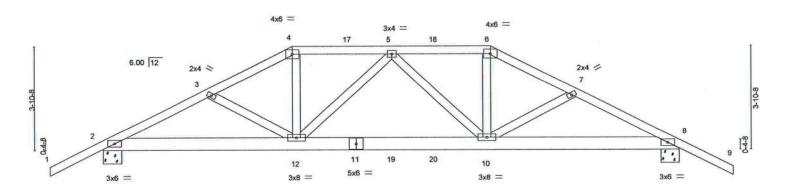
July 6,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE U.S.E. 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 fruss 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 ANS/TPH1 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	HOUSECRAFT - D	AWSON RES.	
								T20645066
2391382	T01	Hip Girder		1	1			
						Job Reference (option	onal)	
Builders FirstSource.	Jacksonville, FL - 32244,				8.240 s M	lar 9 2020 MiTek Indu	istries, Inc. Mon Jul 6 14	14:20 2020 Page 1
	Committee of the control of the cont			ID:N79ILMIYykRZ0	QaeNxonYfvz	shY-6psdcuPpNQvl	WWHoRUIMORJ0SWM11	k1Kz3SnJ4uz m9n
-2-0-0	3-11-15	7-0-0	10-8-0	14-4-0	CONTRACTOR OF STREET	17-4-1	21-4-0	23-4-0
2-0-0	3-11-15	3-0-1	3-8-0	3-8-0		3-0-1	3-11-15	2-0-0

Scale = 1:41.3



7-0-0 7-0-0					14-4-0 7-4-0				21-4-0 7-0-0		
LOADING (psf) TCLL 20.0 TCDL 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.40 0.71	DEFL. Vert(LL) Vert(CT)	in 0.15 -0.23 0.06		l/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 10.0	* Rep Stress Incr Code FBC2017/TF	NO PI2014	WB Matrix	0.34 -MS	Horz(CT)	0.06	٥	n/a	n/a	Weight: 124 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 2x6 SP No.2

BOT CHORD 2x4 SP No.3 WEBS

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

Max Horz 2=95(LC 8)

Max Uplift 2=-785(LC 8), 8=-798(LC 9) Max Grav 2=1561(LC 1), 8=1588(LC 1)

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

2-3=-2889/1446, 3-4=-2716/1366, 4-5=-2438/1270, 5-6=-2490/1293, 6-7=-2775/1395, TOP CHORD

7-8=-2949/1475

2-12=-1281/2548, 10-12=-1331/2699, 8-10=-1213/2601

4-12=-367/886, 5-12=-423/338, 5-10=-338/260, 6-10=-314/839 WEBS

### NOTES-

BOT CHORD

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 785 lb uplift at joint 2 and 798 lb uplift at
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 130 lb up at 7-0-0, 106 lb down and 130 lb up at 9-0-12, 106 lb down and 119 lb up at 10-8-0, and 106 lb down and 130 lb up at 12-3-4, and 227 lb down and 253 lb up at 14-4-0 on top chord, and 294 lb down and 155 lb up at 7-0-0, 85 lb down and 25 lb up at 9-0-12, 85 lb down and 25 lb up at 10-8-0, and 85 lb down and 25 lb up at 12-3-4, and 294 lb down and 155 lb up at 14-3-4 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, 4-6=-54, 6-9=-54, 2-8=-20

Concentrated Loads (lb)

Vert: 4=-106(B) 6=-180(B) 11=-61(B) 12=-284(B) 5=-106(B) 10=-284(B) 17=-106(B) 18=-106(B) 19=-61(B) 20=-61(B)



Structural wood sheathing directly applied or 3-3-13 oc purlins.

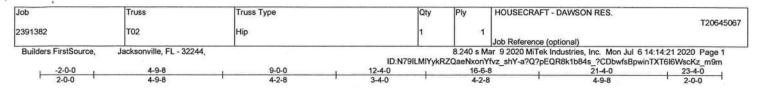
Rigid ceiling directly applied or 6-4-14 oc bracing.

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

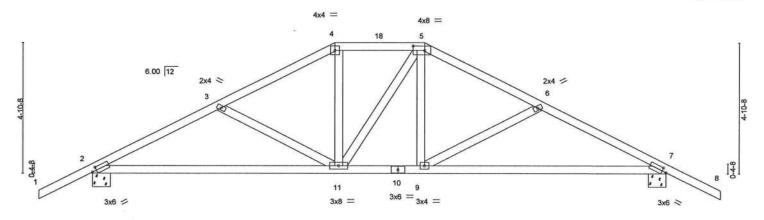
July 6,2020

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





Scale = 1:41.3



	9-0-0									21-4-0			
Plate Offse	ets (X,Y)		9-0-0 0-2-0], [7:0-1-1	15,0-1-81		3-4-0				9-0-0			
LOADING	(ncf)	SPACING-	2-0-0	CSI.		DEFL.	in.	(100)	Ud-0	1.4	DIATES	CDID	
TCLL	20.0	Plate Grip DOL	1.25	TC TC	0.42	Vert(LL)	in -0.15	(loc) 9-17	I/defl >999	L/d 240	PLATES MT20	GRIP 244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.31	9-17	>815	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.04	7	n/a	n/a			
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS	11.000.000.000.000.000.000.000					Weight: 108 lb	FT = 20%	

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-8-0, 7=0-8-0 Max Horz 2=116(LC 12)

Max Uplift 2=-368(LC 12), 7=-368(LC 13)

Max Grav 2=897(LC 1), 7=897(LC 1)

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

TOP CHORD

2-3=-1326/717, 3-4=-1061/569, 4-5=-902/558, 5-6=-1060/568, 6-7=-1325/717

**BOT CHORD** 

2-11=-491/1160, 9-11=-269/901, 7-9=-516/1160

WEBS

3-11=-303/283, 4-11=-93/306, 5-9=-101/306, 6-9=-304/283

### 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=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp. C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 2 and 368 lb uplift at joint 7.



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

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

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

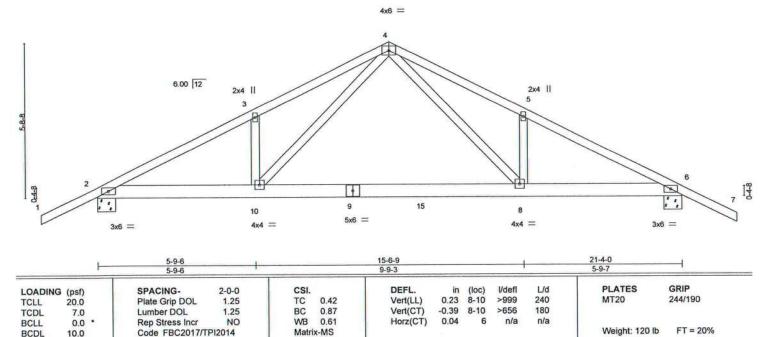
July 6,2020

MARNING - 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 MTek® connectors. This design is based only upon parameters and properly discovered by the 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 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/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 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	HOUSECRAFT - I	DAWSON RES.	T20645068
2391382	тоз	Common	13	1			120043000
					Job Reference (opt	tional)	
Builders FirstSource,	Jacksonville, FL - 32244,		ID:N79ILMIYykRZO			dustries, Inc. Mon Jul 6 9SmERBZvkqTsOMbK?0	
-2-0-0	5-9-6	10-8-0		15-6-9		21-4-0	23-4-0
2-0-0	5-9-6	4-10-9	4	-10-10		5-9-7	2-0-0

Scale = 1:40.6



BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

REACTIONS.

2=0-8-0, 6=0-8-0 (size) Max Horz 2=-133(LC 13)

Max Uplift 2=-500(LC 12), 6=-500(LC 13) Max Grav 2=1190(LC 1), 6=1190(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2180/1106, 3-4=-2177/1259, 4-5=-2177/1259, 5-6=-2180/1107 2-10=-823/1894, 8-10=-422/1143, 6-8=-847/1894

TOP CHORD **BOT CHORD** 

WEBS

4-8=-628/1119, 5-8=-269/301, 4-10=-628/1119, 3-10=-269/301

### NOTES-

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

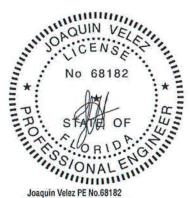
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 500 lb uplift at joint 2 and 500 lb uplift at joint 6.
- 6) 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, 2-10=-20, 8-10=-80(F=-60), 6-8=-20



Structural wood sheathing directly applied or 3-8-0 oc purlins.

Rigid ceiling directly applied or 7-10-1 oc bracing.

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

July 6,2020

MARNING - 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 MiTeke 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 properly 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 20501



Job Truss Truss Type HOUSECRAFT - DAWSON RES. Qty T20645069 T04 2391382 Common Girder 2 Job Reference (optional) Builders FirstSource Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:24 2020 Page 1 ID:N79ILMIYykRZQaeNxonYfvz\_shY-\_a68SGSKQfPA?XbZgKmIYHUaC8mCgk0Y\_4IXDfz\_m9j -2-0-0 2-0-0 10-8-0 15-6-10 21-4-0 5-9-6 4-10-10 4-10-10 Scale = 1:37.4 5x6 || 6.00 12 3x8 = 3x8 < 5 3 04-8 8 16 15 9 5x12 = 3x8 || 10x12 = 3x8 || 21-4-0 5-9-6 4-10-10 4-10-10 [2:0-2-12,0-3-0], [6:0-2-12,0-3-0], [7:0-5-8,0-1-8], [8:0-6-0,0-6-0], [9:0-5-8,0-1-8] LOADING (psf) SPACING-DEFL. (loc) l/def PLATES TCLL 20.0 Plate Grip DOL 1.25 0.92 Vert(LL) 0.22 8-9 >999 240 244/190 TC MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.57 Vert(CT) -0.348-9 >750 180 BCLL 0.0 Rep Stress Incr NO WB 0.80 Horz(CT) 0.07 BCDL 10.0 Code FBC2017/TPI2014 Matrix-MS Weight: 269 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 2x8 SP 2400F 2.0E **BOT CHORD** 

WEBS 2x4 SP No.3 \*Except\*

4-8: 2x4 SP No.2

REACTIONS.

(size) 6=0-8-0, 2=0-8-0 Max Horz 2=154(LC 27)

Max Uplift 6=-2601(LC 9), 2=-2255(LC 8) Max Grav 6=6307(LC 1), 2=4990(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-10822/4867, 3-4=-8322/3639, 4-5=-8339/3638, 5-6=-11948/4963 TOP CHORD

2-9=-4374/9625, 8-9=-4374/9625, 7-8=-4357/10663, 6-7=-4357/10663 BOT CHORD

WEBS

4-8=-3091/7126, 5-8=-3763/1536, 5-7=-1147/3201, 3-8=-2567/1429, 3-9=-1074/2145

### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2601 lb uplift at joint 6 and 2255 lb uplift
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2504 lb down and 1355 lb up at 7-1-9, 1180 lb down and 562 lb up at 9-0-12, 1185 lb down and 483 lb up at 11-0-12, 1185 lb down and 479 lb up at 13-0-12, 1185 lb down and 474 lb up at 15-0-12, and 1185 lb down and 471 lb up at 17-0-12, and 1185 lb down and 471 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 2-6=-20

Continued on page 2

No 68182

STATE OF

STATE OF

No 68182

Structural wood sheathing directly applied or 2-6-5 oc purlins.

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

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

July 6,2020

MARNING - 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 MTek® 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 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 uccliague 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/TPI 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	HOUSECRAFT - DAWSON RES.
2391382	T04	Common Girder	1	2	Job Reference (optional)

Builders FirstSource,

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:24 2020 Page 2 ID:N79ILMIYykRZQaeNxonYfvz\_shY\_a68SGSKQfPA?XbZgKmIYHUaC8mCgk0Y\_4IXDfz\_m9j

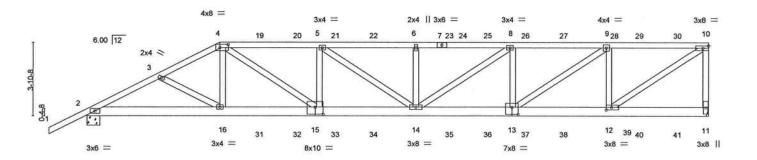
LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 14=-2504(F) 15=-1180(F) 16=-1185(F) 17=-1185(F) 18=-1185(F) 19=-1185(F) 20=-1185(F)



Job	b Truss		Truss Type		Qty	Ply	HOUSECRAFT - DAWSON RE	HOUSECRAFT - DAWSON RES.		
2391382	T05		Half Hip Girder		1				T20645070	
	100					4	Job Reference (optional)			
Builders FirstSource	, Jackso	nville, FL - 32244,	*	10.11.2	All controls of the controls of	8.240 s	Mar 9 2020 MiTek Industries, Inc.	Mon Jul 6 14:14:28 :	2020 Page 1	
					ID:N79ILM	<b>IYykRZQa</b>	eNxonYfvz_shY-tLLfHdVqUuvcU9u	KvArEj7eNBI7FcY68	vijkMQz m9f	
-2-0-0	3-10-15	7-0-0	12-2-10	17-3-9	1	22-4-7	27-5-6	32-8-0	<u> </u>	
2-0-0	3-10-15	3-1-1	5-2-10	5-0-14	10	5-0-14	5-0-14	5-2-10		

Scale = 1:58.4



	1	7-0-0	12-2-	10	17-3-	9 ,	22-4-	-7	i i	27-5-6	32-8-0	) ,
		7-0-0		5-2-10		5-0-14		5-0-14		5-0-14	5-2-10	)
Plate Offse	ts (X,Y)-	[4:0-5-4,0-2-0], [12:0-3-8,	0-1-8], [13:0-4-	0,0-4-8], [15	:0-5-0,0-4-8]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.26	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.36	14-15	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS					13-2/2/30	Weight: 411 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x6 SP No.2

WEBS 2x4 SP No.3

> (size) 11=Mechanical, 2=0-8-0

Max Horz 2=213(LC 8)

Max Uplift 11=-1335(LC 5), 2=-1214(LC 8) Max Grav 11=2524(LC 1), 2=2386(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-4701/2396, 3-4=-4544/2329, 4-5=-5593/2923, 5-6=-5975/3142, 6-8=-5975/3142,

8-9=-5194/2745, 9-10=-3223/1705, 10-11=-2407/1324

BOT CHORD 2-16=-2247/4165, 15-16=-2130/4065, 14-15=-2960/5644, 13-14=-2738/5182,

12-13=-1705/3223

4-16=-169/652, 4-15=-1061/1906, 5-15=-839/605, 5-14=-244/443, 6-14=-531/421,

8-14=-556/963, 8-13=-1087/707, 9-13=-1260/2388, 9-12=-1931/1176, 10-12=-2037/3858

### NOTES-

WEBS

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
  - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
  - Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1335 lb uplift at joint 11 and 1214 lb uplift at joint 2.



Structural wood sheathing directly applied or 4-9-15 oc purlins,

Rigid ceiling directly applied or 9-4-8 oc bracing.

except end verticals.

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

July 6,2020

Continued on page 2

MARNING - 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 MTek® connectors. This design is based only upon parameters and properly demonstrate the connectors of the second parameters and properly 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 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP1 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	HOUSECRAFT - DAWSON RES. T20645070
2391382	T05	Half Hip Girder	1	2	Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:28 2020 Page 2 ID:N79ILMIYykRZQaeNxonYfvz\_shY-tLLfHdVqUuvcU9uKvArEj7eNBi7FcY68vijkMQz\_m9f

### NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 130 lb up at 7-0-0, 106 lb down and 130 lb up at 9-0-12, 106 lb down and 130 lb up at 11-0-12, 106 lb down and 130 lb up at 15-0-12, 106 lb down and 130 lb up at 15-0-12, 106 lb down and 130 lb up at 17-0-12, 106 lb down and 130 lb up at 12-0-12, 106 lb down and 130 lb up at 23-0-12, 106 lb down and 130 lb up at 25-0-12, 106 lb down and 130 lb up at 25-0-12, 106 lb down and 130 lb up at 25-0-12, 106 lb down and 130 lb up at 25-0-12, and 106 lb down and 130 lb up at 31-0-12 on top chord, and 294 lb down and 155 lb up at 7-0-0, 85 lb down and 25 lb up at 9-0-12, 85 lb down and 25 lb up at 9-0-12, 85 lb down and 25 lb up at 15-0-12, 85 lb down and 25 lb up at 15-0-12, 85 lb down and 25 lb up at 15-0-12, 85 lb down and 25 lb up at 15-0-12, 85 lb down and 25 lb up at 27-0-12, and 85 lb down and 25 l

### 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

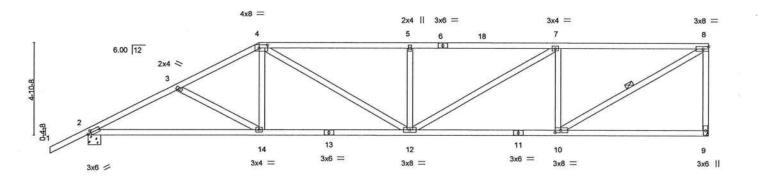
Concentrated Loads (lb)

Vert: 4=-106(B) 16=-284(B) 6=-106(B) 14=-61(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-106(B) 23=-106(B) 25=-106(B) 25=-106(



Job	Truss		Truss Type	Qty	Ply	HOUSECRAFT - DAWSON RES.	
2391382	T06		Half Hip	1	12	1	T20645071
						Job Reference (optional)	
Builders FirstSource,	Jacksonville	, FL - 32244,			8.240 s	Mar 9 2020 MiTek Industries, Inc. Mor	Jul 6 14:14:29 2020 Page 1
				ID:N79ILMIYykRZ		Yfvz shY-LXv1VzWSFB1T6JTXTtMTFL	
-2-0-0	4-9-8	9-0-0	16-11-4		24-8-1	12 , 32	-8-0
2-0-0	4-9-8	4-2-8	7-11-4		7-9-8	3 7-1	11-4

Scale = 1:58.4



	9-0-0			16-11-4 24-8-12					32-8-0				
	9-0-0				7-11-4	7.00		7-9-8		12	7-11-4		
Plate Offs	sets (X,Y)-	[2:0-1-15,0-1-8], [4:0-5-4,	0-2-0], [10:0-3	-8,0-1-8]									
LOADING	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	0.98	Vert(LL)	0.17	12	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.32	14-17	>999	180	20020E-27-729		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.07	9	n/a	n/a			
BCDL	10.0	Code FBC2017/T	PI2014	Matri	k-MS						Weight: 173 lb	FT = 20%	

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2

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

REACTIONS.

(size) 9=Mechanical, 2=0-8-0

Max Horz 2=261(LC 12)

Max Uplift 9=-542(LC 9), 2=-566(LC 12) Max Grav 9=1200(LC 1), 2=1315(LC 1)

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

TOP CHORD 2-3=-2237/1106, 3-4=-1992/975, 4-5=-2204/1129, 5-7=-2204/1129, 7-8=-1639/819,

8-9=-1129/613

2-14=-1151/1958, 12-14=-928/1746, 10-12=-819/1639

**BOT CHORD** 3-14=-250/254, 4-14=-65/405, 4-12=-348/627, 5-12=-451/342, 7-12=-410/655, WEBS

7-10=-778/526, 8-10=-931/1862

### 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=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 542 lb uplift at joint 9 and 566 lb uplift at joint 2.



Structural wood sheathing directly applied, except end verticals.

8-10

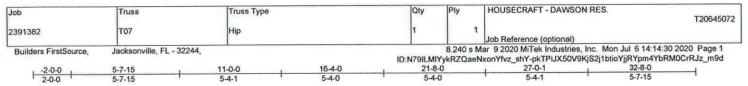
Rigid ceiling directly applied or 5-6-2 oc bracing.

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

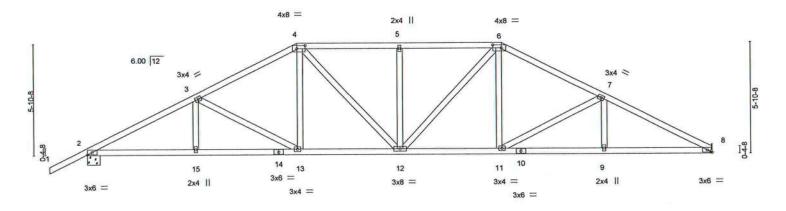
July 6,2020

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Scale = 1:58.2



		5-7-15	11-0-0	16-4-0	21-8-0	27-0-1	32-8-0	
		5-7-15	5-4-1	5-4-0	5-4-0	5-4-1	5-7-15	
Plate Offs	ets (X,Y)-	[4:0-5-4,0-2-0], [6:0-5-4,0	)-2-0], [8:0-2-15,	Edge]				
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defi L/d	PLATES GRIP	_
TCLL	20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL) -0.12 12	>999 240	MT20 244/19	0
TCDL	7.0	Lumber DOL	1.25	BC 0.56	Vert(CT) -0.23 11-12	>999 180		
BCLL	0.0 *	Rep Stress Incr Code FBC2017/T	YES PI2014	WB 0.35 Matrix-MS	Horz(CT) 0.09 8	n/a n/a	Weight: 175 lb FT =	20%

LUMBER-

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

EBS 2x4 SP No.3

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 3-7-12 oc purlins.

Rigid ceiling directly applied or 5-11-2 oc bracing.

REACTIONS.

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

Max Horz 2=158(LC 12)

Max Uplift 8=-463(LC 13), 2=-533(LC 12) Max Grav 8=1205(LC 1), 2=1320(LC 1)

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

TOP CHORD 2-3=-2266/1147, 3-4=-1840/992, 4-5=-1791/1046, 5-6=-1791/1046, 6-7=-1847/998,

7-8=-2299/1177

BOT CHORD 2-15=-938/1973, 13-15=-938/1973, 12-13=-650/1590, 11-12=-654/1596, 9-11=-968/2007,

8-9=-968/2007

3-13=-446/330, 4-13=-125/373, 4-12=-200/399, 5-12=-325/246, 6-12=-197/393,

6-11=-136/376, 7-11=-479/359

### 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=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 463 lb uplift at joint 8 and 533 lb uplift at joint 2.



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

July 6,2020

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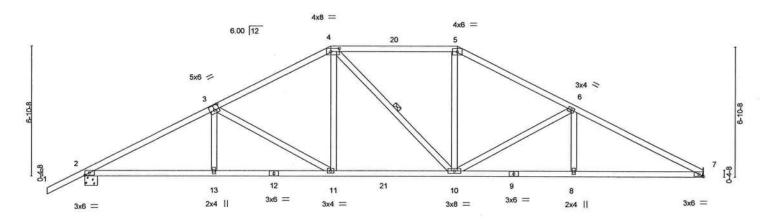
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Qty Job Truss Truss Type Ply HOUSECRAFT - DAWSON RES T20645073 T08 2391382 Hip 1 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:31 2020 Page 1  $ID: N79 ILMIYykRZQaeNxonYfvz\_shY-Hw1nwfYjnpHBLcdvalOxKmGqWy7apyTabgxOzlz\_m9c$ 2-0-0 6-10-2 13-0-0 19-8-0 25-9-14 6-1-14 6-8-0

Scale = 1:58.6



	1	6-10-2		13-0-0		19-8-0		25-9	THE RESERVE OF THE PARTY OF THE	32-8-0	
		6-10-2		6-1-14		6-8-0		6-1-	-14	6-10-2	
Plate Off	sets (X,Y)	[3:0-3-0,0-3-0], [4:0-5-4,0	)-2-0], [7:0-2-15	,Edge]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.12 10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.24 10-11	>999	180	ST007070	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.09 7	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS	10.000000000000000000000000000000000000				Weight: 167 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.3

7=Mechanical, 2=0-8-0 (size)

Max Horz 2=179(LC 12)

Max Uplift 7=-459(LC 13), 2=-529(LC 12) Max Grav 7=1205(LC 1), 2=1320(LC 1)

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

REACTIONS.

2-3=-2224/1143, 3-4=-1701/950, 4-5=-1458/919, 5-6=-1704/953, 6-7=-2248/1164

**BOT CHORD** WEBS

2-13=-919/1926, 11-13=-918/1927, 10-11=-568/1456, 8-10=-940/1950, 7-8=-940/1950 3-13=0/267, 3-11=-550/404, 4-11=-156/448, 5-10=-163/450, 6-10=-575/429, 6-8=0/270

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 459 lb uplift at joint 7 and 529 lb uplift at joint 2.



Structural wood sheathing directly applied or 3-4-14 oc purlins.

4-10

Rigid ceiling directly applied or 5-10-9 oc bracing.

1 Row at midpt

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

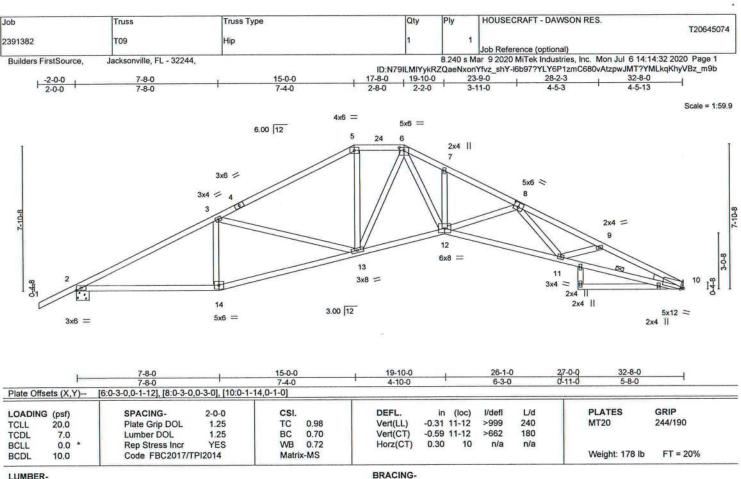
July 6,2020

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ANSITPH Quality Criteria, DSB-89 and BCSI Building Compo Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

5-9-0 oc bracing: 10-11

Rigid ceiling directly applied or 6-0-3 oc bracing. Except:

LUMBER-

TOP CHORD 2x4 SP No.2

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

10-12: 2x4 SP M 31, 15-16: 2x4 SP No.3

WEBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

REACTIONS.

(size) 2=0-8-0, 10=Mechanical

Max Horz 2=200(LC 12)

Max Uplift 2=-524(LC 12), 10=-454(LC 13) Max Grav 2=1320(LC 1), 10=1205(LC 1)

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

2-3=-2192/1155, 3-5=-2033/1072, 5-6=-1741/1042, 6-7=-3087/1676, 7-8=-3121/1585, TOP CHORD

8-9=-3690/1888, 9-10=-3855/2024

2-14=-923/1896, 13-14=-946/1961, 12-13=-730/1990, 11-12=-1543/3303, **BOT CHORD** 

10-11=-1769/3462

3-14=-323/263, 3-13=-261/290, 5-13=-229/582, 6-13=-523/187, 6-12=-946/1885,

8-12=-499/401, 8-11=-71/288

### 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=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 524 lb uplift at joint 2 and 454 lb uplift at joint 10.

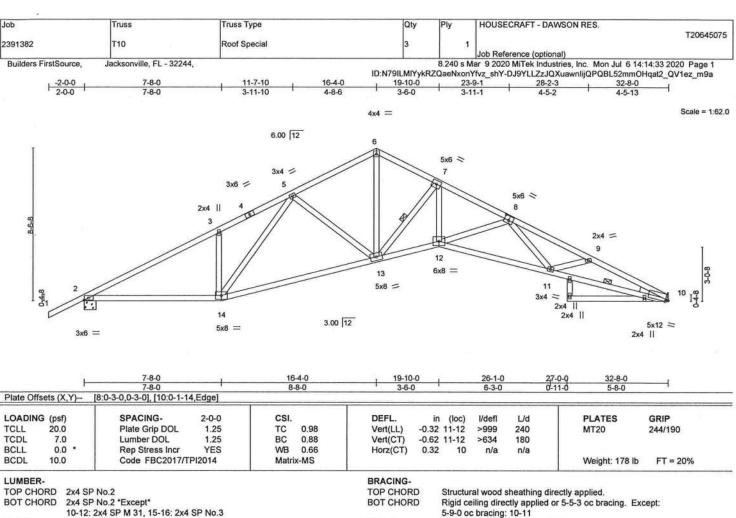


Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

July 6,2020

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





WEBS

1 Row at midpt

10-12: 2x4 SP M 31, 15-16: 2x4 SP No.3

WEBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

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

Max Horz 2=213(LC 12)

Max Uplift 2=-521(LC 12), 10=-451(LC 13) Max Grav 2=1320(LC 1), 10=1205(LC 1)

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

2-3=-2174/1141, 3-5=-2142/1301, 5-6=-1900/1062, 6-7=-1880/1074, 7-8=-3119/1610, TOP CHORD

8-9=-3689/1905, 9-10=-3860/2046 BOT CHORD

2-14=-902/1872, 13-14=-838/1910, 12-13=-1175/2822, 11-12=-1555/3290, 10-11=-1790/3468

3-14=-336/351, 5-13=-302/309, 6-13=-762/1414, 7-13=-1725/904, 7-12=-790/1720,

8-12=-487/389, 8-11=-77/302

### 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=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 521 lb uplift at joint 2 and 451 lb uplift at joint 10.



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

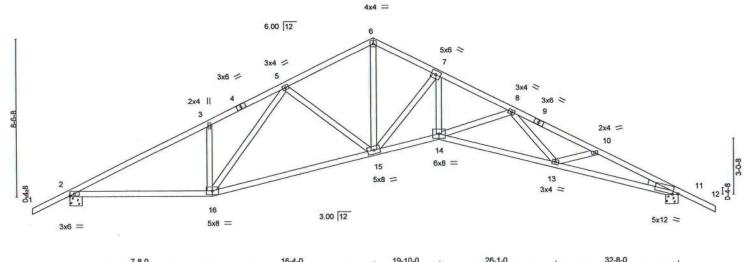
July 6,2020

MARNING - 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 uccliagse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 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	HOUSECRAFT - DAWSON R	ES.	7000 1507
2391382	T11	Roof Special		1	1			T2064507
2331302	***	reor openia			- 27	Job Reference (optional)		
Builders FirstSource,	Jacksonville, FL - 32244,	•		ID-N79II MIYVI		ar 9 2020 MiTek Industries, Inc Yfvz shY-hViwYhab4kflC4MUG		
2-0-0	7-8-0	11-7-10	16-4-0	, 19-10-0	23-9-		32-8-0	34-8-0
2-0-0	7-8-0	3-11-10	4-8-6	3-6-0	3-11-	0 4-5-3	4-5-13	2-0-0

Scale = 1:59.7



1	7-0-0	1	10-4-0		13-10-0			20-1-0		02.0.0	
	7-8-0		8-8-0		3-6-0	18		6-3-0		6-7-0	
sets (X,Y)-	[11:0-3-5,0-1-2]										
G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.30	13-14	>999	240	MT20	244/190
7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.57	13-14	>684	180	1111257314	
0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.30	11	n/a	n/a		
10.0	Code FBC2017/T	PI2014	Matrix	K-MS						Weight: 173 lb	FT = 20%
	3 (psf) 20.0 7.0 0.0	7-8-0 sets (X,Y)— [11:0-3-5,0-1-2]  G (psf) SPACING- 20.0 Plate Grip DOL 7.0 Lumber DOL 0.0 Rep Stress Incr	7-8-0 sets (X,Y)— [11:0-3-5,0-1-2]  3 (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.25 7.0 Lumber DOL 1.25 0.0 Rep Stress Incr YES	7-8-0 8-8-0  sets (X,Y)— [11:0-3-5,0-1-2]  3 (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 7.0 Lumber DOL 1.25 BC 0.0 Rep Stress Incr YES WB	7-8-0 8-8-0  sets (X,Y)— [11:0-3-5,0-1-2]  3 (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.65 7.0 Lumber DOL 1.25 BC 0.88 0.0 * Rep Stress Incr YES WB 1.00	7-8-0 8-8-0 3-6-0  sets (X,Y)— [11:0-3-5,0-1-2]  3 (psf) SPACING- 2-0-0 CSI. DEFL. 20.0 Plate Grip DOL 1.25 TC 0.65 Vert(LL) 7.0 Lumber DOL 1.25 BC 0.88 Vert(CT) 0.0 Rep Stress Incr YES WB 1.00 Horz(CT)	7-8-0 8-8-0 3-6-0  sets (X,Y)— [11:0-3-5,0-1-2]  3 (psf) SPACING- 2-0-0 CSI. DEFL. in 20.0 Plate Grip DOL 1.25 TC 0.65 Vert(LL) -0.30  7.0 Lumber DOL 1.25 BC 0.88 Vert(CT) -0.57  0.0 Rep Stress Incr YES WB 1.00 Horz(CT) 0.30	7-8-0 8-8-0 3-6-0  sets (X,Y)— [11:0-3-5,0-1-2]  3 (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.25 TC 0.65 Vert(LL) -0.30 13-14 7.0 Lumber DOL 1.25 BC 0.88 Vert(CT) -0.57 13-14 0.0 Rep Stress Incr YES WB 1.00 Horz(CT) 0.30 11	7-8-0 8-8-0 3-6-0 6-3-0  sets (X,Y)— [11:0-3-5,0-1-2]  3 (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl 20.0 Plate Grip DOL 1.25 TC 0.65 Vert(LL) -0.30 13-14 >999  7.0 Lumber DOL 1.25 BC 0.88 Vert(CT) -0.57 13-14 >684  0.0 * Rep Stress Incr YES WB 1.00 Horz(CT) 0.30 11 n/a	7-8-0 8-8-0 3-6-0 6-3-0  sets (X,Y)— [11:0-3-5,0-1-2]  3 (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d 20.0 Plate Grip DOL 1.25 TC 0.65 Vert(LL) -0.30 13-14 >999 240  7.0 Lumber DOL 1.25 BC 0.88 Vert(CT) -0.57 13-14 >684 180 0.0 * Rep Stress Incr YES WB 1.00 Horz(CT) 0.30 11 n/a n/a	7-8-0 8-8-0 3-6-0 6-3-0 6-7-0  sets (X,Y)— [11:0-3-5,0-1-2]  3 (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES  20.0 Plate Grip DOL 1.25 TC 0.65 Vert(LL) -0.30 13-14 >999 240 MT20  7.0 Lumber DOL 1.25 BC 0.88 Vert(CT) -0.57 13-14 >684 180  0.0 * Rep Stress Incr YES WB 1.00 Horz(CT) 0.30 11 n/a n/a

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

9-12: 2x4 SP M 31

**BOT CHORD** 2x4 SP No.2 \*Except\* 11-14: 2x4 SP M 31

WEBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

(size) 2=0-8-0, 11=0-8-0 REACTIONS.

Max Horz 2=193(LC 12)

Max Uplift 2=-520(LC 12), 11=-520(LC 13) Max Grav 2=1317(LC 1), 11=1317(LC 1)

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

2-3=-2167/1128, 3-5=-2135/1289, 5-6=-1891/1027, 6-7=-1870/1038, 7-8=-3096/1533, TOP CHORD

8-10=-3630/1802, 10-11=-3769/1923

**BOT CHORD** 2-16=-825/1865, 15-16=-761/1902, 14-15=-1056/2802, 13-14=-1423/3254,

11-13=-1622/3372

3-16=-336/351, 5-15=-302/329, 6-15=-731/1405, 7-15=-1707/845, 7-14=-726/1702, WEBS

8-14=-472/377, 8-13=-60/297

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 520 lb uplift at joint 2 and 520 lb uplift at joint 11.



Structural wood sheathing directly applied or 2-9-7 oc purlins.

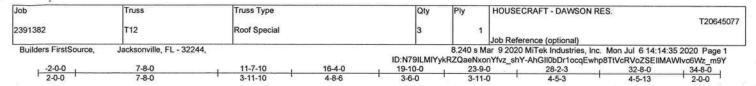
Rigid ceiling directly applied or 5-8-13 oc bracing.

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

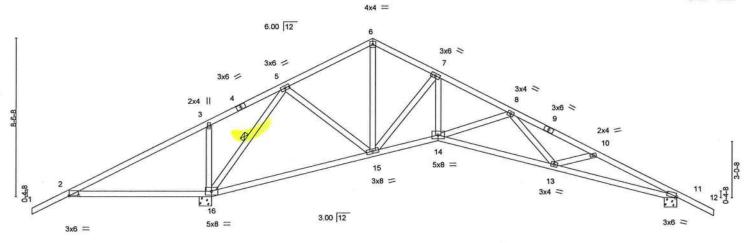
July 6,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTEA® 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 properly 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





Scale = 1:59.7



	1	7-0-0	7 <sub>r</sub> 8-Q	16-4-0	, 19-10-0	26-1	-0	32-8-0		
		7-0-0	d-8-d	8-8-0	3-6-0	6-3	-0	6-7-0		
Plate Off	sets (X,Y)	[2:0-6-0,0-0-4], [11:0-0-	-9,Edge]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/de	efi L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL) -	0.17 13-14 >99	9 240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC 0.79	Vert(CT) -	0.34 15-16 >87	2 180	2007-00-00-00-00-00-00-00-00-00-00-00-00-		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.18 11 n	la n/a			
BCDL	10.0	Code FBC2017	/TPI2014	Matrix-MS	200 PM 100 M 100 PM			Weight: 171 lb	FT = 20%	

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 16=0-8-0, 11=0-8-0

Max Horz 16=193(LC 12) Max Uplift 16=-679(LC 12), 11=-414(LC 13)

Max Grav 16=1720(LC 1), 11=-414(LC 13) Max Grav 16=1720(LC 1), 11=928(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1029/882, 3-5=-833/829, 5-6=-670/287, 6-7=-699/276, 7-8=-1479/462,

8-10=-2163/778, 10-11=-2378/928

BOT CHORD 2-16=-701/1087, 15-16=-107/585, 14-15=-104/1316, 13-14=-453/1810, 11-13=-734/2119

WEBS 3-16=-372/429, 5-16=-1431/906, 5-15=-291/591, 6-15=-134/455, 7-15=-1092/403,

7-14=-250/1005, 8-14=-505/415, 8-13=-132/391, 10-13=-154/274

### 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=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 679 lb uplift at joint 16 and 414 lb uplift at joint 11.



Structural wood sheathing directly applied or 3-1-13 oc purlins.

5-16

Rigid ceiling directly applied or 5-11-12 oc bracing.

1 Row at midpt

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

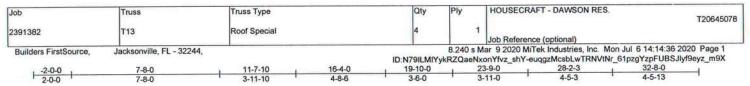
July 6,2020

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

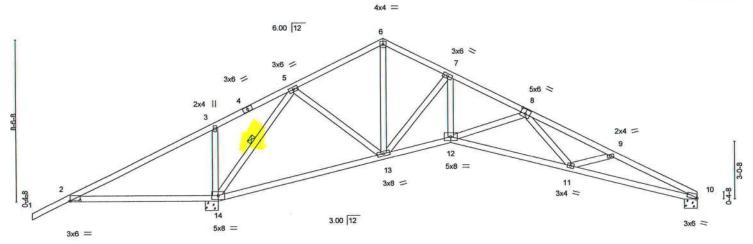
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see 

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





Scale = 1:58.1



1	7-0-0	7 <sub>-</sub> 8-Q	16-4-0	19-10-0	26-1-0	32-8-0	
	7-0-0	0-8-0	8-8-0	3-6-0	6-3-0	6-7-0	
Plate Offsets (X,Y)-	[2:0-6-0,0-0-4], [8:0-3-0,	0-3-0], [10:0-0-9	,Edge]				
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2017/	2-0-0 1.25 1.25 YES	CSI. TC 0.71 BC 0.74 WB 0.65 Matrix-MS	DEFL. in (loc) Vert(LL) -0.17 13-14 Vert(CT) -0.34 13-14 Horz(CT) 0.17 10	l/defl L/d >999 240 >872 180 n/a n/a	A CONTRACTOR OF THE PARTY OF TH	GRIP 244/190 FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** WEBS

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

Rigid ceiling directly applied or 5-11-12 oc bracing. 5-14

1 Row at midpt

REACTIONS.

(size) 14=0-8-0, 10=0-8-0 Max Horz 14=213(LC 12)

Max Uplift 14=-681(LC 12), 10=-344(LC 13) Max Grav 14=1725(LC 1), 10=815(LC 24)

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

TOP CHORD 2-3=-1029/882, 3-5=-833/829, 5-6=-677/309, 6-7=-706/298, 7-8=-1496/516,

8-9=-2222/865, 9-10=-2455/1052

2-14=-701/1087, 13-14=-106/524, 12-13=-198/1331, 11-12=-557/1843, 10-11=-892/2199 **BOT CHORD** WEBS

3-14=-372/430, 5-14=-1437/928, 5-13=-304/594, 6-13=-154/462, 7-13=-1107/465,

7-12=-300/1017, 8-12=-522/428, 8-11=-155/397, 9-11=-179/291

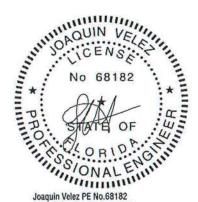
### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 681 lb uplift at joint 14 and 344 lb uplift at joint 10.



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

July 6,2020

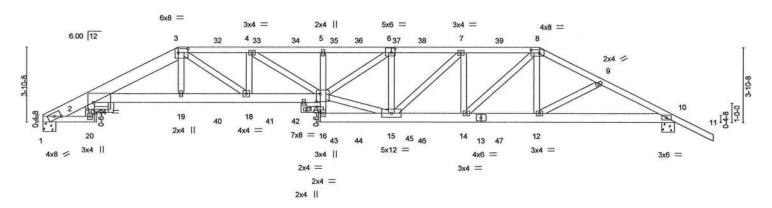
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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



HOUSECRAFT - DAWSON RES. Job Truss Truss Type Qty Ply T20645079 T14 Hip Girder 2391382 2 Job Reference (optional) Builders FirstSource. Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:40 2020 Page 1 ID:N79ILMIYykRZQaeNxonYfvz\_shY-Wf4BpkfMfaQvw?pech22Cf8PqaByQ0gvfZdNnkz\_m9T 18-0-0 21-9-2 3-9-2 32-8-0 3-10-14 3-10-15

Scale = 1:57.4



	8-0 3-8- 8-0 1-0-		0-8-0 -8-0	13-4-0 14-4 2-8-0 1-0		1 21-9			25-8-0 3-10-14	-1	32-8-0 7-0-0	
Plate Offse	ts (X,Y)-	[1:0-4-0,0-1-15], [2:0-3-4, [24:0-2-0.Edge]					-			-4-12], [21:0-		-1-12],
LOADING	(nsf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	0.41	17	>946	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.58	17	>675	180	34000000	
BCLL	0.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.23	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TI	PI2014	Matri	x-MS	245514597-14555567					Weight: 427 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

1-3: 2x8 SP 2400F 2.0E

**BOT CHORD** 2x6 SP No.2 \*Except\*

1-20,5-16: 2x4 SP No.2, 2-17: 2x6 SP M 26, 21-22,23-24: 2x4 SP No.3

WEBS 2x4 SP No.3 \*Except\*

15-17: 2x4 SP No.2

REACTIONS. (size) 1=0-8-0, 10=0-8-0 Max Horz 1=-115(LC 13)

Max Uplift 1=-1243(LC 8), 10=-1296(LC 9)

Max Grav 1=2416(LC 1), 10=2509(LC 1)

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

2-29=-1321/734, 2-3=-6506/3397, 3-4=-7606/4014, 4-5=-8505/4453, 5-6=-8433/4422, 6-7=-6251/3283, 7-8=-5624/2970, 8-9=-4805/2505, 9-10=-4973/2580 TOP CHORD

2-20=-196/390, 2-19=-3076/5964, 18-19=-3110/6032, 17-18=-3897/7606, 5-17=-345/281, BOT CHORD 15-16=-442/864, 14-15=-2852/5624, 12-14=-2112/4293, 10-12=-2200/4409

3-19=-590/1166, 3-18=-1085/1979, 4-18=-828/506, 4-17=-611/1113, 15-17=-2863/5600,

6-17=-1431/2676, 6-15=-2013/1172, 7-15=-480/881, 7-14=-1020/657, 8-14=-1013/1815,

8-12=-168/625

### NOTES-

WEBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

5) Provide adequate drainage to prevent water ponding.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1243 lb uplift at joint 1 and 1296 lb uplift at joint 10.

No 68182

No 68182

No 68182

No 68182

Joaquin Velez PE No.68182

Structural wood sheathing directly applied or 3-11-8 oc purlins.

Rigid ceiling directly applied or 9-6-11 oc bracing. Except:

10-0-0 oc bracing: 16-17

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

July 6,2020

Continued on page 2

MARNING - 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 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 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH 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	HOUSECRAFT - DAWSON RES. T20645079
2391382	T14	Hip Girder	1	2	Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:40 2020 Page 2 ID:N79ILMIYykRZQaeNxonYfvz\_shY-Wf4BpkfMfaQvw?pech22Cf8PqaByQ0gvfZdNnkz\_m9T

### NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 59 lb up at 7-0-0, 33 lb down and 59 lb up at 9-0-12, 33 lb down and 59 lb up at 11-0-12, 33 lb down and 59 lb up at 11-0-12, 106 lb down and 130 lb up at 15-0-12, 106 lb down and 119 lb up at 16-4-0, 106 lb down and 130 lb up at 17-7-4, 106 lb down and 130 lb up at 12-7-4, and 106 lb down and 130 lb up at 23-7-4, and 227 lb down and 253 lb up at 25-8-0 on top chord, and 424 lb down and 295 lb up at 7-0-0, 142 lb down and 94 lb up at 9-0-12, 142 lb down and 94 lb up at 11-0-12, 142 lb down and 94 lb up at 11-0-12, 142 lb down and 95 lb up at 15-0-12, 85 lb down and 25 lb up at 15-0-12, 85 lb down and 25 lb up at 15-0-12, 85 lb down and 25 lb up at 15-0-14, 85 lb down and 25 lb up at 15-0-14, and 85 lb down and 25 lb up at 23-7-4, and 294 lb down and 155 lb up at 25-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 2-28=-54, 2-3=-54, 3-8=-54, 8-11=-54, 1-20=-20, 2-17=-20, 10-16=-20

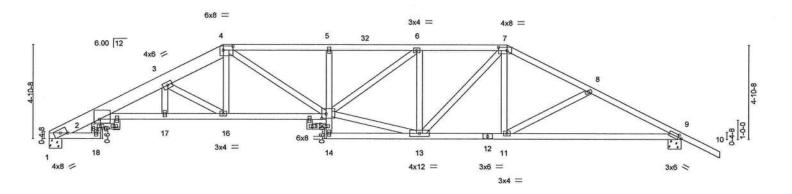
Concentrated Loads (lb)

Vert: 3=-25(F) 8=-180(F) 19=-424(F) 7=-106(F) 14=-61(F) 12=-284(F) 32=-25(F) 33=-25(F) 34=-25(F) 35=-106(F) 36=-106(F) 37=-106(F) 38=-106(F) 39=-106(F) 40=-142(F) 41=-142(F) 42=-142(F) 43=-61(F) 44=-61(F) 45=-61(F) 46=-61(F) 47=-61(F)



Job			Tru	ss		Truss	Туре	2		Qty	Ply		HOUSECRAFT - DAWS	ON RES.	
239138	2		T15			HIP				1		1	Job Reference (optional)		T2064508
Builde	rs FirstSo	urce,	Jacks	onville	e, FL - 32244,				ID:N	J79II MIYVKR		s Ma	ar 9 2020 MiTek Industrie		
16	2-8-0	3-8-0	6-0-0	- n	9-0-0		14-4-0	-1	19-1-14		23-8-0		27-10-8	32-8-0	, 34-8-0
- 1	2-8-0	1-0-0	2-4-0	(i) 10	3-0-0	1	5-4-0	- 1	4-9-14		4-6-2		4-2-8	4.9.8	2.0.0

Scale = 1:57.4



	2-8-0 3-8-		13-4-0	14-4-9	19-1-14	23-8-0	_		32-8-0	
1/1	2-8-0 1-0-	0' 2-4-0 ' 3-0-0	4-4-0	1-0-01	4-9-14	4-6-2			9-0-0	
Plate Off	sets (X,Y)-	[1:0-4-0,0-1-15], [2:0-3-4	,0-2-6], [4:0-6-0,0	-2-8], [7:0-5-4,0-2	-0], [9:0-1-15,0-1-8],	15:0-2-12,0-2-12				
LOADING	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 0.45	Vert(LL)	-0.23 15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.96	Vert(CT)	-0.44 15-16	>898	180	(OVO)	
BCLL	0.0	Rep Stress Incr	YES	WB 0.75	Horz(CT	0.23 9	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix-MS					Weight: 196 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

1-4: 2x8 SP 2400F 2.0E

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

2-18: 2x6 SP No.2, 5-14,19-20,22-23: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

(size) 1=0-8-0, 9=0-8-0

Max Horz 1=-136(LC 17) Max Uplift 1=-456(LC 12), 9=-533(LC 13) Max Grav 1=1204(LC 1), 9=1308(LC 1)

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

TOP CHORD 2-28=-599/401, 2-3=-3129/1529, 3-4=-2471/1247, 4-5=-2678/1400, 5-6=-2645/1386,
6-7=-2064/1140, 7-8=-1963/1011, 8-9=-2226/1153

**BOT CHORD** 2-17=-1315/2970, 16-17=-1315/2970, 15-16=-849/2151, 5-15=-284/220, 11-13=-665/1712, 9-11=-904/1951

> 3-16=-985/557, 4-16=-263/617, 4-15=-346/716, 13-15=-805/1963, 6-15=-340/743, 6-13=-717/381, 7-13=-301/574, 7-11=-80/367, 8-11=-281/272

### 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=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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 2x4 MT20 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 456 lb uplift at joint 1 and 533 lb uplift at joint 9.



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

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

10-0-0 oc bracing: 14-15

MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

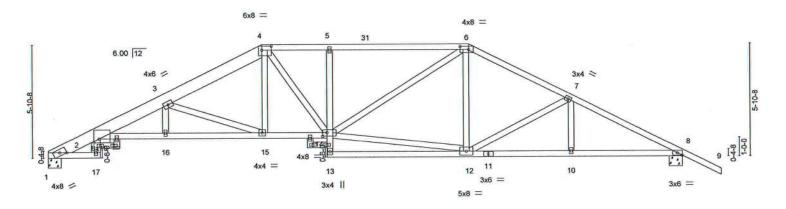
July 6,2020

MARNING - 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 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 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/TP1 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	Q	ty	Ply	HOUSECRAFT - DA	AWSON RES.	
				5950			60			T2064508
2391382		T16		HIP	1		1			
								Job Reference (option	onal)	
Builders FirstS	ource	Jacksonville,	FL - 32244.			1	8.240 s M	ar 9 2020 MiTek Indi	istries, Inc. Mon Jul 6 1	4:14:43 2020 Page 1
		Commence Street	CHOPA CAPONDO DO DOS		ID:N79ILN	<b>MIYykRZ</b>	QaeNxon	Yfvz shY-xElKRlhFy	VoUnSYDHpclpImtTo8G	GdMvLMXr1O2z_m9Q
, 2-8-0	3-8-0	6-0-0	11-0-0	14-4-0	21-8-0	CONTRACTOR CONTRACTOR	i .	26-11-1	32-8-0	, 34-8-0
2-8-0	1.0.0	2-4-0	5-0-0	3-4-0	7-4-0			5-3-1	5-8-15	2-0-0

Scale = 1:57.4



	8-0 3-8-0 8-0 1-0-0		-0-0	13-4-0 14-4	in the second	21-8-0 7-4-0	-		26-11-1 5-3-1		32-8-0 5-8-15	-1
Plate Offse		1:0-4-0,0-1-15], [2:0-3-4				The state of the s	:0-2-8,0-2	[-4]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.20 14	1-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.38 12	2-13	>999	180	4	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.23	8	n/a	n/a	111	
BCDL	10.0	Code FBC2017/	TPI2014	Matri	k-MS						Weight: 204 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

1-4: 2x8 SP 2400F 2.0E

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

2-17: 2x6 SP No.2, 5-13,18-19,21-22: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

(size) 1=0-8-0, 8=0-8-0

Max Horz 1=-158(LC 17)

Max Uplift 1=-453(LC 12), 8=-530(LC 13) Max Grav 1=1204(LC 1), 8=1308(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-27=-599/405, 2-3=-3120/1555, 3-4=-2160/1110, 4-5=-2097/1167, 5-6=-2099/1173,

6-7=-1830/983, 7-8=-2230/1131

**BOT CHORD** 

2-16=-1342/2957, 15-16=-1342/2957, 14-15=-701/1875, 5-14=-360/271, 10-12=-875/1939, 8-10=-875/1939

3-15=-1170/690, 4-15=-222/525, 4-14=-248/460, 12-14=-573/1444, 6-14=-315/693, WEBS

6-12=-49/283, 7-12=-419/323

### 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=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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 2x4 MT20 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 453 lb uplift at joint 1 and 530 lb uplift at joint 8.



Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

10-0-0 oc bracing: 13-14

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

July 6,2020

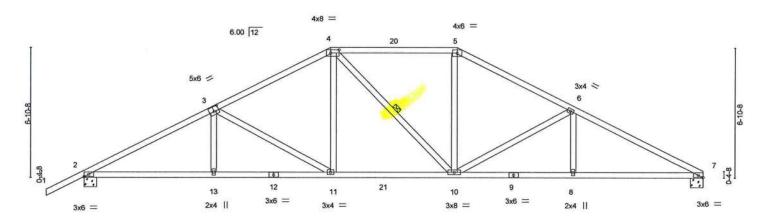
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and 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 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 20801



Job Truss Truss Type Qty HOUSECRAFT - DAWSON RES. T20645082 T17 2391382 Hip Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:44 2020 Page 1 ID:N79ILMIYykRZQaeNxonYfvz\_shY-PQJie5itjowKPc6PrX7\_MVJ3ECZdMrhVaBbawVz\_m9P 2-0-0 6-10-2 13-0-0 19-8-0 25-9-14 32-8-0 6-1-14 6-10-2

Scale = 1:58.6



		6-10-2		13-0-0	i i	19-8-0	1	25-9	-14	32-8-0	- 1
		6-10-2		6-1-14		6-8-0		6-1-	-14	6-10-2	
Plate Off	sets (X,Y)-	[3:0-3-0,0-3-0], [4:0-5-4,0	)-2-0], [7:0-2-1	,Edge]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.12 10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.24 10-11	>999	180	17707-0550	
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.09 7	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS					Weight: 167 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

(size) 7=0-8-0, 2=0-8-0

Max Horz 2=179(LC 12) Max Uplift 7=-459(LC 13), 2=-529(LC 12)

Max Grav 7=1205(LC 1), 2=1320(LC 1)

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

TOP CHORD 2-3=-2224

2-3=-2224/1143, 3-4=-1701/950, 4-5=-1458/919, 5-6=-1704/953, 6-7=-2248/1164

BOT CHORD 2-13=-919

2-13=-919/1926, 11-13=-918/1927, 10-11=-568/1456, 8-10=-940/1950, 7-8=-940/1950

WEBS 3-13=0

3-13=0/267, 3-11=-550/404, 4-11=-156/448, 5-10=-163/450, 6-10=-575/429, 6-8=0/270

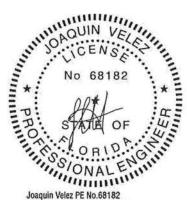
### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 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 459 lb uplift at joint 7 and 529 lb uplift at joint 2.



Structural wood sheathing directly applied or 3-4-14 oc purlins.

4-10

Rigid ceiling directly applied or 5-10-9 oc bracing.

1 Row at midpt

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

July 6,2020

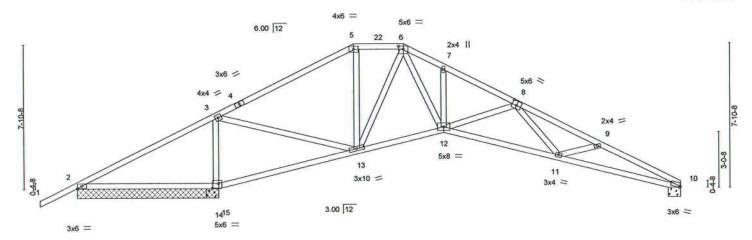
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see ANSITPH 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	HOUSECRAFT - DAWSON RE	S.	
2391382	T18	Hip Structural Gable		1	1			T20645083
2391302	110	Inpoliticata Gabie			1.0	Job Reference (optional)		
Builders FirstSource,	Jacksonville, FL - 32244,			ID:N79ILMIY		ar 9 2020 MiTek Industries, Inc. onYfvz shY-tct4sRiVU62B0mhc		
2-0-0	7-8-0	15-0-0	17-8-0	19-10-0	23-	9-0 28-2-3	32-8-0	
2-0-0	7-8-0	7-4-0	2-8-0	2-2-0	3-1	1-0 4-5-3	4-5-13	ds

Scale = 1:60.2



		7-8-0		15-0-0		19-10-0	- 1		26-1-0		32-8-0	
		7-8-0		7-4-0		4-10-0			6-3-0		6-7-0	0.
Plate Offse	ets (X,Y)-	[6:0-3-0,0-2-0], [8:0-3-0,0	-3-0], [10:0-0-9	P,Edge], [14:0	-4-0,0-3-0]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	-0.15	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.30	11-12	>998	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	-MS						Weight: 167 II	b FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 5-4-6 oc bracing.

All bearings 7-8-0 except (jt=length) 10=0-8-0, 15=0-8-0. REACTIONS.

Max Horz 2=200(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-361(LC 24), 14=-539(LC 13), 10=-323(LC 13), 15=-108(LC

12), 2=-164(LC 1)

Max Grav All reactions 250 lb or less at joint(s) 2 except 14=1537(LC 1), 10=756(LC 1), 15=521(LC 3)

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

2-3=-531/1191, 3-5=-507/292, 5-6=-357/334, 6-7=-1224/719, 7-8=-1247/626, TOP CHORD 8-9=-1998/1023, 9-10=-2237/1197

2-15=-973/561, 14-15=-973/561, 13-14=-1080/619, 12-13=-58/620, 11-12=-690/1638, BOT CHORD

10-11=-1022/2005

3-14=-1489/859, 3-13=-538/1434, 6-13=-626/231, 6-12=-539/1092, 8-12=-545/432, WEBS

8-11=-127/402, 9-11=-192/265

### 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=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 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) 10 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 361 lb uplift at joint 2, 539 lb uplift at joint 14, 323 lb uplift at joint 10, 108 lb uplift at joint 15 and 361 lb uplift at joint 2.



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

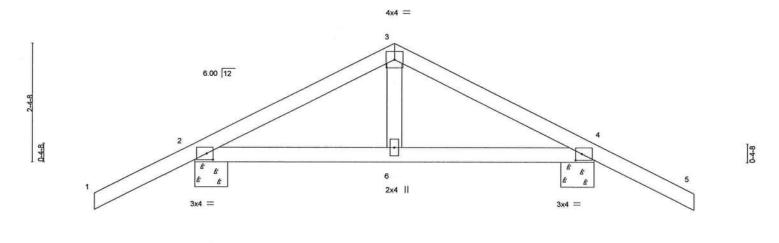
July 6,2020

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 occliagse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job Truss Truss Type Qty HOUSECRAFT - DAWSON RES. T20645084 2391382 T19 Common 1 Job Reference (optional) Jacksonville, FL - 32244, Builders FirstSource, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:46 2020 Page 1 ID:N79ILMIYykRZQaeNxonYfvz\_shY-LpRS3nj7FQA2ewGozy9SRwOT2?Nlqs2o2V4h?Nz\_m9N 2-0-0 8-0-0 10-0-0 4-0-0 2-0-0

Scale = 1:22.2



Diate Offs	ets (X,Y)-	[2:0-1-8,0-1-9], [4:0-1-8,0	0.1.01	4-0-0				4-0	0-0			
esecutiva leteratura				T		20.000.000	0.5	yaya ay	223. 83			
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	0.32	Vert(LL)	0.02	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.01	6-9	>999	180	100000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS						Weight: 35 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

8-0-0

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

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

LUMBER-

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

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

Max Horz 2=63(LC 12)

Max Uplift 2=-183(LC 12), 4=-183(LC 13) Max Grav 2=404(LC 1), 4=404(LC 1)

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

TOP CHORD 2-3=-337/512, 3-4=-337/512 BOT CHORD 2-6=-316/262, 4-6=-316/262

### 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=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

4-0-0

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 2 and 183 lb uplift at joint 4.



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

July 6,2020

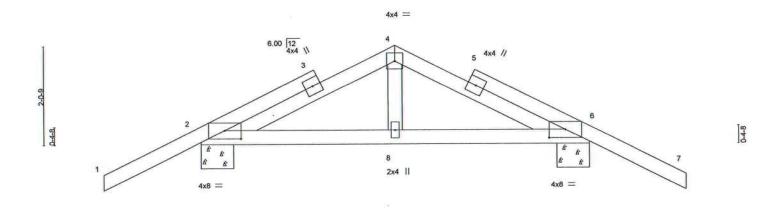
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 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 truss systems, see 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



Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - DAWSON RES.	T20645085		
2391382	T19G	KINGPOST	1	1	Job Reference (optional)			
. Builders FirstSource,	Jacksonville, FL - 32244,		8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jul 6 14:14:47 2 ID:N79ILMIYvkRZQaeNxonYfvz shY-p??qH7kl0jlvG4r_Whh_8xefPgGZJYxG9					
10	-2-0-0	4-0-0		8	-0-0	-0-0		
	2-0-0	4-0-0		4	-0-0	0-0		

Scale = 1:22.9



		1		4-0-0					1-0-0			
Plate Offs	sets (X,Y)-	[2:0-4-0,0-2-1], [6:0-4-0,0	-2-1]									
LOADING TCLL TCDL BCLL	G (psf) 20.0 7.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC BC WB	0.33 0.27 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	0.01 -0.01 0.00	(loc) 8-19 8 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	c-MS						Weight: 41 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

8-0-0

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

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

LUMBER-

REACTIONS.

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

2x4 SP No 3 (size) 2=0-8-0, 6=0-8-0

Max Horz 2=56(LC 12) Max Uplift 2=-189(LC 12), 6=-189(LC 13)

Max Grav 2=404(LC 1), 6=404(LC 1)

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

2-4=-268/430, 4-6=-268/429 TOP CHORD

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

100

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 2 and 189 lb uplift at joint 6.



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July 6,2020

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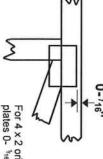


### Symbols

# PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- <sup>1</sup>16" from outside edge of truss.

œ

6

S

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

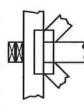
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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:

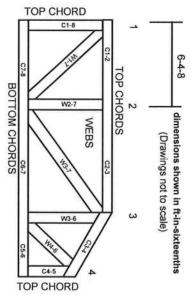
ANSI/TPI1:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

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

DSB-89: BCSI:

## 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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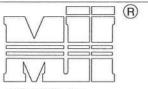
4

- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use, Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.

# T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

## MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

1	Nailing Pattern	
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.

Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

, ,	Nails
\ \\ \\*\	SPACING
WEB	
	T-BRACE
Nails Section Detail  T-Brace  Web	

Nails	
Web	I-Brace
Nails	

	Brace Size for One-Ply Truss				
	Specified Rows of La	Continuous iteral Bracing			
Web Size	1	2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace	2x6 I-Brace			
2x8	2x8 T-Brace	2x8 I-Brace			

	Brace Size for Two-Ply Truss				
	Specified Rows of La	Continuous iteral Bracing			
Web Size	1	2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace	2x6 I-Brace			
2x8	2x8 T-Brace	2x8 I-Brace			

T-Brace / I-Brace must be same species and grade (or better) as web member.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

## SCAB-BRACE DETAIL

## MII-SCAB-BRACE

MiTek USA, Inc.

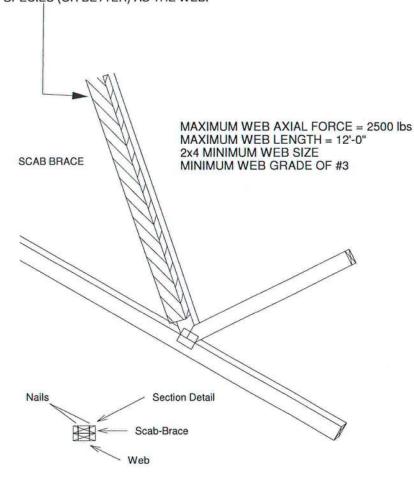
Page 1 of 1



Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical. Scab must cover full length of web +/- 6".

\*\*\* THIS DETAIL IS NOT APLICABLE WHEN BRACING IS \*\*\* REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

SCAB TO ONE FACE OF WEB WITH APPLY 2x 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.



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## STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc. ENGINEERED BY 小別 HI 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED. THE LOADS INDICATED.

THE LOADS INDICATED.

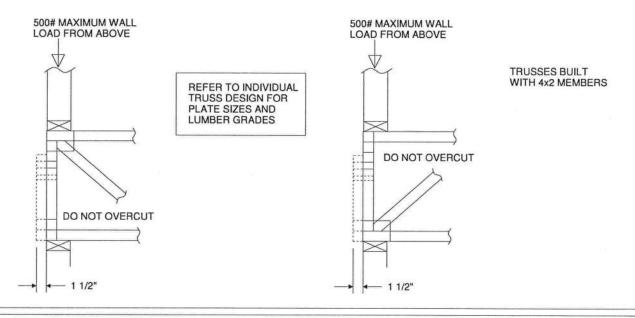
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

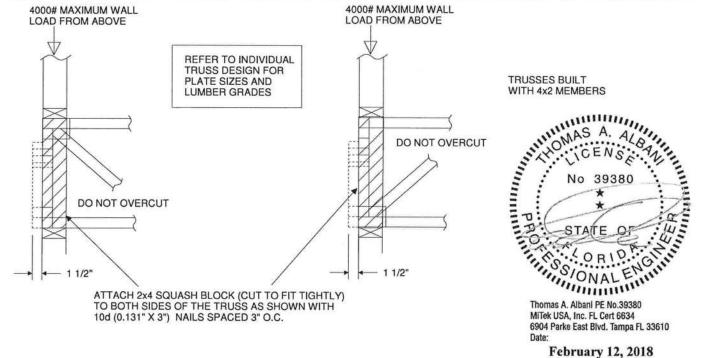
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.

4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.

5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X\_ORIENTATION ONLY.

6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.

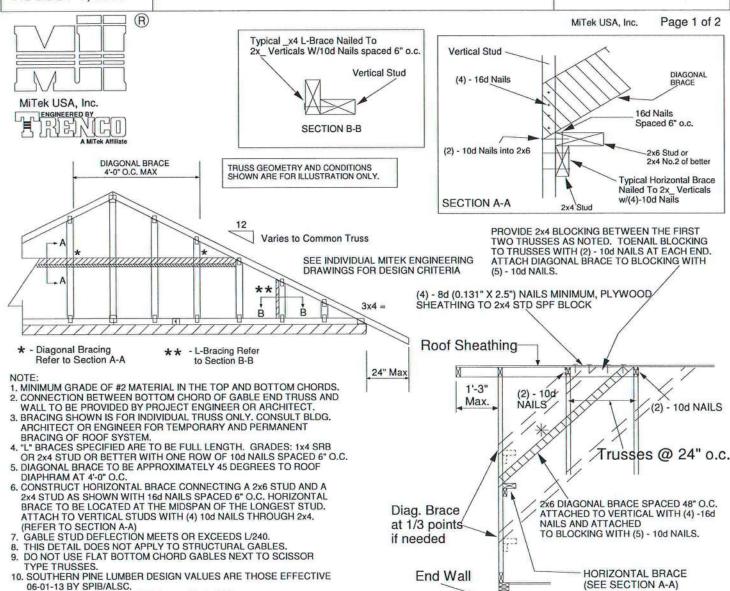






## Standard Gable End Detail

## MII-GE130-D-SP



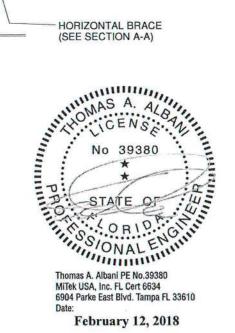
Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade		Maximum Stud Length				
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

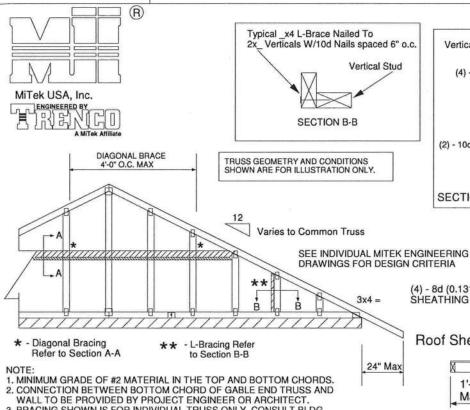
MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH **DURATION OF LOAD INCREASE: 1.60** 

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



### Standard Gable End Detail

### MII-GE130-SP



MiTek USA, Inc. Page 1 of 2 DIAGONAL BRACE 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better

> Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails

> > (2) - 10d NAILS

Trusses @ 24" o.c.

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

10d

NAILS

Roof Sheathing

Vertical Stud

SECTION A-A

(4) - 16d Nails

1'-3"

Max.

3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C. 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THRO

(REFER TO SECTION A-A)

7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.

NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

,
Diag. Brace at 1/3 points if needed
End Wall

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED

TO BLOCKING WITH (5) - 10d NAILS.

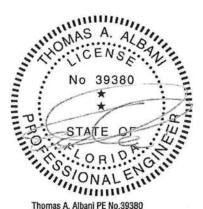
HORIZONTAL BRACE (SEE SECTION A-A)

Minimum Stud Size Species	Stud Spacing	Without Brace	DDACE		2 DIAGONAL BRACES AT 1/3 POINTS		
and Grade		Maximum Stud Length					
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6	
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1	
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15	

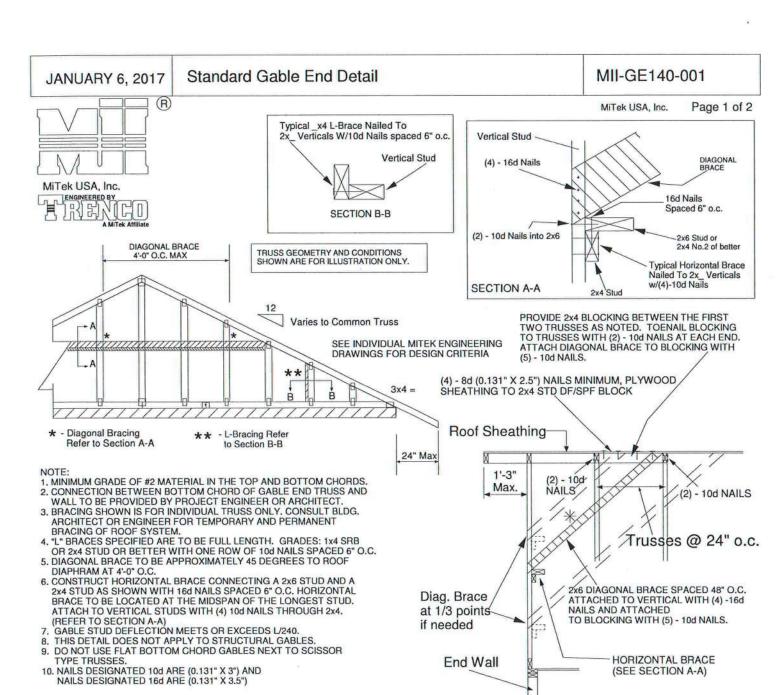
Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH **DURATION OF LOAD INCREASE: 1.60** 

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
Species and Grade		Maximum Stud Length					
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4	
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11	
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.

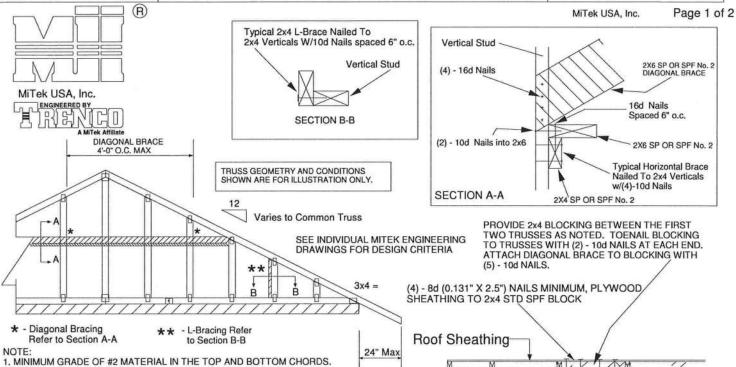


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## Standard Gable End Detail

MII-GE170-D-SP



1'-0"

Max.

Diag. Brace

at 1/3 points

End Wall

if needed

- 10d

NAILS

CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG.

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

"L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3

OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A

2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

TYPE TRUSSES.

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE

06-01-13 BY SPIB/ALSC. 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

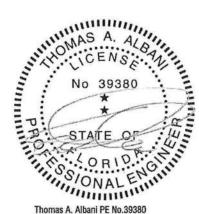
Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
Species and Grade			Maximum Stud Length					
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4			
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3			
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13			
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7			
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5			
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14			

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 170 MPH

**DURATION OF LOAD INCREASE: 1.60** 

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH

(4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

HORIZONTAL BRACE

(SEE SECTION A-A)

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# Standard Gable End Detail

## MII-GE180-D-SP

MiTek USA, Inc.

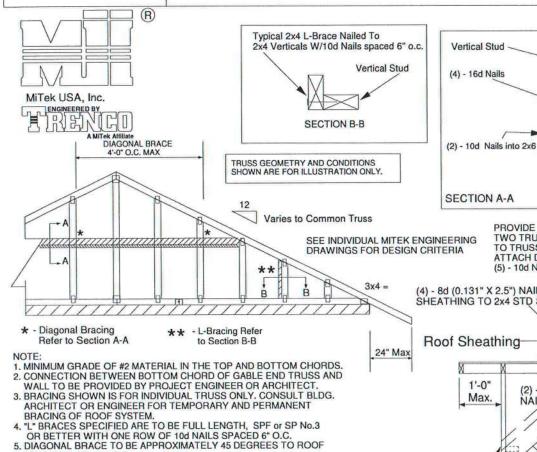
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2X6 SP OR SPF No. 2 DIAGONAL BRACE

2X6 SP OR SPF No. 2

Typical Horizontal Brace

16d Nails Spaced 6" o.c.



Nailed To 2x4 Verticals w/(4)-10d Nails 2X4 SP OR SPF No. 2 PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

(2) - 10d NAILS (2) - 10d NAILS

Diag. Brace at 1/3 points if needed

End Wall

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A) GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.

11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

DIAPHRAM AT 4'-0" O.C.

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade			Maximum St	ud Length	
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9

\* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length.

T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 180 MPH **DURATION OF LOAD INCREASE: 1.60** 

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ASCE 7-10** 

**DURATION OF LOAD INCREASE: 1.60** 

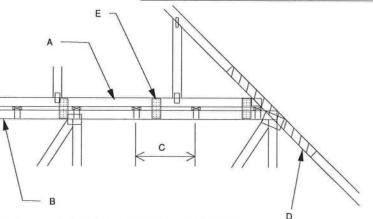
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131° X.3-5") TOE-NAILED. B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
D - 2 X \_ X 4"-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED.
ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:

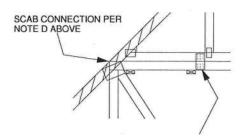
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft. E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH

MITEK 3/8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REO. REGARDLESS OF SPAN)

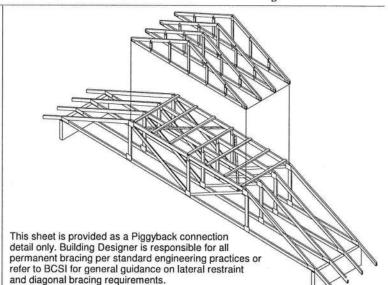


#### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

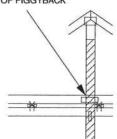
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



#### FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL

ATTACH 2 x \_\_\_ x 4-0\* SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131\* X 3\*) NAILS SPACED 4\* O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)

THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.

FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH

THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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#### STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

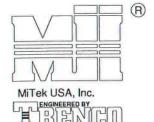
## MII-PIGGY-ALT 7-10

MiTek USA, Inc. Page 1 of 1

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C

**ASCE 7-10 DURATION OF LOAD INCREASE: 1.60** 

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.



A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0(0.131" X 3.5") TOE-NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
D - 2 X \_\_X 4"-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
DISPECTIONS AND:

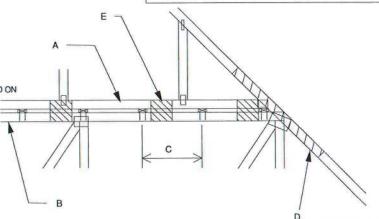
IS CONTINUOUS OVER INTERSECTION AT LEAST 171. IN BOTH
DIRECTIONS AND:

1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM
PIGGYBACK SPAN OF 12 ft.

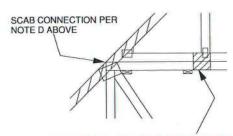
PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

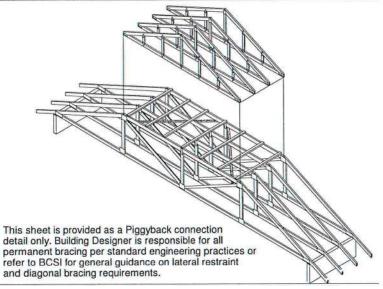


#### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

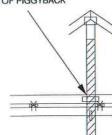
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



**VERTICAL WEB TO** EXTEND THROUGH **BOTTOM CHORD** OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

 VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL

AS SHOWN IN BEHAIL.
ATTACH 2 X \_\_\_ x 4-0" SCAB TO EACH FACE OF
TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS
SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH
VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)

THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.

FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH

THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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#### STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

#### MII-REP01A1

MiTek USA, Inc.

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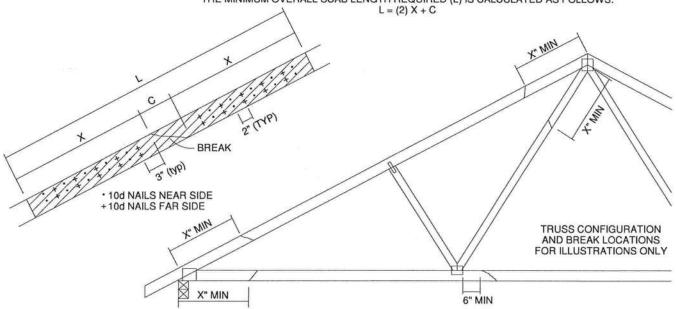


	JMBER OF			MAX	IMUM FO	RCE (lbs)	15% LOA	D DURAT	ION	
	REAK *	X INCHES	S	Р	C	)F	s	PF	Н	IF
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

#### \* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x\_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

#### DO NOT USE REPAIR FOR JOINT SPLICES

- NOTES:

  1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES

  NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS

  SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED

  REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.

  2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR
- AND HELD IN PLACE DURING APPLICATION OF REPAIR.
  THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
   THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x\_ORIENTATION ONLY.
   THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



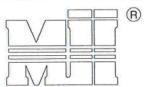
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## LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

MiTek USA, Inc.

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MiTek USA, Inc. ENGINEERED BY NOTES:

- 1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

  3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

#### THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

> SIDE VIEW (2x3) 2 NAILS

> > NEAR SIDE

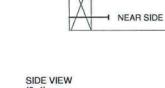
	DIAM.	SP	DF	HF	SPF	SPF-S	
G	.131	88.0	80.6	69.9	68.4	59.7	
3.5" LONG	.135	93.5	85.6	74.2	72.6	63.4	
	.162	108.8	99.6	86.4	84.5	73.8	
ğ	.128	74.2	67.9	58.9	57.6	50.3	
3.25" LONG	.131	75.9	69.5	60.3	59.0	51.1	
	.148	81.4	74.5	64.6	63.2	52.5	

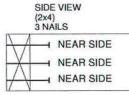
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

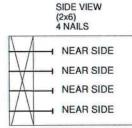
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

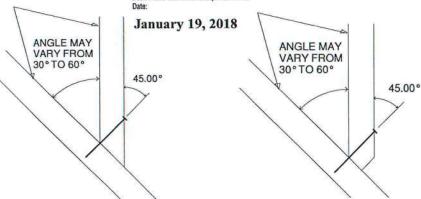


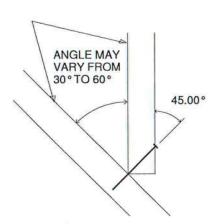






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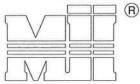


## TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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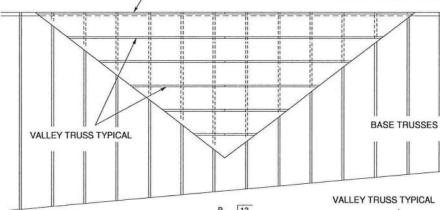
MiTek USA, Inc.

PRINCERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

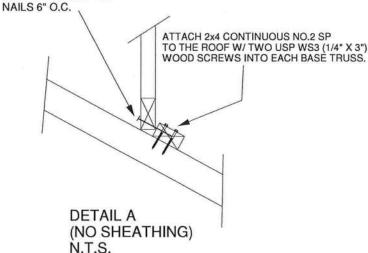
#### GENERAL SPECIFICATIONS

- NAIL SIZE 10d (0.131" X 3")
   WOOD SCREW = 3" WS3 USP OR EQUIVALENT
   DO NOT USE DRYWALL OR DECKING TYPE SCREW
   INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
- SECURE PER DETAIL A
- BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 6. NAILING DONE PER NDS 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING **EXPOSURE C** WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES



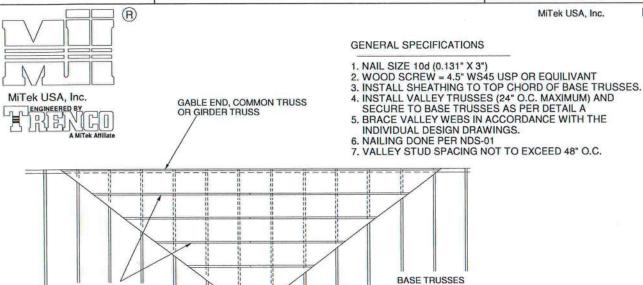
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# TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

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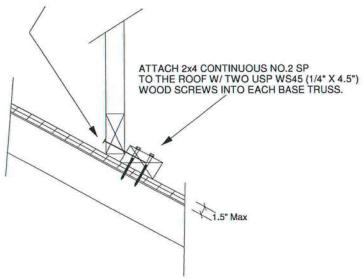
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GABLE END, COMMON TRUSS VALLEY TRUSS TYPICAL OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.

VALLEY TRUSS TYPICAL



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING **EXPOSURE C** WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES



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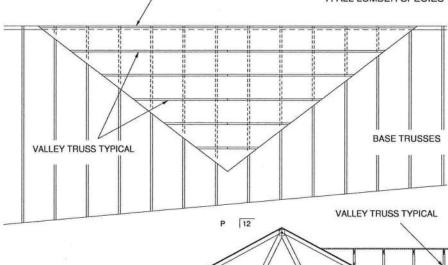
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MiTek USA, Inc.

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- 1. NAIL SIZE 16d (0.131" X 3.5") 2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
  4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING.
- EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



SEE DETAIL A BELOW (TYP.)

GABLE END, COMMON TRUSS OR GIRDER TRUSS

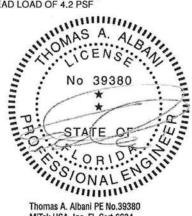
GABLE END, COMMON TRUSS OR GIRDER TRUSS

SECURE VALLEY TRUSS W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/TWO 16d NAILS INTO EACH BASE TRUSS. **DETAIL A** 

(MAXIMUM 1" SHEATHING)

N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES

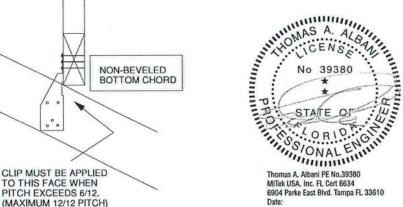


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TRUSSED VALLEY SET DETAIL MII-VALLEY AUGUST 1, 2016 (HIGH WIND VELOCITY) Page 1 of 1 NOTE: VALLEY STUD SPACING NOT MiTek USA, Inc. (R) TO EXCEED 48" O.C. SPACING MiTek USA, Inc. ENGINEERED BY 图别的 HO FOR BEVELED BOTTOM CHORD, CLIP MAY BE APPLIED TO EITHER FACE CLIP MAY BE APPLIED TO THIS FACE UP TO A MAXIMUM 6/12 PITCH ATTACH VALLEY TRUSSES TO LOWER TRUSSES WITH **USP RT7 OR EQUIVALENT** WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING NON-BEVELED BOTTOM CHORD EXPOSURE B or C WIND DURATION OF LOAD INCREASE: 1.6 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) SUPPORTING TRUSSES DIRECTLY UNDER VALLEY TRUSSES MUST BE DESIGNED WITH A MAXIMUM UNBRACED LENGTH OF NON-BEVELED 2'-10" ON AFFECTED TOP CHORDS. **BOTTOM CHORD** 

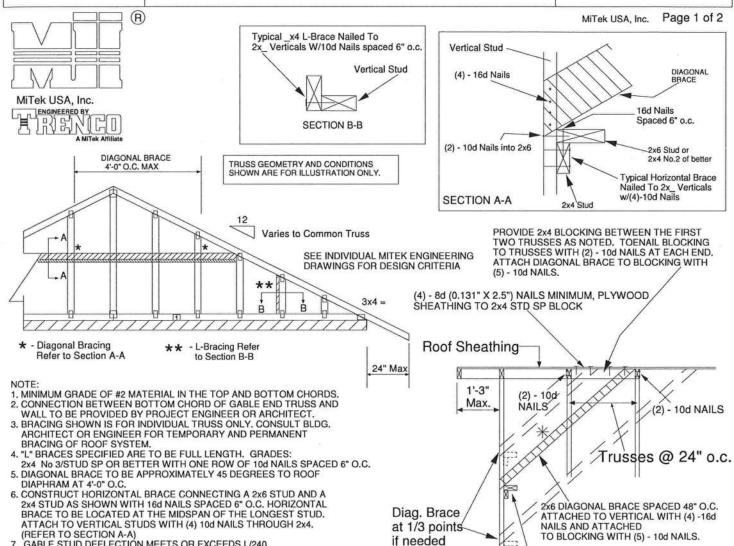
## NOTES:

- SHEATHING APPLIED AFTER INSTALLATION OF VALLEY TRUSSES
- THIS DETAIL IS NOT APPLICABLE FOR SPF-S SPECIES LUMBER.



### Standard Gable End Detail

#### MII-GE146-001



End Wall

1.	GABLE STUD DEFLECTION MEETS OH EXCEEDS L/240.
8.	THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9.	DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR
	TYPE TRUSSES.

 NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
		Maximum Stud Length				
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10	
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11	
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



HORIZONTAL BRACE

(SEE SECTION A-A)

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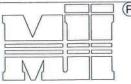
## **OCTOBER 5, 2016**

## REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

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MiTek USA, Inc.

ENGINEERED BY

TRUSS CRITERIA:

LOADING: 40-10-0-10 **DURATION FACTOR: 1.15** SPACING: 24" O.C. TOP CHORD: 2x4 OR 2x6 PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

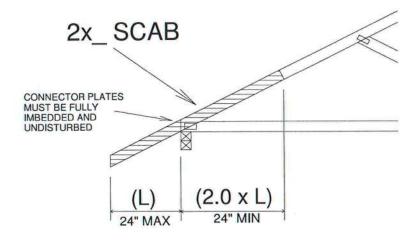
**END BEARING CONDITION** 

NOTES:

1. ATTACH 2x\_SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.

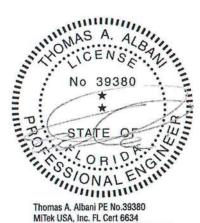
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf. Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



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## LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

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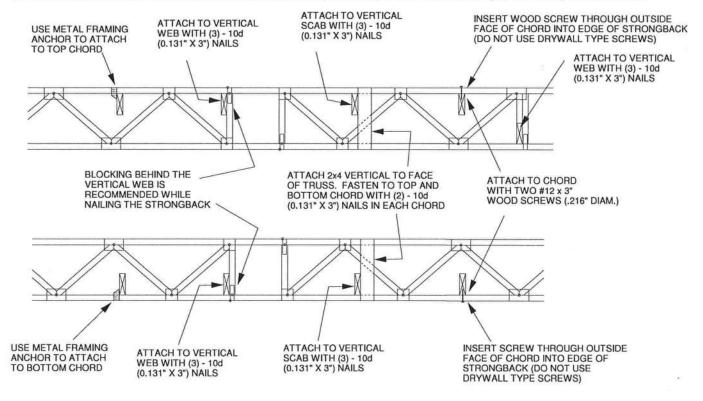
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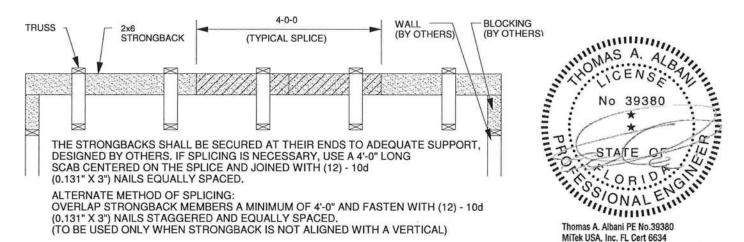


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.





February 12, 2018

Date:

6904 Parke East Blvd. Tampa FL 33610

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