



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

RE: 2291251 - SIMQUE CONST. - JOHNS RES.

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Simque Const. Project Name: Johns Res. Model: Custom

Subdivision: N/A

Lot/Block: N/A Address: 283 Heathridge Dr., N/A

City: Columbia Cty State: FL

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

Name: License #:

Address:

State: City:

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

Design Code: FBC2017/TPI2014

Wind Code: ASCE 7-10

Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.2

Wind Speed: 130 mph Floor Load: N/A psf

This package includes 21 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T20273081	CJ01	5/21/20
123456789	T20273082 T20273083	CJ03 CJ05	5/21/20 5/21/20
4	T20273084 T20273085	EJ01 EJ01G	5/21/20 5/21/20
6	T20273086	HJ10	5/21/20
7	T20273087 T20273088	T01 T01G	5/21/20 5/21/20
9	T20273089	T02	5/21/20
10	T20273090 T20273091	T03 T04	5/21/20 5/21/20
11 12 13 14	T20273092	T05	5/21/20
13	T20273093 T20273094	T06 T07	5/21/20 5/21/20
15 16	T20273095 T20273096	T08 T09	5/21/20 5/21/20
17	T20273096	T10	5/21/20
18 19	T20273098 T20273099	T11 T12	5/21/20 5/21/20
20	T20273100	T13	5/21/20
21	T20273101	T13G	5/21/20



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

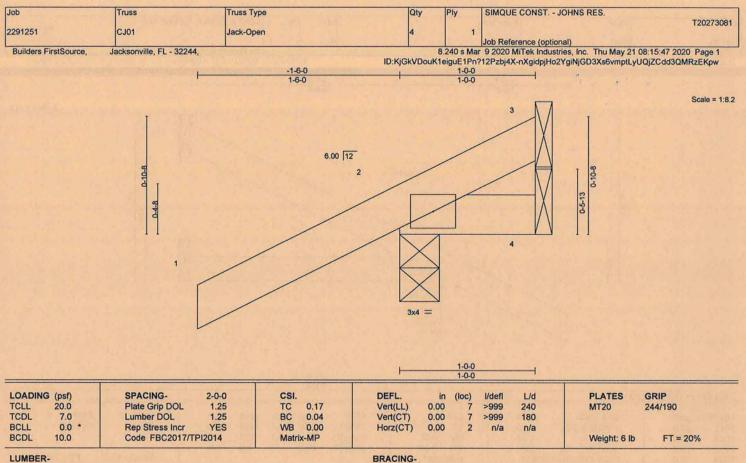
My license renewal date for the state of Florida is February 28, 2021.

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.



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

May 21,2020



TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=55(LC 12)

Max Uplift 3=-6(LC 1), 2=-107(LC 12), 4=-19(LC 1) Max Grav 3=12(LC 8), 2=179(LC 1), 4=25(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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=107



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

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

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May 21,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters 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 buckling of individual truss web and/or chord manage. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



SIMQUE CONST. - JOHNS RES. Qty Truss Type Job Truss T20273082 Jack-Open 2291251 **CJ03** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu May 21 08:15:48 2020 Page 1 Jacksonville, FL - 32244, Builders FirstSource, ID:KjGkVDouK1eiguE1Pn?12Pzbj4X-FjE4q9kwZMgXJXITnn25f7I_dlHC9ApMsHpzvuzEKpv Scale = 1:13.3 6.00 12 0-4-B Plate Offsets (X,Y)-[2:0-1-9,0-1-0] PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL I/defl 1 /d 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.17 Vert(LL) -0.00 4-7 >999 240 MT20 TCDL Lumber DOL 1.25 BC 0.07 Vert(CT) -0.01 >999 180 7.0 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a BCLL Weight: 12 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

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

10.0

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

Max Horz 2=103(LC 12)

Max Uplift 3=-54(LC 12), 2=-97(LC 12)

Max Grav 3=60(LC 1), 2=210(LC 1), 4=50(LC 3)

Code FBC2017/TPI2014

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.

Matrix-MP

- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

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

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May 21,2020

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Job Truss Truss Type Qty SIMQUE CONST. - JOHNS RES T20273083 2291251 **CJ05** Jack-Open Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu May 21 08:15:49 2020 Page 1 Builders FirstSource. Jacksonville, FL - 32244, ID:KjGkVDouK1eiguE1Pn?12Pzbj4X-jwoS2UIYJgoOxgtfLUZKBKr7l9bqud3V5xYXRKzEKpu 5-0-0 Scale = 1:18.2 6.00 12 0-4-8 5-0-0 LOADING (psf) SPACING-2-0-0 CSI DEFL I/defl GRIP PLATES 20.0 TCLL Plate Grip DOL 1.25 TC 0.31 Vert(LL) 0.04 4-7 >999 240 MT20 244/190 TCDL 1.25 BC 7.0 Lumber DOL 0.24 Vert(CT) -0.05 >999 180 0.0 BCLL Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-MP Weight: 18 lb FT = 20% LUMBER-

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

TOP CHORD **BOT CHORD**

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

REACTIONS.

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

Max Horz 2=151(LC 12)

Max Uplift 3=-102(LC 12), 2=-112(LC 12), 4=-5(LC 12) Max Grav 3=113(LC 1), 2=276(LC 1), 4=88(LC 3)

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

- 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 100 lb uplift at joint(s) 4 except ((t=lb) 3=102, 2=112.



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May 21,2020

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Qty SIMOUE CONST. - JOHNS RES. Truss Truss Type Job T20273084 27 1 2291251 EJ01 Jack-Partial Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu May 21 08:15:50 2020 Page 1 ID:KjGkVDouK1eiguE1Pn?12Pzbj4X-B6MrFqlA4zwFZqSrvC4ZkYOCzZsjd4JfKbl4zmzEKpt 7-0-0 Scale = 1:23.0 6.00 12 0-4-8 3x4 = Plate Offsets (X,Y)- [2:0-1-13,0-1-8] **PLATES** SPACING-CSL DEFL I/defl L/d LOADING (psf) 2-0-0 244/190 0.14 >588 240 MT20 0.69 Vert(LL) 4-7 TCLL 20.0 Plate Grip DOL 1.25 TC >385 180 TCDL 7.0 Lumber DOL 1.25 BC 0.51 Vert(CT) -0.22 0.00 0.01 WB Horz(CT) n/a n/a BCLL 0.0 Rep Stress Incr YES Weight: 25 lb FT = 20% Code FBC2017/TPI2014 Matrix-MS BCDL 10,0

BRACING-

TOP CHORD BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=138(LC 12)

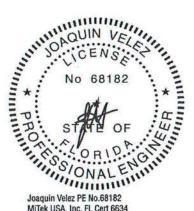
Max Uplift 3=-95(LC 12), 2=-69(LC 12)

Max Grav 3=164(LC 1), 2=346(LC 1), 4=126(LC 3)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) 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) 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 100 lb uplift at joint(s) 3, 2.



Structural wood sheathing directly applied or 6-0-0 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:

May 21,2020

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty SIMQUE CONST. - JOHNS RES. T20273085 2291251 EJ01G Jack-Open Supported Gable Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu May 21 08:15:51 2020 Page 1 Builders FirstSource, Jacksonville, FL - 32244, ID:KjGkVDouK1eiguE1Pn?12Pzbj4X-flwDTAmorH26A_11SvcoHlwVzzJnMXfoYF1eVCzEKps Scale = 1:22.1 2x4 || 6 2x4 || 6.00 12 2x4 || D-4-B 4x8 = 2x4 2x4 || Plate Offsets (X,Y)-[2:0-4-0,0-2-1] LOADING (psf) SPACING-2-0-0 CSI DEFL. I/defl Ld **PLATES** GRIP (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.17 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.08 Vert(CT) 0.00 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-S FT = 20% Weight: 38 lb LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

Pigid spiling dispetly

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

REACTIONS. All bearings 7-0-0.

(lb) - Max Horz 2=183(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 7, 8 except 9=-111(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 7, 9, 8

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
- 2) Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7, 8 except (jt=lb) 9=111.



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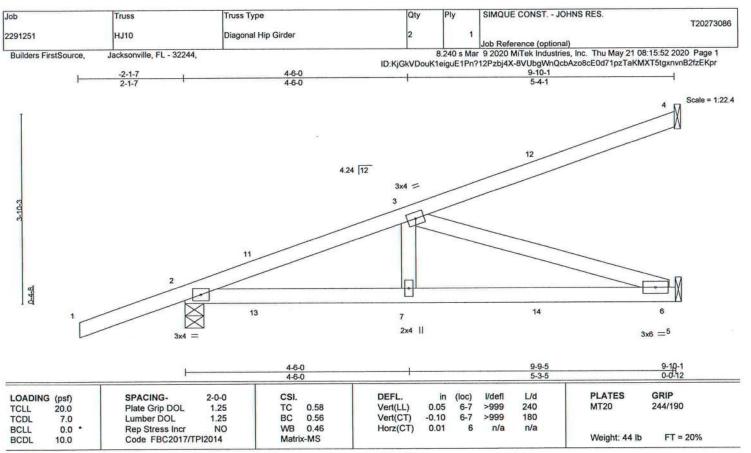
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ANSI/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





LUMBER-

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

BRACING-

Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD **BOT CHORD** Rigid ceiling directly applied or 9-3-8 oc bracing.

REACTIONS. 4=Mechanical, 2=0-4-9, 6=Mechanical (size)

Max Horz 2=217(LC 22)

Max Uplift 4=-141(LC 4), 2=-232(LC 4), 6=-124(LC 8) Max Grav 4=148(LC 1), 2=525(LC 1), 6=303(LC 1)

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

TOP CHORD 2-3=-786/306

2-7=-379/718, 6-7=-379/718 **BOT CHORD** 3-7=0/265, 3-6=-754/398 WEBS

NOTES.

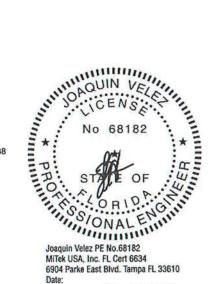
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=141, 2=232, 6=124,
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 63 lb up at 1-6-1, 87 lb down and 63 lb up at 1-6-1, 28 lb down and 45 lb up at 4-4-0, 28 lb down and 45 lb up at 4-4-0, and 51 lb down and 101 lb up at 7-1-15, and 51 lb down and 101 lb up at 7-1-15 on top chord, and 25 lb down and 38 lb up at 1-6-1, 25 lb down and 38 lb up at 1-6-1, 24 lb down at 4-4-0, 24 lb down at 4-4-0, and 42 lb down and 20 lb up at 7-1-15, and 42 lb down and 20 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Vert: 7=-6(F=-3, B=-3) 12=-73(F=-36, B=-36) 14=-59(F=-29, B=-29)



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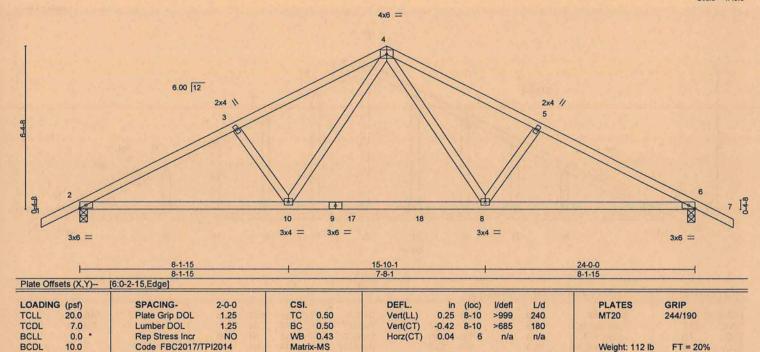
May 21,2020

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Job Truss Truss Type Qty SIMQUE CONST. - JOHNS RES. T20273087 2291251 T01 Common 10 1 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu May 21 08:15:53 2020 Page 1 Builders FirstSource Jacksonville, FL - 32244, ID:KjGkVDouK1eiguE1Pn?12Pzbj4X-ch2ztso2NulqQIBQaKeGMA0mFmuaqLK50ZWka5zEKpq 17-10-5 24-0-0 25-6-0

Scale = 1:43.3



LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP M 31 WEBS 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 3-9-3 oc purlins. Rigid ceiling directly applied or 8-3-4 oc bracing.

REACTIONS.

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

Max Horz 2=-142(LC 13) Max Uplift 2=-490(LC 12), 6=-490(LC 13) Max Grav 2=1199(LC 1), 6=1199(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-2085/1118, 3-4=-1911/1097, 4-5=-1911/1097, 5-6=-2085/1118 BOT CHORD 2-10=-860/1809, 8-10=-458/1216, 6-8=-871/1809

WEBS

4-8=-431/806, 5-8=-309/323, 4-10=-431/806, 3-10=-309/323

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) 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 100 lb uplift at joint(s) except (jt=lb) 2=490, 6=490.
- 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, 10-11=-20, 8-10=-80(F=-60), 8-14=-20



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

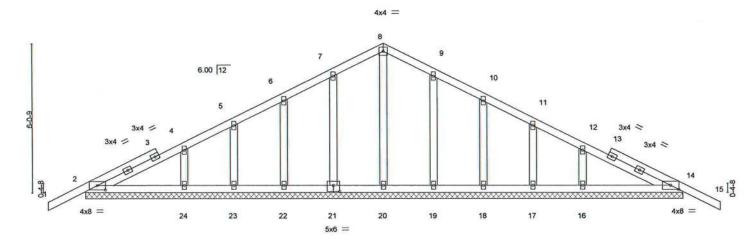
May 21,2020

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Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST JOHNS RES.	
2291251	T01G	Common Supported Gable	1	1		T20273088
2251251	1010	Common Supported Gable			Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244,				r 9 2020 MiTek Industries, Inc. Thu May 21 08:15:5	
			ID:KjGkVD	ouK1eiguE1	Pn?12Pzbj4X-Y49kIYpJvWYYfbKphlgkRb5ByagKIKi	
, -1-6-0		12-0-0	1	587	24-0-0	25-6-0
1-6-0		12-0-0			12-0-0	1-6-0

Scale = 1:44.7



						24-0-0						1
Plate Offs	sets (X,Y)-	[2:0-4-0,0-2-1], [14:0-4-0	,0-2-1], [21:0-3-	-0,0-3-0]							4	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.00	15	n/r	120	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.00	15	n/r	120	2018550	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	14	n/a	n/a	PROPERTY DESCRIPTION	
BCDL	10.0	Code FBC2017/T	PI2014	Matri	k-S	02000 57703.579030					Weight: 133 lb	FT = 20%

24-0-0

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD

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

REACTIONS. All bearings 24-0-0.

(lb) - Max Horz 2=-135(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 19, 18, 17 except 24=-130(LC 12),

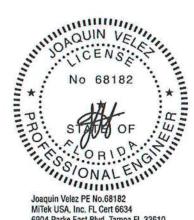
16=-135(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 24, 19, 18, 17, 16

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

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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 19, 18, 17 except (jt=lb) 24=130, 16=135.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.



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May 21,2020

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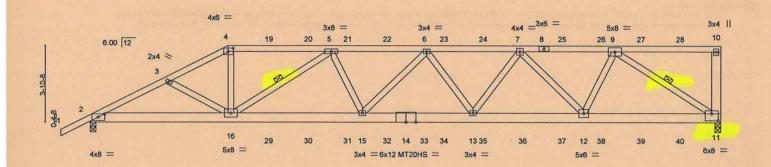
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type		Qty	Ply	SIMQUE CONST JOHNS RES.		
2291251	T02	Half Hip Girder		2	1	William Chillian	T20273	3089
		and the second				Job Reference (optional)		
Builders FirstSource,	Jacksonville, FL - 32244,			8	.240 s Mar	9 2020 MiTek Industries, Inc. Thu	May 21 08:15:57 2020 Page	1
			ID:Kj	GkVDouK1eigu	E1Pn?12	Pzbj4X-USHUjErZR7oGuvUBpAiC\	WOAPANH5m0jhxBUyjszEKpm	
1-6-0 3-11- 1-6-0 3-11-	15 , 7-0-0	12-2-11	17-0-10	21-	9-7	26-7-6	32-0-0	
1-6-0 3-11-	15 3-0-1	5-2-11	4-10-0	4-8	-13	4-10-0	5-4-10	

Scale = 1:56.2



	1	7-0-0	4. 3	13-9-10	19-5-1	1	25-0-7	-	32-0-0	
		7-0-0	1	6-9-10	5-7-6		5-7-7		6-11-9	
Plate Offs	sets (X,Y)-	[2:0-4-0,0-1-15], [4:0-3-4,	0-2-0], [11:0-4	-0,0-4-4]						
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 0.70	Vert(LL)	-0.27 13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.51 13-15	>745	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.98	Horz(CT)	0.11 11	n/a	n/a	ANNAMED WAS	
BCDL	10.0	Code FBC2017/T	PI2014	Matrix-MS	Sec. 200				Weight: 196 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP No.2 *Except* TOP CHORD

4-8: 2x4 SP M 31 BOT CHORD 2x6 SP M 26

2x4 SP No.3 *Except* WEBS 10-11: 2x6 SP No.2

REACTIONS (size) 11=0-3-8, 2=0-3-8

Max Horz 2=151(LC 24) Max Uplift 11=-830(LC 5), 2=-674(LC 8) Max Grav 11=2689(LC 1), 2=2420(LC 1)

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

2-3=-4854/1391, 3-4=-4699/1376, 4-5=-4251/1266, 5-6=-5940/1717, 6-7=-5719/1641, TOP CHORD

7-9=-4001/1143, 10-11=-360/199

2-16=-1345/4300, 15-16=-1773/5738, 13-15=-1849/6034, 12-13=-1583/5198, **BOT CHORD**

11-12=-1014/3276

4-16=-400/1679, 5-16=-1854/591, 5-15=-12/562, 6-13=-562/280, 7-13=-195/930, WEBS

7-12=-1759/611, 9-12=-371/1760, 9-11=-3863/1167

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); end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (tt=lb) 11=830, 2=674
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 102 lb up at 7-0-0, 110 lb down and 102 lb up at 9-0-12, 110 lb down and 102 lb up at 11-0-12, 110 lb down and 102 lb up at 13-0-12, 110 lb down and 102 lb up at 15-0-12, 110 lb down and 102 lb up at 16-11-4, 110 lb down and 102 lb up at 17-11-4, 110 lb down and 102 lb up at 19-11-4, 110 lb down and 102 lb up at 21-11-4, 110 lb down and 102 lb up at 23-11-4, 110 lb down and 102 lb up at 25-11-4, 110 lb down and 102 lb up at 27-11-4, and 110 lb down and 102 lb up at 29-11-4, and 141 lb down and 98 lb up at 31-9-4 on top chord, and 339 lb down and 150 lb up at 7-0-0, 86 lb down at 9-0-12, 86 lb down at 11-0-12, 86 lb down at 13-0-12, 86 lb down at 15-0-12, 86 lb down at 16-11-4, 86 lb down at 17-11-4, 86 lb down at 19-11-4, 86 lb down at 21-11-4, 86 lb down at 23-11-4, 86 lb down at 25-11-4, and 86 lb down at 27-11-4, and 86 lb down at 29-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Structural wood sheathing directly applied or 2-5-2 oc purlins,

5-16, 9-11

Rigid ceiling directly applied or 7-4-7 oc bracing.

except end verticals.

1 Row at midpt

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May 21,2020

LOAD CASES) VSIA DESIGN parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 10/03/2015 BEFORE USE.

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

ANSITYPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandra, VA 22314.



Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST JOHNS RES.	T20273089
2291251	T02	Half Hip Girder	2	1		
					Job Reference (optional)	

Builders FirstSource,

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu May 21 08:15:57 2020 Page 2 ID:KjGkVDouK1eiguE1Pn?12Pzbj4X-USHUjErZR7oGuvUBpAiCW0APANH5m0jhxBUyjszEKpm

LOAD CASE(S) Standard

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

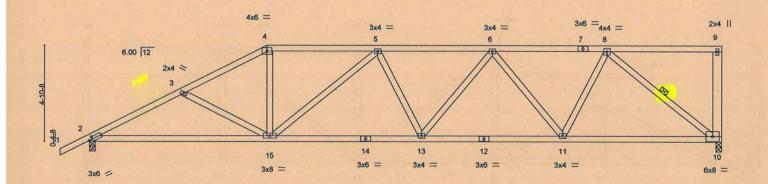
Concentrated Loads (lb)

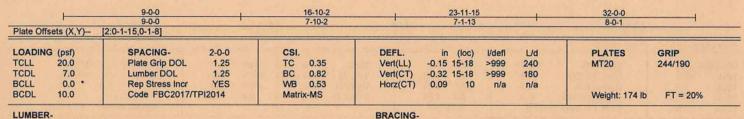
Vert: 4=-110(B) 10=-141(B) 16=-339(B) 6=-110(B) 7=-110(B) 19=-110(B) 20=-110(B) 21=-110(B) 22=-110(B) 23=-110(B) 24=-110(B) 25=-110(B) 25=-110(B) 26=-110(B) 27=-110(B) 28=-110(B) 29=-64(B) 30=-64(B) 31=-64(B) 32=-64(B) 33=-64(B) 33=-64(B) 35=-64(B) 35=-64(



Job	Truss		Truss Type	Q	ty Ply	SIMQUE CONST JOI	HNS RES.
2291251	T03		Half Hip	2		111673	T20273090
2201201	100		Tian Trip			Job Reference (optional)
Builders FirstSource,	Jacksonville	e, FL - 32244,					s, Inc. Thu May 21 08:15:58 2020 Page 1
				ID:KjGk	VDouK1eiguE1Pn	?12Pzbj4X-yersxZrBCRv	v6W33ONtER3EjfGnWtVa2q9rEVFlzEKpl
1-6-0	4-9-8	9-0-0	14-7-5	20-5-1		26-2-10	32-0-0
1-6-0	4-9-8	4-2-8	5-7-6	5-9-12		5-9-9	5-9-6

Scale = 1:56.2





TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

2x4 SP No.3 *Except*

9-10: 2x6 SP No.2

(size) 10=0-3-8, 2=0-3-8 Max Horz 2=173(LC 12)

Max Uplift 10=-305(LC 9), 2=-242(LC 9) Max Grav 10=1174(LC 1), 2=1258(LC 1)

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

2-3=-2188/1095, 3-4=-1934/948, 4-5=-1697/904, 5-6=-2026/1024, 6-8=-1511/738 TOP CHORD 2-15=-1145/1928, 13-15=-1075/2044, 11-13=-973/1888, 10-11=-617/1199 **BOT CHORD** 3-15=-283/280, 4-15=-223/597, 5-15=-536/227, 6-11=-613/381, 8-11=-279/714, WEBS

8-10=-1519/788

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) 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 100 lb uplift at joint(s) except (jt=lb) 10=305, 2=242.



Structural wood sheathing directly applied or 3-9-5 oc purlins,

8-10

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

except end verticals

1 Row at midpt

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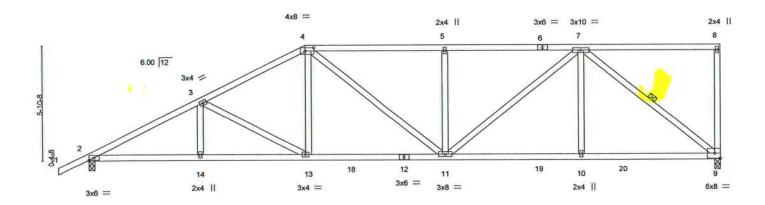
May 21,2020

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Job	Truss	Truss Type		Qty	Ply	SIMQUE CONST JOHNS RES. T2027309
2291251	T04	Half Hip		1	1	12027303
						Job Reference (optional)
Builders FirstSource,	Jacksonville, FL - 32244,					r 9 2020 MiTek Industries, Inc. Thu May 21 08:16:00 2020 Page 1
			ID:	KjGkVDo	uK1eiguE1Pr	n?12Pzbj4X-v1zdLFtRk2BqlNDmUIGv8foyZbGMzTw7d9jcKBzEKpj
, -1-6-0	5-7-15	11-0-0	18-0-9	1	24-	-11-7 32-0-0
1-6-0	5-7-15	5-4-1	7-0-9	1	6-1	0-13 7-0-9

Scale = 1:56.4



	-	5-7-15 5-7-15	11-0-0 5-4-1	18-0-9 7-0-9		24-11-7 6-10-13		32-0-0 7-0-9	 1
Plate Offse	ets (X,Y)-		041	7-00		0.10.10			
LOADING	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0	CSI. TC 0.56	DEFL. Vert(LL)	in (loc) I/defl -0.11 11-13 >999	L/d 240	PLATES MT20	GRIP 244/190
TCDL BCLL	7.0	Lumber DOL Rep Stress Incr	1.25 YES	BC 0.56 WB 0.63	Vert(CT) Horz(CT)	-0.23 11-13 >999 0.08 9 n/a	180 n/a		
BCDL	10.0	Code FBC2017/T		Matrix-MS		- 1000 -	Martino	Weight: 182 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=207(LC 12)

Max Uplift 9=-304(LC 9), 2=-237(LC 12) Max Grav 9=1177(LC 1), 2=1262(LC 1)

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

TOP CHORD

2-3=-2215/1057, 3-4=-1787/892, 4-5=-1702/897, 5-7=-1702/897 2-14=-1155/1929, 13-14=-1155/1929, 11-13=-859/1546, 10-11=-614/1197, **BOT CHORD**

WEBS

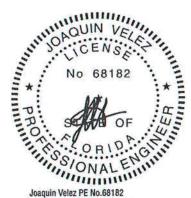
3-13=-443/339, 4-13=-121/406, 4-11=-124/326, 5-11=-400/301, 7-11=-364/649,

7-10=0/307, 7-9=-1515/777

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) 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
- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=304, 2=237.



Structural wood sheathing directly applied or 3-7-1 oc purlins,

7-9

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

except end verticals.

1 Row at midpt

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

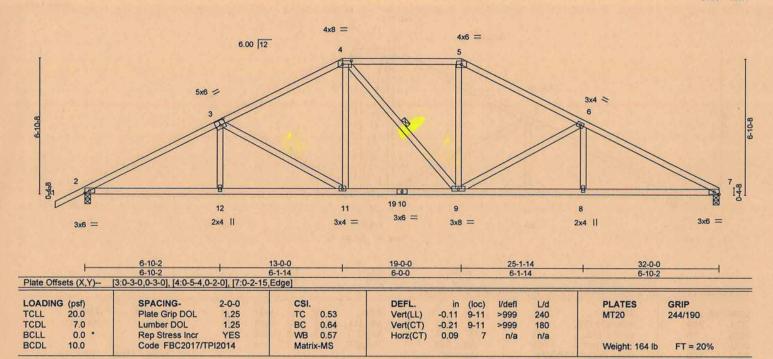
May 21,2020

MARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters 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 demange. 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Scale = 1:56.1



LUMBER-

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

2x4 SP No.3

BRACING-

TOP CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 3-5-9 oc purlins. Rigid ceiling directly applied or 5-11-5 oc bracing.

1 Row at midpt 4-

REACTIONS.

WEBS

(size) 7=0-3-8, 2=0-3-8 Max Horz 2=101(LC 16)

Max Uplift 7=-232(LC 13), 2=-261(LC 12) Max Grav 7=1182(LC 1), 2=1267(LC 1)

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

TOP CHORD 2-3=-2186/1130, 3-4=-1648/928, 4-5=-1409/897, 5-6=-1650/930, 6-7=-2198/1142
BOT CHORD 2-12=-909/1894, 11-12=-909/1895, 9-11=-547/1408, 8-9=-920/1906, 7-8=-920/1906
WEBS 3-12=0/273, 3-11=-569/417, 4-11=-163/435, 5-9=-168/437, 6-9=-582/431, 6-8=0/274

NOTES-

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

- 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) 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.

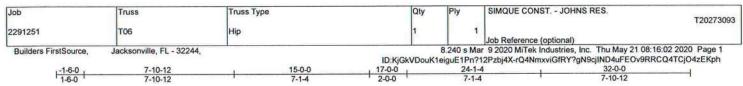
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=232, 2=261.



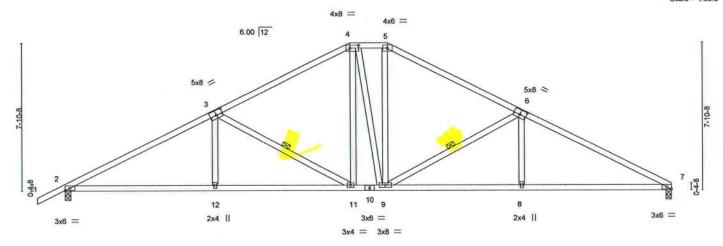
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 21,2020









9	7-10-12	10	15-0	-0	17-0-0		24-1-	4	- 1	32-0-0	
	7-10-12		7-1	4	2-0-0		7-1-4		1	7-10-12	and the second
ets (X,Y)-	[3:0-4-0,0-3-0], [4:0-5-8,0	0-2-0], [6:0-4-0,	0-3-0], [7:0-2	-15,Edge]							
(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.13	8-18	>999	240	MT20	244/190
7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.26	8-18	>999	180		
0.0 *	Rep Stress Incr Code FBC2017/T	YES PI2014	WB Matri	0.26 x-MS	Horz(CT)	0.09	7	n/a	n/a	Weight: 171 lb	FT = 20%
	(psf) 20.0 7.0 0.0 *	7-10-12 rts (X,Y)— [3:0-4-0,0-3-0], [4:0-5-8,0] (psf) SPACING- 20.0 Plate Grip DOL 7.0 Lumber DOL 0.0 Pep Stress Incr	7-10-12 rts (X,Y)— [3:0-4-0,0-3-0], [4:0-5-8,0-2-0], [6:0-4-0,0-3-0], [6:0-4	7-10-12 7-10-1	7-10-12 7-14 ets (X,Y)— [3:0-4-0,0-3-0], [4:0-5-8,0-2-0], [6:0-4-0,0-3-0], [7:0-2-15,Edge] (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.68 7.0 Lumber DOL 1.25 BC 0.73 0.0 * Rep Stress Incr YES WB 0.26	7-10-12 7-1-4 2-0-0 ets (X,Y)— [3:0-4-0,0-3-0], [4:0-5-8,0-2-0], [6:0-4-0,0-3-0], [7:0-2-15,Edge] (psf) SPACING- 2-0-0 CSI. DEFL. 20.0 Plate Grip DOL 1.25 TC 0.68 Vert(LL) 7.0 Lumber DOL 1.25 BC 0.73 Vert(CT) 0.0 * Rep Stress Incr YES WB 0.26 Horz(CT)	7-10-12 7-1-4 2-0-0 ets (X,Y)— [3:0-4-0,0-3-0], [4:0-5-8,0-2-0], [6:0-4-0,0-3-0], [7:0-2-15,Edge] (psf) SPACING- 2-0-0 CSI. DEFL. in 20.0 Plate Grip DOL 1.25 TC 0.68 Vert(LL) 0.13 7.0 Lumber DOL 1.25 BC 0.73 Vert(CT) -0.26 0.0 Rep Stress Incr YES WB 0.26 Horz(CT) 0.09	7-10-12 7-14 2-0-0 7-14 ets (X,Y)— [3:0-4-0,0-3-0], [4:0-5-8,0-2-0], [6:0-4-0,0-3-0], [7:0-2-15,Edge] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.25 TC 0.68 Vert(LL) 0.13 8-18 7.0 Lumber DOL 1.25 BC 0.73 Vert(CT) -0.26 8-18 0.0 * Rep Stress Incr YES WB 0.26 Horz(CT) 0.09 7	7-10-12 7-14 2-0-0 7-1-4 ets (X,Y)— [3:0-4-0,0-3-0], [4:0-5-8,0-2-0], [6:0-4-0,0-3-0], [7:0-2-15,Edge] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl 20.0 Plate Grip DOL 1.25 TC 0.68 Vert(LL) 0.13 8-18 >999 7.0 Lumber DOL 1.25 BC 0.73 Vert(CT) -0.26 8-18 >999 0.0 * Rep Stress Incr YES WB 0.26 Horz(CT) 0.09 7 n/a	7-10-12 7-14 2-0-0 7-1-4 ets (X,Y)— [3:0-4-0,0-3-0], [4:0-5-8,0-2-0], [6:0-4-0,0-3-0], [7:0-2-15,Edge] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d 20.0 Plate Grip DOL 1.25 TC 0.68 Vert(LL) 0.13 8-18 >999 240 7.0 Lumber DOL 1.25 BC 0.73 Vert(CT) -0.26 8-18 >999 180 0.0 * Rep Stress Incr YES WB 0.26 Horz(CT) 0.09 7 n/a n/a	7-10-12 7-10-12 7-10-12 rts (X,Y)— [3:0-4-0,0-3-0], [4:0-5-8,0-2-0], [6:0-4-0,0-3-0], [7:0-2-15,Edge] (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES 20.0 Plate Grip DOL 1.25 TC 0.68 Vert(LL) 0.13 8-18 >999 240 MT20 7.0 Lumber DOL 1.25 BC 0.73 Vert(CT) -0.26 8-18 >999 180 0.0 * Rep Stress Incr YES WB 0.26 Horz(CT) 0.09 7 n/a n/a

BRACING-

WEBS

TOP CHORD

LUMBER-

REACTIONS.

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

BOT CHORD

Max Horz 2=115(LC 9) Max Uplift 2=-273(LC 12), 7=-244(LC 13)

Max Grav 2=1267(LC 1), 7=1182(LC 1)

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

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

2-3=-2143/1122, 3-4=-1498/880, 4-5=-1260/862, 5-6=-1500/881, 6-7=-2153/1132 TOP CHORD 2-12=-887/1847, 11-12=-888/1846, 9-11=-458/1258, 8-9=-898/1857, 7-8=-898/1857 **BOT CHORD** 3-12=0/329, 3-11=-686/496, 4-11=-210/406, 5-9=-214/413, 6-9=-698/507, 6-8=0/328 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=273, 7=244.



Structural wood sheathing directly applied or 3-0-12 oc purlins.

Rigid ceiling directly applied or 5-10-6 oc bracing.

1 Row at midpt

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

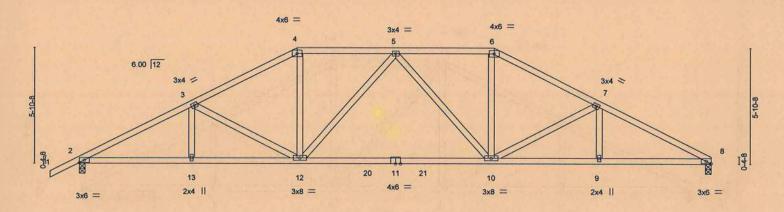
May 21,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/for 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/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty SIMQUE CONST. - JOHNS RES. T20273094 2291251 T07 Hip Job Reference (optional) Builders FirstSource 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu May 21 08:16:03 2020 Page 1 Jacksonville, FL - 32244 $ID: KjGkVDouK1eiguE1Pn?12Pzbj4X-Jcel_HvK0zZPcqxL9QpcmHQUvoCnAtlZJ7yGxWzEKpg$ 21-0-0

Scale = 1:56.2



	-	5-7-15 5-7-15	11-0-0 5-4-1		21-0-0	-		26-4-1 5-4-1	32-0-0 5-7-15	
Plate Offse	ts (X,Y)-	[8:0-2-15,Edge]			1000			0-1-1	5-1-10	A HEART OF THE
OADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.25 10-12	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC 0.90	Vert(CT)	-0.52 10-12	>732	180	the state of the s	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.09 8	n/a	n/a		
BCDL	10.0	Code FBC2017/TI	PI2014	Matrix-MS					Weight: 164 lb	FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-8-4 oc purlins. Rigid ceiling directly applied or 5-11-11 oc bracing

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

Max Horz 2=89(LC 12)

Max Uplift 8=-219(LC 13), 2=-248(LC 12) Max Grav 8=1182(LC 1), 2=1267(LC 1)

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

TOP CHORD 2-3=-2223/1140, 3-4=-1808/966, 4-5=-1566/925, 5-6=-1568/927, 6-7=-1811/969,

7-8=-2241/1156

BOT CHORD 2-13=-933/1937, 12-13=-933/1937, 10-12=-725/1695, 9-10=-950/1956, 8-9=-950/1956 WEBS

3-12=-440/351, 4-12=-225/526, 5-12=-304/149, 5-10=-302/144, 6-10=-228/529,

7-10=-458/368

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) 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 100 lb uplift at joint(s) except (jt=lb) 8=219, 2=248.



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

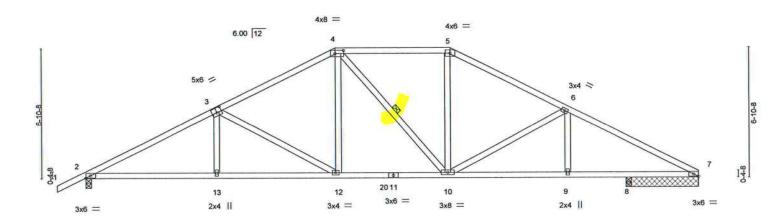
May 21,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters show, 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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type		Qty	Ply	SIMQUE CONST.		
								T20273095
2291251	T08	Hip		1	1			
						Job Reference (op	otional)	
Builders FirstSource.	Jacksonville, FL - 32244,	•		3	3.240 s Mar	9 2020 MiTek Indi	ustries, Inc. Thu May 21 08:16:04 2020	Page 1
			ID:KjG	kVDouK1	eiguE1Pn?	12Pzbj4X-noC7Bdv	wynHhGE_WXj8KrlVzdECbBvH_jYnhq7	yzEKpf
,-1-6-0 ,	6-10-2	13-0-0	19-0-0	1	2	25-1-14	32-0-0	
1-6-0	6-10-2	6-1-14	6-0-0			6-1-14	6-10-2	

Scale = 1:58.3



Dista Off	sets (X,Y)-	6-10-2 [3:0-3-0,0-3-0], [4:0-5-4,0	6-	1-14 Edgel	14.0	6-0-0			6-1-14		3-4-2 3	-6-0
LOADIN		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	20.0 7.0	Plate Grip DOL Lumber DOL	1.25	TC BC	0.52 0.76	Vert(LL) Vert(CT)	-0.12 -0.24	9-10	>999	240 180	MT20	244/190
BCLL BCDL	0.0 *	Rep Stress Incr	YES	WB	0.56 x-MS	Horz(CT)	0.08	7	n/a	n/a	Weight: 164 l	b FT = 20%

BRACING-

WEBS

TOP CHORD BOT CHORD

19-0-0

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 7=3-9-8, 2=0-3-8, 8=0-3-8

6-10-2

Max Horz 2=101(LC 12) Max Uplift 7=-189(LC 13), 2=-258(LC 12), 8=-50(LC 13) Max Grav 7=972(LC 1), 2=1240(LC 1), 8=237(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2128/1100, 3-4=-1587/896, 4-5=-1338/861, 5-6=-1569/888, 6-7=-1940/1008

2-13=-883/1842, 12-13=-882/1844, 10-12=-518/1353, 9-10=-796/1665, 8-9=-796/1665,

BOT CHORD 7-8=-796/1665

3-13=0/275, 3-12=-571/419, 4-12=-159/428, 5-10=-146/399, 6-10=-399/330 WEBS

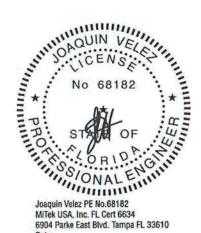
NOTES-

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) 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

13-0-0

- 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 100 lb uplift at joint(s) 8 except (jt=lb) 7=189, 2=258.



28-6-0

Structural wood sheathing directly applied or 3-7-5 oc purlins.

4-10

Rigid ceiling directly applied or 6-1-13 oc bracing.

25-1-14

1 Row at midpt

32-0-0

6904 Parke East Blvd. Tampa FL 33610

May 21,2020

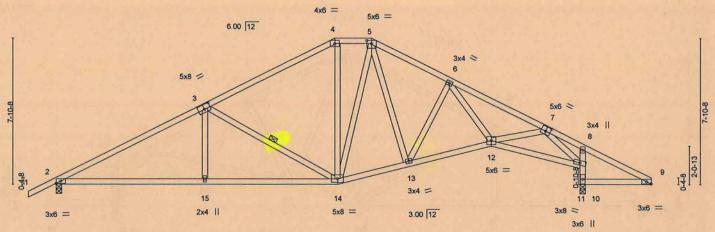
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters 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

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



Job Truss Truss Type SIMQUE CONST. - JOHNS RES. T20273096 Hip 2291251 T09 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu May 21 08:16:06 2020 Page 1 Builders FirstSource Jacksonville, FL - 32244, 8-0-0

Scale = 1:59.7



		8-0-0		15-2-0	18-10-3	23-5	-4	28-2-8	28 ₁ 6 ₁ -0 32-0-1	0
	P. C.	8-0-0		7-2-0	3-8-3	4-7-	1	4-9-4	0-3-8 3-6-0	
Plate Offse	ets (X,Y)- [3:0-4-0,0-3-0], [5:0-3-0,0	-2-0], [7:0-3-0,0	0-3-0], [9:0-2-15,Ed	ge]					
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 0.63	Vert(LL)	0.11 15-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.80	Vert(CT)	-0.22 15-18	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.09 10	n/a	n/a		
BCDL	10.0	Code FBC2017/TI	PI2014	Matrix-MS					Weight: 177 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 8-10: 2x4 SP No.3 **BOT CHORD**

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=115(LC 9)

Max Uplift 2=-251(LC 12), 10=-275(LC 13) Max Grav 2=1115(LC 1), 10=1334(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1809/922, 3-4=-1158/680, 4-5=-951/681, 5-6=-1290/773, 6-7=-1908/823,

7-8=-490/414, 8-9=-279/280

2-15=-708/1548, 14-15=-708/1553, 13-14=-275/999, 12-13=-486/1390, 11-12=-243/1002, BOT CHORD

10-11=-1299/822, 9-10=-197/273

WEBS 3-15=0/341, 3-14=-696/494, 4-14=-84/285, 5-13=-223/500, 6-13=-545/320,

6-12=-76/566, 7-12=-285/714, 7-11=-1879/1136

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) and C-C Exterior(2) zone; cantilever right exposed ;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=251, 10=275.



Structural wood sheathing directly applied or 3-6-10 oc purlins.

3-14

Rigid ceiling directly applied or 4-0-10 oc bracing.

1 Row at midpt

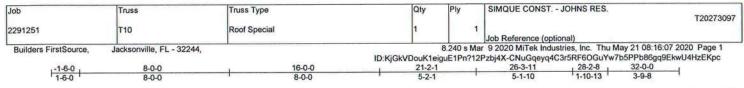
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

May 21,2020

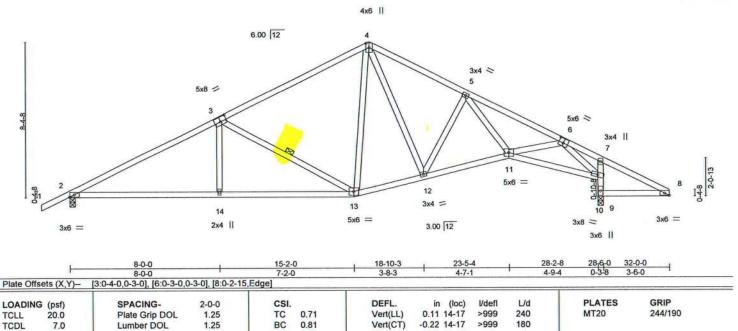
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design, Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent bucking 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





Scale = 1:59.5



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

0.09

9

1 Row at midpt

n/a

n/a

Rigid ceiling directly applied or 4-0-10 oc bracing.

Structural wood sheathing directly applied or 3-6-10 oc purlins.

LUMBER-

BCLL

BCDL

2x4 SP No.2 TOP CHORD

0.0

10.0

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

7-9: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=121(LC 9)

Max Uplift 2=-255(LC 12), 9=-281(LC 13)

Rep Stress Incr

Code FBC2017/TPI2014

Max Grav 2=1115(LC 1), 9=1334(LC 1)

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

2-3=-1812/934, 3-4=-1150/684, 4-5=-1287/784, 5-6=-1908/834, 6-7=-489/411, TOP CHORD

YES

WB

Matrix-MS

0.43

7-8=-279/279 **BOT CHORD**

2-14=-720/1553, 13-14=-720/1553, 12-13=-258/945, 11-12=-496/1392, 10-11=-245/996,

9-10=-1299/826, 8-9=-197/273

3-14=0/341, 3-13=-723/525, 4-13=-164/284, 4-12=-227/504, 5-12=-546/324, WEBS

5-11=-77/565, 6-11=-294/720, 6-10=-1874/1140

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) and C-C Exterior(2) zone; cantilever right exposed ;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.
- 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 100 lb uplift at joint(s) except (jt=lb) 2=255, 9=281.



Weight: 168 lb

FT = 20%

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May 21,2020

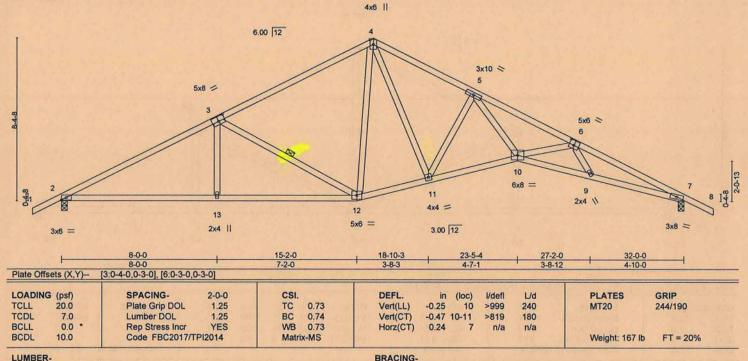
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



6904 Parke East Blvd. Tampa, FL 36610

Job Truss Truss Type Qty SIMQUE CONST. - JOHNS RES. T20273098 2291251 T11 Roof Special Job Reference (optional) **Builders FirstSource** Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu May 21 08:16:08 2020 Page 1 ID:KjGkVDouK1eiguE1Pn?12Pzbj4X-gaSe1_zSrVBijbqJy_PnTL7GupyLr2QISOf1cjzEKpb 33-6-0 8-0-0 32-0-0 8-0-0

Scale = 1:57.0



TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

7-10: 2x4 SP M 31

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 7=0-3-8 Max Horz 2=118(LC 11)

Max Uplift 2=-277(LC 12), 7=-277(LC 13)

Max Grav 2=1265(LC 1), 7=1265(LC 1)

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

2-3=-2141/1127, 3-4=-1483/880, 4-5=-1840/1103, 5-6=-3631/1834, 6-7=-3934/1980 TOP CHORD

BOT CHORD 2-13=-848/1846, 12-13=-848/1845, 11-12=-407/1261, 10-11=-935/2214, 9-10=-1737/3594,

7-9=-1689/3555

WEBS 3-13=0/339, 3-12=-720/522, 4-11=-515/1012, 5-11=-1215/707, 5-10=-859/1908,

6-10=-318/309

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) 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) 7 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 100 lb uplift at joint(s) except (jt=lb) 2=277, 7=277.



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

3-12

Rigid ceiling directly applied or 5-10-11 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:

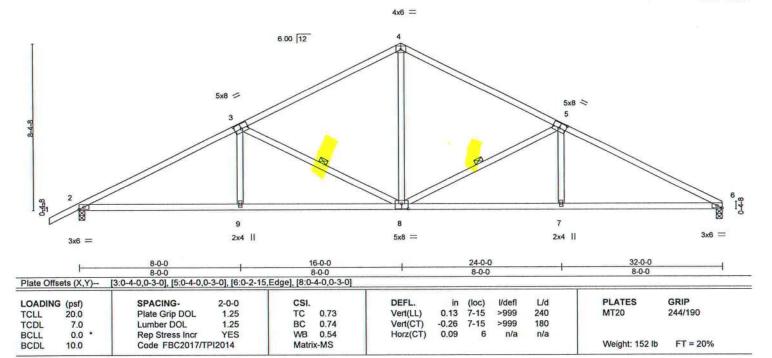
May 21,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Brancing individual to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent bucking 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST JOHNS RES.	
					1	120273099
2291251	T12	Common	3	1	100 A	
	1				Job Reference (optional)	
Builders FirstSource.	Jacksonville, FL - 32244,			8.240 s Mai	9 2020 MiTek Industries, Inc. Thu May 21 08:16:09 2020	Page 1
			ID:KjGkVDouK1e	guE1Pn?12	Pzbj4X-8m00EK_5cpJZKIPVWhw0?YgReDlaaYdSh2Pb8A	zEKpa
, -1-6-0	8-0-0	16-0-0		24-0-0	32-0-0	
1-6-0	8-0-0	8-0-0		8-0-0	8-0-0	- 10

Scale = 1:55.5



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) 2=0-3-8, 6=0-3-8 Max Horz 2=121(LC 9)

Max Uplift 2=-278(LC 12), 6=-249(LC 13) Max Grav 2=1267(LC 1), 6=1182(LC 1)

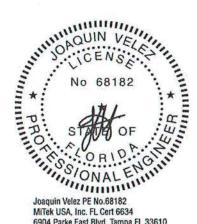
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2143/1133, 3-4=-1449/858, 4-5=-1450/859, 5-6=-2153/1142 TOP CHORD 2-9=-897/1847, 8-9=-897/1846, 7-8=-907/1858, 6-7=-907/1858 BOT CHORD 4-8=-432/816, 5-8=-754/544, 5-7=0/335, 3-8=-741/533, 3-9=0/334 WEBS

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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=278, 6=249.



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

5-8.3-8

Rigid ceiling directly applied or 5-10-3 oc bracing.

1 Row at midpt

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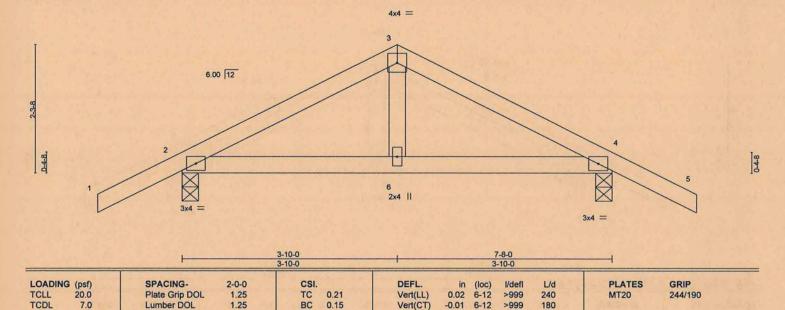
May 21,2020

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



Job Truss Truss Type SIMQUE CONST. - JOHNS RES. T20273100 2291251 T13 COMMON Job Reference (optional) **Builders FirstSource** Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu May 21 08:16:10 2020 Page 1 ID:KjGkVDouK1eiguE1Pn?12Pzbj4X-cyZPSg?jN7RPyv_h4ORFYmDkUdn4J7Hbwi88gczEKpZ

Scale = 1:19.8



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

n/a

Rigid ceiling directly applied or 9-7-14 oc bracing.

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

Weight: 32 lb

FT = 20%

n/a

LUMBER-

BCLL

BCDL

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

0.0 *

10.0

REACTIONS.

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

Max Horz 2=-56(LC 13) Max Uplift 2=-159(LC 12), 4=-159(LC 13) Max Grav 2=365(LC 1), 4=365(LC 1)

Rep Stress Incr

Code FBC2017/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-350/534, 3-4=-350/534

BOT CHORD 2-6=-356/277, 4-6=-356/277

3-6=-260/163 WEBS

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

WB 0.06

Matrix-MS

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

YES

- 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 100 lb uplift at joint(s) except (it=lb) 2=159, 4=159.



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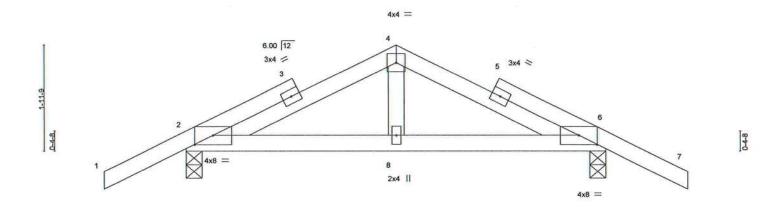
May 21,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters 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/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST JOHNS RES		
2291251	T13G	KINGPOST	1	1			T20273101
2201201	1100	Tantor our	*		Job Reference (optional)		
Builders FirstSource,	Jacksonville, FL - 32244,				r 9 2020 MiTek Industries, Inc. Th		
			ID:KJGkVDouk	1eiguE1Pi	n?12Pzbj4X-497nf00L8QZGa3Ztd6	byU5zlu51/w2alk9M	uhD2zEKpY
T	-1-6-0	3-10-0	- 1		7-8-0	9-2-0	4
r	1-6-0	3-10-0	1		3-10-0	1-6-0	1

Scale = 1:20.4



		—		3-10-0 3-10-0					7-8-0		1	
Plate Offs	ets (X,Y)-	[2:0-4-0,0-2-1], [6:0-4-0,0	-2-1]	_								
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	0.28	Vert(LL)	0.02	8-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	8	>999	180		
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2017/T	YES PI2014	WB Matri	0.05 x-MS	Horz(CT)	-0.00	6	n/a	n/a	Weight: 36 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3

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

Max Horz 2=49(LC 12)

Max Uplift 2=-162(LC 12), 6=-162(LC 13) Max Grav 2=362(LC 1), 6=362(LC 1)

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

TOP CHORD 2-4=-310/508, 4-6=-310/506 **BOT CHORD** 2-8=-454/300, 6-8=-454/300

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
- 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 100 lb uplift at joint(s) except (jt=lb) 2=162, 6=162.



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

Rigid ceiling directly applied or 8-7-10 oc bracing.

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May 21,2020

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

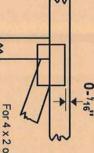


Symbols

PLATE LOCATION AND ORIENTATION



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



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

œ

0

G

required direction of slots in connector plates This symbol indicates the

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

PLATE SIZE

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

LATERAL BRACING LOCATION



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

BEARING



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

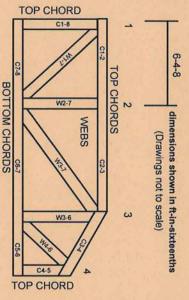
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction. **Building Component Safety Information**, Design Standard for Bracing.

DSB-89:

Connected Wood Trusses. Installing & Bracing of Metal Plate Guide to Good Practice for Handling,

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO

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

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

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

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

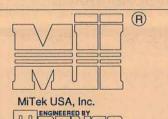
General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- 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
- 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 project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

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

MiTek USA, Inc. Page 1 of 1



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.

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)

	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				

	Nails	
WEB		SPACING
WEB		T-BRACE
Nails	Section Detail T-Brace	
	Web	
Nails		

Nails	
Web	I-Brace
Nails	

		e Size -Ply Truss			
	Specified Continuous Rows of Lateral Braci				
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.

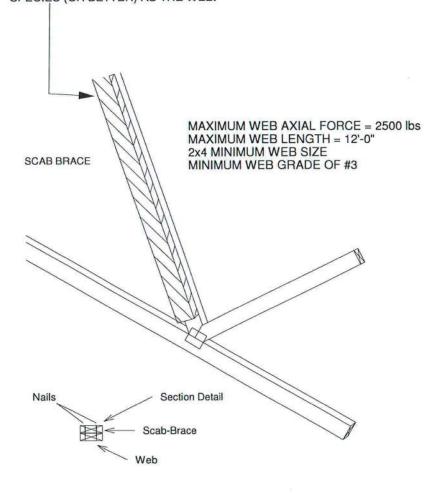
Page 1 of 1



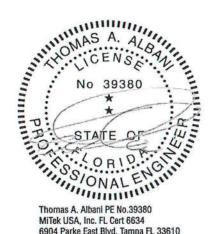
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical. Scab must cover full length of web +/- 6".

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

APPLY 2x___SCAB TO ONE FACE OF WEB WITH 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.

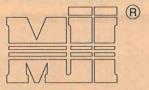


Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc. ENGINEERED BY

- 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.

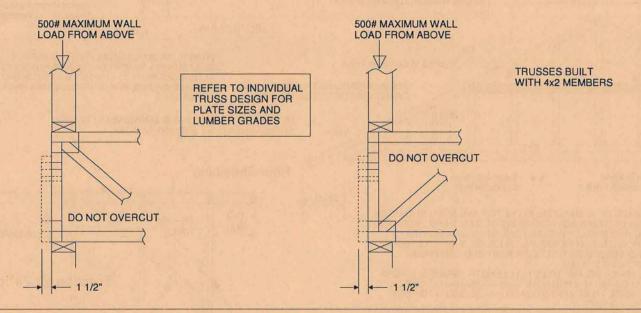
 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

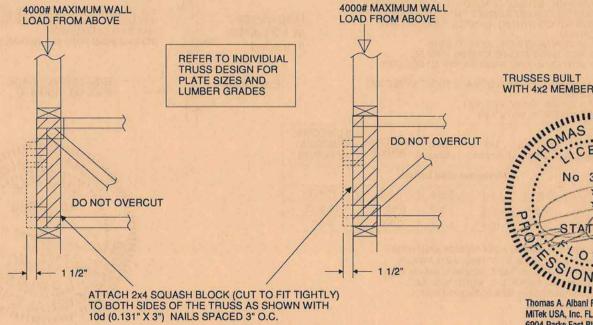
 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.

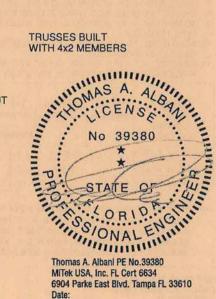
 4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.

 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.







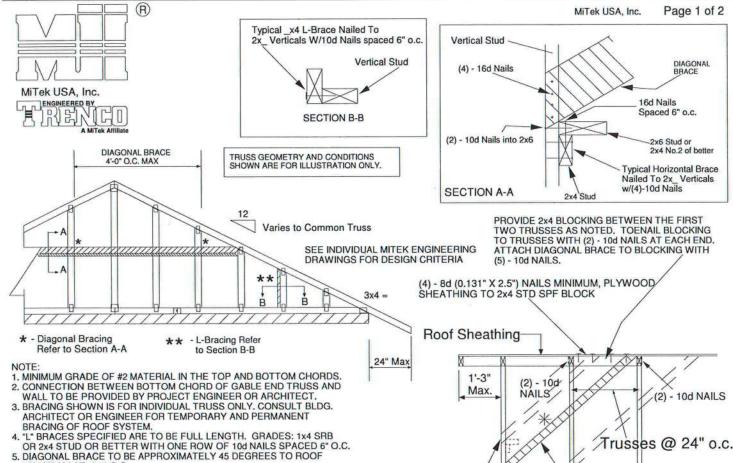
6904 Parke East Blvd. Tampa FL 33610 Date:

Standard Gable End Detail

MII-GE130-D-SP

Page 1 of 2

DIAGONAL



Diag. Brace at 1/3 points

End Wall

if needed

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 THROUGH 2x4.

(REFER TO SECTION A-A)

7. GABLE STUD DEFLECTION MEETS OR 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

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 Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS				
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.

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.



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

HORIZONTAL BRACE

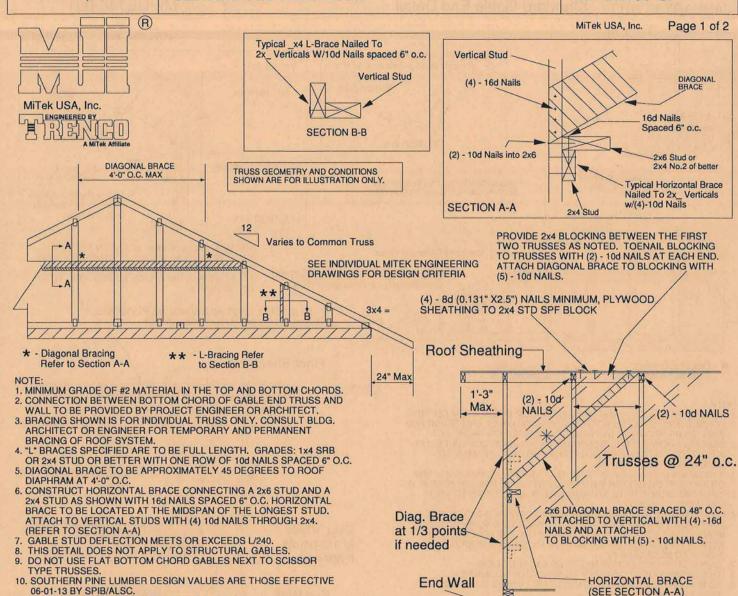
(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

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

Standard Gable End Detail

MII-GE130-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			Maximu			
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2v4 SP No. 3 / Stud	16" O.C	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1

3-1-12

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 diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

3-0-10

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

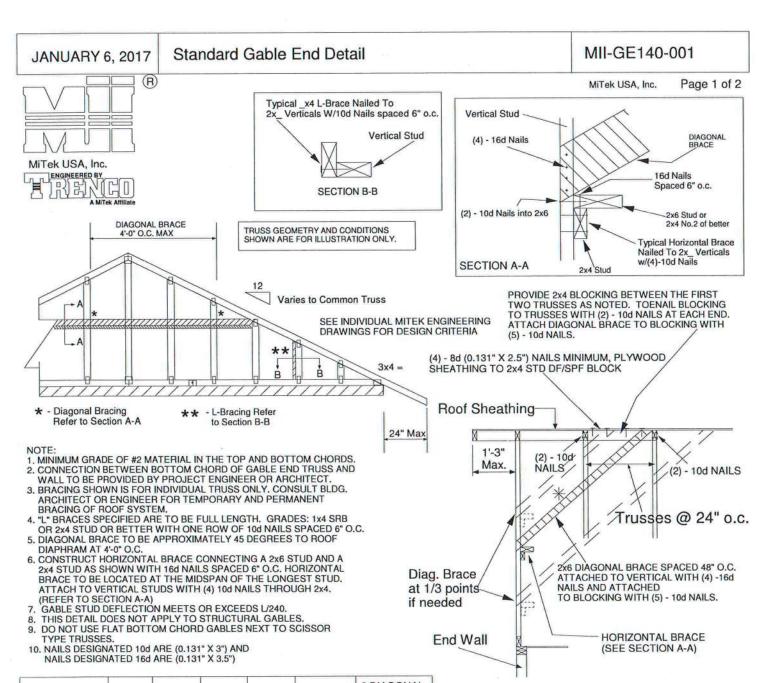
MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING **EXPOSURE B or C** ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH **DURATION OF LOAD INCREASE: 1.60**

2x4 SP No. 3 / Stud 24" O.C.

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

9-1-15





Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		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.



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

January 19, 2018

MiTek USA, Inc. ENGINEERED BY

R

DIAGONAL BRACE

Standard Gable End Detail

Typical 2x4 L-Brace Nailed To 2x4 Verticals W/10d Nails spaced 6" o.c.

SECTION B-B

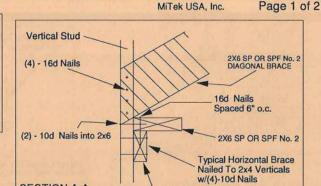
TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

**

B

Varies to Common Truss

MII-GE170-D-SP



MiTek USA, Inc.

SEE INDIVIDUAL MITEK ENGINEERING

24" Max

3x4 =

Vertical Stud

SECTION A-A

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

2X4 SP OR SPF No. 2

(5) - 10d NAILS.

- 10d

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

Roof Sheathing

- Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

NOTE

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.

 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.

BRACING OF ROOF SYSTEM.

4. "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

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")

and the same	-		V
	1'-0" Max.	(2) NA	- 10 ILS
Diag. Brad at 1/3 poil if needed	cents		24()
End V	Wall	X Y	_

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

(2) - 10d NAILS

Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
	MR.Way	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.

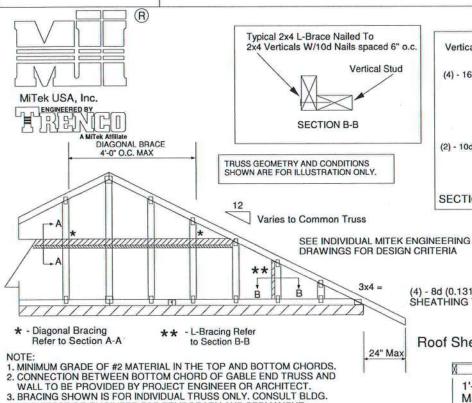
No 39380

PO STATE OF THE STATE

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

Standard Gable End Detail

MII-GE180-D-SP



Page 1 of 2 MiTek USA, Inc. Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 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

1'-0" Max.

- 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)

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT 4. "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)
7. GABLE STUD DEFLECTION MEETS OR 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. 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")

BRACING OF ROOF SYSTEM.

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.	3-7-12	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 attached to both edges. Faster I and Toraces to harlow e 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

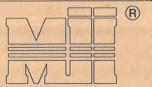
DURATION OF LOAD INCREASE: 1.60

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



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

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc. ENGINEERED BY

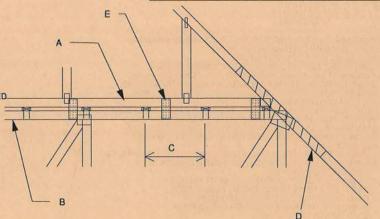
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C

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.

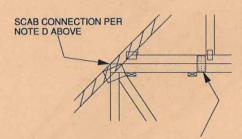
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) (0.131" X 3.5") TOE-NAILED.

B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
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 3X8 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 REQ. REGARDLESS OF SPAN)

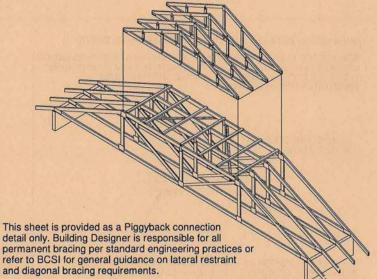


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

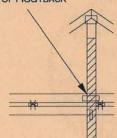
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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.)

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

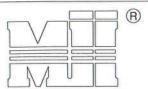
THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT 7-10



MiTek USA, Inc.



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

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

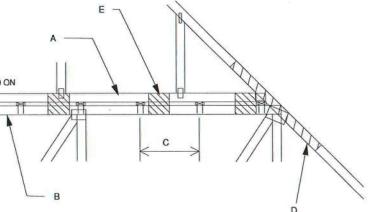
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

E - FOR WIND 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)

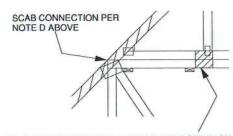
MiTek USA, Inc. Page 1 of 1 MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING **EXPOSURE B or C DURATION OF LOAD INCREASE: 1.60**

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



WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

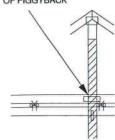
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



 $7^{\rm u}$ x $7^{\rm u}$ x $1/2^{\rm u}$ PLYWOOD (or $7/16^{\rm u}$ 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)

This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

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 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.



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

January 19, 2018

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

MII-REP01A1

MiTek USA, Inc.

Page 1 of 1

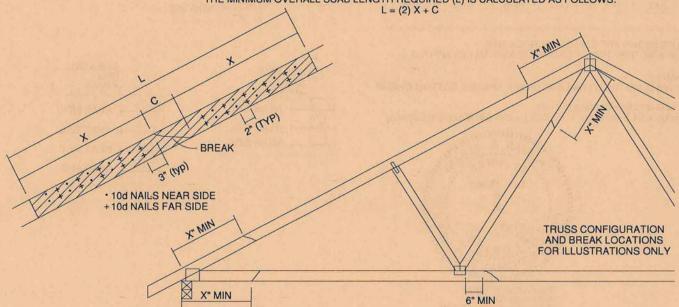


	JMBER OF		MAXIMUM FORCE (lbs) 15% LOAD DURATION								
NAILS EACH SIDE OF BREAK *	X	SP		DF		SPF		HF			
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6	
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028	
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608	
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187	
38	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.

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

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

 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ORIENTATION ONLY.

 6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



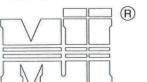
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LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

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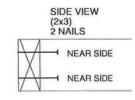
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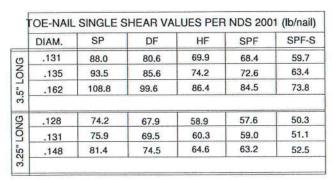
NOTES:

- 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





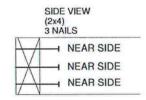
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

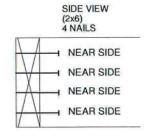
EXAMPLE:

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

For load duration increase of 1.15:

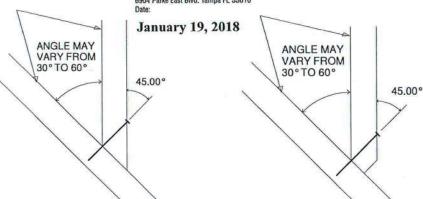
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

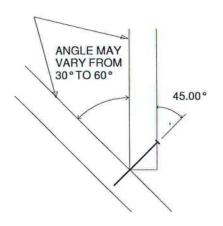






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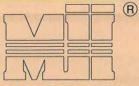


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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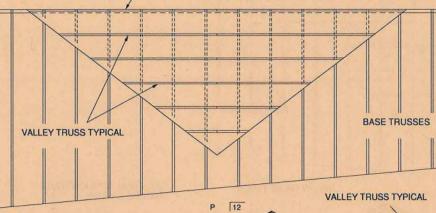
GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
 DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.

 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.

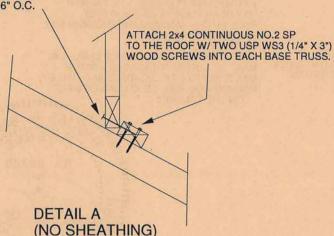
 6. NAILING DONE PER NDS 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



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

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

N.T.S.



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



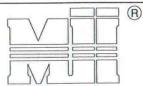
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TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

MiTek USA, Inc.

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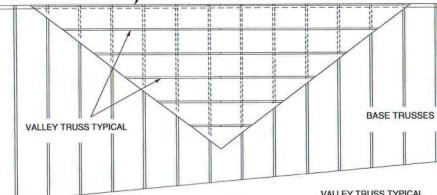


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GABLE END, COMMON TRUSS OR GIRDER TRUSS

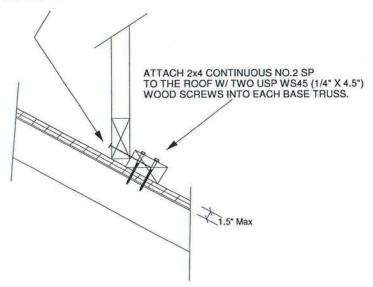
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT 3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
- 4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
- SECURE TO BASE TRUSSES AS PER DETAIL A
- 5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 6. NAILING DONE PER NDS-01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



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

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



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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February 12, 2018

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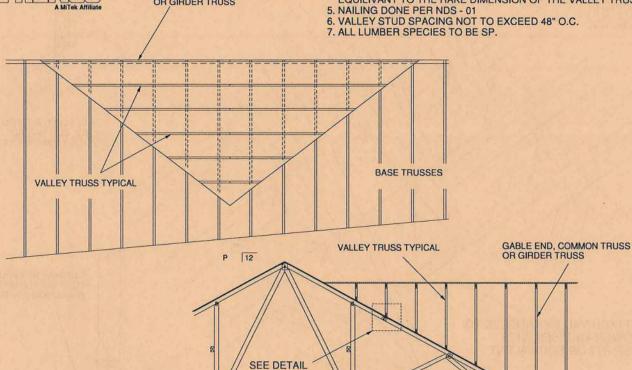
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GENERAL SPECIFICATIONS

- NAIL SIZE 16d (0.131" X 3.5")
 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.

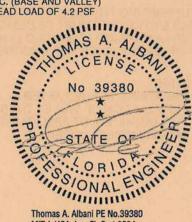


A BELOW (TYP.)

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

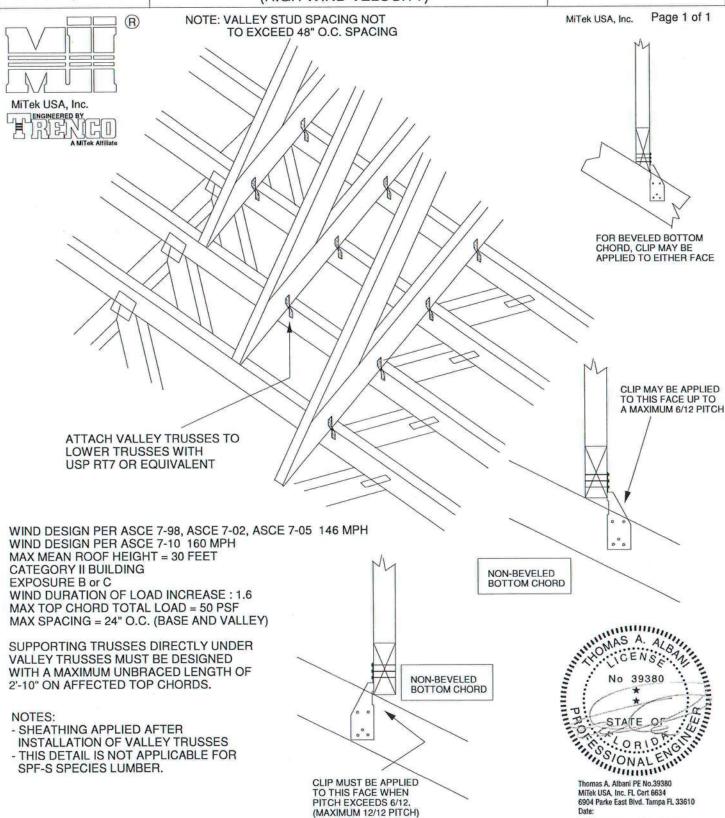


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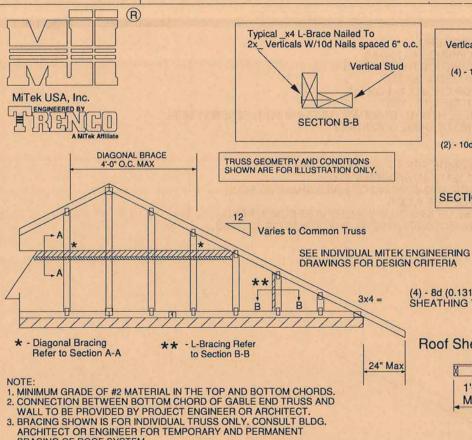
TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

MII-VALLEY

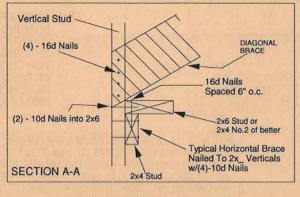


Standard Gable End Detail

MII-GE146-001



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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 SP BLOCK

Roof Sheathing

- BRACING OF ROOF SYSTEM.

 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES:

 2x4 No 3/STUD SP 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 CONSTRUCT HORIZONTAL BHACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BHACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL 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.

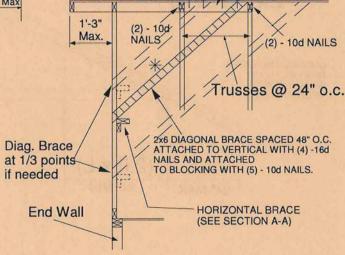
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONA BRACES A 1/3 POINTS			
and Grade	Mala I	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.





6904 Parke East Blvd. Tampa FL 33610 Date:

OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

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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.

SCAB CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED $(2.0 \times L)$ 24" MAX

IMPORTANT

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



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

February 12, 2018

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

February 12, 2018

MiTek USA, Inc.

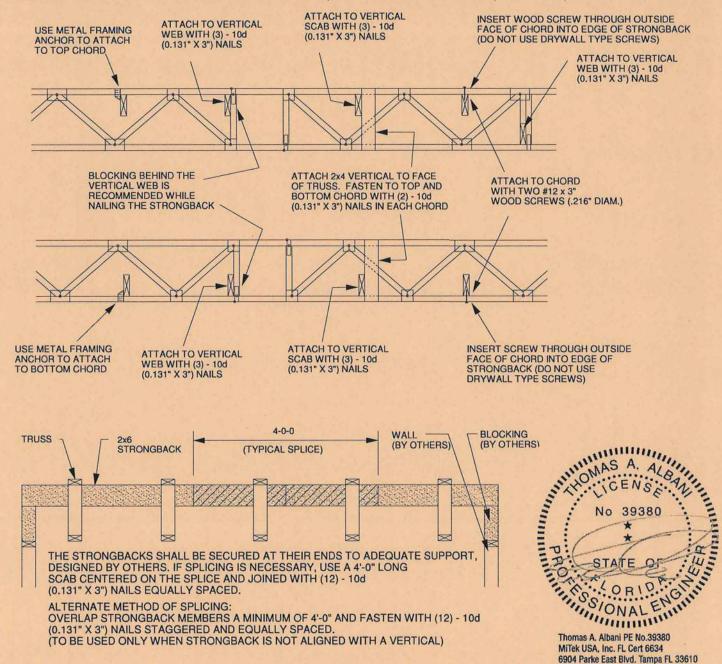
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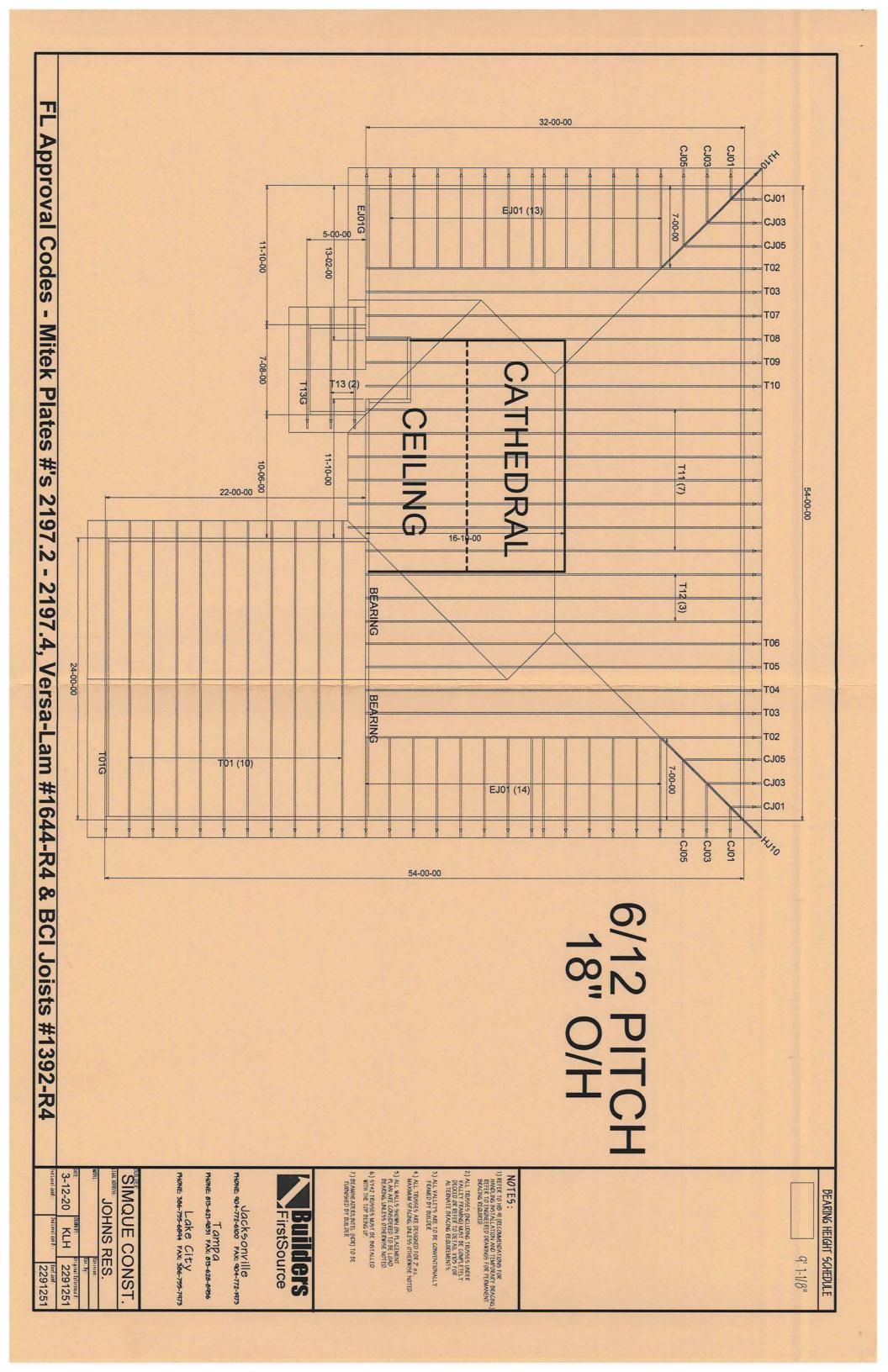


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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.





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