



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

73

RE: B230100 -

Site Information:

Customer Info: DON WALLACE Project Name: NA Model: NA
Lot/Block: NA Subdivision: NA
Address: COLUMBIA, NA
City: FORT WHITE State: FL

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 10 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

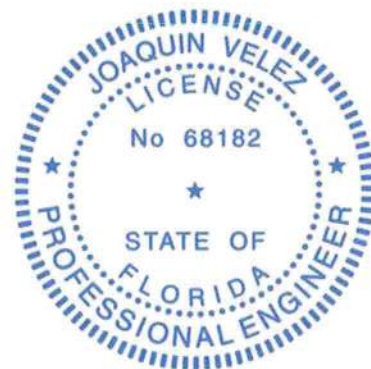
| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|---------|
| 1 | T31564686 | A | 9/14/23 |
| 2 | T31564687 | B | 9/14/23 |
| 3 | T31564688 | B1 | 9/14/23 |
| 4 | T31564689 | CGE | 9/14/23 |
| 5 | T31564690 | E | 9/14/23 |
| 6 | T31564691 | E1 | 9/14/23 |
| 7 | T31564692 | F | 9/14/23 |
| 8 | T31564693 | G | 9/14/23 |
| 9 | T31564694 | PB | 9/14/23 |
| 10 | T31564695 | PB1 | 9/14/23 |



This item has been electronically signed and sealed by Velez, Joaquin, PE using a Digital Signature.
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by American Truss of Chiefland.

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



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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.

September 14, 2023

Velez, Joaquin

1 of 1

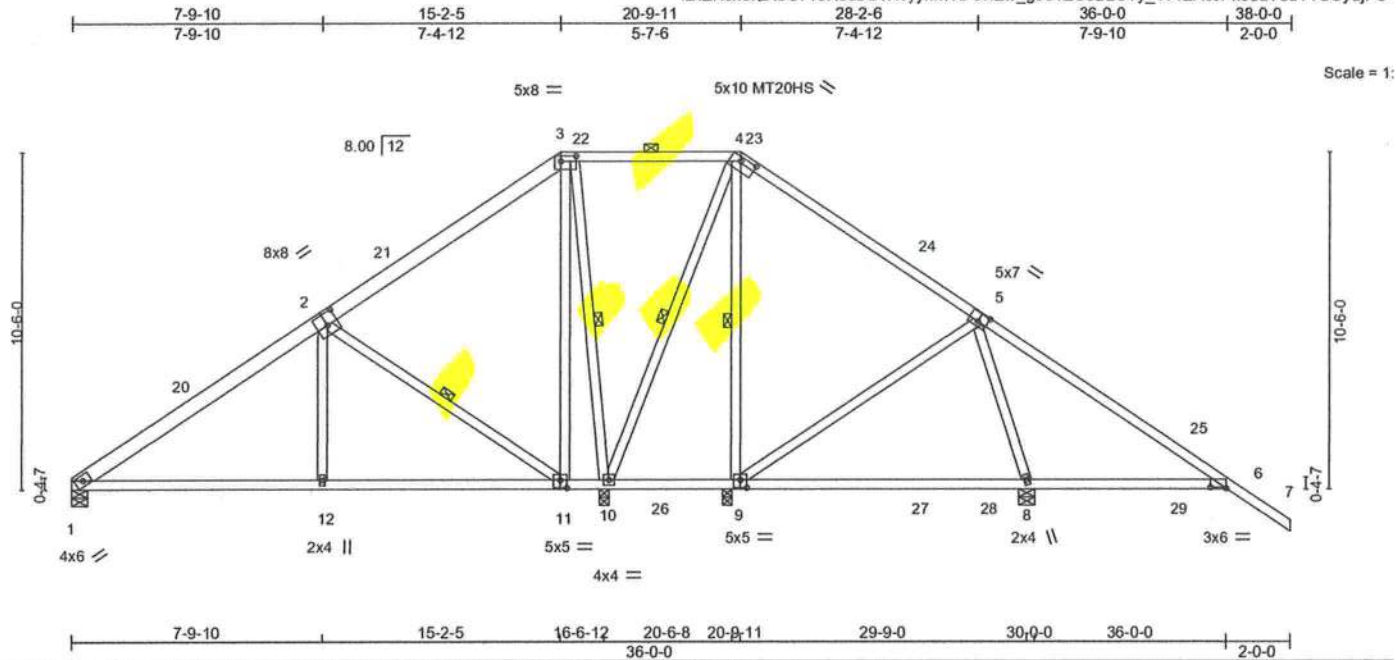
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
|---------|-------|----------------|-----|-----|--------------------------|
| B230100 | A | PIGGYBACK BASE | 1 | 1 | |

T31564

AMERICAN TRUSS, CHIEFLAND FL 32626

ID:ZRCxSxDt6G7v3K0dbGvHvyhkWd-cvZw_g9o4ZCeB2CTy_1v4EAcJPk0euY3dTTSCydJFC

8.710 s May 25 2023 MiTek Industries, Inc. Thu Sep 14 13:21:53 2023 Page



| Plate Offsets (X,Y)-- | | | | | |
|---|----------------------|-------|-----------|----------------|---------------------|
| [2:0-4-0,0-4-8], [3:0-5-12,0-2-0], [4:0-6-0,0-1-8], [5:0-3-8,0-3-4], [6:0-6-0,0-0-6], [9:0-2-8,0-3-0], [11:0-2-8,0-3-0] | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) l/defl L/d |
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.49 | Vert(LL) -0.14 | 8-9 >790 360 |
| TCDL 10.0 | Lumber DOL | 1.25 | BC 0.39 | Vert(CT) -0.20 | 8-9 >530 240 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.43 | Horz(CT) 0.01 | 8 n/a n/a |
| BCDL 7.0 | Code FBC2020/TPI2014 | | Matrix-AS | Wind(LL) -0.06 | 8-9 >999 240 |
| | | | | PLATES | GRIP |
| | | | | MT20 | 244/190 |
| | | | | MT20HS | 187/143 |
| | | | | Weight: 237 lb | FT = 0% |

| LUMBER- | BRACING- |
|--|--|
| TOP CHORD 2x4 SP No.1 *Except* 2-3,1-2: 2x6 SP No.2 | TOP CHORD Structural wood sheathing directly applied, except 4-0-0 oc purlins (10-0-0 max.): 3-4. |
| BOT CHORD 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.1 | WEBS 1 Row at midpt 2-11, 3-10, 4-10, 4-9 |

| REACTIONS. | |
|--|--|
| All bearings 0-6-0 except (jt=length) 10=0-3-8, 9=0-3-8. | |
| (lb) - Max Horz 1=332(LC 10) | |
| Max Uplift All uplift 100 lb or less at joint(s) 9 except 1=130(LC 12), 10=279(LC 12), 8=403(LC 13) | |
| Max Grav All reactions 250 lb or less at joint(s) except 1=553(LC 23), 10=1209(LC 17), 9=483(LC 18), 8=1066(LC 24) | |

| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
|-----------|--|
| TOP CHORD | 1-20=-592/142, 2-20=-525/171, 3-21=-34/262, 3-22=0/254, 22-23=0/254, 4-23=0/254, 4-24=0/291, 5-25=-634/750, 6-25=-647/546 |
| BOT CHORD | 1-12=-72/626, 11-12=-72/625, 10-11=-181/319, 10-26=-207/329, 9-26=-207/329, 9-27=-266/496, 27-28=-266/496, 8-28=-266/496, 8-29=-509/690, 6-29=-509/690 |
| WEBS | 2-12=0/271, 2-11=-753/321, 3-11=-98/566, 3-10=-1015/258, 4-9=-302/131, 5-8=-926/693 |

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-0 to 3-10-3, Interior(1) 3-10-3 to 15-2-5, Exterior(2R) 15-2-5 to 20-3-7, Interior(1) 20-3-7 to 20-9-11, Exterior(2R) 20-9-11 to 25-10-12, Interior(1) 25-10-12 to 38-0-0 zone; cantilever left and right exposed; 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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 = 7.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 1=130, 10=279, 8=403.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been electronically signed and sealed by Velez, Joaquin, PI 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.

Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:

September 14,2023

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

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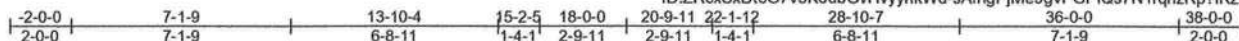
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
|---------|-------|------------|-----|-----|--------------------------|
| B230100 | B1 | Attic | 1 | 1 | |

T3156468

American Truss of Chiefland, Chiefland, FL - 32626,

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ID:ZRcxSxDt6G7v3K0dbGvHvyhkWd-sAfhgPjMe9gvPGPIQs7N1rqnzRp?IKzK_OLSWgydmJJ



5x10 MT20HS =

Scale = 1:74

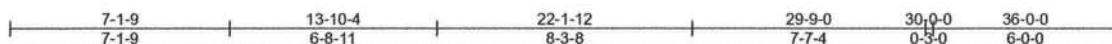
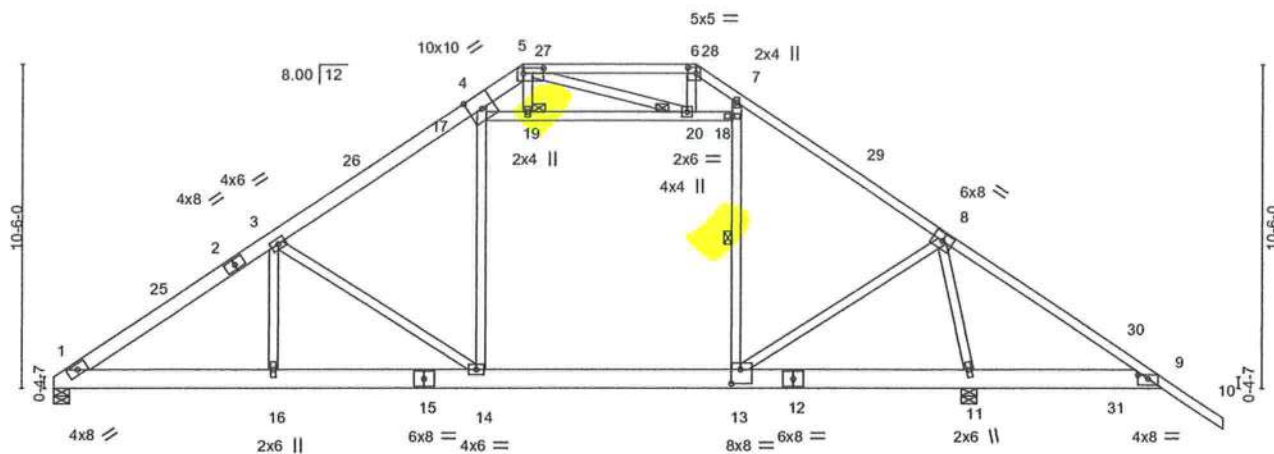


Plate Offsets (X,Y)-- [4:0-5-0,Edge], [5:0-7-12,0-2-0], [6:0-3-4,0-2-4], [9:0-4-0,0-1-9], [13:0-3-8,0-5-8]

| 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 0.78 | Vert(LL) | -0.23 | 14 | >999 | 360 | MT20 244/190 |
| TCDL 10.0 | Lumber DOL | 1.25 | BC 0.80 | Vert(CT) | -0.46 | 14-16 | >770 | 240 | MT20HS 187/143 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.90 | Horz(CT) | 0.03 | 11 | n/a | n/a | |
| BCDL 7.0 | Code FBC2020/TPI2014 | | Matrix-AS | Wind(LL) | 0.23 | 14-16 | >999 | 240 | |
| | | | | | | | | | Weight: 276 lb FT = 0% |

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
2-5,1-2: 2x6 SP No.2
BOT CHORD 2x8 SP No.2
WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 13-18
JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS.

(size) 1=0-6-0, 11=0-6-0
Max Horz 1=-332(LC 10)
Max Uplift 1=-137(LC 12), 11=-379(LC 12)
Max Grav 1=1346(LC 18), 11=2064(LC 20)

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

TOP CHORD 1-3=-2192/212, 3-4=-1531/105, 4-5=-1022/180, 5-6=-642/87, 6-7=-763/123,
7-8=-1437/86, 8-9=-677/788
BOT CHORD 1-16=0/2029, 14-16=0/2029, 13-14=0/1251, 11-13=-197/612, 9-11=-563/730
WEBS 3-16=-61/372, 3-14=-934/353, 14-17=0/658, 4-17=0/623, 18-20=-549/103,
13-18=-202/312, 7-18=-161/266, 8-13=-311/1437, 8-11=-2174/638, 6-20=-18/283,
5-20=-616/213

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Encl., GCpl=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-0 to 3-10-3, Interior(1) 3-10-3 to 15-2-5, Exterior(2R) 15-2-5 to 20-3-7, Interior(1) 20-3-7 to 20-9-11, Exterior(2R) 20-9-11 to 25-10-12, Interior(1) 25-10-12 to 38-0-0 zone; cantilever left and right exposed; 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.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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). 17-19, 19-20, 18-20; Wall dead load (5.0psf) on member(s).14-17, 13-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=137, 11=379.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Attic room checked for L/360 deflection.

This item has been electronically signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

September 14, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-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/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.sbcsccomponents.com)

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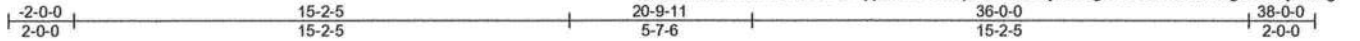
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
|---------|-------|--------------------------------|-----|-----|--------------------------|
| B230100 | CGE | Piggyback Base Supported Gable | 1 | 1 | |

T3156468

American Truss of Chiefland, Chiefland, FL - 32626,

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Scale = 1:70

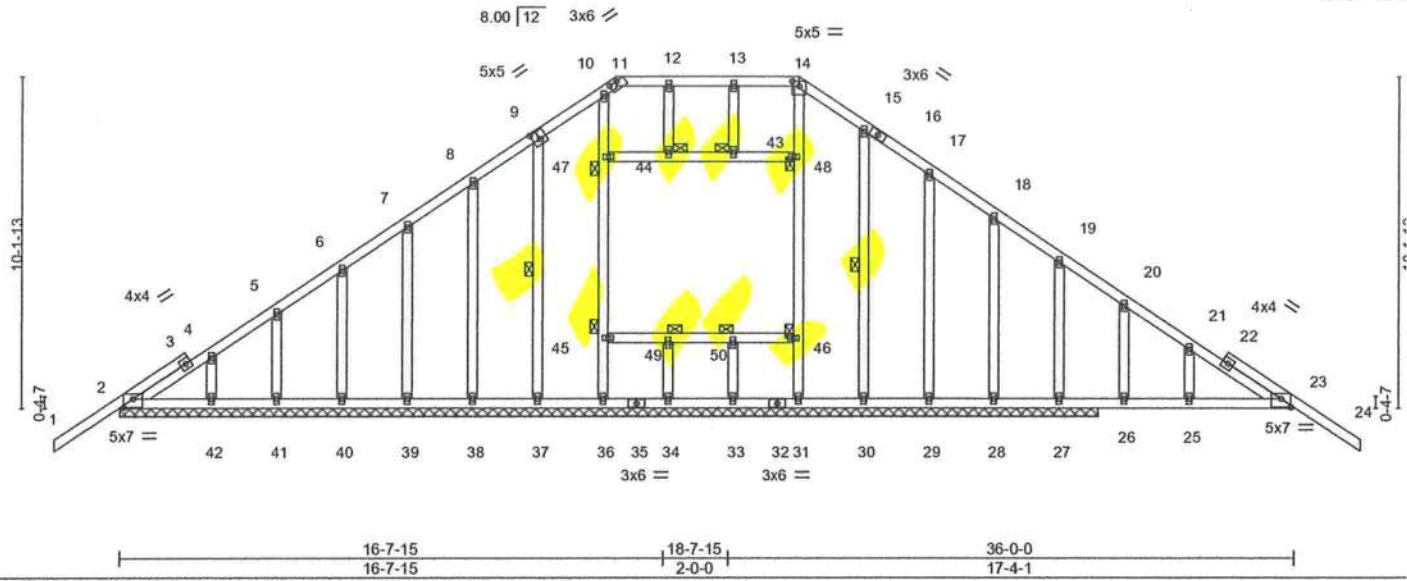


Plate Offsets (X, Y) - [2:0-3-8,0-3-2], [9:0-2-8,0-3-0], [11:0-3-0,0-0-2], [14:0-2-8,0-1-13], [23:0-3-8,0-3-2]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|----------------|---------|
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.41 | Vert(LL) | -0.02 23-24 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.25 | BC 0.40 | Vert(CT) | -0.02 23-24 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.22 | Horz(CT) | 0.03 27 | n/a | n/a | | |
| BCDL 7.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 272 lb | FT = 0% |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.1
 OTHERS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-3-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 9-37, 15-30
 JOINTS 1 Brace at Jt(s): 43, 44, 45, 46, 47, 48, 49, 50

REACTIONS.

All bearings 30-0-0.

(lb) - Max Horz 2=-334(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 37, 38, 39, 40, 41, 30, 28 except 2=-218(LC 24), 31=-135(LC 9),
 36=-170(LC 9), 29=-103(LC 12), 27=-233(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 37, 38, 39, 40, 41, 42, 30, 29, 28, 34, 33 except
 31=691(LC 24), 36=742(LC 1), 27=542(LC 1)

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

TOP CHORD 2-4=-887/669, 4-5=-861/723, 5-6=-776/717, 6-7=-699/718, 7-8=-620/719, 8-9=-536/702,
 9-10=-494/774, 10-11=-230/397, 11-12=-329/566, 12-13=-329/566, 13-14=-329/566,
 14-15=-457/738, 15-17=-523/716, 17-18=-617/728, 18-19=-618/672, 19-20=-828/765,
 20-21=-882/730, 21-23=-859/678

BOT CHORD 2-42=-570/913, 41-42=-570/913, 40-41=-570/913, 39-40=-570/913, 38-39=-570/913,
 37-38=-570/913, 36-37=-570/913, 34-36=-567/910, 33-34=-567/910, 31-33=-567/910,
 30-31=-570/913, 29-30=-570/913, 28-29=-570/913, 27-28=-570/913, 26-27=-570/913,
 25-26=-570/913, 23-25=-570/913

WEBS 31-46=-661/415, 46-48=-662/416, 14-48=-615/387, 36-45=-714/456, 45-47=-715/457,
 10-47=-662/425, 19-27=-287/373

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=36ft; eave=2ft; Cat. II; Exp C; Endl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -2-0-0 to 1-7-3, Exterior(2N) 1-7-3 to 15-2-5, Corner(3R) 15-2-5 to 18-9-11, Exterior(2N) 18-9-11 to 20-9-11, Corner(3R) 20-9-11 to 24-4-14, Exterior(2N) 24-4-14 to 38-0-0 zone; cantilever left and right exposed; 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
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- 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.

Continued on page 2

This item has been electronically signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 Date:

September 14, 2023

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MiTek®

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| Job | Truss | Truss Type | Qty | Ply | |
|--------------------------|-------|--------------------------------|-----|-----|----------|
| B230100 | CGE | Piggyback Base Supported Gable | 1 | 1 | T3156468 |
| Job Reference (optional) | | | | | |

American Truss of Chiefland, Chiefland, FL - 32626,

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ID:ZRCxSxDt6G7v3K0dbGvHvyyhkWd-GlKqIRIEx42UGj8K6?g4fTSO?fwuvsNmgLa67?ydmJg

NOTES-
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 38, 39, 40, 41, 30, 28 except (jt=lb) 2=218, 31=135, 36=170, 29=103, 27=233.

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

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| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
|---------|-------|------------|-----|-----|--------------------------|
| B230100 | E | Common | 11 | 1 | |

T3156469

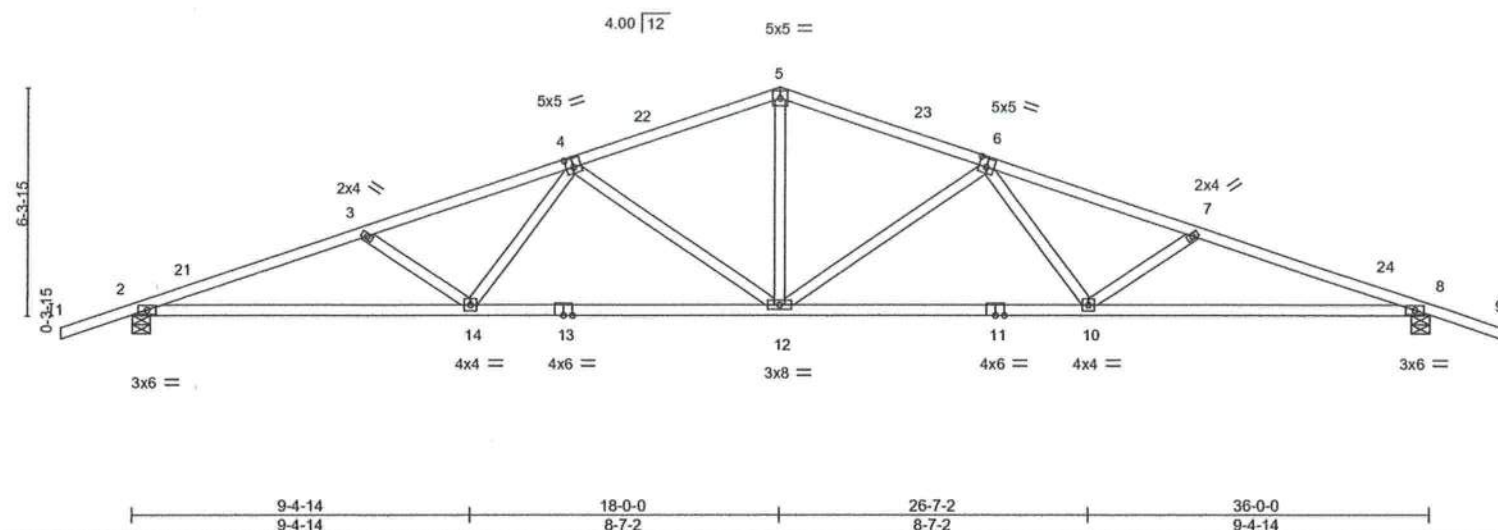
American Truss of Chiefland, Chiefland, FL - 32626.

8.720 s Aug 11 2023 MiTek Industries, Inc. Thu Sep 14 08:52:20 2023 Page 1

ID:ZRcxSxDt6G7v3K0dbGvHvyhkWd-kxuCWnmsiNALtjWfiBJBh_al3CJeDivv7JffSydmJf



Scale: 3/16"=



| Plate Offsets (X,Y)-- | | [4:0-2-8,0-3-0], [6:0-2-8,0-3-0] | | | | | | | | | |
|-----------------------|----------------------|----------------------------------|-----------|----------|-------|-------|--------|-----|----------------|---------|--|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.38 | Vert(LL) | -0.25 | 12 | >999 | 360 | MT20 | 244/190 | |
| TCDL 10.0 | Lumber DOL | 1.25 | BC 0.64 | Vert(CT) | -0.49 | 12-14 | >887 | 240 | | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.60 | Horz(CT) | 0.14 | 8 | n/a | n/a | | | |
| BCDL 7.0 | Code FBC2020/TPI2014 | | Matrix-AS | Wind(LL) | 0.25 | 12 | >999 | 240 | | | |
| | | | | | | | | | Weight: 170 lb | FT = 0% | |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-6-0, 8=0-6-0
 Max Horz 2=-113(LC 10)
 Max Uplift 2=-470(LC 12), 8=-470(LC 12)
 Max Grav 2=1452(LC 1), 8=1452(LC 1)

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

TOP CHORD 2-3=-3435/1428, 3-4=-3091/1288, 4-5=-2168/995, 5-6=-2168/995, 6-7=-3091/1288,
 7-8=-3435/1428
 BOT CHORD 2-14=-1237/3225, 12-14=-952/2623, 10-12=-973/2623, 8-10=-1258/3225
 WEBS 5-12=-384/1003, 6-12=-775/407, 6-10=-106/505, 7-10=-426/277, 4-12=-775/407,
 4-14=-106/505, 3-14=-426/277

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-7-3, Interior(1) 1-7-3 to 18-0-0, Exterior(2R) 18-0-0 to 21-7-3, Interior(1) 21-7-3 to 38-0-0 zone; cantilever left and right exposed; 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=470, 8=470.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by Velez, Joaquin, PI 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.

Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 Date:

September 14, 2023

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

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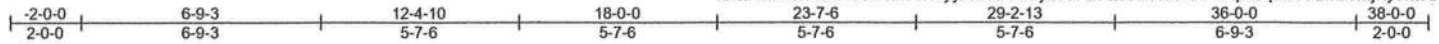
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
|---------|-------|------------|-----|-----|--------------------------|
| B230100 | E1 | Scissor | 15 | 1 | |

T3156469

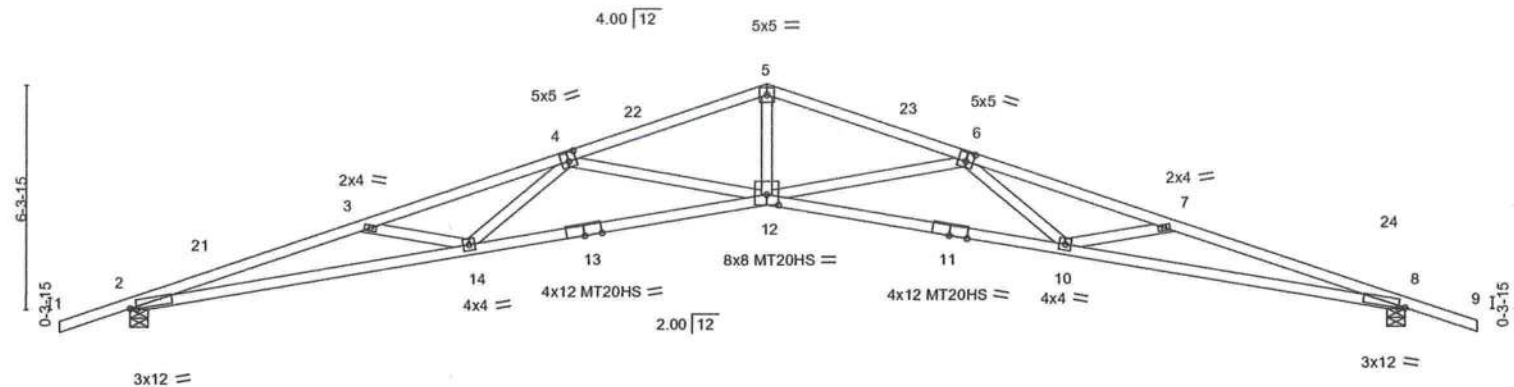
American Truss of Chiefland, Chiefland, FL - 32626,

8.720 s Aug 11 2023 MiTek Industries, Inc. Thu Sep 14 08:52:22 2023 Page 1

ID:ZRcxSxDt6G7v3K0dbGvHvyhKwD-hK0yxTo7E?Q37Bsvn7EnG64posqw67?CMJomjKydmJd



Scale = 1:65



| Plate Offsets (X,Y) = | | [2:0-2-3,0-0-7], [4:0-2-8,0-3-0], [6:0-2-8,0-3-0], [8:0-2-3,0-0-7], [12:0-4-0,0-3-9] | | | | | | | |
|-----------------------|----------------------|--|-----------|----------|-------------|--------|-----|----------------|---------|
| 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 0.82 | Vert(LL) | -0.86 12-14 | >502 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.25 | BC 0.95 | Vert(CT) | -1.63 12-14 | >264 | 240 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.61 | Horz(CT) | 0.78 8 | n/a | n/a | | |
| BCDL 7.0 | Code FBC2020/TPI2014 | | Matrix-AS | Wind(LL) | 0.84 12-14 | >515 | 240 | Weight: 158 lb | FT = 0% |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-6-0, 8=0-6-0
 Max Horz 2=-113(LC 10)
 Max Uplift 2=-470(LC 12), 8=-470(LC 12)
 Max Grav 2=1452(LC 1), 8=1452(LC 1)

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

TOP CHORD 2-3=-6095/2440, 3-4=-5606/2166, 4-5=-4139/1634, 5-6=-4139/1624, 6-7=-5606/2186,
 7-8=-6095/2458
 BOT CHORD 2-14=-2221/5800, 12-14=-1831/5042, 10-12=-1871/5042, 8-10=-2259/5800
 WEBS 5-12=-798/2266, 6-12=-1156/606, 6-10=-68/588, 7-10=-483/344, 4-12=-1156/607,
 4-14=-69/588, 3-14=-483/345

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-7-3, Interior(1) 1-7-3 to 18-0-0, Exterior(2R) 18-0-0 to 21-7-3, Interior(1) 21-7-3 to 38-0-0 zone; cantilever left and right exposed; 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=470, 8=470.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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 Chesterfield, MO 63017
 Date:

September 14, 2023

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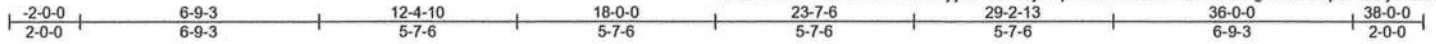
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
|---------|-------|------------|-----|-----|--------------------------|
| B230100 | F | SCISSORS | 1 | 1 | |

T31564692

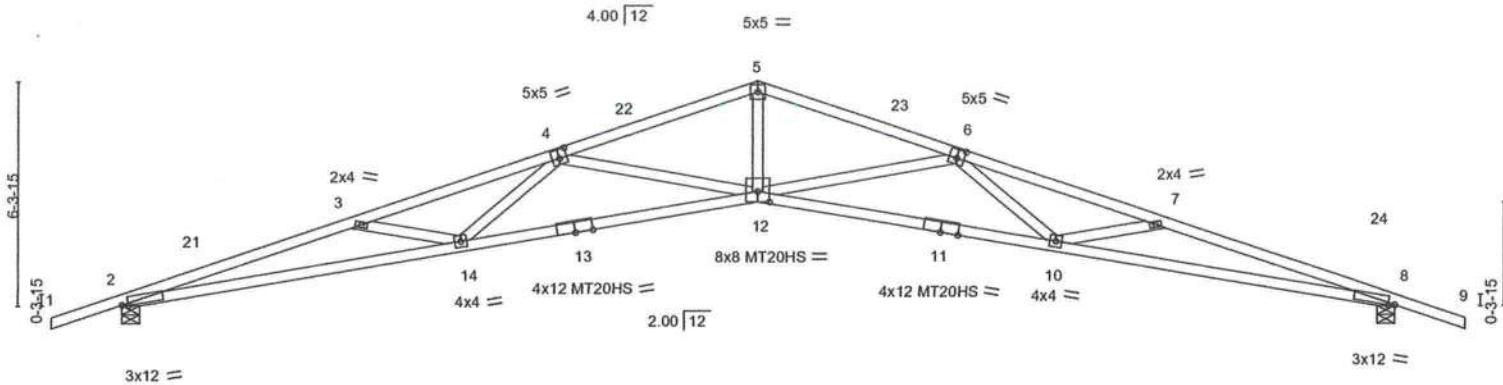
American Truss of Chiefland, Chiefland, FL - 32626,

8.720 s Aug 11 2023 MiTek Industries, Inc. Thu Sep 14 08:52:24 2023 Page 1

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Scale = 1:65.



| Plate Offsets (X,Y)- | 9-6-14 | 18-0-0 | 26-5-2 | 36-0-0 |
|----------------------|--------|--------|--------|--------|
| | 9-6-14 | 8-5-2 | 8-5-2 | 9-6-14 |

| 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 0.82 | Vert(LL) | -0.86 | 12-14 | >502 | 360 | MT20 244/190 |
| TCDL 10.0 | Lumber DOL | 1.25 | BC 0.95 | Vert(CT) | -1.63 | 12-14 | >264 | 240 | MT20HS 187/143 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.61 | Horz(CT) | 0.78 | 8 | n/a | n/a | |
| BCDL 7.0 | Code FBC2020/TPI2014 | | Matrix-AS | Wind(LL) | 0.84 | 12-14 | >515 | 240 | |
| | | | | | | | | | Weight: 158 lb FT = 0% |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-6-0, 8=0-6-0
 Max Horz 2=113(LC 11)
 Max Uplift 2=-470(LC 12), 8=-470(LC 12)
 Max Grav 2=1452(LC 1), 8=1452(LC 1)

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

TOP CHORD 2-3=-6095/2440, 3-4=-5606/2166, 4-5=-4139/1634, 5-6=-4139/1624, 6-7=-5606/2186,
 7-8=-6095/2458
 BOT CHORD 2-14=-2221/5800, 12-14=-1831/5042, 10-12=-1871/5042, 8-10=-2259/5800
 WEBS 5-12=-798/2266, 6-12=-1156/606, 6-10=-68/588, 7-10=-483/344, 4-12=-1156/607,
 4-14=-69/588, 3-14=-483/345

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-7-3, Interior(1) 1-7-3 to 18-0-0, Exterior(2R) 18-0-0 to 21-7-3, Interior(1) 21-7-3 to 38-0-0 zone; cantilever left and right exposed; 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=470, 8=470.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 Date:

September 14,2023

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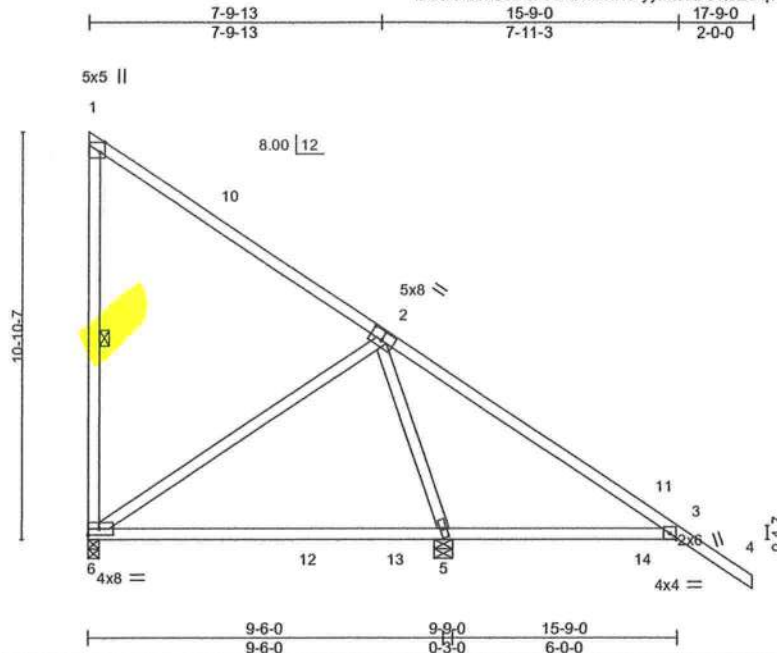
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| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
|---------|-------|--------------|-----|-----|--------------------------|
| B230100 | G | Roof Special | 2 | 1 | |

T31564693

American Truss of Chiefland, Chiefland, FL - 32626,

8.720 s Aug 11 2023 MiTek Industries, Inc. Thu Sep 14 08:52:25 2023 Page 1
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Scale = 1:61.

| Plate Offsets (X,Y)-- | | [1:0-3-3,Edge], [2:0-4-0,0-3-0] | |
|-----------------------|----------------------|---------------------------------|-----------------------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. |
| TCLL 20.0 | 2-0-0 | TC 0.72 | in (loc) l/defl L/d |
| TCDL 10.0 | Plate Grip DOL 1.25 | BC 0.51 | Vert(LL) -0.24 5-6 >480 360 |
| BCLL 0.0 * | Lumber DOL 1.25 | WB 0.54 | Vert(CT) -0.35 5-6 >325 240 |
| BCDL 7.0 | Rep Stress Incr YES | Matrix-AS | Horz(CT) 0.01 5 n/a n/a |
| | Code FBC2020/TPI2014 | | Wind(LL) -0.17 5-6 >652 240 |
| | | | PLATES GRIP |
| | | | MT20 244/190 |
| | | | Weight: 92 lb FT = 0% |

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-6

REACTIONS.

(size) 6=0-3-8, 5=0-6-0
Max Horz 6=-547(LC 10)
Max Uplift 6=-295(LC 8), 5=-471(LC 13)
Max Grav 6=315(LC 18), 5=1249(LC 17)

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

TOP CHORD 1-6=-284/238, 1-2=-327/288, 2-3=-745/749
BOT CHORD 5-6=-205/515, 3-5=-504/802
WEBS 2-6=-399/386, 2-5=-1059/964

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-9-0 zone; cantilever left and right exposed; 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
- 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, with BCDL = 7.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=295, 5=471.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:

September 14, 2023

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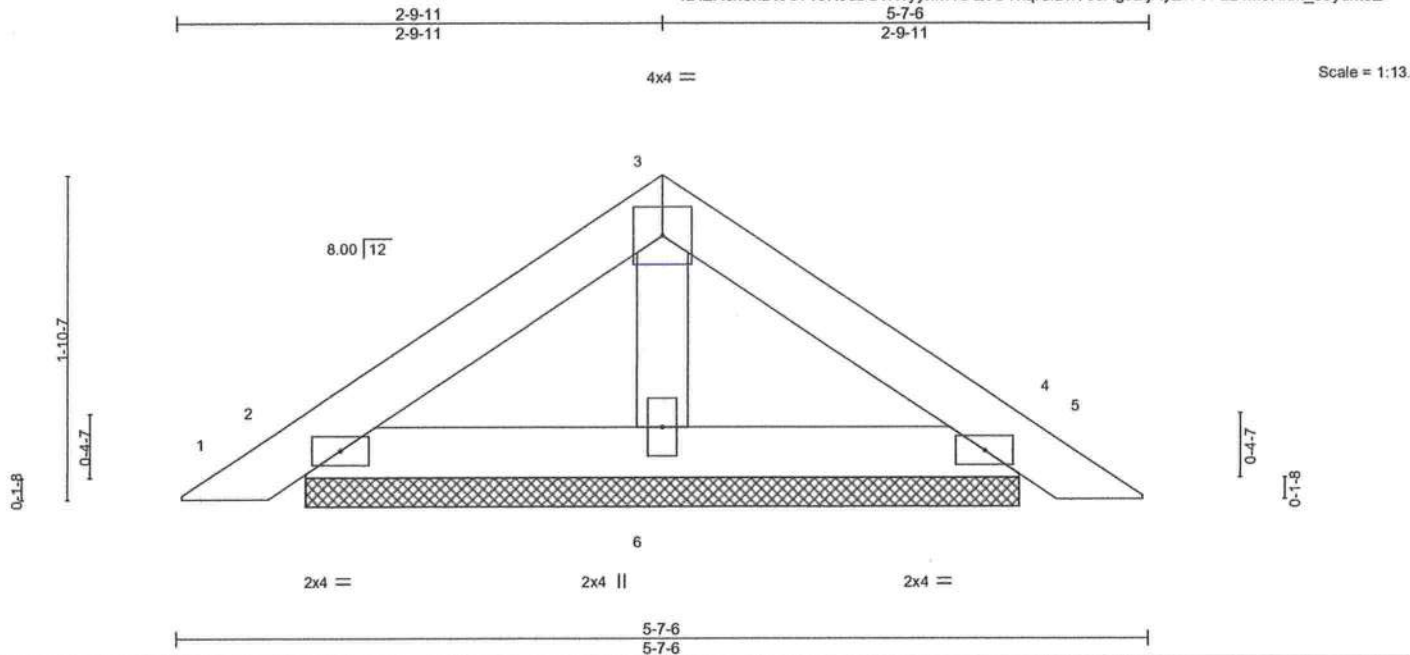
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| | | | | | | |
|----------------|-------------|-------------------------|-----------|----------|--------------------------|----------|
| Job B230100 | Truss PB | Truss Type Piggyback | Qty 15 | Ply 1 | Job Reference (optional) | T3156469 |
|----------------|-------------|-------------------------|-----------|----------|--------------------------|----------|

American Truss of Chiefland, Chiefland, FL - 32626,

8.720 s Aug 11 2023 MiTek Industries, Inc. Thu Sep 14 08:52:26 2023 Page 1

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| 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 0.07 | Vert(LL) | 0.00 | 4 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.25 | BC 0.03 | Vert(CT) | 0.00 | 5 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL 7.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | Weight: 18 lb | FT = 0% |

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-1-8, 4=4-1-8, 6=4-1-8
Max Horz 2=-48(LC 10)
Max Uplift 2=-64(LC 12), 4=-64(LC 12), 6=-4(LC 12)
Max Grav 2=115(LC 1), 4=115(LC 1), 6=132(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; 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.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 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 Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

September 14, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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/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.sbcsccomponents.com)

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314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
|---------|-------|------------|-----|-----|--------------------------|
| B230100 | PB1 | Piggyback | 1 | 1 | |

T3156469

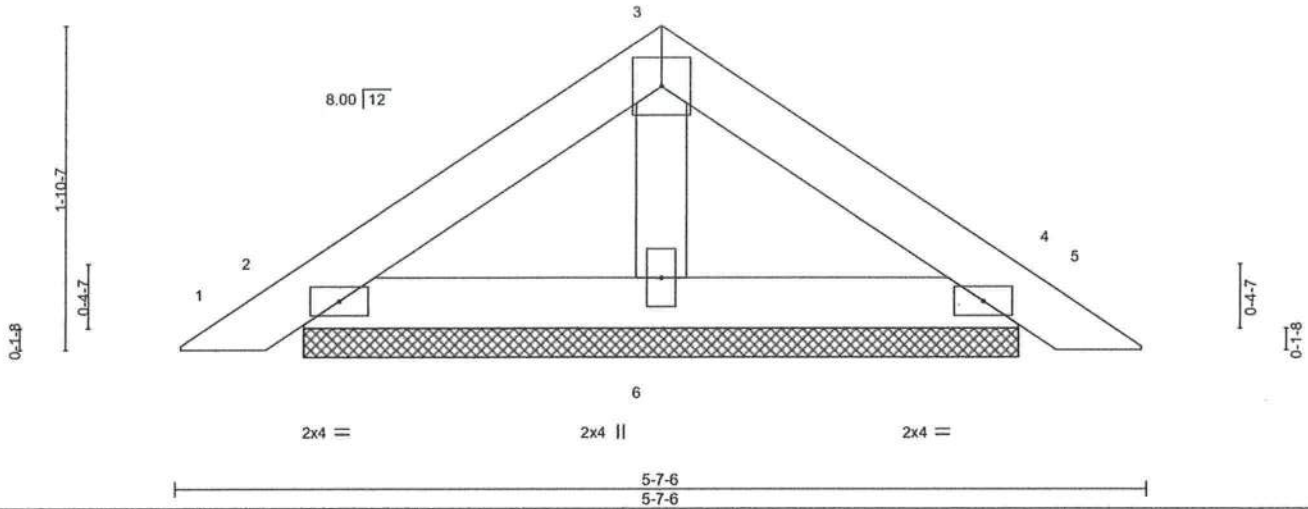
American Truss of Chiefland, Chiefland, FL - 32626,

8.720 s Aug 11 2023 MiTek Industries, Inc. Thu Sep 14 08:52:27 2023 Page 1

ID:ZRCxSxDt6G7v3K0dbGvHvyhKwD-1Hpr_AsF3X3MDytagpyz9nqHlanXbxWbWXPYdmJY



Scale = 1:13



| 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 0.07 | Vert(LL) | 0.00 | 4 | n/r | 120 | MT20 |
| TCDL 10.0 | Lumber DOL | 1.25 | BC 0.03 | Vert(CT) | 0.00 | 5 | n/r | 120 | 244/190 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | |
| BCDL 7.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | |
| | | | | | | | | Weight: 18 lb | FT = 0% |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=4-1-8, 4=4-1-8, 6=4-1-8
 Max Horz 2=-48(LC 10)
 Max Uplift 2=-64(LC 12), 4=-64(LC 12), 6=-4(LC 12)
 Max Grav 2=115(LC 1), 4=115(LC 1), 6=132(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; 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.
- 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.
- * 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.
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 Chesterfield, MO 63017
 Date:

September 14, 2023

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

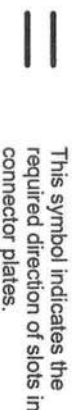
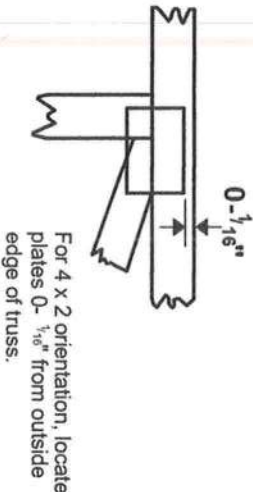
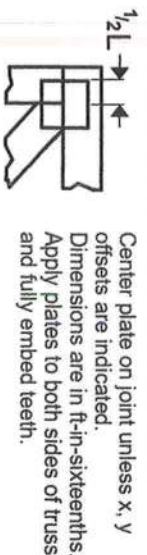
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

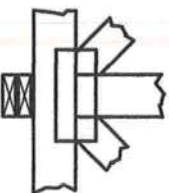
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

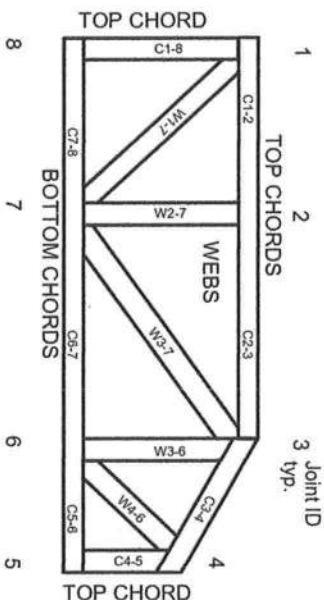


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, 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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
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 specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. 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.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



Truss Design Modifications

American Truss of Chiefland

6760 NW 138th Place

Chiefland, FL+32626

Job Name: B230100

T31564686,A.TRE

A truss designed as a PIGGYBACK BASE must have purlin bracing on the flat top chord.

Please check for plate and/or lumber changes.

Reviewing Engineer: Darius Anderson

Telephone: 813-675-1160

