MiTek

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

RE: 3761058 - SIMQUE - RAULERSON RES.

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Customer Info: AARON SIMQUE HOMES Project Name: Raulerson Res. Model: Gustona 1200

Lot/Block: N/A Subdivision: N/A

Address: TBD, TBD

City: Columbia Cty

Site Information:

State: FL

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

Name:

License #:

Address:

City:

State:

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

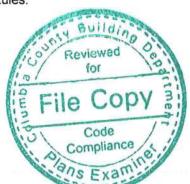
Design Code: FBC2023/TPI2014

Wind Code: N/A Roof Load: 37.0 psf Design Program: MiTek 20/20 8.7

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

This package includes 41 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No. 1 2 3 4 5 6 7 8 9 10 1 1 2 3 1 4	Seal# T32259156 T32259157 T32259159 T32259160 T32259161 T32259163 T32259164 T32259166 T32259166 T32259166 T32259167 T32259168 T32259168	Truss Name CJ01 EJ01 HJ03 PB01 PB01G PB02 PB03 PB03G PB04 PB04 PB05 T01 T01G T02 T03	Date 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23	No. 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Seal# T32259170 T32259171 T32259172 T32259173 T32259175 T32259177 T32259177 T32259178 T32259179 T32259180 T32259181 T32259182 T32259183	Truss Name T04 T05G T06 T06G T07 T08 T09 T10 T11 T12 T13 T14 T15 T16	Date 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23
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This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

Truss Design Engineer's Name: ORegan, Philip My license renewal date for the state of Florida is February 28, 2025.

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



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

December 5,2023

MiTek®

RE: 3761058 - SIMQUE - RAULERSON RES.

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Lot/Block: N/A Address: TBD, TBD

City: Columbia Cty

Customer Info: AARON SIMQUE HOMES Project Name: Raulerson Res. Model: Custom

Subdivision: N/A

State: FL

No. Seal# 29 T32259184 30 T32259185 31 T32259186 32 T32259187 33 T32259188 34 T32259190 36 T32259191 37 T32259192 38 T32259194 40 T32259196 41 T32259196	T18 T19 T19G T20G T21G T21G T21G T22 T23 T23G	Date 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23 12/5/23
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Job Truss Truss Type Qty Ply SIMOUE - RAULERSON RES T32259156 3761058 CJ01 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:16 2023 Page 1 $ID: F4qHUKBI9OMzFnx3FUq?qnyCQ4I-v0VvXpQ4_vP2JeRn9yksJnYOxaqPFJ7mxyhXTXyCLx5\\$ 1-6-0

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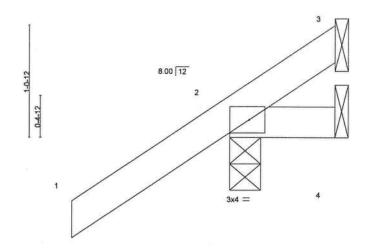


Plate Offsets (X,Y)-- [2:Edge,0-1-8] LOADING (psf) SPACING-2-0-0 CSI DEFL in (loc) I/defl L/d PLATES GRIP 20.0 Plate Grip DOL TCLL 1.25 TC 0.21 Vert(LL) 0.00 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.06 Vert(CT) 0.00 >999 180 0.0 BCLL Rep Stress Incr YES WB 0.00 0.00 Horz(CT) 2 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MP FT = 20% Weight: 6 lb

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 1-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

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

Max Horz 2=58(LC 12)

Max Uplift 3=-5(LC 1), 2=-81(LC 12), 4=-20(LC 1)

Max Grav 3=8(LC 8), 2=179(LC 1), 4=24(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

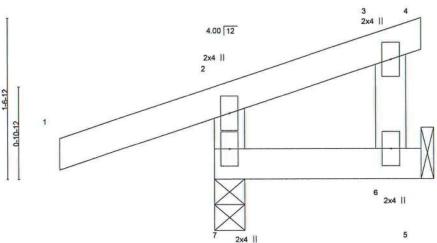
Philip J. O'Regan PE No. S\$126 MITek Inc. DBA MITek USA FI, Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Orteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



SIMQUE - RAULERSON RES. Job Truss Truss Type Qty T32259157 6 3761058 EJ01 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:16 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-v0VvXpQ4_vP2JeRn9yksJnYOmaqpFJumxyhXTXyCLx5 1-6-0 Scale = 1:10.7



LOADING (psf) GRIP DEFL. PLATES SPACING-2-0-0 CSI. in I/defl Ľd (loc) 240 244/190 20.0 Plate Grip DOL 1.25 Vert(LL) -0.00 >999 MT20 TCLL TC 0.22 1.25 BC 0.03 Vert(CT) -0.00 >999 180 TCDL 7.0 Lumber DOL WB 0.02 Horz(CT) 0.00 n/a n/a BCLL 0.0 Rep Stress Incr YES Weight: 11 lb FT = 20% Code FBC2023/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 WEBS

2x4 SP No.3

(size) 7=0-3-8, 5=Mechanical

Max Horz 7=41(LC 8)

Max Uplift 7=-109(LC 8), 5=-17(LC 12) Max Grav 7=196(LC 1), 5=40(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb)

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

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

except end verticals.

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

December 5,2023

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Job Truss Truss Type Qty SIMQUE - RAULERSON RES. T32259158 3761058 **HJ03** Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:17 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-NC2Hk9QiIDXvxo0zjfG5r?4Y8_8S_mNvAcQ5?zyCLx4

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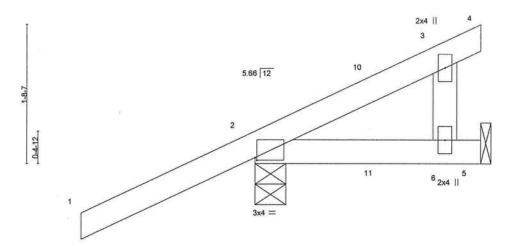


Plate Offsets (X,Y)-- [2:0-0-4,0-0-6] LOADING (psf) SPACING-DEFL 2-0-0 CSI (loc) I/defl 1/4 **PLATES** GRIP Plate Grip DOL TCLL 20.0 1.25 TC 0.30 Vert(LL) 0.01 6-9 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.13 Vert(CT) -0.016-9 >999 180 0.0 * Rep Stress Incr WB 0.00 BCLL NO Horz(CT) 0.00 2 n/a n/a Code FBC2023/TPI2014 FT = 20% BCDL 10.0 Matrix-MP Weight: 14 lb

LUMBER-

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

BOT CHORD

2x4 SP No.3 WEBS

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-9-3 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD**

REACTIONS.

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

Max Horz 2=82(LC 28)

Max Uplift 2=-120(LC 8), 5=-87(LC 17) Max Grav 2=259(LC 1), 5=104(LC 32)

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

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=120.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 69 lb up at 1-6-1, and 65 lb down and 69 lb up at 1-6-1 on top chord, and 23 lb down and 43 lb up at 1-6-1, and 23 lb down and 43 lb up at 1-6-1 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: 1-3=-54, 3-4=-54, 5-7=-20

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

December 5,2023

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



T32259159 17 3761058 PB01 Piggyback Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:18 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-rPcgyVRLWWfmZybAHNnKOCdl?OWzjDG2PGAeXQyCLx3 6-0-0 Scale = 1:14.0 4x4 = 3 8.00 12 0-4-7 0,1-10 6 2x4 = 2x4 = 2x4 || PLATES GRIP LOADING (psf) DEFL. (loc) I/defl SPACING-2-0-0 CSI. in Vert(LL) 0.00 120 MT20 244/190 Plate Grip DOL 1.25 TC 0.11 n/r TCLL 20.0 1.25 0.05 Vert(CT) 0.00 n/r 120 BC Lumber DOL TCDL 7.0 Horz(CT) 0.00 n/a 0.0 Rep Stress Incr YES WB 0.02 4 n/a BCLL Code FBC2023/TPI2014 Weight: 19 lb FT = 20%BCDL 10.0 LUMBER-**BRACING-**Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD 2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** 2x4 SP No.3 OTHERS

Qty

SIMOUE - RAULERSON RES

REACTIONS.

Job

(size) 2=4-5-12, 4=4-5-12, 6=4-5-12

Max Horz 2=-45(LC 10)

Truss

Truss Type

Max Uplift 2=-45(LC 12), 4=-51(LC 13), 6=-15(LC 12) Max Grav 2=117(LC 1), 4=117(LC 1), 6=149(LC 1)

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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) Gable requires continuous bottom chord bearing.

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) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by ORegan, Phillip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regau PE No.58126 MITok Inc. DBA MITok USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty SIMQUE - RAULERSON RES. Ply T32259160 3761058 PB01G GABLE Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:19 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-KbA29rSzHqndA6AMr4IZxQAxUnsXSgdCewyC3syCLx2 Scale = 1:10.3 4x4 = 3 8.00 12 -7-13 2 0-4-7 0-4-7 0-1-10 6 2x4 = 2x4 || 2x4 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl **PLATES** GRIP L/d (loc) 1.25 TCLL 20.0 Plate Grip DOL TC Vert(LL) 0.00 0.06 120 MT20 244/190 n/r TCDL 7.0 Lumber DOL 1.25 BC 0.03 Vert(CT) 0.00 n/r 120 BCLL 0.0 Rep Stress Incr WB 0.02 0.00 YES Horz(CT) n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-P Weight: 15 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-11-6 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3 REACTIONS. (size) 2=3-5-2, 4=3-5-2, 6=3-5-2

Max Horz 2=-36(LC 10)

Max Uplift 2=-39(LC 12), 4=-43(LC 13), 6=-10(LC 12) Max Grav 2=97(LC 1), 4=97(LC 1), 6=112(LC 1)

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.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) 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, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regan PE No. S8126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Dates

December 5,2023

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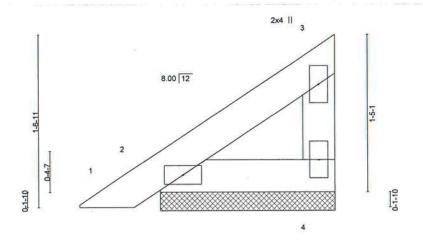
 Job
 Truss
 Truss Type
 Qty
 Ply
 SIMQUE - RAULERSON RES.
 T32259161

 3761058
 PB02
 Piggyback
 2
 1
 Job Reference (optional)

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8,730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:20 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-onkQNBTb28vUoGIYOopoTdi6IBBvB77LsaflclyCLx1

Scale = 1:9.9



2x4 =

2x4 ||

)		2-4-0						
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	0.03	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.02	Vert(CT)	0.00	1	n/r	120	V200WW0929	
BCLL	0.0	Rep Stress Incr YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matr	ix-P	Vinacian devision					Weight: 8 lb	FT = 20%

2-4-0

LUMBER-

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

TOP CHORD

Structural wood sheathing directly applied or 2-4-0 oc purlins,

except end verticals.

BOT CHORD

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

REACTIONS.

(size) 4=1-6-14, 2=1-6-14

Max Horz 2=48(LC 12)

Max Uplift 4=-28(LC 12), 2=-18(LC 12) Max Grav 4=53(LC 19), 2=83(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

3) Gable requires continuous bottom chord bearing.

- 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) 4, 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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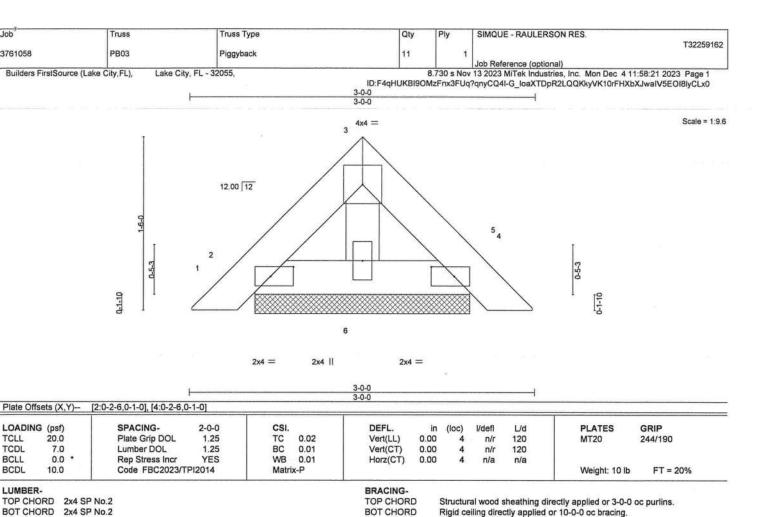
Philip J. O'Regau PE No. 58126 MITek Inc. DEA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chenterfield, MO 63017 Date:

December 5,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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REACTIONS.

TCLL

TCDL

BCLL

BCDL

Job

3761058

BOT CHORD 2x4 SP No.3 WEBS

(size) 2=1-10-6, 4=1-10-6, 6=1-10-6

Max Horz 2=-32(LC 10)

Max Uplift 2=-23(LC 12), 4=-27(LC 13)

Max Grav 2=62(LC 1), 4=62(LC 1), 6=54(LC 3)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 2-9-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 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) 2, 4.
- B) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Ceet 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

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SIMOUE - RAULERSON RES Truss Type Qty Job Truss T32259163 PIGGYBACK 3761058 PB03G Job Reference (optional) 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:22 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-kAsAosUralAC12vxWDrGY2oSP?\W11ceKu8sgByCLx? Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Scale = 1:7.5 3x6 = 12.00 12 1-1-1 2 0-5-3 0-5-3

2x4 =

2x4 =

2-2-2

				18752714227		The territory		1000000000	22.0	* * *		0010
OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	Vdefl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.01	Vert(LL)	-0.00	4	n/r	120	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	-0.00	4	n/r	120	100000000000000000000000000000000000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-P						Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 2=1-0-8, 4=1-0-8

0-1-10

Max Horz 2=-22(LC 10)

Max Uplift 2=-18(LC 12), 4=-18(LC 13) Max Grav 2=57(LC 1), 4=57(LC 1)

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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-1-1 to 1-11-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Gable requires continuous bottom chord bearing.

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) 2, 4.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

Phillp J. O'Regan PE No. S\$126 MITek Inc. DBA MITek USA FL Cert 6654 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Type SIMQUE - RAULERSON RES Truss Qty Ply T32259164 3761058 **PB04** 3 Piggyback Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:23 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-CMQZ?CVTL3I3fjU74wMV5GKdzPDoOUnnYYtPCdyCLx_ Scale = 1:9.6 4x4 = 3 12.00 12 9-5-0 0-5-3 0-1-10 5 2x4 11 2x4 = 2x4 = [2:0-2-6,0-1-0], [4:0-2-7,0-1-0] Plate Offsets (X,Y)-LOADING (psf) SPACING-2-0-0 CSI DEFL in I/defi L/d PLATES GRIP (loc) Plate Grip DOL TCLL 20.0 1.25 TC 0.03 Vert(LL) 0.00 120 244/190 n/r MT20 BC TCDL 7.0 Lumber DOL 1.25 0.01 0.00 Vert(CT) n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.01 0.00 Horz(CT) n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-P Weight: 9 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins.

BOT CHORD 2x4 SP No.2 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

(size) 4=1-10-6, 2=1-10-6, 5=1-10-6 Max Horz 2=29(LC 9)

Max Uplift 4=-15(LC 13), 2=-23(LC 12), 5=-2(LC 12) Max Grav 4=40(LC 1), 2=63(LC 1), 5=54(LC 3)

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

WEBS REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 2-5-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 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) 4, 2, 5.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regau PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16035 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

December 5,2023

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SIMOUF - RAULERSON RES. Truss Type Qty Ply Job Truss T32259165 3761058 PR05 Piggyback 2 Job Reference (optional) 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:24 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-gZzxCYW56MQvHt3JdeukeTtowoZ57x4xnCdzk4yCLwz Scale = 1:96 4x4 = 3 12.00 12 4 1-6-0 2 0-5-6 0-5-3 0-1-10 5 2x4 = 2x4 || 2x4 = Plate Offsets (X,Y)-[2:0-2-6,0-1-0], [4:0-2-7,0-1-0] PLATES GRIP DEFL l/defl L/d SPACING-2-0-0 LOADING (psf) 244/190 Plate Grip DOL TC 0.01 Vert(LL) 0.00 n/r 120 MT20 20.0 1.25 TCLL 1.25 BC 0.00 Vert(CT) 0.00 n/r 120 7.0 Lumber DOL TCDL WB 0.00 Horz(CT) 0.00 n/a n/a 0.0 Rep Stress Incr YES BCLL FT = 20% Weight: 18 lb Code FBC2023/TPI2014 Matrix-P BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

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

(size) 4=1-10-6, 2=1-10-6, 5=1-10-6

Max Horz 2=29(LC 9)

Max Uplift 4=-15(LC 13), 2=-23(LC 12), 5=-2(LC 12) Max Grav 4=40(LC 1), 2=63(LC 1), 5=54(LC 3)

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

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to
 ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-6-0 to 2-5-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Gable requires continuous bottom chord bearing.
- 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) 4, 2, 5.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Structural wood sheathing directly applied or 2-5-0 oc purlins.

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

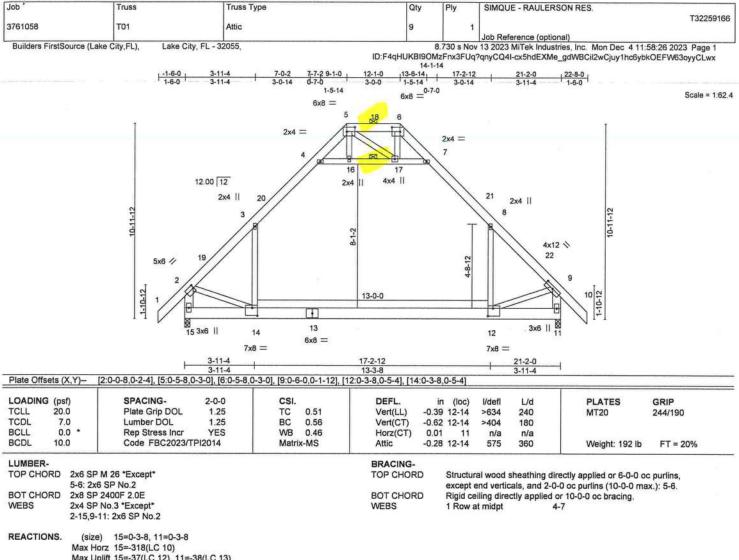
Philip J. O'Regau PE No. 58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

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Max Uplift 15=-37(LC 12), 11=-38(LC 13) Max Grav 15=1389(LC 2), 11=1389(LC 2)

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

TOP CHORD 2-3=-1542/28, 3-4=-843/146, 4-5=-88/297, 5-6=0/509, 6-7=-80/309, 7-8=-843/146,

8-9=-1541/28, 2-15=-1647/23, 9-11=-1647/23

BOT CHORD 14-15=-274/435, 12-14=0/925

WEBS 3-14=0/970, 4-16=-1269/153, 16-17=-1265/154, 7-17=-1282/156, 8-12=0/969,

2-14=-57/805, 9-12=-63/810

NOTES-

Unbalanced roof live loads have been considered for this design.

- 1) Union ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 20-11-4 to 20-11-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 16-17, 7-17; Wall dead load (5.0 psf) on member(s). 3-14, 8-12 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 11.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Attic room checked for L/360 deflection.

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Philip J. O'Regan PE No. S\$126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

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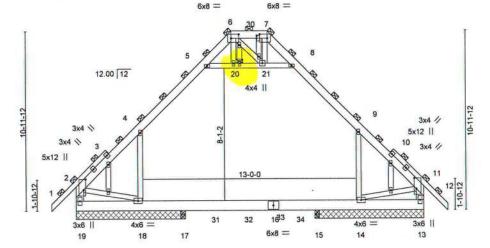
 Job
 Truss
 Truss Type
 Qty
 Ply
 SIMQUE - RAULERSON RES.
 T32259167

 3761058
 T01G
 GABLE
 1
 1
 1
 Job Reference (optional)

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:27 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-58f3raY_PHoU8LnuJmRRF6VHU0Y6KH8NTArdKOyCLww

Scale = 1:67.4



			3-11-4	2-4-12	8-6-0	2-4-		3-11-4		
Plate Offse	ets (X,Y)	[2:0-7-12,0-1-8], [6:0-5-8,0-		0-3-0], [11:0-7-12,0	-1-8], [25:0-2-0,0-0-4]					
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 0.19	Vert(LL)	-0.03 15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.04 15-17	>999	180		
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2023/TPI2	NO 2014	WB 0.11 Matrix-MS	Horz(CT) Attic	0.00 13 -0.03 15-17	n/a 3283	n/a 360	Weight: 201 lb	FT = 20%

14-10-0

BRACING-

TOP CHORD

BOT CHORD JOINTS . 17-2-12 .

21-2-0

2-0-0 oc purlins (6-0-0 max.), except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Brace at Jt(s): 2, 6, 7, 11, 20

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*

1-3,10-12: 2x4 SP No.2 2x8 SP 2400F 2.0E

BOT CHORD 2x8 SP 2400F 2.0E WEBS 2x4 SP No.3 *Except* 2-19,11-13: 2x6 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 6-7-8 except (jt=length) 17=0-3-8, 15=0-3-8.

(lb) - Max Horz 19=309(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 19, 13 except 18=-337(LC 30),

14=-335(LC 31)

Max Grav All reactions 250 lb or less at joint(s) except 19=609(LC 1), 18=364(LC 6),

3-11-4

6-4-0

14=360(LC 7), 13=609(LC 1), 17=905(LC 14), 15=905(LC 14)

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

TOP CHORD 2-4=-466/122, 4-5=-507/147, 8-9=-507/146, 9-11=-464/119, 2-19=-554/90,

11-13=-554/90

BOT CHORD 18-19=-251/269, 17-18=-81/333, 15-17=-81/333, 14-15=-81/333 WEBS 4-18=-382/282, 9-14=-379/281, 2-18=-55/309, 11-14=-63/312

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- b) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-20, 20-21, 8-21; Wall dead load (5.0 psf) on member(s). 4-18, 9-14
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 15-17, 14-15
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 13 except (it=lb) 18=337, 14=335.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

December 5,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job '	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	-00 COSUST 1-
3761058	T01G	GABLE	1	1	T32259	9167
	an appearance	1978-1989 (1982)			Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:28 2023 Page 2 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-ZKDS2wZcAbwLIUM5sTygoJ1SEQuL3kOXiqbAtryCLwv

NOTES-

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20 lb down and 24 lb up at 6-4-12, 20 lb down and 24 lb up at 8-4-12, 20 lb down and 24 lb up at 10-4-12, 20 lb down and 24 lb up at 10-9-4, and 20 lb down and 24 lb up at 12-9-4, and 20 lb down and 24 lb up at 14-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.
- 16) 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)

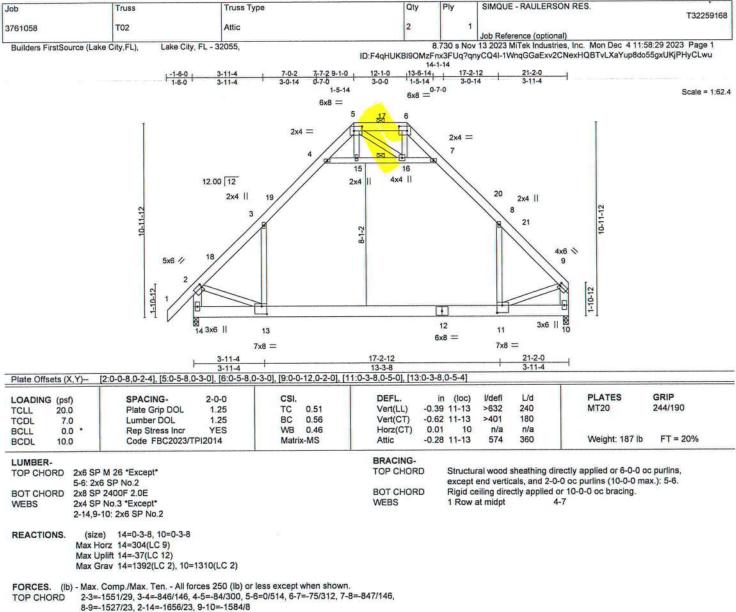
Vert: 1-2=54, 2-4=-54, 4-5=-64, 5-6=-54, 6-7=-54, 7-8=-54, 8-9=-64, 9-11=-54, 11-12=-54, 18-19=-20, 14-18=-40, 13-14=-20, 5-8=-10

Drag: 4-18=-10, 9-14=-10

Concentrated Loads (lb)

Vert: 17=1(B) 15=1(B) 31=1(B) 32=1(B) 33=1(B) 34=1(B)





BOT CHORD 13-14=-291/414, 11-13=-4/908

WEBS 3-13=0/974, 4-15=-1281/154, 15-16=-1277/155, 7-16=-1294/156, 8-11=0/938,

2-13=-58/811, 9-11=-54/850

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ff; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 20-11-4 to 20-11-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

- 6) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-15, 15-16, 7-16; Wall dead load (5.0 psf) on member(s).3-13, 8-11 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Attic room checked for L/360 deflection.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 88126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type SIMQUE - RAULERSON RES. Qty Ply T32259169 3761058 T03 Attic 3 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:30 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-VjLCTbashCA3?oWT_u_8tk7iXDZbXbZp984HxjyCLwt 7-7-2 11-4-4 6-11-0 9-1-0 11-0-8 11-6-0 1-3-4 0-8-2 1-5-14 1-11-8 0-1-12 5-7-12 0-3-12 2x4 Scale = 1:61.6 6x8 = 싪 2x4 = 4x6 = 12.00 12 2x4 || 9 10 2x4 || 0-11-12 4x8 / 1-10-12 6x8 = 7 4x6 = 11-6-0 0-1-12 5-8-8 [4:0-5-8,0-3-0], [6:0-0-0,0-0-6] Plate Offsets (X,Y)-LOADING (psf) SPACING-2-0-0 CSI. DEFL. PLATES GRIP in (loc) l/defl L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.52 Vert(LL) 0.14 >931 240 244/190 MT20 TCDL 7.0 1.25 Lumber DOL BC 0.25 Vert(CT) -0.20 >668 180 0.0 * WB BCLL Rep Stress Incr 0.26 -0.00 Horz(CT) n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS -0.05 6-7 1335 360 Weight: 127 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except*

5-6,1-8: 2x6 SP No.2

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

Max Horz 8=326(LC 12)

Max Uplift 6=-193(LC 12)

Max Grav 6=813(LC 20), 8=518(LC 2)

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

1-2=-456/236, 4-5=-119/316, 6-9=-255/156, 1-8=-388/164 BOT CHORD 7-8=-688/652

2-7=-249/322, 3-10=-260/218, 9-10=-258/219, 1-7=-456/551, 4-9=-380/243 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 11-3-4 to 11-3-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 3-10, 9-10; Wall dead load (5.0psf) on member(s).2-7
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 6-7
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.

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

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

December 5,2023

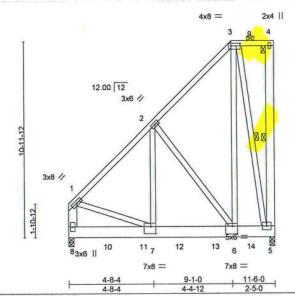
MRRNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



SIMQUE - RAULERSON RES Qty Truss Type Plv Job Truss T32259170 T04 Piggyback Base Girder 3761058 2 Job Reference (optional)
8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:32 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-R5SyuHc7DqQnE6gs5J1cy9C8j1G2?R46dSZO0cyCLwr

11-6-0 4-4-12

Scale = 1:61.6



[3:0-6-4,0-1-12], [6:0-3-8,0-5-4], [7:0-3-8,0-4-12] Plate Offsets (X,Y)-PLATES SPACING-DEFL (loc) l/defi L/d CSI LOADING (psf) MT20 244/190 Plate Grip DOL 1.25 TC 0.15 Vert(LL) -0.04 6-7 >999 240 TCLL 20.0 -0.07 >999 180 1.25 BC 0.19 Vert(CT) 6-7 TCDL 7.0 Lumber DOL WB 0.51 Horz(CT) 0.00 5 n/a n/a BCLL 0.0 Rep Stress Inci NO Weight: 282 lb FT = 20% Code FBC2023/TPI2014 Matrix-MS BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3 *Except*

4-5.1-8: 2x6 SP No.2

(size) 5=0-3-8, 8=0-3-8 Max Horz 8=323(LC 8)

Max Uplift 5=-941(LC 8), 8=-461(LC 8) Max Grav 5=3013(LC 2), 8=2582(LC 1)

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

1-2=-2108/398, 2-3=-733/143, 1-8=-1997/362 TOP CHORD **BOT CHORD** 7-8=-393/271, 6-7=-525/1435, 5-6=-161/498

2-7=-526/2097, 2-6=-1673/625, 3-6=-729/2651, 3-5=-2349/762, 1-7=-293/1344 WEBS

NOTES-

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

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

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

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

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

4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

6) 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.

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) except (jt=lb) 5=941 8=461

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

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 922 lb down and 215 lb up at 2-0-12, 922 lb down and 215 lb up at 4-0-12, 1055 lb down and 261 lb up at 6-0-12, and 1058 lb down and 266 lb up at 8-0-12, and 1058 lb down and 266 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

4-5, 3-5

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

1 Row at midpt

Philip J. O'Rogan PE No. 58126 MITek Inc. DBA MITek USA FL Cert 6634 16033 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2023

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	
3761058	T04	Piggyback Base Girder	1			T32259170
The state of the s	DESCRIPTION OF THE PROPERTY OF				Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:32 2023 Page 2 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-R5SyuHc7DqQnE6gs5J1cy9C8j1G2?R46dSZO0cyCLwr

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 10=-922(F) 11=-922(F) 12=-922(F) 13=-922(F) 14=-922(F)



Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259171
3761058	T05G	Common Supported Gable	1	1		132239171
	1000000				Job Reference (optional)	
Builders FirstSour	rce (Lake City,FL),	Lake City, FL - 32055,			13 2023 MiTek Industries, Inc. Mc	
			ID:F4qHUKBIS	OMzFnx3F	Uq?qnyCQ4I-vH0L5ddl_7YesGF2f	f1YrVNIJcRdlk?aGs6JxY2yCLwq
	-1-6-0	7-9-0	1		15-6-0	17-0-0
	1-6-0	7-9-0			7-9-0	1-6-0

Scale = 1:36.4

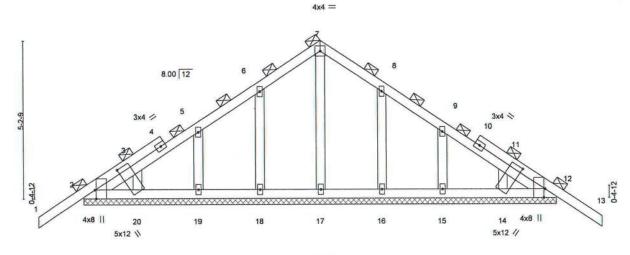


Plate Offs	sets (X	,Y)-	[2	:0-3-8,Edge], [12:0-3-8,	Edge], [14:0-1-	13,0-11-9], [20:0-1-13,0-	11-9]						
LOADING	G (psf			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		1	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL	7.0	É		Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	13	n/r	120		
BCLL				Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0			Code FBC2023/T		Matri	x-S						Weight: 89 lb	FT = 20%

15-6-0

BRACING-TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.).

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

LUMBER-

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

OTHERS 2x4 SP No.3

All bearings 15-6-0.

REACTIONS. (lb) - Max Horz 2=-144(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

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

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 20,
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regau PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917

December 5,2023

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SIMQUE - RAULERSON RES. Job Truss Truss Type Qty Ply T32259172 3761058 T06 Roof Special Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:34 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-NUajJzdNIRgVTPqEDk342aHL3qnjTG?P4m2U4UyCLwp 23-10-0 31-4-0 32-10-0

4x6 =

Scale = 1:68.3

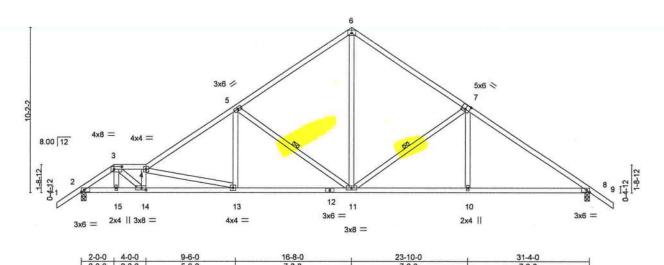


Plate Offsets	(X,Y)	[3:0-5-12,0-2-0], [7:0-3-0,	0-3-4], [8:0-2-3	,Edge], [14:0	0-3-8,0-1-8]							
LOADING (p	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.12	13-14	>999	240	MT20	244/190
TCDL 7	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.25	11-13	>999	180		
BCLL C	0.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.08	8	n/a	n/a		
BCDL 10	0.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 176 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3

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

Max Horz 2=266(LC 7)

Max Uplift 2=-394(LC 8), 8=-322(LC 9) Max Grav 2=1268(LC 1), 8=1242(LC 1)

2-0-0 4-0-0

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1849/538, 3-4=-2696/744, 4-5=-1927/494, 5-6=-1240/376, 6-7=-1242/388,

7-8=-1738/405 **BOT CHORD**

2-15=-549/1490, 14-15=-554/1493, 13-14=-864/2786, 11-13=-442/1572, 10-11=-229/1364, 8-10=-228/1367

WEBS

3-14=-372/1530, 4-14=-896/267, 4-13=-1254/436, 5-13=-75/513, 5-11=-783/385,

6-11=-249/900, 7-11=-578/318, 7-10=0/307

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=394, 8=322.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 107 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-4=-54, 4-6=-54, 6-9=-54, 16-19=-20

Concentrated Loads (lb) Vert: 15=-30(F)

December 5,2023

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31-4-0

Structural wood sheathing directly applied or 3-6-8 oc purlins.

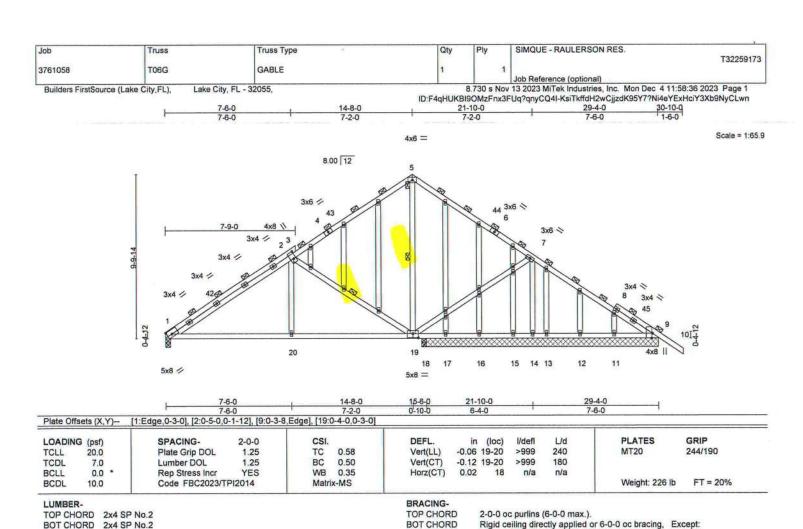
5-11, 7-11

Rigid ceiling directly applied or 6-4-7 oc bracing.

1 Row at midpt

Phillp J. O'Regan PE No.38126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63917





WEBS

10-0-0 oc bracing: 1-20,19-20.

5-19, 2-19

1 Row at midpt

REACTIONS. All bearings 14-1-8 except (jt=length) 1=0-3-8, 18=0-3-8.

(lb) - Max Horz 1=-249(LC 8)

2x4 SP No.3

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) 9, 13, 12 except 1=-145(LC 12), 14=-263(LC 13), 17=-195(LC 1),

11=-108(LC 13), 18=-233(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 9, 17, 16, 15, 13, 12, 11, 9 except 1=642(LC 1), 14=793(LC 1), 18=527(LC 1)

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

TOP CHORD 1

1-2=-825/172, 2-5=-317/161, 5-7=-326/123

BOT CHORD 1-20=-1: WEBS 7-19=-3:

1-20=-192/749, 19-20=-192/750 7-19=-35/368, 7-14=-787/273, 2-19=-628/334, 2-20=0/311

NOTES-

WEBS

OTHERS

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 18-10-15 to 30-10-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 13, 12, 9 except (jt=lb) 1=145, 14=263, 17=195, 11=108, 18=233.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No. 58126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Trus	S		Truss Type		Qty	Ply	SIMQUE - RAULERSON RES.	
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					ID	F4qHUKBI9OM	zFnx3FUq?q	nyCQ4I-GFqE8LhtpgBwy170Sa80C	QS2QSC2PAg??N0iDGyCLwl
	1-1-6-0	4-0-0	, 6-0-0	9-6-0	16-8-0		23-10-0	31-4-0	32-10-Q
	1-6-0	4-0-0	2-0-0	3-6-0	7-2-0		7-2-0	7-6-0	1-6-0

4x6 =

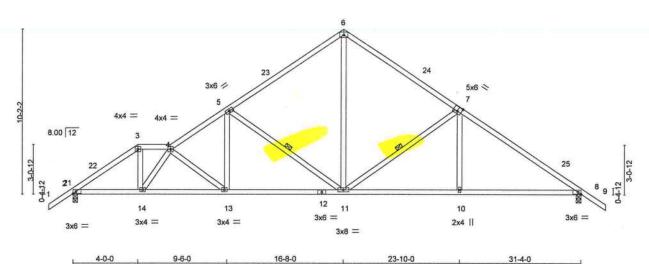
Structural wood sheathing directly applied or 3-9-12 oc purlins.

5-11, 7-11

Rigid ceiling directly applied or 7-10-11 oc bracing.

1 Row at midpt

Scale = 1:68.3



4-0-0 7-6-0 Plate Offsets (X,Y)-[7:0-3-0,0-3-4], [8:0-2-3,Edge] LOADING (psf) SPACING-DEFL 2-0-0 CSI. in (loc) I/defl L/d **PLATES** GRIP 20.0 Plate Grip DOL TCLL 1.25 TC 0.59 Vert(LL) -0.10 11-13 >999 240 MT20 244/190 7.0 1.25 BC 0.60 TCDL Lumber DOL Vert(CT) -0.22 11-13 >999 180 Rep Stress Incr WB BCLL 0.0 YES 0.44 Horz(CT) 0.07 8 n/a n/a Code FBC2023/TPI2014 BCDL 10.0 Matrix-MS Weight: 176 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=-266(LC 10)

Max Uplift 2=-334(LC 12), 8=-317(LC 13) Max Grav 2=1240(LC 1), 8=1240(LC 1)

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

TOP CHORD 2-3=-1808/441, 3-4=-1490/410, 4-5=-1865/478, 5-6=-1235/367, 6-7=-1239/380,

2-14=-445/1448, 13-14=-563/1984, 11-13=-418/1554, 10-11=-222/1361, 8-10=-222/1363

BOT CHORD 3-14=-142/813, 4-14=-888/198, 4-13=-548/184, 5-13=-75/510, 5-11=-761/363, WEBS

6-11=-237/892, 7-11=-577/317, 7-10=0/306

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C 21-1-3 to 32-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=334, 8=317.

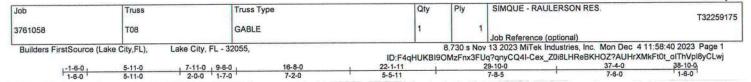
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Philip J. O'Regau PE No. 58126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfleid, MO 63017

December 5,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters and from the connectors of the saddle of the connectors of the saddle of the connectors. The saddle of the connectors of the connectors





Scale = 1:70.5 5x6 = 5x8 = 51 3x6 > 3x6 % 8 4x4 > 5x6 = a 8.00 12 3x4 > 3x4 > 10 52 54 53 17 15 14 19 18 16 5x8 > 4x4 = 3x6 = 3x4 = 5x6 = 3x8 = 3x4 = 3x4 = 3x6 = 31-0-8| 37-4-0 6-1-12 3-7-0

												5-00000000
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L∕d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.16	13-15	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.32	13-15	>999	180	0.000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.05	13	n/a	n/a	00.000 -00.000	
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS	timilal in order of the					Weight: 322 lb	FT = 20%

LUMBER-

OTHERS

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

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

TOP CHORD **BOT CHORD** WEBS

2-0-0 oc purlins (3-10-10 max.).

Rigid ceiling directly applied or 6-0-0 oc bracing. 5-16. 7-15

1 Row at midpt

REACTIONS.

(size) 2=0-3-8, 11=0-3-8, 13=0-3-8

Max Horz 2=-268(LC 10)

Max Uplift 2=-320(LC 12), 11=-115(LC 27), 13=-383(LC 13) Max Grav 2=1265(LC 19), 11=86(LC 26), 13=1891(LC 2)

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

2-3=-1766/405, 3-4=-1436/397, 4-5=-1802/417, 5-6=-1178/309, 6-7=-904/326, TOP CHORD

7-9=-971/257, 9-11=-174/641

2-19=-389/1549, 18-19=-418/1801, 16-18=-396/1694, 15-16=-88/764, 11-13=-458/227 **BOT CHORD**

3-19=-71/718, 4-19=-615/92, 4-18=-339/60, 5-18=-10/513, 5-16=-893/367, WEBS

6-16=-70/386, 7-16=-172/459, 9-15=-117/828, 9-13=-1639/437

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 27-5-1 to 38-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=320, 11=115, 13=383.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

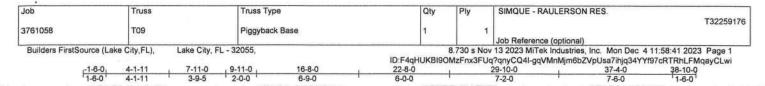
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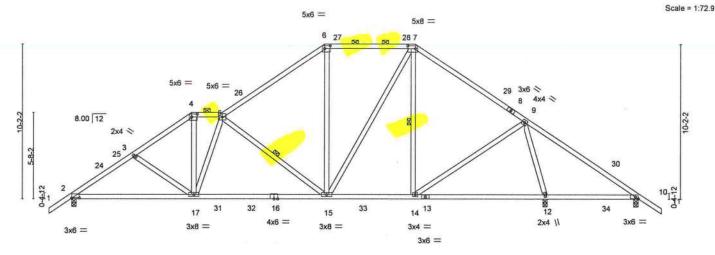
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 8634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

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







- 3	7-11-0		10-0-0		22-0-0			31-2-4		37-4-0	1
	7-11-0		8-9-0		6-0-0			8-6-4		6-1-12	1
sets (X,Y)	[2:0-6-0,0-0-4], [4:0-4-4,0	-2-4], [6:0-4-4,	0-2-4], [7:0-6	-4,0-2-4], [10):0-2-3,Edge]						2007
G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.08 1	12-23	>962	240	MT20	244/190
7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.34 1	15-17	>999	180	1100000000	
0.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.05	12	n/a	n/a		
10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 226 lb	FT = 20%
	G (psf) 20.0 7.0 0.0	7-11-0 Sets (X,Y)- [2:0-6-0,0-0-4], [4:0-4-4,0] (psf) SPACING- 20.0 Plate Grip DOL 1.0 Lumber DOL 0.0 Rep Stress Incr	7-11-0 7-11-0	7-11-0 8-9-0 sets (X,Y)- [2:0-6-0,0-0-4], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-6 (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 7.0 Lumber DOL 1.25 BC 0.0 * Rep Stress Incr YES WB	7-11-0 8-9-0 Sets (X,Y)- [2:0-6-0,0-0-4], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-6-4,0-2-4], [10 SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.66 7.0 Lumber DOL 1.25 BC 0.83 0.0 * Rep Stress Incr YES WB 0.82	7-11-0 8-9-0 6-0-0 sets (X,Y)— [2:0-6-0,0-0-4], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-6-4,0-2-4], [10:0-2-3,Edge] 3 (psf) SPACING- 2-0-0 CSI. DEFL. 20.0 Plate Grip DOL 1.25 TC 0.66 Vert(LL) 7.0 Lumber DOL 1.25 BC 0.83 Vert(CT) 0.0 Rep Stress Incr YES WB 0.82 Horz(CT)	7-11-0 8-9-0 6-0-0 sets (X,Y)— [2:0-6-0,0-0-4], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-6-4,0-2-4], [10:0-2-3,Edge] 3 (psf) SPACING- 2-0-0 CSI. DEFL. in 20.0 Plate Grip DOL 1.25 TC 0.66 Vert(LL) 0.08 7.0 Lumber DOL 1.25 BC 0.83 Vert(CT) -0.34 10.0 * Rep Stress Incr YES WB 0.82 Horz(CT) 0.05	7-11-0 8-9-0 6-0-0 sets (X,Y)— [2:0-6-0,0-0-4], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-6-4,0-2-4], [10:0-2-3,Edge] 3 (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.25 TC 0.66 Vert(LL) 0.08 12-23 7.0 Lumber DOL 1.25 BC 0.83 Vert(CT) -0.34 15-17 0.0 * Rep Stress Incr YES WB 0.82 Horz(CT) 0.05 12	7-11-0 8-9-0 6-0-0 8-6-4 sets (X,Y)— [2:0-6-0,0-0-4], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-6-4,0-2-4], [10:0-2-3,Edge] 3 (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl 20.0 Plate Grip DOL 1.25 TC 0.66 Vert(LL) 0.08 12-23 >962 7.0 Lumber DOL 1.25 BC 0.83 Vert(CT) -0.34 15-17 >999 0.0 * Rep Stress Incr YES WB 0.82 Horz(CT) 0.05 12 n/a	7-11-0 8-9-0 6-0-0 8-6-4 sets (X,Y)— [2:0-6-0,0-0-4], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-6-4,0-2-4], [10:0-2-3,Edge] 3 (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d 20.0 Plate Grip DOL 1.25 TC 0.66 Vert(LL) 0.08 12-23 >962 240 7.0 Lumber DOL 1.25 BC 0.83 Vert(CT) -0.34 15-17 >999 180 0.0 * Rep Stress Incr YES WB 0.82 Horz(CT) 0.05 12 n/a n/a	7-11-0 8-9-0 6-0-0 8-6-4 6-1-12 sets (X,Y)— [2:0-6-0,0-0-4], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [10:0-2-3,Edge] 3 (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES 20.0 Plate Grip DOL 1.25 TC 0.66 Vert(LL) 0.08 12-23 >962 240 MT20 7.0 Lumber DOL 1.25 BC 0.83 Vert(CT) -0.34 15-17 >999 180 0.0 * Rep Stress Incr YES WB 0.82 Horz(CT) 0.05 12 n/a n/a

22-8-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 2=0-3-8, 12=0-3-8, 10=0-3-8

7-11-0

Max Horz 2=-267(LC 10)

Max Uplift 2=-326(LC 12), 12=-282(LC 12), 10=-134(LC 8) Max Grav 2=1300(LC 19), 12=1784(LC 2), 10=209(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1865/451, 3-4=-1718/405, 4-5=-1404/379, 5-6=-1232/339, 6-7=-963/342,

7-9=-991/301, 9-10=-72/468

BOT CHORD 2-17=-459/1678, 15-17=-369/1622, 14-15=-91/767, 10-12=-292/115 WEBS

4-17=-180/836, 5-17=-448/163, 5-15=-795/334, 6-15=-73/399, 7-15=-170/510,

9-14=-128/777, 9-12=-1516/328

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 27-11-6 to 38-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

16-8-0

- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=326, 12=282, 10=134.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Structural wood sheathing directly applied or 4-0-1 oc purlins, except

5-15, 7-14

2-0-0 oc purlins (4-9-15 max.): 4-5, 6-7.

1 Row at midpt

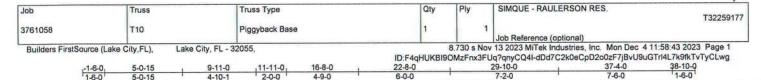
Rigid ceiling directly applied or 6-0-0 oc bracing.

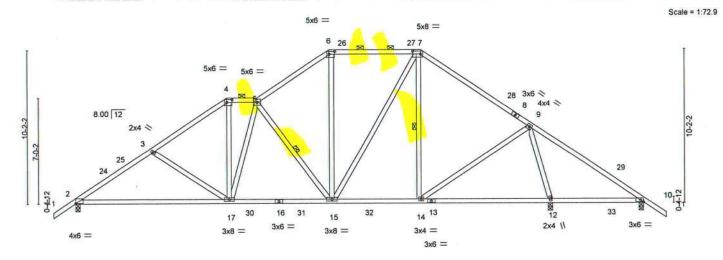
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Dates

December 5,2023

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







	30	9-11-0	1	16-8-	0	22-8-0	1.0		31-2-4		37-4-0	_1
	1	9-11-0		6-9-0		6-0-0	- 1		8-6-4		6-1-12	1
Plate Offse	ets (X,Y)-	[2:0-0-0,0-0-0], [4:0-4-4,0	-2-4], [6:0-4-4,0	0-2-4], [7:0-6	-4,0-2-4], [10	:0-2-3,Edge]						
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	0.64	Vert(LL)	0.08	12-23	>964	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.43	17-20	>869	180	The state of the s	
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.05	12	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 231 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD WEBS

except

1 Row at midpt

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 2=0-3-8, 12=0-3-8, 10=0-3-8

Max Horz 2=-267(LC 10)

Max Uplift 2=-327(LC 12), 12=-278(LC 12), 10=-130(LC 8) Max Grav 2=1310(LC 19), 12=1762(LC 2), 10=221(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1810/451, 3-4=-1608/389, 4-5=-1291/375, 5-6=-1204/359, 6-7=-965/343,

TOP CHORD 7-9=-1010/303, 9-10=-66/429

2-17=-448/1640, 15-17=-278/1414, 14-15=-91/783, 10-12=-261/110 BOT CHORD

3-17=-338/221, 4-17=-119/717, 5-17=-254/117, 5-15=-722/296, 6-15=-97/432, WEBS

7-15=-164/472, 9-14=-127/766, 9-12=-1497/323

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 27-11-6 to 38-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=327, 12=278, 10=130.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Structural wood sheathing directly applied or 3-10-1 oc purlins,

5-15, 7-14

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

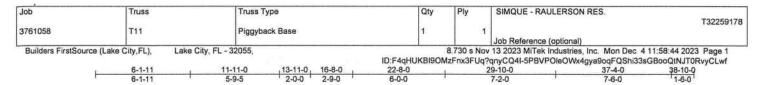
Rigid ceiling directly applied or 6-0-0 oc bracing.

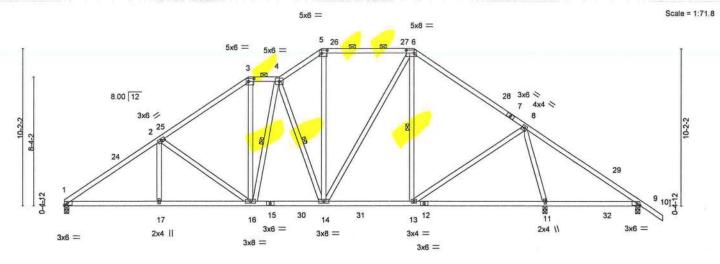
Philip J. O'Regau PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

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		6-1-11	5-9-5	4-9		6-0-0			8-6-4		6-1-12	
Plate Offs	sets (X,Y)	[3:0-4-4,0-2-4], [5:0-4-4,0	-2-4], [6:0-6-4,0	0-2-4], [9:0-2-3	B,Edge]							
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	0.64	Vert(LL)	0.08 1	1-23	>964	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.22 1	1-13	>999	180	WAY ON WHAT	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matrix-	MS						Weight: 240 lb	FT = 20%

22-8-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

31-2-4

2-0-0 oc purlins (5-4-3 max.): 3-4, 5-6.

1 Row at midpt

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

37-4-0

Structural wood sheathing directly applied or 4-0-1 oc purlins, except

4-16, 4-14, 6-13

16-8-0

LUMBER-

REACTIONS.

BOT CHORD

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

2x4 SP No.3

(size) 1=0-3-8, 11=0-3-8, 9=0-3-8

Max Horz 1=-259(LC 8)

6-1-11

Max Uplift 1=-290(LC 12), 11=-270(LC 12), 9=-131(LC 8) Max Grav 1=1230(LC 19), 11=1756(LC 2), 9=222(LC 26)

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

TOP CHORD

1-2=-1877/440, 2-3=-1441/383, 3-4=-1141/374, 4-5=-1159/371, 5-6=-963/340, 6-8=-1012/304 8-9=-53/420

11-11-0

1-17=-426/1659, 16-17=-426/1659, 14-16=-206/1206, 13-14=-94/784, 9-11=-255/99 2-17=0/254, 2-16=-565/262, 3-16=-106/567, 4-14=-667/294, 5-14=-118/451,

6-14=-161/458, 8-13=-124/763, 8-11=-1492/315

NOTES.

WEBS

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 27-11-6 to 38-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=290, 11=270, 9=131.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

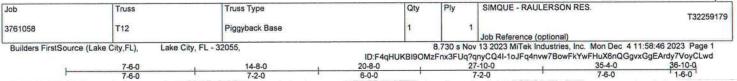
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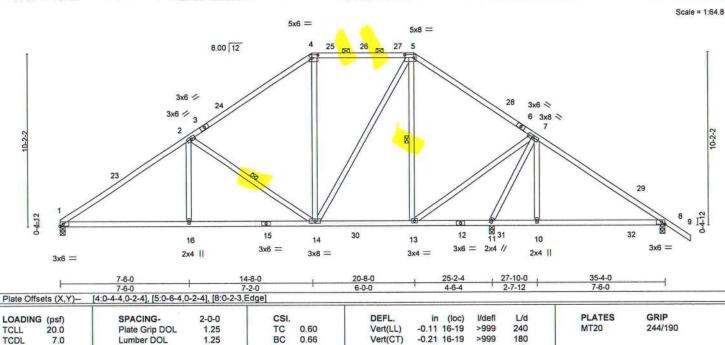
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16923 Swingley Ridge Rd, Chesterfield, MO 63017

December 5,2023

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LUMBER-

BCLL

BCDL

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

0.0

10.0

BRACING-TOP CHORD

WEBS

Horz(CT)

0.03

11

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

Weight: 210 lb

FT = 20%

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

n/a

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing 1 Row at midpt 2-14, 5-13

n/a

REACTIONS.

(size) 1=0-3-8, 11=0-3-8, 8=0-3-8

Rep Stress Incr

Code FBC2023/TPI2014

Max Horz 1=-259(LC 8)

Max Uplift 1=-262(LC 12), 11=-254(LC 13), 8=-189(LC 13) Max Grav 1=1061(LC 19), 11=1322(LC 2), 8=555(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-1470/377, 2-4=-934/303, 4-5=-696/318, 5-7=-672/243, 7-8=-505/222 TOP CHORD

1-16=-356/1347, 14-16=-356/1347, 13-14=-92/523, 11-13=-313/143, 10-11=-84/358, **BOT CHORD**

2-16=0/321, 2-14=-716/327, 5-14=-181/528, 5-13=-391/122, 7-13=-161/978,

YES

WB

0.92

Matrix-MS

7-10=-153/266, 7-11=-1417/395

NOTES-

WEBS

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 25-7-15 to 36-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=262, 11=254, 8=189,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

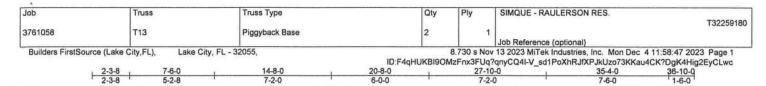
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Philip J. O'Regan PE No. S8126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

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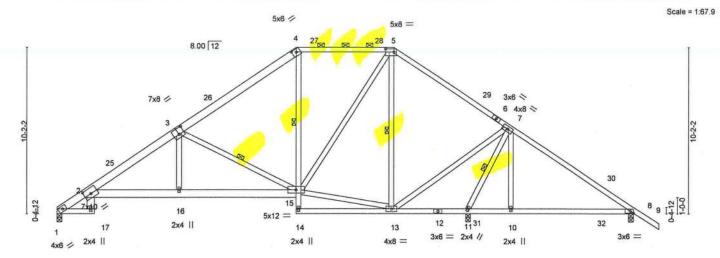


Plate Offse	ets (X,	2-3-6 Y) [5-2-8 2:0-5-0,0-4-0], [3:0-4-0,0		'-2-0 0-2-3], [5:0-6-	-4,0-2-4], [8:	6-0-0 0-2-3,Edge]	4-	6-4	2-7-	12 '	7-6-0	
LOADING	(psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0		Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.14	2-16	>999	240	MT20	244/190
TCDL	7.0		Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.27	2-16	>999	180	2000000000	
BCLL	0.0	*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.16	11	n/a	n/a		
BCDL	10.0		Code FBC2023/TI	PI2014	Matrix	c-MS	ALLEGA AND CONTRACTOR OF THE PARTY OF THE PA					Weight: 242 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

20-8-0

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

2-3-8

3-4: 2x6 SP No.2, 1-3: 2x6 SP M 26

BOT CHORD 2x4 SP No.2 *Except*

2-17,2-15: 2x6 SP No.2, 4-14: 2x4 SP No.3

7-6-0

WEBS 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 11=0-3-8, 8=0-3-8

Max Horz 1=-256(LC 10)

Max Uplift 1=-192(LC 12), 11=-373(LC 12), 8=-259(LC 8) Max Grav 1=832(LC 1), 11=1629(LC 1), 8=369(LC 26)

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

TOP CHORD 2-21=-572/251, 2-3=-1419/340, 3-4=-717/222, 4-5=-487/230, 5-7=-364/220,

7-8=-193/444

BOT CHORD 2-16=-344/1216, 15-16=-345/1227, 11-13=-959/381, 10-11=-275/178, 8-10=-275/178 WEBS

3-16=0/383, 3-15=-871/404, 5-15=-193/624, 5-13=-711/200, 7-13=-315/1370,

7-11=-1793/476, 7-10=-152/268

NOTES-

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

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 25-7-15 to 36-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

14-8-0

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=192, 11=373, 8=259,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Structural wood sheathing directly applied or 6-0-0 oc purlins, except

3-15, 5-13, 7-11

Rigid ceiling directly applied or 5-11-15 oc bracing. Except:

4-15

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

1 Row at midpt

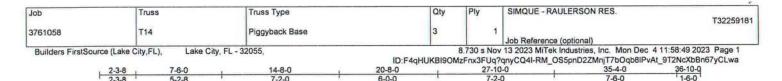
1 Row at midpt

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

December 5,2023

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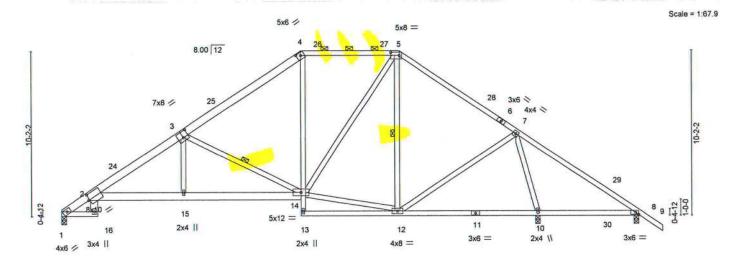


Plate Offs	sets (X,Y)	2-3-8 - [2:0-	5-2-8 -0-11,0-4-4], [3:0-4-0,		-2-0),0-2-3], [5:0-	6-4,0-2-4]	6-0-0 , [8:0-2-3,Edge]		8	3-6-4		6-1-12	
OADING	G (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0		Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.15	2-15	>999	240	MT20	244/190
CDL	7.0		Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.28	2-15	>999	180	3630001200	
CLL	0.0		Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.18	10	n/a	n/a		
BCDL	10.0		Code FBC2023/TI	PI2014	Matri	x-MS	33.CMV335C35035035					Weight: 234 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

20-8-0

29-2-4

2-0-0 oc purlins (5-11-1 max.): 4-5.

6-0-0 oc bracing: 10-12,8-10.

1 Row at midpt

35-4-0

Structural wood sheathing directly applied or 6-0-0 oc purlins, except

3-14, 5-12

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

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 *Except*

3-4: 2x6 SP No.2, 1-3: 2x6 SP M 26

BOT CHORD 2x4 SP No.2 *Except*

2-3-8

2-16: 2x6 SP No.2, 2-14: 2x6 SP M 26, 4-13: 2x4 SP No.3

7-6-0

WEBS 2x4 SP No.3

(size) 1=0-3-8, 10=0-3-8, 8=0-3-8

Max Horz 1=-256(LC 10) Max Uplift 1=-237(LC 12), 10=-365(LC 12), 8=-294(LC 10) Max Grav 1=995(LC 1), 10=1789(LC 1), 8=84(LC 12)

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

2-20=-670/264, 2-3=-1803/447, 3-4=-1040/270, 4-5=-758/289, 5-7=-724/266, TOP CHORD

7-8=-220/823

2-15=-431/1521, 14-15=-433/1536, 4-14=-60/277, 8-10=-573/238 BOT CHORD WEBS

3-15=-16/427, 3-14=-926/420, 12-14=-41/452, 5-14=-177/512, 5-12=-373/165,

7-12=-180/774, 7-10=-1643/410

NOTES-

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

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 25-7-15 to 36-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

14-8-0

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=237, 10=365, 8=294
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

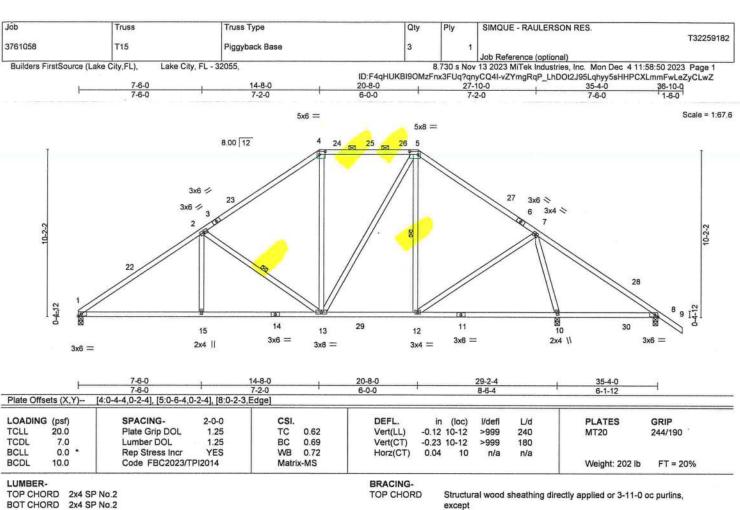
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Philip J. O'Regan PE No.58126 MITek Inc. DRA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2023

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





BOT CHORD

WEBS

2-0-0 oc purlins (5-9-2 max.): 4-5.

1 Row at midpt

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

2-13, 5-12

2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 10=0-3-8, 8=0-3-8

Max Horz 1=-259(LC 8)

Max Uplift 1=-286(LC 12), 10=-284(LC 13), 8=-136(LC 8) Max Grav 1=1164(LC 19), 10=1592(LC 2), 8=253(LC 26)

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

TOP CHORD BOT CHORD 1-2=-1666/418, 2-4=-1124/345, 4-5=-855/354, 5-7=-947/301, 7-8=-36/321

1-15=-390/1499, 13-15=-390/1499, 12-13=-93/718

WEBS

2-15=0/325, 2-13=-718/326, 4-13=-78/349, 5-13=-159/384, 7-12=-113/653,

7-10=-1322/316

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 25-7-15 to 36-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except ([t=lb] 1=286, 10=284, 8=136,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

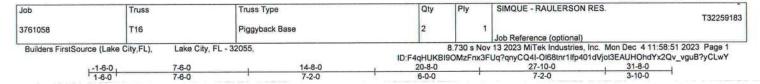
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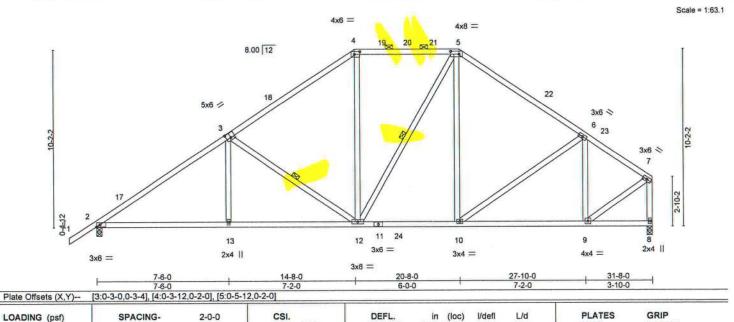
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

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Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.11 13-16

-0.20 13-16

0.06

>999

>999

1 Row at midpt

n/a

240

180

n/a

Rigid ceiling directly applied or 8-3-2 oc bracing.

Structural wood sheathing directly applied or 3-9-0 oc purlins,

3-12, 5-12

except end verticals, and 2-0-0 oc purlins (5-3-0 max.): 4-5.

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

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

7.0

0.0

10.0

2x4 SP No.2 2x4 SP No.3

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=252(LC 12)

Max Uplift 2=-341(LC 12), 8=-277(LC 13) Max Grav 2=1363(LC 19), 8=1274(LC 2)

Plate Grip DOL

Rep Stress Incr

Code FBC2023/TPI2014

Lumber DOL

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

TOP CHORD

2-3=-1884/438, 3-4=-1340/373, 4-5=-1037/377, 5-6=-1240/330, 6-7=-1064/251,

7-8=-1240/281

2-13=-476/1629, 12-13=-477/1625, 10-12=-150/956, 9-10=-180/877 **BOT CHORD**

3-13=0/320, 3-12=-698/318, 4-12=-91/467, 5-12=-134/255, 5-10=-43/286, 6-9=-442/169, WEBS

1.25

1.25

YES

TC

BC

WB

Matrix-MS

0.57

0.70

0.41

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 31-6-4 to 31-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=341, 8=277,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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244/190

FT = 20%

MT20

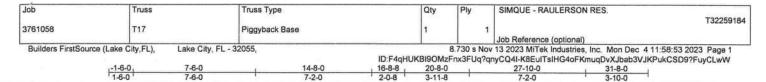
Weight: 200 lb

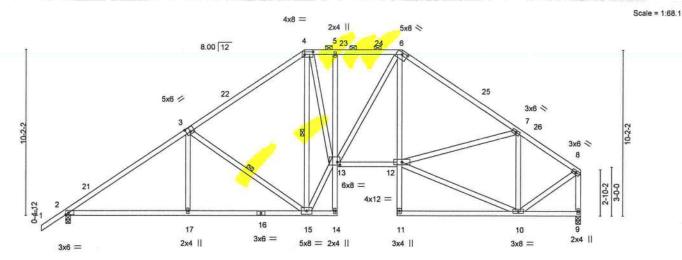
Philip J. O'Regau PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

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		7-6-0		14-8	3-0		0-4-8	1	27-	10-0	31-8-0	
		7-6-0	1:	7-2	-0	2-0-8	3-8-0		7-5	5-8	3-10-0	
Plate Offsets	s (X,Y)	[3:0-3-0,0-3-4], [4:0-6-4,0)-2-0], [6:0-4-0,	0-1-9], [13:0-	2-0,0-2-4]							
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.11	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.24	10-11	>999	180		
BCLL	0.0 .	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.17	9	n/a	n/a		
BCDL 1	0.0	Code FBC2023/T	PI2014	Matri	x-MS	2 - 1					Weight: 234 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* BOT CHORD

5-14.6-11: 2x4 SP No.3

WEBS 2x4 SP No.3

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

Max Horz 2=252(LC 12)

Max Uplift 2=-317(LC 12), 9=-247(LC 13) Max Grav 2=1249(LC 1), 9=1164(LC 1)

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

TOP CHORD 2-3=-1752/395, 3-4=-1247/330, 4-5=-1318/389, 5-6=-1328/390, 6-7=-1586/364,

7-8=-979/224, 8-9=-1148/249

2-17=-440/1379, 15-17=-441/1377, 12-13=-177/1230, 6-12=-65/376 **BOT CHORD**

WEBS 3-17=0/315, 3-15=-586/317, 4-15=-1096/226, 13-15=-341/1777, 4-13=-224/1505, 6-13=-152/302, 10-12=-174/853, 7-12=-145/438, 7-10=-762/223, 8-10=-193/985

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 31-6-4 to 31-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=317, 9=247.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

except end verticals, and 2-0-0 oc purlins (4-11-7 max.): 4-6.

3-15, 4-15

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

1 Row at midpt

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

December 5,2023

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SIMQUE - RAULERSON RES. Truss Type Qty Ply Truss Job T32259185 T18 Piggyback Base 2 3761058 Job Reference (optional) 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:54 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-oKnHVptw2aCftUL4OxQmro6nOugt8NmMhtuYoKyCLwV 17-0-0

4x4 = 3x4 = 56 × 8.00 12 5x6 / 10 11 3x6 = 2x4 II 2x4 || 3x8 = 3x6 =

Plate Off	sets (X,Y)-	[3:0-3-0,0-3-4], [4:0-2-4,0)-2-4]									
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	0.59	Vert(LL)	0.09	11-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.15	11-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS	3.1 3.18					Weight: 121 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 WEBS

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

Max Horz 2=412(LC 12)

Max Uplift 8=-281(LC 12), 2=-127(LC 12) Max Grav 8=625(LC 1), 2=704(LC 1)

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

TOP CHORD

REACTIONS.

2-3=-789/60, 3-4=-267/0, 5-8=-616/266

BOT CHORD 2-11=-322/616, 9-11=-323/613

WEBS

3-11=0/329, 3-9=-603/324, 5-9=-292/617

NOTES-

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ff; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 16-8-12 to 16-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=281, 2=127.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

5-8, 3-9, 4-9

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

Rigid ceiling directly applied or 9-11-1 oc bracing.

1 Row at midpt

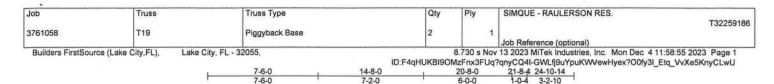
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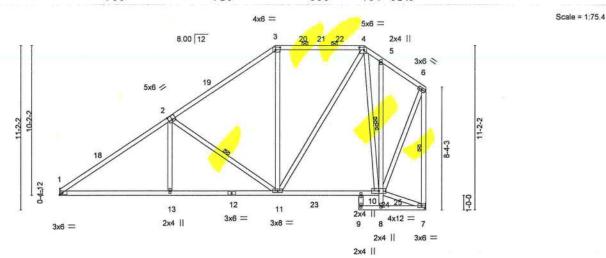
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

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1 Row at midpt

1 Row at midpt

10-0-0 oc bracing: 8-10

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

5-10

2-11, 4-10, 6-7

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

		-	7-6-0 7-6-0		7-2-0		20-4- 5-8-0		1-4-4	3-2-10		
Plate Offse	ets (X,Y)-	[2:0-3-0,0-3-4], [3:0-3-12		A STATE OF THE PARTY OF THE PAR	1-2-0		3-0-0		1-4-4	3-2-10		
LOADING	(psf)	SPACING-	2-0-0	CSI.	escare.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.12 1	0-11	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.21 1	3-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS					7,795,850	Weight: 190 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.2 *Except*

5-8: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 1=Mechanical, 7=Mechanical

Max Horz 1=318(LC 12)

Max Uplift 1=-226(LC 12), 7=-246(LC 12) Max Grav 1=1042(LC 19), 7=1078(LC 2)

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

TOP CHORD 1-2=-1427/312, 2-3=-878/239, 3-4=-649/264, 4-5=-396/158, 5-6=-426/115,

6-7=-1068/248

BOT CHORD 1-13=-471/1245, 11-13=-472/1241, 10-11=-90/379

2-13=0/312, 2-11=-703/328, 4-11=-221/595, 4-10=-476/211, 6-10=-186/855 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 24-9-2 to 24-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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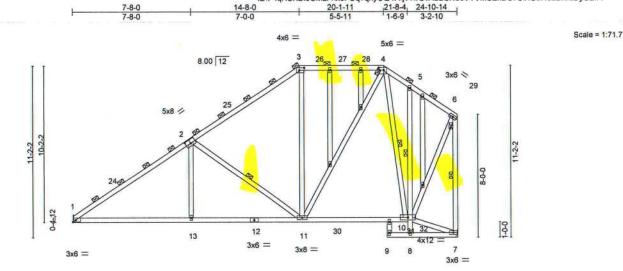
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1 Row at midpt

1 Row at midpt

10-0-0 oc bracing: 8-10

2-11, 4-10, 6-7

OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.12	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.23	13-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2023/T	712014	Matrix	-MS	M (100 - 100 M (100 M))					Weight: 211 lb	FT = 20%

WEBS

WEBS

REACTIONS.

BOT CHORD 2x4 SP No.2 *Except*

5-8: 2x4 SP No.3

2x4 SP No.3

2x4 SP No.3 **OTHERS**

(size) 1=Mechanical, 7=Mechanical

Max Horz 1=311(LC 12)

Max Uplift 1=-227(LC 12), 7=-241(LC 12) Max Grav 1=1043(LC 19), 7=1075(LC 2)

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

TOP CHORD 1-2=-1422/313, 2-3=-877/240, 3-4=-648/265, 4-5=-427/173, 5-6=-441/116,

6-7=-1064/243

BOT CHORD 1-13=-465/1243, 11-13=-465/1249, 10-11=-97/407

2-13=0/312, 2-11=-710/328, 4-11=-210/577, 4-10=-435/185, 6-10=-180/848 WEBS

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 24-9-2 to 24-9-2 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

December 5,2023

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SIMQUE - RAULERSON RES. Job Truss Truss Type Qty Ply T32259188 3761058 T20 Roof Special 2 | Job Reference (optional) 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:58 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-g51nLAwQ5pi5M6fsdnVi0eHT3W1I4F?xbUsmx5yCLwR 21-8-4 7-0-4 24-10-14 3-2-10

4x6 =



Structural wood sheathing directly applied or 4-4-1 oc purlins,

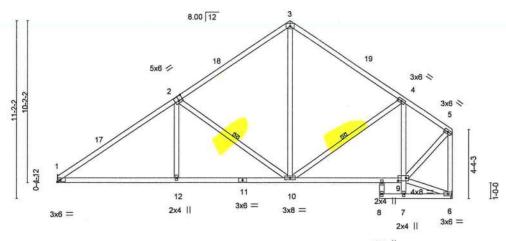
2-10, 4-10

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

except end verticals.

10-0-0 oc bracing: 7-9

1 Row at midpt



7-6-0 14-8-0 20-4-0 21-8-4 24-10-14 7-6-0 7-2-0 5-8-0 1-4-4 3-2-10

Plate Off	sets (X,Y)	[2:0-3-0,0-3-4], [9:0-6-0,0)-2-4]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.11 1	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.18 1	2-16	>999	180	77.00.03493	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 156 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.2 *Except*

4-7: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

(size) 1=Mechanical, 6=Mechanical

Max Horz 1=233(LC 9)

Max Uplift 1=-227(LC 12), 6=-195(LC 12) Max Grav 1=921(LC 1), 6=942(LC 1)

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

TOP CHORD 1-2=-1327/314, 2-3=-821/264, 3-4=-817/277, 4-5=-632/148, 5-6=-920/195

BOT CHORD 1-12=-385/1065, 10-12=-385/1062, 9-10=-117/545, 4-9=-415/160

WEBS 2-12=0/308, 2-10=-592/326, 3-10=-133/500, 5-9=-157/761

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 24-9-2 to 24-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=227, 6=195.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J, O'Regan PE No.58126 MITok Inc. DBA MITok USA FL Cert 6634 16013 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

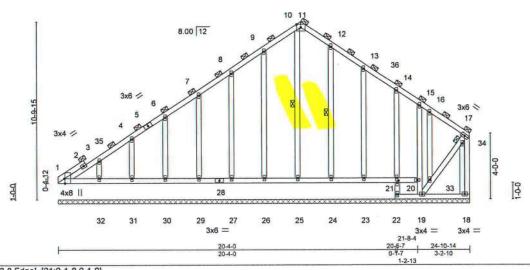
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, creation and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



SIMQUE - RAULERSON RES. Job Truss Truss Type Qty Ply T32259189 T20G GABLE 3761058 Job Reference (optional) 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:59 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-9IbAZWx3s6qyzFE2BU0xYsqmzvTBpkS5q8cJTYyCLwQ 24-10-14 14-8-0 14-8-0

5x6 =

Scale = 1:67.1



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	n/a		n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	19	n/a	n/a	000000000000000000000000000000000000000	
BCDL	10.0	Code FBC2023	/TPI2014	Matri	x-S	F2002560 (1.8 (2005) 400					Weight: 202 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 15-19: 2x4 SP No.3

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

WEBS

JOINTS

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

6-0-0 oc bracing: 19-20

1 Row at midpt 10-25, 12-24 1 Brace at Jt(s): 11, 34, 17

REACTIONS. All bearings 24-10-14.

(lb) - Max Horz 1=227(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 22, 18, 26, 27, 29, 30, 31, 32, 24 except 19=-236(LC 13),

23=-122(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 22, 18, 26, 27, 29, 30, 31, 32, 25, 24, 23 except 19=329(LC 20)

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

TOP CHORD 1-3=-253/195

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ff; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 24-7-5 to 24-9-2 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- b) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 22, 18, 26, 27, 29, 30, 31, 32, 24 except (jt=lb) 19=236, 23=122.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 26, 27, 29, 30, 31, 32, 25, 24, 23.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Rogan PE No. 58126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

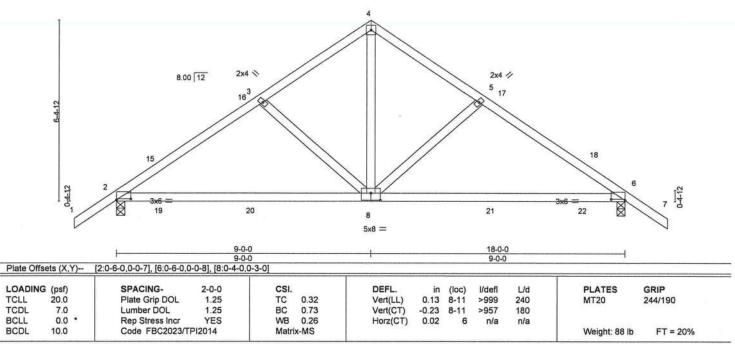
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Job Truss Truss Type Qty SIMQUE - RAULERSON RES. T32259190 3761058 T21 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:59:01 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-5gjwzCyJOk4fDZOQIv2PeHv2oj0UHcCNIS5QXQyCLwO 12-9-14 3-9-14 18-0-0 19-6-0

4x4 =

Scale = 1:39.2



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3

Max Horz 2=-173(LC 10) Max Uplift 2=-202(LC 12), 6=-202(LC 13) Max Grav 2=747(LC 1), 6=747(LC 1)

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

TOP CHORD 2-3=-879/435, 3-4=-689/417, 4-5=-689/417, 5-6=-879/435

BOT CHORD 2-8=-273/696, 6-8=-291/696

WEBS 4-8=-371/525, 5-8=-253/195, 3-8=-253/194

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

NOTES-

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 13-2-15 to 19-6-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=202, 6=202.

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

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

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

December 5,2023

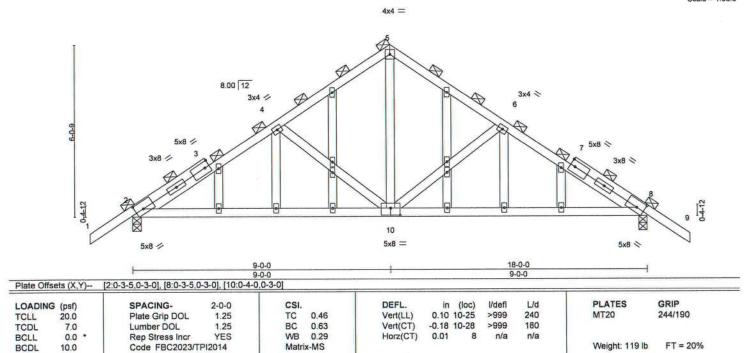
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Job Truss		Truss Type			Q	lty	Ply	SIMQUE - RAULERSON RES. T3225919			
3761058	T21G		GABLE		1		1	AND ESTABLISHED AND THE STATE OF			
THE COMMENSAGE OF	APRICAGOS CENT							Job Reference (optional)			
Builders FirstSou	rce (Lake City,FL),	Lake City, FL - 32	2055,					13 2023 MiTek Industries, Inc. Mon Dec			
					ID:F4qHUKB	8190MzFr	nx3FUq?c	nyCQ4I-ZtGIBYzx91CWqjzdscZeAUSBM7	7O8032XW6qz4tyCLwN		
	1-6-0	5-2-2	- 7	9-0-0		12-9-	14	18-0-0	19-6-0		
	1-6-0	5-2-2		3-9-14		3-9-1	14	5-2-2	1-6-0		

Scale = 1:38.8



BRACING-

TOP CHORD

BOT CHORD

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

Rigid ceiling directly applied or 9-1-10 oc bracing.

LUMBER-

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

OTHERS 2x4 SP No.3

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

Max Horz 2=-164(LC 10)

Max Uplift 2=-204(LC 12), 8=-204(LC 13) Max Grav 2=744(LC 1), 8=744(LC 1)

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

TOP CHORD 2-4=-898/572, 4-5=-701/511, 5-6=-701/511, 6-8=-898/572

2-10=-388/744, 8-10=-395/744 **BOT CHORD**

4-10=-282/253, 5-10=-459/535, 6-10=-282/253 WEBS

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.

6) Gable studs spaced at 2-0-0 oc.

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

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

December 5,2023

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Job Truss Truss Type Qty SIMQUE - RAULERSON RES. Ply T32259192 3761058 T22 Job Reference (optional) Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:59:03 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-13qgOu_ZwLKNStXpQK4tji_OjXj2lXpgImaXcJyCLwM 12-1-6 3-9-14 18-9-8 4-5-11 Scale = 1:40.1 4x4 = 8.00 12 2x4 N 2x4 // 5 18 4x4 / 0-10-Z 20 21 22 23 5x8 = 3x6 > Plate Offsets (X,Y)-[1:0-3-0,0-0-3], [6:0-1-5,0-1-8], [8:0-4-0,0-3-0] LOADING (psf) SPACING-CSI. 2-0-0 DEFL (loc) I/defi L/d PLATES GRIP 20.0 TCLL Plate Grip DOL 1.25 TC Vert(LL) >999 0.36 0.14 8-15 244/190 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.66 -0.25 Vert(CT) 8-15 >818 180 Horz(CT) BCLL 0.0 Rep Stress Incr YES WB 0.25 0.01 6 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS.

(size) 1=0-3-8, 6=0-3-8

Max Horz 1=-163(LC 8)

Max Uplift 1=-152(LC 12), 6=-198(LC 13) Max Grav 1=636(LC 1), 6=724(LC 1)

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

Code FBC2023/TPI2014

TOP CHORD

1-3=-768/426, 3-4=-634/411, 4-5=-644/397, 5-6=-834/427 1-8=-247/602, 6-8=-288/660

BOT CHORD WEBS

4-8=-361/468, 5-8=-253/194

NOTES-

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

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 12-6-7 to 18-9-8 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

Matrix-MS

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

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=152, 6=198.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FT = 20%

Weight: 88 lb

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

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

Philip J. O'Regan PE No. SE126 MITek Inc. DBA MITek USA FL Cert 6634 16013 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and 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 ANSITP11 Quality Criteria and DSB-2 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



SIMOUE - RAULERSON RES. Job Truss Truss Type Qty Ply T32259193 3761058 T23 Common Girder Job Reference (optional) 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:59:04 2023 Page 1 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-VFO3cE?BhfSE416?z1b6FvXZSw6UUthq_QJ48lyCLwL Lake City, FL - 32055, Builders FirstSource (Lake City,FL), 5-9-0 2-6-13 Scale = 1:25.6 4x6 || 3 8.00 12 3x8 / 3x8 < 13 16 15 14 7 8 6 3x8 || 8x10 = 3x8 || 5x8 5x8 = 11-6-0 [1:0-4-0,0-1-9], [5:0-4-0,0-1-9], [6:0-6-0,0-1-8], [7:0-5-0,0-5-8], [8:0-6-0,0-1-8] Plate Offsets (X,Y)-GRIP SPACING-2-0-0 I/defl 1 /d PLATES LOADING (psf) 244/190 Plate Grip DOL 1.25 0.36 Vert(LL) -0.06 >999 240 MT20 TCLL 20.0 TC 0.39 Vert(CT) -0.11 >999 180 TCDL 7.0 Lumber DOL 1.25 BC WB 0.66 Horz(CT) 0.03 5 n/a n/a BCLL 0.0 Rep Stress Inci NO FT = 20% Weight: 75 lb BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS BRACING-LUMBER-Structural wood sheathing directly applied or 2-9-4 oc purlins. TOP CHORD TOP CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD 2x8 SP 2400F 2.0E WEBS 2x4 SP No.3 *Except*

3-7: 2x4 SP No.2

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

Max Horz 1=-95(LC 25)

Max Uplift 1=-650(LC 8), 5=-723(LC 9) Max Grav 1=2535(LC 1), 5=2867(LC 2)

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

TOP CHORD 1-2=-3828/985, 2-3=-2823/754, 3-4=-2824/756, 4-5=-3949/1005

1-8=-830/3163, 7-8=-830/3163, 6-7=-794/3273, 5-6=-794/3273 BOT CHORD 3-7=-764/2930, 4-7=-1260/369, 4-6=-296/1338, 2-7=-1069/343, 2-8=-270/1104 WEBS

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 1=650, 5=723.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 901 lb down and 247 lb up at 2-0-12, 901 lb down and 247 lb up at 4-0-12, 981 lb down and 247 lb up at 6-0-12, and 981 lb down and 246 lb up at 8-0-12, and 981 lb down and 246 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 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: 1-3=-54, 3-5=-54, 1-5=-20

Concentrated Loads (lb)

Vert: 6=-901(B) 13=-901(B) 14=-901(B) 15=-901(B) 16=-901(B)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FI, Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

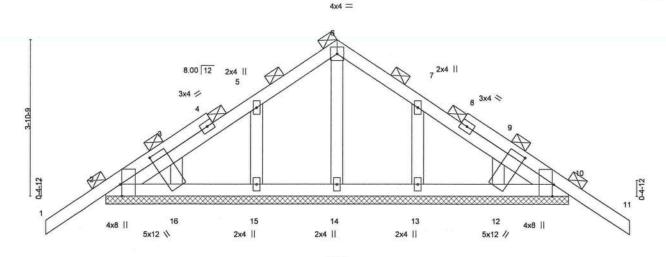
December 5,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES		
3761058	T23G	Common Supported Gable		١.,	T32259		
3/61056	1236	Common Supported Gable	,		Job Reference (optional)		
Builders FirstSource	Builders FirstSource (Lake City, FL), Lake City, FL - 32055,					Mon Dec 4 11:59:06 2023 Page 1	
			ID:F4qHUKBI9OM:	Fnx3FUq?	qnyCQ4I-SeWp1v0SDGiyJKGO	5SeaLKcxukuSyxr7RkoBDeyCLwJ	
	-1-6-0	5-9-0	- 1		11-6-0	13-0-0	
1-6-0		5-9-0	5-9-0 1-6-0				

Scale = 1:27.5



[2:0-3-8,Edge], [10:0-3-8,Edge], [12:0-1-13,0-11-9], [16:0-1-13,0-11-9] Plate Offsets (X,Y)-SPACING-DEFL. LOADING (psf) 2-0-0 l/defl L/d PLATES (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.17 Vert(LL) -0.01 120 244/190 11 n/r MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.03 -0.01 120 Vert(CT) 11 n/r BCLL 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 10 BCDL 10.0 Code FBC2023/TPI2014 Matrix-S Weight: 64 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

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

2-0-0 oc purlins (6-0-0 max.).

BOT CHORD

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

REACTIONS. All bearings 11-6-0.

(lb) - Max Horz 2=-111(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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 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.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) 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, 10, 15, 16, 13,
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regna PE No. S8126 MITok Inc. DBA MITok USA FL Cert 6634 16013 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



SIMQUE - RAULERSON RES. Ply Job Truss Truss Type Qty T32259195 KINGPOST 3761058 T24 Job Reference (optional) 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:59:07 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055 ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-wq4BEF14_aqpxUrafA9ptY95_8B2hNfGgOYkl4yCLwl 8-0-0 4-0-0

4x4 =

Scale = 1:30.8

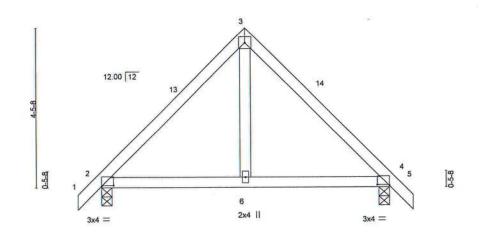


Plate Offsets (X,Y)-[2:0-4-0,0-0-3], [4:0-4-0,0-0-3] PLATES GRIP 2-0-0 SPACING-CSI DEFL in (loc) I/defi ∐d LOADING (psf) -0.01 6-9 >999 240 MT20 244/190 TCLL 20,0 Plate Grip DOL 1.25 TC 0.21 Vert(LL) >999 BC -0.02 180 TCDL 7.0 Lumber DOL 1.25 0.20 Vert(CT) 6-9 Rep Stress Incr BCLL 0.0 YES WB 0.07 Horz(CT) 0.00 n/a n/a Weight: 38 lb FT = 20% BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=115(LC 11)

Max Uplift 2=-80(LC 12), 4=-80(LC 13) Max Grav 2=332(LC 1), 4=332(LC 1)

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

TOP CHORD 2-3=-304/168, 3-4=-304/168

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 8-0-0 to 8-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) 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) 2, 4.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

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

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

December 5,2023

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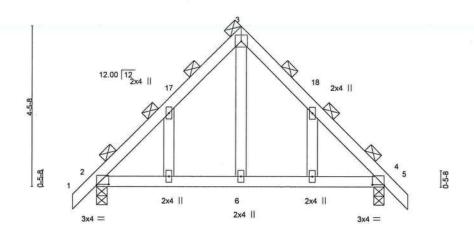
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	MQUE - RAULERSON RES.	Ply SI	Qty		Truss Type	russ	Job	
T3225919		1	1		GABLE	24G	1058	
	b Reference (optional)	Job						
ec 4 11:59:08 2023 Page 1	2023 MiTek Industries, Inc. Mon Dec 4	730 s Nov 13			, FL - 32055,	(,FL), Lake C	uilders FirstSource (La	
GbYXHQqvPv2HIHWyCLwH	yCQ4I-O0eZRb2iltygYeQnCtg2QliGbYX	zFnx3FUq?qn	4qHUKBI9OI					
	, 8-8-0 ,	-0-0		4-0-0	,-0-8-0,			
	0-8-0	-0-0		4-0-0	0-8-0			

4x4 =

Scale = 1:30.8



4-0-0 | 8-0-0 | 4-0-0 |

Plate Offse	ets (X,Y)	[2:0-4-0,0-0-3], [4:0-4-0,0	-0-4]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.01	6-16	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.02	6-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS	, ,					Weight: 44 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.).

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

LUMBER-

TOP CHORD 2x4 SP No.2

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

OTHERS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=115(LC 11)

Max Uplift 2=-80(LC 12), 4=-80(LC 13) Max Grav 2=332(LC 1), 4=332(LC 1)

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

TOP CHORD 2-3=-304/168, 3-4=-304/168

NOTES-

Unbalanced roof live loads have been considered for this design.

- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 8-0-0 to 8-8-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

5) Gable studs spaced at 2-0-0 oc.

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

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Phillip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58126 Millok Inc. DBA Millok USA FL Cert 6634 16625 Swingley Ridge Rd. Chesterfield, MO 63017

December 5,2023

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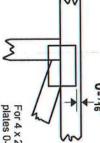


Symbols

PLATE LOCATION AND ORIENTATION



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



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

required direction of slots in connector plates This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

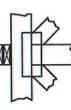
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

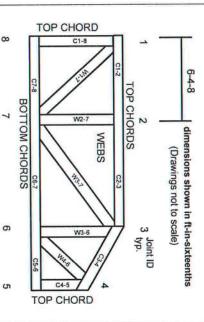
National Design Specification for Metal Building Component Safety Information, Plate Connected Wood Truss Construction. Guide to Good Practice for Handling Design Standard for Bracing.

ANSI/TPI1:

Installing, Restraining & Bracing of Metal

Plate Connected Wood Trusses

Numbering System



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

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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 established by others. Lumber design values are in accordance with ANSI/TPI 1

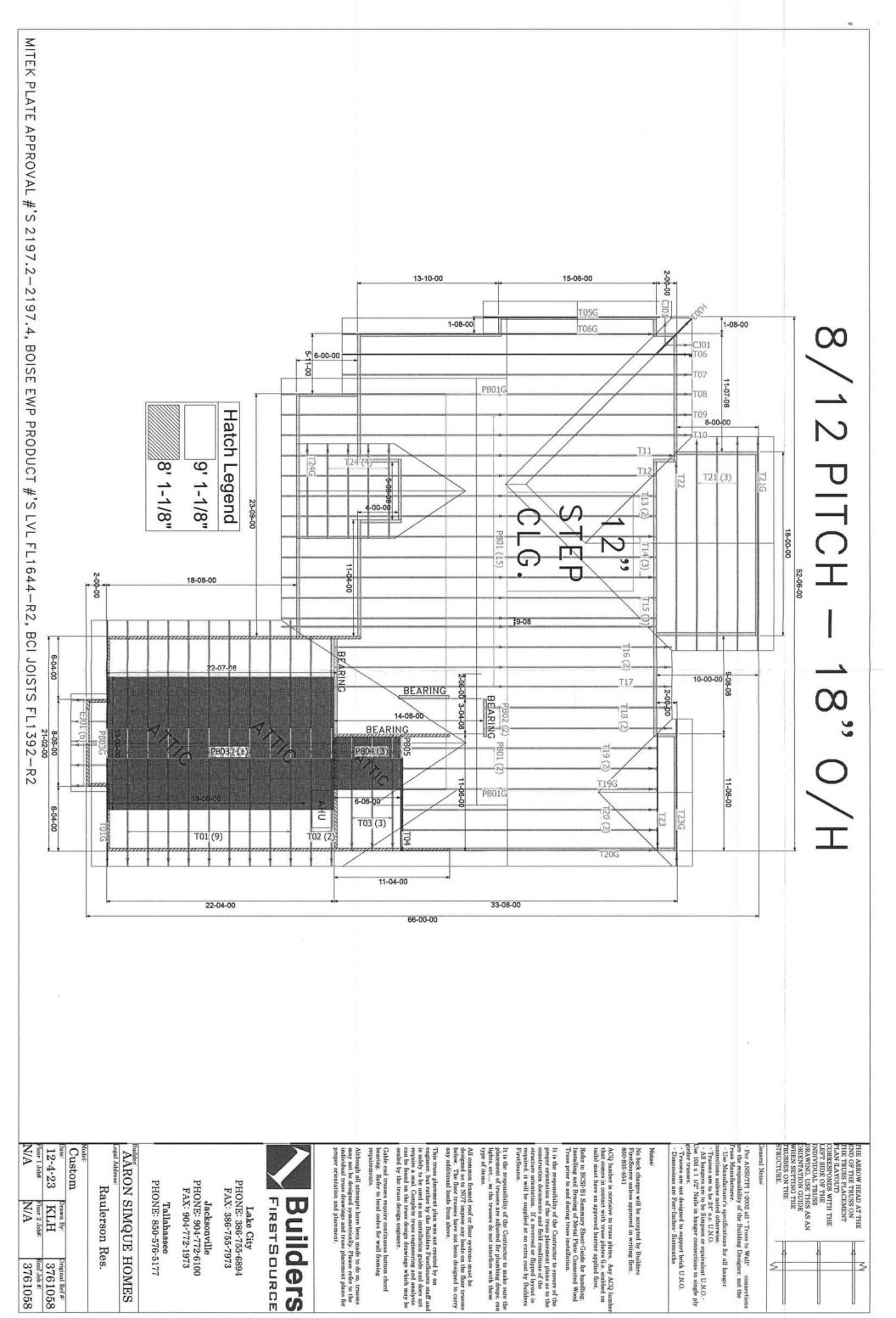
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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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 wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I
- stack materials on inadequately braced trusses. Never exceed the design loading shown and never
- 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 locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint
- 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
- 10. Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- . Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.



Original Ref #: 3761058
Roof Job #:

*					
,					