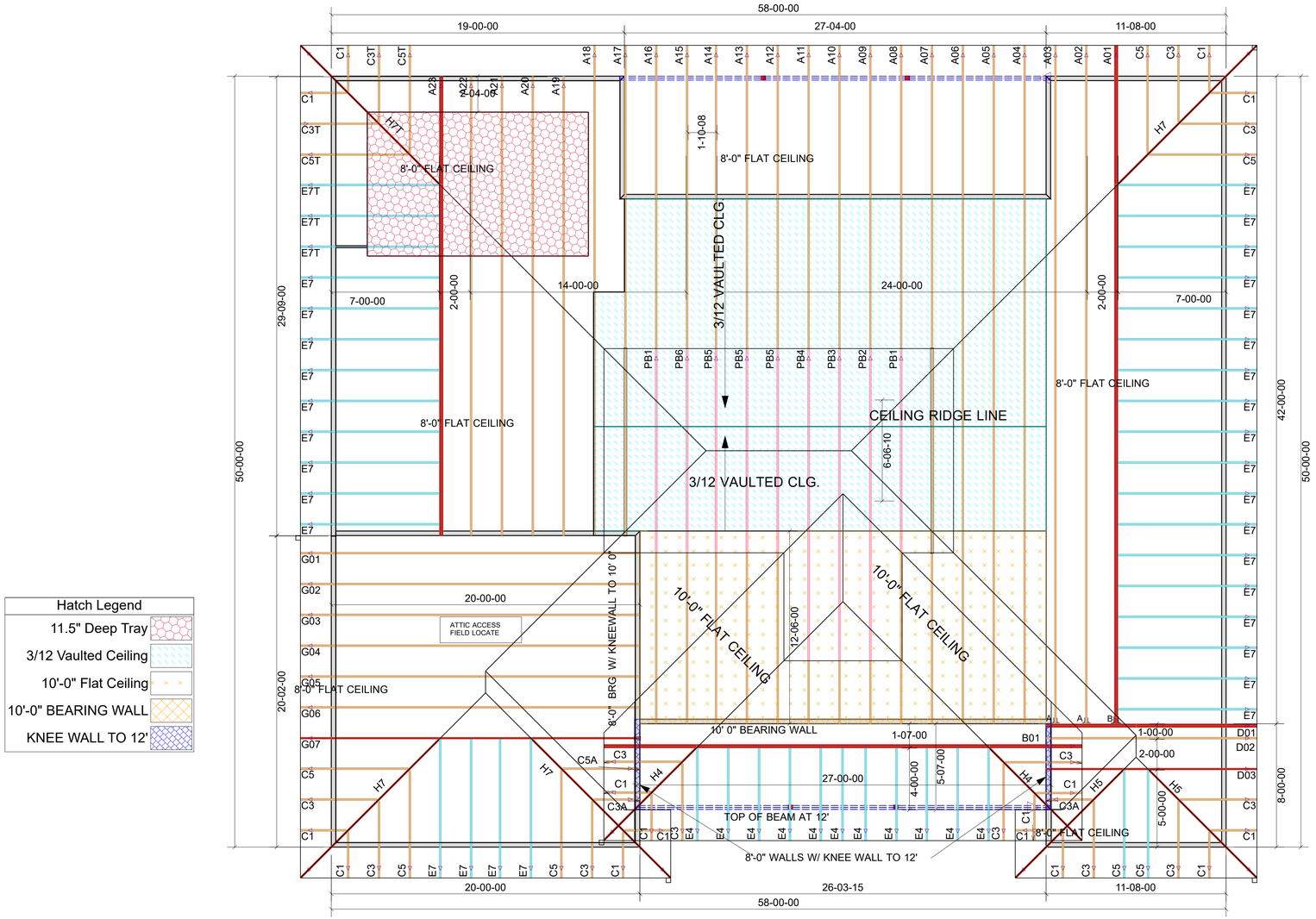



| Hatch Legend |
|---|
| 11.5" Deep Tray |
| 3/12 Vaulted Ceiling |
| 10'-0" Flat Ceiling |
| 10'-0" BEARING WALL |
| KNEE WALL TO 12' |

*** Approved By: _____ Delivery Date: _____

Please Print Name Employed By Approval Date

TIBBETTS LUMBER CO., LLC

6100 SE 68th Street, Ocala, FL 34472
Phone (352) 347-7661 Fax: (347) 347-7797

CLIENT APPROVAL

*** Signature of this document acknowledges that the client has reviewed this truss placement diagram in its entirety as in agreement with the following terms, including , but not limited to:

a) The client is responsible to verify the accuracy of information submitted for use in design, fabrication and scheduling. Any labor, material or time delay incurred from inadequate or incorrect information supplied from the client, will be at the client's expense. Any field measurements, by an associate of Tibbetts Lumber Co., LLC, are performed as a courtesy to the client and shall be verified by the client.

b) Design Criteria: The client acknowledges that the truss design criteria noted on this truss placement diagram meets or exceeds the design criteria specified by the building designer, engineer of record, and local and state building requirements

c) Fabrication and Delivery: One approved truss placement diagram must be returned to the truss manufacturer before fabrication and delivery will be scheduled. It is the client's responsibility to co-ordinate deliver dates with the truss manufacturer. The client shall provide a marked location for delivery, which must be accessible, level and clear of materials and debris. In lieu of this, truss will be delivered in the best available location at our driver's discretion. Care and handling of the trusses following delivery is the responsibility of the client.

d) Installation & Bracing: BCSI 2008 (Building Component Safety Information) WTCA/TPI guidelines shall be followed when handling, installing & bracing trusses. Temporary and/or permanent bracing and blocking is not included in this truss package. Trusses shall be braced to prevent rotation and provide lateral stability in accordance with the requirements specified in the construction documents for the building and on the individual truss design drawings. The overall stability of the truss system is the responsibility of the building designer.

e) Field Framing: 1.) Tray ceilings and other ceiling transitions my require field framing by others. 2.) Ceiling drops and valleys not shown are to be field framed by others. 3.) Overhangs may be over-length - cut to fi in the field. Overhangs are 2x4 or 2x6 - no blocking is applied. Corner jacks will be square cut and hip jacks will be double beveled

f) Repairs: Truss related problems are to be reported to the truss manufacturer ASAP, preferably in writing. Do Not Cut Any Trusses before contacting the truss manufacturer with specifics of the problem. Any field modifications made without an engineered repair drawing will be the responsibility of the client. No back charges or crane charges of any kind will be accepted unless specifically approved in writing by the truss manufacturer's management.

g) This Truss Placement Diagram was not created by an engineer, rather by Tibbetts Lumber Co, LLC staff and is purely to be used as an installation guide and does not require a seal. Truss design analysis are on the Truss Design Drawings, which may be sealed by the Truss Design Engineer.

Floor: Load: 55# psf; 40 TCLL, 10 TCDL, 00 BCLL, 05 BCDL; Dur.: 1.00
Design checked for 10 psf non-concurrent LL on BC.

Roof: Load: 37# psf; 20 TCLL, 07 TCDL, 00 BCLL, 10 BCDL; Dur.: 1.25
Design checked for 10 psf non-concurrent LL on BC

TYPICAL DESIGN CRITERIA

| | | | | | | |
|---|---|---|---|---|---|---|
| Mitek Engineering | | | | Exposure | : | B |
| Building Code | : | FBC 2020 | | Mean Height | : | ≤ 15' |
| | : | ASCE 7-16 | | Bldg. Category | : | II |
| | : | TPI 1-2014 | | Importance Factor | : | 1.00 |
| Truss Design | : | Comp. & Cladding | | Enclosure | : | Enclosed |
| Uplift Calculations | : | MWFRS | | Entry | : | Exposed to Wind |
| Wind Speed | : | 130 mph US | | Lanai | : | Exposed to Wind |

| ROOF CRITERIA | | | FLOOR CRITERIA | | |
|---|---|---|---|---|---|
| T.C. Pitch | : | 6/12 | T.C. Size | : | PC42 |
| B.C. Pitch | : | 3/12 | Depth | : | 16" |
| T.C. Size | : | 2x4 | Spacing | : | 16" O.C. |
| Heel Height | : | 4 3/16" | Bearing | : | 8" |
| Bearing | : | 8" | Lumber | : | SP |
| Cantilever | : | 0 | Vapor barrier between floor & concrete by other. Floor trusses held back 3/4" at exterior wall, block and fill by other. Blocking for transfer of vertical load from above by others. Odd space floor trusses around plumbing as noted. | | |
| Overhang | : | 24" | | | |
| O.H. Cut | : | Plumb | | | |
| Spacing | : | 24" O.C. | | | |
| Lumber | : | SP | | | |

CONNECTORS

| Roof Truss to Truss Connectors | | | | | | Floor Truss to Truss Connectors | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | TYP: THD26 | | | | | | TYP: THD46 | | | | |
| A* | JUS24 | G | THDH28-2 | M | | Q | THDH46 | W | MSH422IF | | |
| B | THD26-2 | H | THDH28-3 | N | | R | THD48 | X | MSH426 | | |
| C | THDH26-2 | I | THDH210-3 | O | | S | THDH48 | Y | MSH426IF | | |
| D | THDH26-3 | J | GTWS2T | | | T | THDH410 | Z | | | |
| E | THD28 | K | GTWS3T | | | U | THDH610 | | | | |
| F | THDH28 | L | GTWS4T | | | V | MSH422 | | | | |

Installation shall be per connector manufacturer's guidelines. All connectors and tie downs other than truss to girder truss connectors are to be specified and supplied by others.

UPLIFT SUMMARY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | | | 11 | | | 21 | | |
| 2 | | | 12 | | | 22 | | |
| 3 | | | 13 | | | 23 | | |
| 4 | | | 14 | | | 24 | | |
| 5 | | | 15 | | | 25 | | |
| 6 | | | 16 | | | 26 | | |
| 7 | | | 17 | | | 27 | | |
| 8 | | | 18 | | | 28 | | |
| 9 | | | 19 | | | 29 | | |
| 10 | | | 20 | | | 30 | | |

Only points listed above have reactions > 5000# or Uplift > 1000#.
Values shown on the sealed Truss Design Drawings supersede the above

NOTES

| | |
|---|---|
| N1 | . |
| N2 | . |
| N3 | . |
| N4 | . |
| N5 | . |
| N6 | . |
| N7 | . |
| N8 | . |
| N9 | . |

Diamond indicates left side of truss on truss design drawings

Client Info

| | |
|---|---|
| Client: | ADAMS HOMES |
| Project: | MODEL 2169 A-Tray |
| Address: | LOT 6 Forest Country |
| | LAKE CITY, FLORIDA |
| | . |

Rev.

| | |
|---|---|
| | . |
| | . |
| | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| Date | : | 11/19/21 | Scale | : | ." = 1'-0" | D= 1/4 |
| Revised | : | . | Drawn By | : | Steve R | |
| Sheet # | : | 1 of 1 | Job # | : | 613839 | |

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

RE: 613839 - 2169-A-Frame

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

**Site Information:**

Customer Info: Adams Homes-Gainesville Project Name: - Model: 2169-A-Tray-Frame
Lot/Block: 6 Subdivision: Forest Country
Address: SW Pinehurst Dr. , SW Pinehurst Dr.
City: Lake City. 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):**

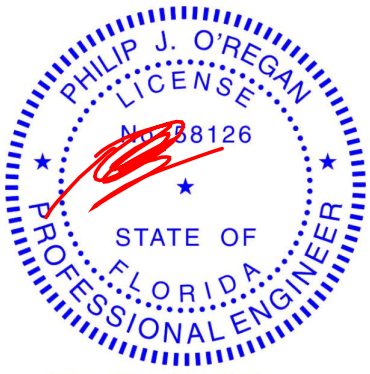
Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 54 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 | No. | Seal# | Truss Name | Date |
|---|---|---|---|---|---|---|---|
| 1 | T26087678 | A01 | 11/29/21 | 23 | T26087700 | A23 | 11/29/21 |
| 2 | T26087679 | A02 | 11/29/21 | 24 | T26087701 | B01 | 11/29/21 |
| 3 | T26087680 | A03 | 11/29/21 | 25 | T26087702 | C1 | 11/29/21 |
| 4 | T26087681 | A04 | 11/29/21 | 26 | T26087703 | C3 | 11/29/21 |
| 5 | T26087682 | A05 | 11/29/21 | 27 | T26087704 | C3A | 11/29/21 |
| 6 | T26087683 | A06 | 11/29/21 | 28 | T26087705 | C3T | 11/29/21 |
| 7 | T26087684 | A07 | 11/29/21 | 29 | T26087706 | C5 | 11/29/21 |
| 8 | T26087685 | A08 | 11/29/21 | 30 | T26087707 | C5A | 11/29/21 |
| 9 | T26087686 | A09 | 11/29/21 | 31 | T26087708 | C5T | 11/29/21 |
| 10 | T26087687 | A10 | 11/29/21 | 32 | T26087709 | D01 | 11/29/21 |
| 11 | T26087688 | A11 | 11/29/21 | 33 | T26087710 | D02 | 11/29/21 |
| 12 | T26087689 | A12 | 11/29/21 | 34 | T26087711 | D03 | 11/29/21 |
| 13 | T26087690 | A13 | 11/29/21 | 35 | T26087712 | E4 | 11/29/21 |
| 14 | T26087691 | A14 | 11/29/21 | 36 | T26087713 | E7 | 11/29/21 |
| 15 | T26087692 | A15 | 11/29/21 | 37 | T26087714 | E7T | 11/29/21 |
| 16 | T26087693 | A16 | 11/29/21 | 38 | T26087715 | G01 | 11/29/21 |
| 17 | T26087694 | A17 | 11/29/21 | 39 | T26087716 | G02 | 11/29/21 |
| 18 | T26087695 | A18 | 11/29/21 | 40 | T26087717 | G03 | 11/29/21 |
| 19 | T26087696 | A19 | 11/29/21 | 41 | T26087718 | G04 | 11/29/21 |
| 20 | T26087697 | A20 | 11/29/21 | 42 | T26087719 | G05 | 11/29/21 |
| 21 | T26087698 | A21 | 11/29/21 | 43 | T26087720 | G06 | 11/29/21 |
| 22 | T26087699 | A22 | 11/29/21 | 44 | T26087721 | G07 | 11/29/21 |


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Tibbetts Lumber Co., LLC.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2023.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: November 29,2021

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

RE: 613839 - 2169-A-Frame

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

**Site Information:**

Customer Info: Adams Homes-Gainesville Project Name: - Model: 2169-A-Tray-Frame
Lot/Block: 6 Subdivision: Forest Country
Address: SW Pinehurst Dr. , SW Pinehurst Dr.
City: Lake City. State: Fl

| No. | Seal# | Truss Name | Date |
|---|---|---|---|
| 45 | T26087722 | H4 | 11/29/21 |
| 46 | T26087723 | H5 | 11/29/21 |
| 47 | T26087724 | H7 | 11/29/21 |
| 48 | T26087725 | H7T | 11/29/21 |
| 49 | T26087726 | PB1 | 11/29/21 |
| 50 | T26087727 | PB2 | 11/29/21 |
| 51 | T26087728 | PB3 | 11/29/21 |
| 52 | T26087729 | PB4 | 11/29/21 |
| 53 | T26087730 | PB5 | 11/29/21 |
| 54 | T26087731 | PB6 | 11/29/21 |

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A01 | Hip Girder | 1 | 2 | T26087678 |

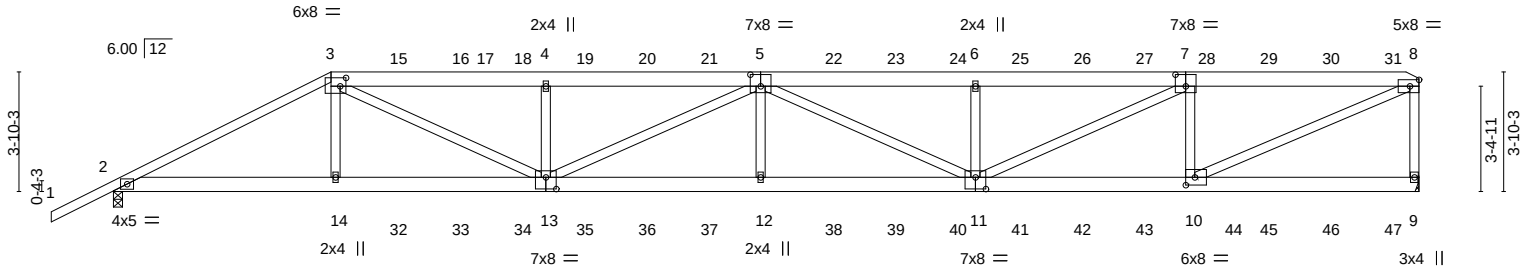
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:38 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-4Vukehwi?OQ6anrj?9RWkTUHeW27V8m6p0Z8vqyG0dN

| -2-0-0 | 7-0-0 | 13-10-15 | 20-9-14 | 27-8-12 | 34-7-11 | 41-7-0 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-0-0 | 6-10-15 | 6-10-15 | 6-10-15 | 6-10-15 | 6-11-5 | 0-5-0 |

Scale = 1:74.1




| 7-0-0 | 13-10-15 | 20-9-14 | 27-8-12 | 34-7-11 | 42-0-0 |
|---|---|---|---|---|---|
| 7-0-0 | 6-10-15 | 6-10-15 | 6-10-15 | 6-10-15 | 7-4-5 |

Plate Offsets (X,Y)-- [3:0-2-4,0-3-4], [5:0-4-0,0-4-8], [7:0-4-0,0-4-8], [10:0-3-8,0-3-0], [11:0-4-0,0-4-8], [13:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.66 | Vert(LL) | -0.36 | 12 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.65 | Vert(CT) | -0.68 | 12 | >740 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.77 | Horz(CT) | 0.11 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.24 | 12 | >999 | 240 | Weight: 550 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x6 SP No.2 *Except* 1-3: 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except* 11-13: 2x6 SP DSS

WEBS 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.

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

**REACTIONS.** (size) 2=0-3-8, 9=Mechanical
Max Horz 2=116(LC 7)
Max Uplift 2=-221(LC 8), 9=-250(LC 8)
Max Grav 2=3065(LC 1), 9=3224(LC 1)

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

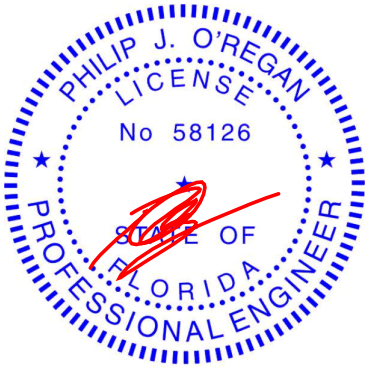
TOP CHORD 2-3=-6145/314, 3-4=-8832/629, 4-5=-8830/628, 5-6=-8908/697, 6-7=-8908/697, 7-8=-5780/470, 8-9=-3057/331

BOT CHORD 2-14=-240/5421, 13-14=-231/5442, 12-13=-688/9972, 11-12=-688/9972, 10-11=-421/5881

WEBS 3-14=0/725, 3-13=-369/3854, 4-13=-845/291, 5-13=-1301/140, 5-12=0/613, 5-11=-1185/64, 6-11=-708/253, 7-11=-234/3386, 7-10=-2358/411, 8-10=-474/6291

**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: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right 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.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=250.
11) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**NOTES-**

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down and 81 lb up at 7-0-0, 111 lb down and 77 lb up at 9-0-12, 111 lb down and 77 lb up at 11-0-12, 111 lb down and 77 lb up at 13-0-12, 111 lb down and 77 lb up at 15-0-12, 111 lb down and 77 lb up at 17-0-12, 111 lb down and 77 lb up at 19-0-12, 111 lb down and 77 lb up at 21-0-12, 111 lb down and 77 lb up at 23-0-12, 111 lb down and 77 lb up at 25-0-12, 111 lb down and 77 lb up at 27-0-12, 111 lb down and 77 lb up at 29-0-12, 111 lb down and 77 lb up at 31-0-12, 111 lb down and 77 lb up at 33-0-12, 111 lb down and 77 lb up at 35-0-12, 111 lb down and 77 lb up at 37-0-12, and 111 lb down and 77 lb up at 39-0-12, and 117 lb down and 76 lb up at 41-0-12 on top chord, and 306 lb down at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 23-0-12, 96 lb down at 25-0-12, 96 lb down at 27-0-12, 96 lb down at 29-0-12, 96 lb down at 31-0-12, 96 lb down at 33-0-12, 96 lb down at 35-0-12, 96 lb down at 37-0-12, and 96 lb down at 39-0-12, and 100 lb down at 41-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-8=-54, 2-9=-20
   Concentrated Loads (lb)
   Vert: 3=-111(F) 14=-266(F) 5=-111(F) 12=-48(F) 15=-111(F) 16=-111(F) 18=-111(F) 19=-111(F) 20=-111(F) 21=-111(F) 22=-111(F) 23=-111(F) 24=-111(F) 25=-111(F) 26=-111(F) 27=-111(F) 28=-111(F) 29=-111(F) 30=-111(F) 31=-117(F) 32=-48(F) 33=-48(F) 34=-48(F) 35=-48(F) 36=-48(F) 37=-48(F) 38=-48(F) 39=-48(F) 40=-48(F) 41=-48(F) 42=-48(F) 43=-48(F) 44=-48(F) 45=-48(F) 46=-48(F) 47=-50(F)


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

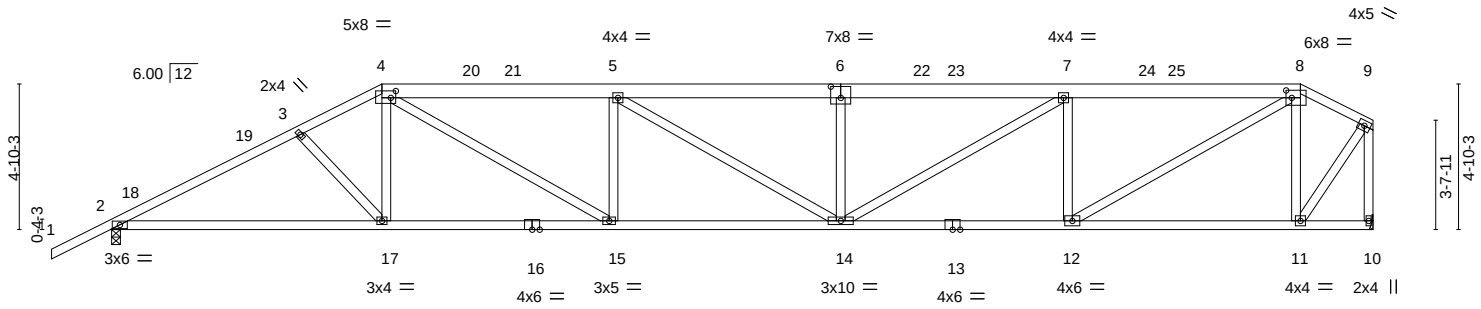
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A02 | HIP | 1 | 1 | T26087679 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:39 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-ZiS6r1xKmiYzBxQvZsylHh1SFwJuEfVF1gJhRGyG0dM

| -2-0-0 | 6-3-6 | 9-0-0 | 16-8-9 | 24-3-5 | 31-10-2 | 39-7-0 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 6-3-6 | 2-8-10 | 7-8-9 | 7-6-13 | 7-6-13 | 7-8-14 | 2-5-0 |

Scale = 1:76.7




| 9-0-0 | 16-8-9 | 24-3-5 | 31-10-2 | 39-7-0 | 42-0-0 |
|---|---|---|---|---|---|
| 9-0-0 | 7-8-9 | 7-6-13 | 7-6-13 | 7-8-14 | 2-5-0 |

Plate Offsets (X,Y)-- [4:0-2-0,0-2-12], [6:0-4-0,0-4-8], [8:0-2-4,0-3-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.67 | Vert(LL) | -0.28 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 1.00 | Vert(CT) | -0.57 | 14-15 | >881 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.55 | Horz(CT) | 0.15 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.17 | 14-15 | >999 | 240 | Weight: 253 lb | FT = 20% |

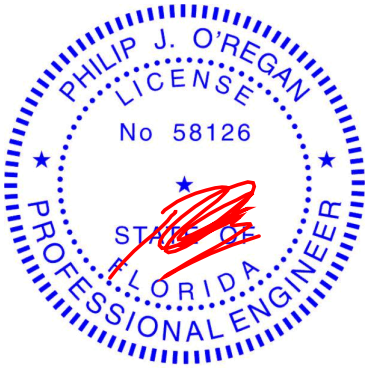
**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-8: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 10=Mechanical
Max Horz 2=133(LC 11)
Max Uplift 2=-136(LC 12), 10=-73(LC 12)
Max Grav 2=1662(LC 1), 10=1540(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2915/237, 3-4=-2716/216, 4-5=-3505/294, 5-6=-3561/283, 6-7=-3561/283, 7-8=-2700/234, 8-9=-907/103, 9-10=-1546/123
BOT CHORD 2-17=-294/2523, 15-17=-217/2412, 14-15=-297/3504, 12-14=-228/2699, 11-12=-80/771
WEBS 4-17=0/392, 4-15=-114/1333, 5-15=-531/142, 6-14=-390/116, 7-14=-64/1006, 7-12=-973/179, 8-12=-171/2237, 8-11=-997/167, 9-11=-105/1381

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 39-7-0, Exterior(2E) 39-7-0 to 41-10-4 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
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) 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) 10.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601


MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A03 | Hip | 1 | 1 | T26087680 |

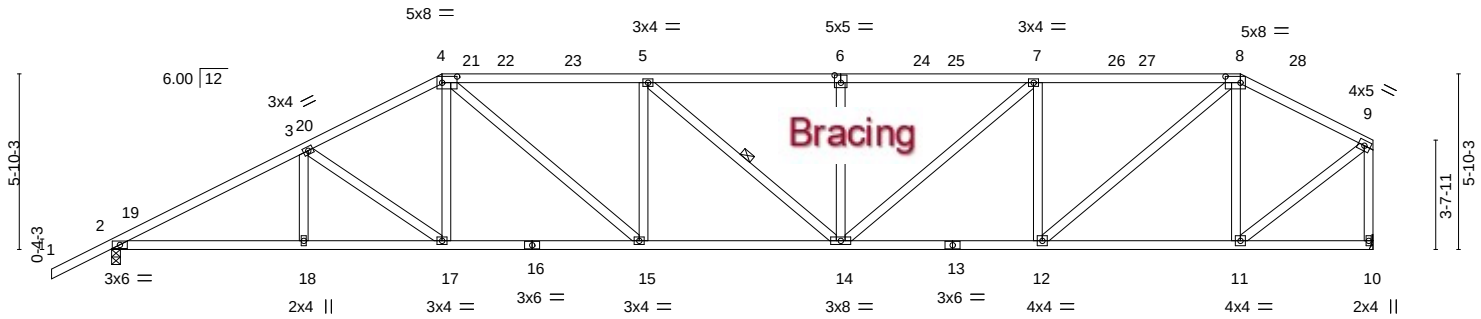
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:40 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-1u?U3NxyX?hqp5?57aT?quabzKiOz7xOGK2F_iyG0dL

| -2-0-0 | 6-4-12 | 11-0-0 | 17-8-9 | 24-3-5 | 30-10-2 | 37-7-0 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 6-4-12 | 4-7-4 | 6-8-9 | 6-6-13 | 6-6-13 | 6-8-14 | 4-5-0 |

Scale = 1:76.7




| 6-4-12 | 11-0-0 | 17-8-9 | 24-3-5 | 30-10-2 | 37-7-0 | 42-0-0 |
|---|---|---|---|---|---|---|
| 6-4-12 | 4-7-4 | 6-8-9 | 6-6-13 | 6-6-13 | 6-8-14 | 4-5-0 |

Plate Offsets (X,Y)-- [4:0-6-0,0-2-8], [6:0-2-8,0-3-0], [8:0-6-0,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.24 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.46 | 14-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.47 | Horz(CT) | 0.14 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.14 | 14-15 | >999 | 240 | Weight: 244 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

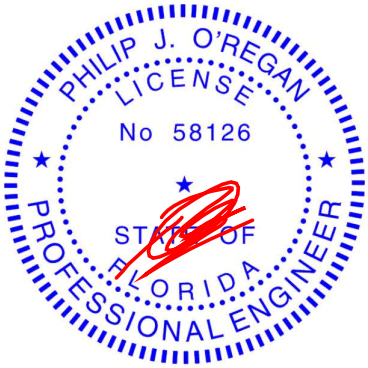
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14

**REACTIONS.** (size) 2=0-3-8, 10=Mechanical
Max Horz 2=151(LC 11)
Max Uplift 2=-136(LC 12), 10=-73(LC 12)
Max Grav 2=1662(LC 1), 10=1540(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2952/218, 3-4=-2561/229, 4-5=-2864/268, 5-6=-2856/263, 6-7=-2856/263, 7-8=-2298/229, 8-9=-1290/142, 9-10=-1506/152
BOT CHORD 2-18=-275/2553, 17-18=-275/2553, 15-17=-211/2243, 14-15=-246/2864, 12-14=-200/2298, 11-12=-107/1093
WEBS 3-17=-386/76, 4-17=0/384, 4-15=-62/895, 5-15=-435/122, 6-14=-337/101, 7-14=-48/743, 7-12=-870/157, 8-12=-120/1580, 8-11=-728/139, 9-11=-106/1386

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 37-7-0, Exterior(2E) 37-7-0 to 41-10-4 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
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) 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) 10.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

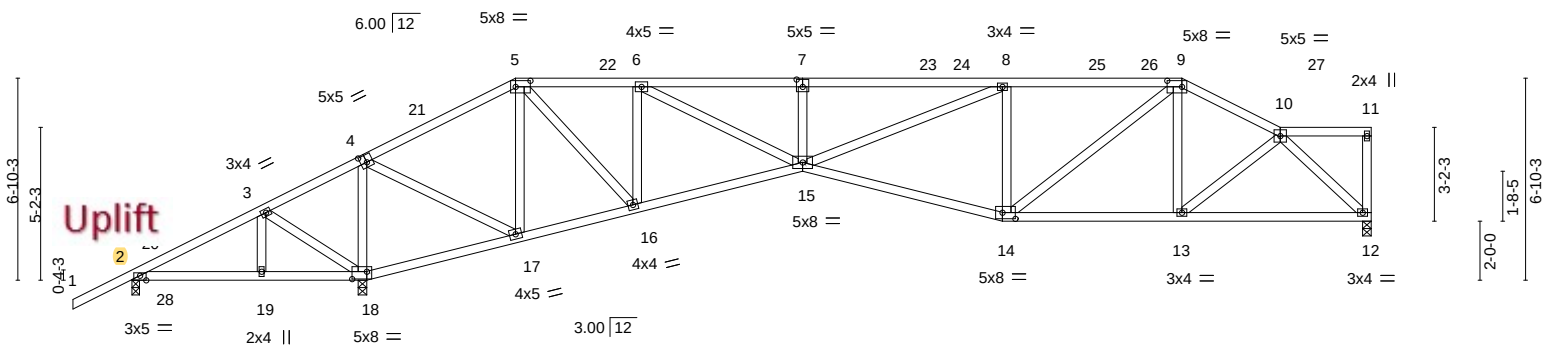

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A04 | ROOF SPECIAL | 1 | 1 | T26087681 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:42 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-zH7FU3zD3dxY2O8UE_VTvJfzI7P8R0yhkeXM2byG0dJ

| -2-0-0 | 4-4-11 | 7-11-8 | 13-0-0 | 17-1-8 | 22-8-12 | 29-6-0 | 35-7-0 | 38-11-0 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 4-4-11 | 3-6-13 | 5-0-8 | 4-1-8 | 5-7-5 | 6-9-4 | 6-1-0 | 3-4-0 | 3-1-0 |

Scale = 1:78.1




| 4-4-11 | 7-9-12 | 7-11-8 | 13-0-0 | 17-1-8 | 22-8-12 | 29-6-0 | 35-7-0 | 38-11-0 | 41-8-8 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-4-11 | 3-5-1 | 0-1-12 | 5-0-8 | 4-1-8 | 5-7-5 | 6-9-4 | 6-1-0 | 3-4-0 | 2-9-8 | 0-3-8 |

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [4:0-2-8,0-3-0], [5:0-6-0,0-2-8], [7:0-2-8,0-3-0], [9:0-6-0,0-2-8], [14:0-5-4,0-2-8], [18:0-6-0,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.68 | Vert(LL) | -0.18 | 15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.65 | Vert(CT) | -0.38 | 14-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.57 | Horz(CT) | 0.11 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.10 | 15 | >999 | 240 | Weight: 239 lb | FT = 20% |

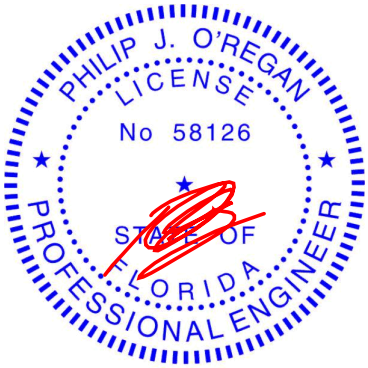
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-2 oc bracing.

**REACTIONS.** (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
Max Horz 2=145(LC 9)
Max Uplift 12=-49(LC 12), 2=-668(LC 22), 18=-207(LC 12)
Max Grav 12=1051(LC 1), 18=2611(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-115/1646, 3-4=-301/1922, 5-6=-824/97, 6-7=-2362/185, 7-8=-2362/185, 8-9=-1674/184, 9-10=-1334/142
BOT CHORD 2-19=-1444/22, 18-19=-1444/23, 17-18=-1772/205, 15-16=-65/862, 14-15=-160/1719, 13-14=-110/1160, 12-13=-117/949
WEBS 4-18=-1929/285, 4-17=-180/1872, 5-17=-1169/182, 5-16=-95/1295, 6-16=-1056/141, 6-15=-142/1727, 7-15=-339/105, 8-15=-39/785, 8-14=-683/139, 9-14=-51/694, 10-13=0/330, 10-12=-1303/144, 3-18=-328/253

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 35-7-0, Exterior(2R) 35-7-0 to 38-7-0, Interior(1) 38-7-0 to 41-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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.
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) 18=207.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
9) Two RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
10) Double installations of RT7A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601


MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A05 | ROOF SPECIAL | 1 | 1 | T26087682 |

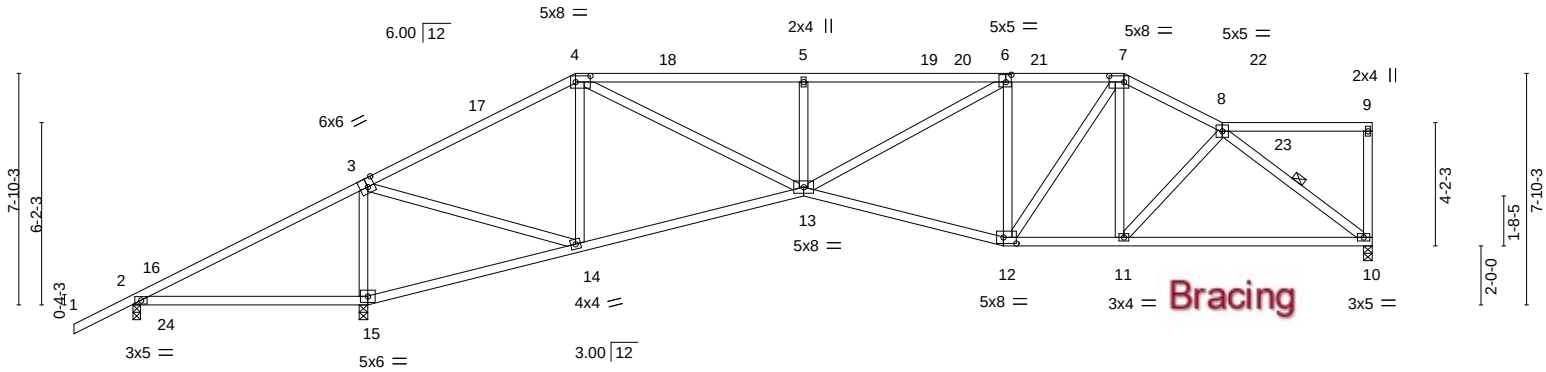
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:43 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-RThdhO_rqw3PgYjgoi0iRXB3JXkTAT5ryIHva1yG0dI

| -2-0-0 | 7-11-8 | 15-0-0 | 22-8-12 | 29-6-0 | 33-7-0 | 36-11-0 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 7-0-8 | 7-8-12 | 6-9-4 | 4-1-0 | 3-4-0 | 5-1-0 |

Scale = 1:78.1




| 7-9-12 | 7-11-8 | 15-0-0 | 22-8-12 | 29-6-0 | 33-7-0 | 36-11-0 | 41-8-8 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 7-0-8 | 7-8-12 | 6-9-4 | 4-1-0 | 3-4-0 | 4-9-8 | 0-3-8 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.98 | Vert(LL) | -0.16 | 10-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.71 | Vert(CT) | -0.34 | 10-11 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.51 | Horz(CT) | 0.10 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.25 | 2-15 | >373 | 240 | Weight: 233 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 4-10-10 oc bracing. |
| WEBS | 1 Row at midpt 8-10 |

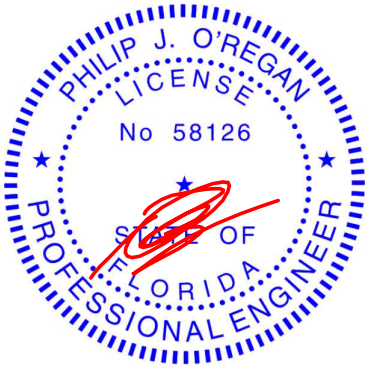
**REACTIONS.** (size) 10=0-3-8, 2=0-3-1, 15=0-3-8
Max Horz 2=175(LC 9)
Max Uplift 10=-53(LC 12), 2=-364(LC 22), 15=-186(LC 12)
Max Grav 10=1120(LC 1), 15=2241(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-242/1259, 3-4=-826/99, 4-5=-2129/226, 5-6=-2129/226, 6-7=-1509/199, 7-8=-1426/169 |
| BOT CHORD | 2-15=-1025/85, 14-15=-1104/107, 13-14=-103/667, 12-13=-182/1562, 11-12=-132/1239, 10-11=-156/1184 |
| WEBS | 3-15=-1820/321, 3-14=-135/1781, 4-14=-775/187, 4-13=-166/1677, 5-13=-440/140, 6-13=-78/750, 6-12=-671/143, 7-12=-64/517, 8-10=-1469/171 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 33-7-0, Exterior(2R) 33-7-0 to 36-7-0, Interior(1) 36-7-0 to 41-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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.
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) 15=186.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 2. This connection is for uplift only and does not consider lateral forces.



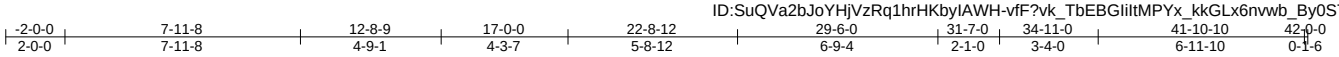

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

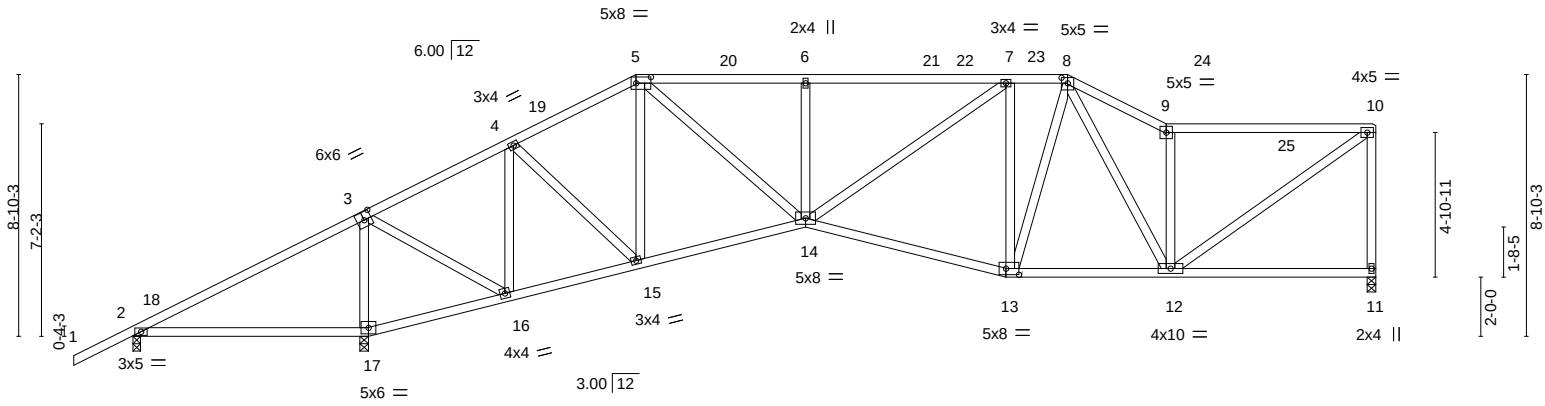

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A06 | Roof Special | 1 | 1 | T26087683 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:44 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-vfF?vk_TbEBGIiltMPYx_kkGLx6nvwb_By0S7UyG0dH




Scale = 1:77.9



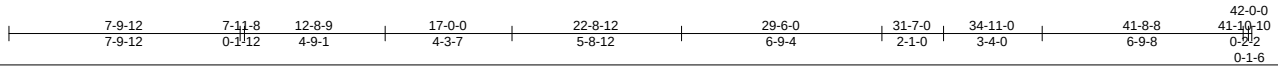




Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [13:0-5-4,0-2-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.84 | Vert(LL) | -0.13 | 2-17 | >706 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | -0.28 | 13-14 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.49 | Horz(CT) | 0.08 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 256 lb | FT = 20% |

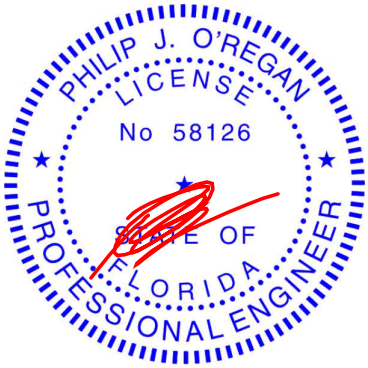
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-4-6 oc bracing: 2-17
5-9-0 oc bracing: 16-17.

**REACTIONS.** (size) 2=0-3-1, 17=0-3-8, 11=0-3-8
Max Horz 2=205(LC 9)
Max Uplift 2=-264(LC 22), 17=-109(LC 12), 11=-55(LC 12)
Max Grav 2=46(LC 9), 17=2134(LC 1), 11=1141(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-261/1071, 3-4=-490/90, 4-5=-1065/161, 5-6=-1753/226, 6-7=-1753/226, 7-8=-1323/209, 8-9=-1501/234, 9-10=-1267/167, 10-11=-1075/151
BOT CHORD 2-17=-862/91, 16-17=-1001/112, 15-16=-130/395, 14-15=-175/933, 13-14=-194/1366, 12-13=-165/1191
WEBS 3-17=-1747/310, 3-16=-176/1506, 4-15=-61/737, 5-15=-522/114, 5-14=-114/1133, 6-14=-374/123, 7-14=-85/590, 7-13=-652/168, 8-13=-58/514, 9-12=-956/206, 10-12=-145/1524, 4-16=-981/175

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 20-0-0, Interior(1) 20-0-0 to 31-7-0, Exterior(2R) 31-7-0 to 34-7-0, Interior(1) 34-7-0 to 41-10-4 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
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) 17=109.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

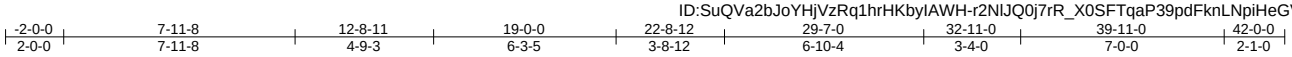
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A07 | Roof Special | 1 | 1 | T26087684 |

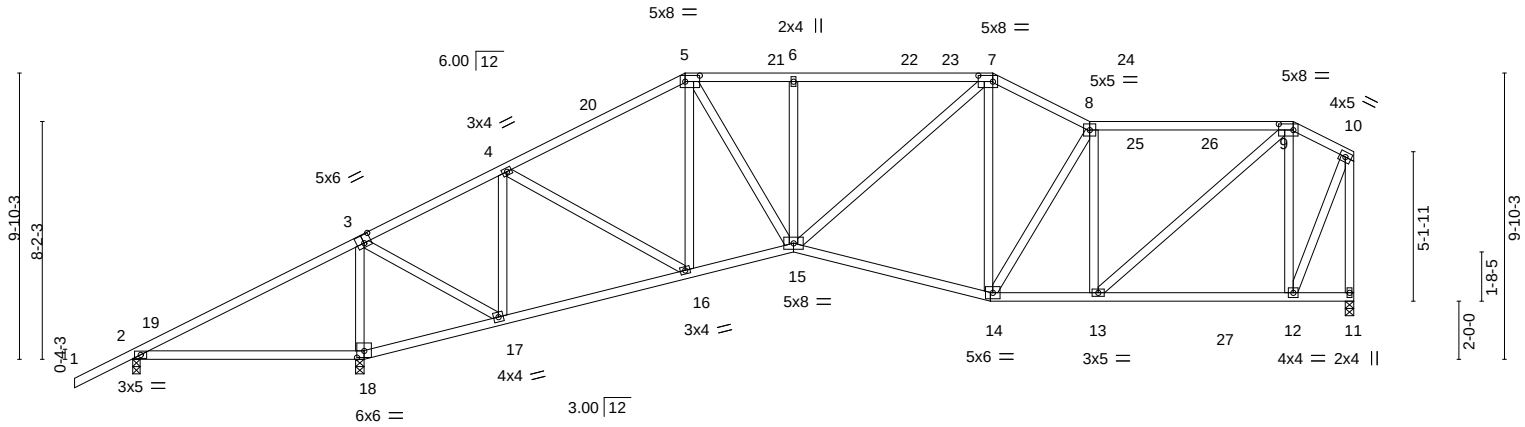
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:46 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-r2NlJQ0j7rR_X0SFTqaP39pdFknLNpiHeGVZBMyG0dF




Scale = 1:79.3



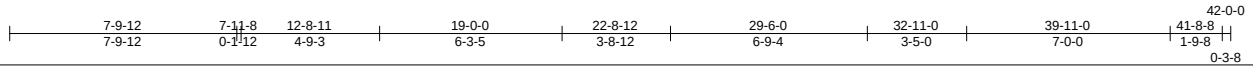




Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [7:0-6-0,0-2-8], [9:0-6-0,0-2-8], [18:0-3-0,0-2-12]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.15 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | -0.30 | 14-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.52 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.05 | 15 | >999 | 240 | Weight: 270 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-7-1 oc bracing: 2-18 6-0-0 oc bracing: 17-18. |

**REACTIONS.** (size) 2=0-3-1, 18=0-3-8, 11=0-3-8
Max Horz 2=221(LC 11)
Max Uplift 2=-168(LC 22), 18=-103(LC 12), 11=-56(LC 12)
Max Grav 2=66(LC 21), 18=2286(LC 17), 11=1280(LC 19)

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

| | |
|---|---|
| TOP CHORD | 2-3=-248/1026, 3-4=-666/103, 4-5=-1398/182, 5-6=-1649/235, 6-7=-1649/235, 7-8=-1458/217, 8-9=-1408/190, 9-10=-554/109, 10-11=-1314/125 |
| BOT CHORD | 2-18=-811/84, 17-18=-884/97, 16-17=-144/645, 15-16=-191/1284, 14-15=-181/1356, 13-14=-179/1422, 12-13=-79/462 |
| WEBS | 3-18=-1854/303, 3-17=-170/1592, 4-17=-951/192, 4-16=-59/746, 5-16=-369/102, 5-15=-92/876, 6-15=-344/111, 7-15=-82/534, 8-14=-306/67, 8-13=-649/146, 9-13=-127/1244, 9-12=-849/202, 10-12=-130/1181 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-0-0, Exterior(2R) 19-0-0 to 22-0-0, Interior(1) 22-0-0 to 29-7-0, Exterior(2R) 29-7-0 to 32-7-0, Interior(1) 32-7-0 to 39-11-0, Exterior(2E) 39-11-0 to 41-10-4 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
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) 18=103.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A08 | Piggyback Base | 1 | 1 | T26087685 |

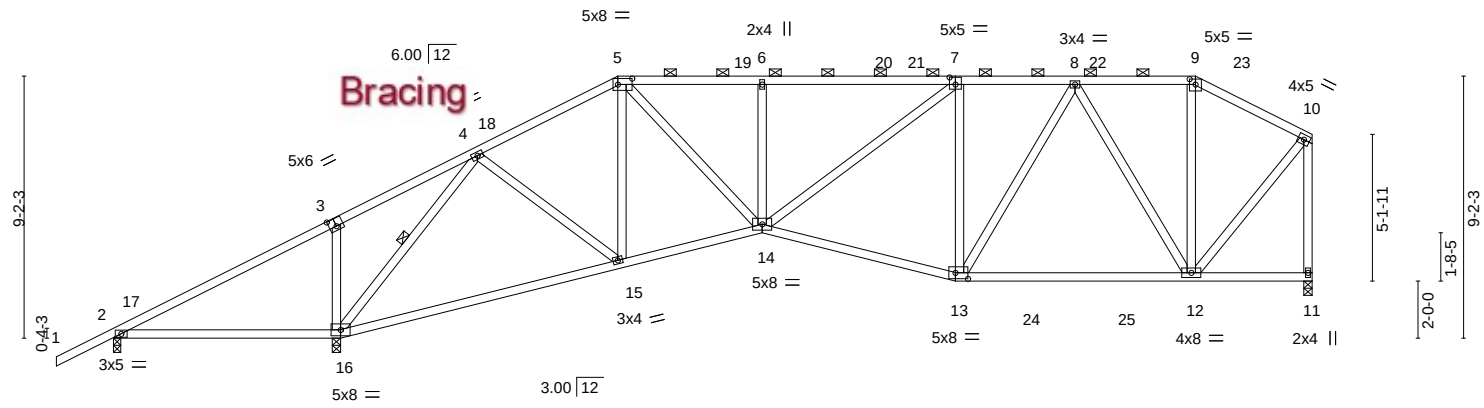
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:47 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-KEw8Xm1Lu9Zr9A1R1Y5ecNMoS8376AhQtwF7joyG0dE

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 33-8-5 | 37-10-15 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 4-2-5 | 4-2-10 | 4-1-1 |

Scale = 1:80.7




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 37-10-15 | 42-0-0 |
|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 8-4-15 | 4-1-1 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.78 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.53 | 15-16 | >766 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.92 | Horz(CT) | 0.10 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 257 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 5-9. |
| BOT CHORD | Rigid ceiling directly applied or 5-3-0 oc bracing. |
| WEBS | 1 Row at midpt 4-16 |

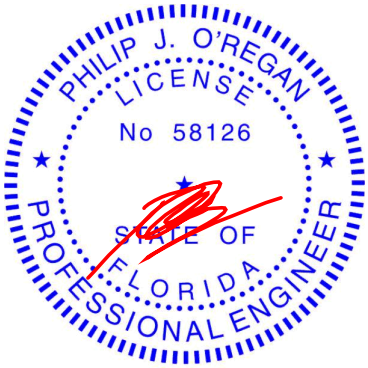
**REACTIONS.** (size) 2=0-3-1, 16=0-3-8, 11=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-161(LC 22), 16=-106(LC 12), 11=-56(LC 12)
Max Grav 2=49(LC 9), 16=2273(LC 17), 11=1291(LC 18)

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

| | |
|---|---|
| TOP CHORD | 2-3=-220/953, 3-4=-130/895, 4-5=-1370/141, 5-6=-1900/208, 6-7=-1900/208, 7-8=-1447/182, 8-9=-740/131, 9-10=-855/122, 10-11=-1279/120 |
| BOT CHORD | 2-16=-757/74, 15-16=-162/622, 14-15=-158/1261, 13-14=-165/1536, 12-13=-138/1144 |
| WEBS | 3-16=-392/152, 4-16=-2129/241, 4-15=-1/845, 5-15=-409/109, 5-14=-104/1041, 6-14=-351/116, 7-14=-83/586, 7-13=-640/146, 8-13=-22/632, 8-12=-825/107, 10-12=-77/1102 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 21-10-15, Interior(1) 21-10-15 to 37-10-15, Exterior(2E) 37-10-15 to 41-10-4 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
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) 16=106.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A09 | PIGGYBACK BASE | 1 | 1 | T26087686 |

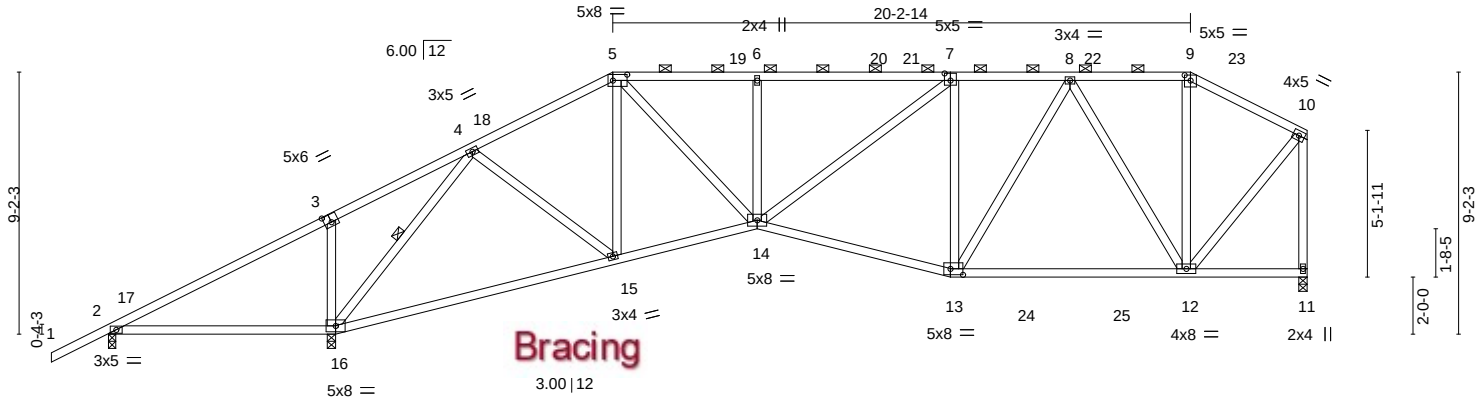
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:48 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-oRUWk61zfThhnJcebFct8avyCYPMrdxa6a_gGFyG0dD

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 33-8-5 | 37-10-15 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 4-2-5 | 4-2-10 | 4-1-1 |

Scale = 1:80.7




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 37-10-15 | 42-0-0 |
|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 8-4-15 | 4-1-1 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.78 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.53 | 15-16 | >766 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.92 | Horz(CT) | 0.10 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 257 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

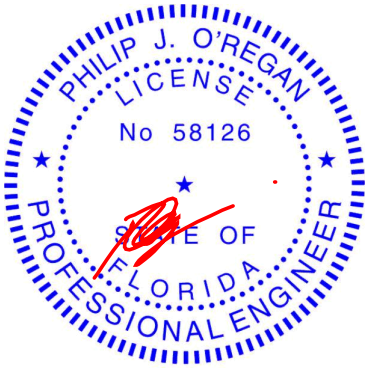
TOP CHORD Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 5-3-0 oc bracing.
WEBS 1 Row at midpt 4-16

**REACTIONS.** (size) 2=0-3-1, 16=0-3-8, 11=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-161(LC 22), 16=-106(LC 12), 11=-56(LC 12)
Max Grav 2=49(LC 9), 16=2273(LC 17), 11=1291(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-220/953, 3-4=-130/895, 4-5=-1370/141, 5-6=-1900/208, 6-7=-1900/208, 7-8=-1447/182, 8-9=-740/131, 9-10=-855/122, 10-11=-1279/120
BOT CHORD 2-16=-757/74, 15-16=-162/622, 14-15=-158/1261, 13-14=-165/1536, 12-13=-138/1144
WEBS 3-16=-392/152, 4-16=-2129/241, 4-15=-1/845, 5-15=-409/109, 5-14=-104/1041, 6-14=-351/116, 7-14=-83/586, 7-13=-640/146, 8-13=-22/632, 8-12=-825/107, 10-12=-77/1102

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 21-10-15, Interior(1) 21-10-15 to 37-10-15, Exterior(2E) 37-10-15 to 41-10-4 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
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) 16=106.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601


MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A10 | Piggyback Base | 1 | 1 | T26087687 |

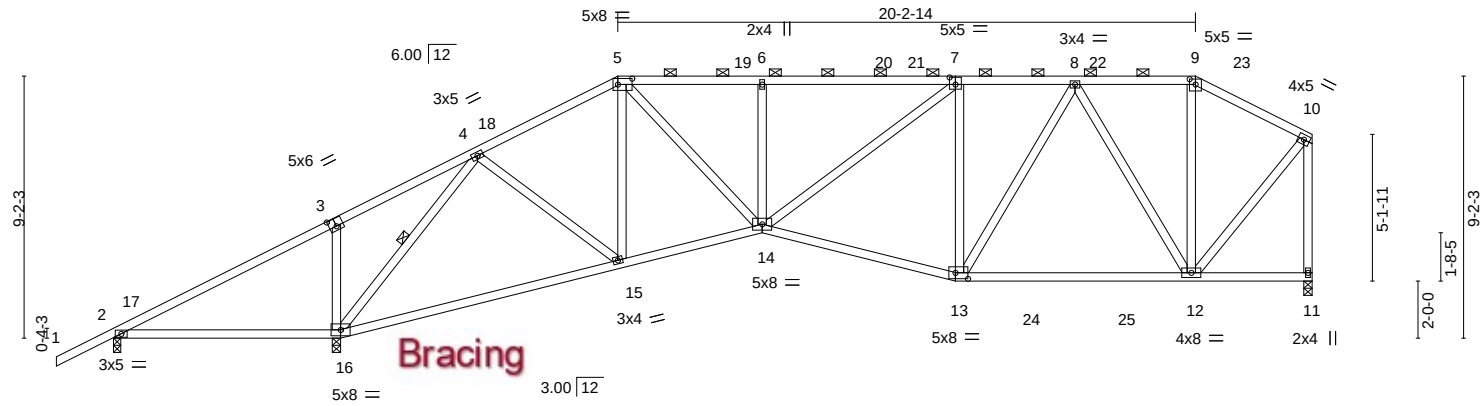
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:49 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-Gd2uyS2cQmpYOTBq8z76hoR7yylba4BjLEkDohyG0dC

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 33-8-5 | 37-10-15 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 4-2-5 | 4-2-10 | 4-1-1 |

Scale = 1:80.7




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 37-10-15 | 42-0-0 |
|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 8-4-15 | 4-1-1 |

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

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.78 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.53 | 15-16 | >766 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.92 | Horz(CT) | 0.10 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 257 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

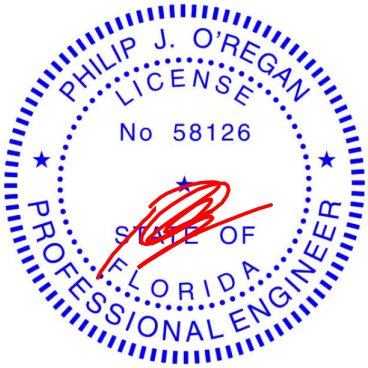
TOP CHORD Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 5-3-0 oc bracing.
WEBS 1 Row at midpt 4-16

**REACTIONS.** (size) 2=0-3-1, 16=0-3-8, 11=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-161(LC 22), 16=-106(LC 12), 11=-56(LC 12)
Max Grav 2=49(LC 9), 16=2273(LC 17), 11=1291(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-220/953, 3-4=-130/895, 4-5=-1370/141, 5-6=-1900/208, 6-7=-1900/208, 7-8=-1447/182, 8-9=-740/131, 9-10=-855/122, 10-11=-1279/120
BOT CHORD 2-16=-757/74, 15-16=-162/622, 14-15=-158/1261, 13-14=-165/1536, 12-13=-138/1144
WEBS 3-16=-392/152, 4-16=-2129/241, 4-15=-1/845, 5-15=-409/109, 5-14=-104/1041, 6-14=-351/116, 7-14=-83/586, 7-13=-640/146, 8-13=-22/632, 8-12=-825/107, 10-12=-77/1102

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 21-10-15, Interior(1) 21-10-15 to 37-10-15, Exterior(2E) 37-10-15 to 41-10-4 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
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) 16=106.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A11 | PIGGYBACK BASE | 1 | 1 | T26087688 |

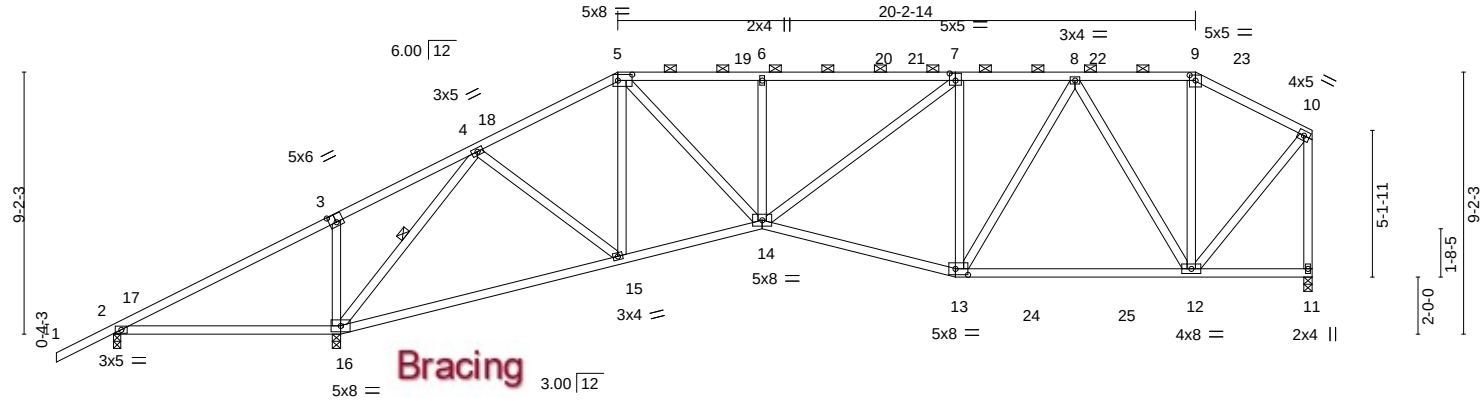
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:51 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-C0AeN84sxO3GenKDGNAamDXTRlR32_g0oYDKsayG0dA

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 33-8-5 | 37-10-15 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 4-2-5 | 4-2-10 | 4-1-1 |

Scale = 1:80.7




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 37-10-15 | 42-0-0 |
|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 8-4-15 | 4-1-1 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.78 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.53 | 15-16 | >766 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.92 | Horz(CT) | 0.10 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 257 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

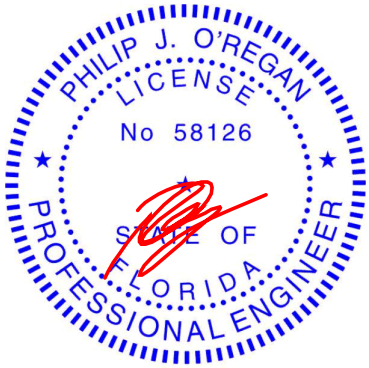
TOP CHORD Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 5-3-0 oc bracing.
WEBS 1 Row at midpt 4-16

**REACTIONS.** (size) 2=0-3-1, 16=0-3-8, 11=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-161(LC 22), 16=-106(LC 12), 11=-56(LC 12)
Max Grav 2=49(LC 9), 16=2273(LC 17), 11=1291(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-220/953, 3-4=-130/895, 4-5=-1370/141, 5-6=-1900/208, 6-7=-1900/208, 7-8=-1447/182, 8-9=-740/131, 9-10=-855/122, 10-11=-1279/120
BOT CHORD 2-16=-757/74, 15-16=-162/622, 14-15=-158/1261, 13-14=-165/1536, 12-13=-138/1144
WEBS 3-16=-392/152, 4-16=-2129/241, 4-15=-1/845, 5-15=-409/109, 5-14=-104/1041, 6-14=-351/116, 7-14=-83/586, 7-13=-640/146, 8-13=-22/632, 8-12=-825/107, 10-12=-77/1102

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 21-10-15, Interior(1) 21-10-15 to 37-10-15, Exterior(2E) 37-10-15 to 41-10-4 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
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) 16=106.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A12 | Piggyback Base | 1 | 1 | T26087689 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:52 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-gCk1aT5UihB7FxvPq5hpJQ3dD9o9nVFA1CztP0yG0d9

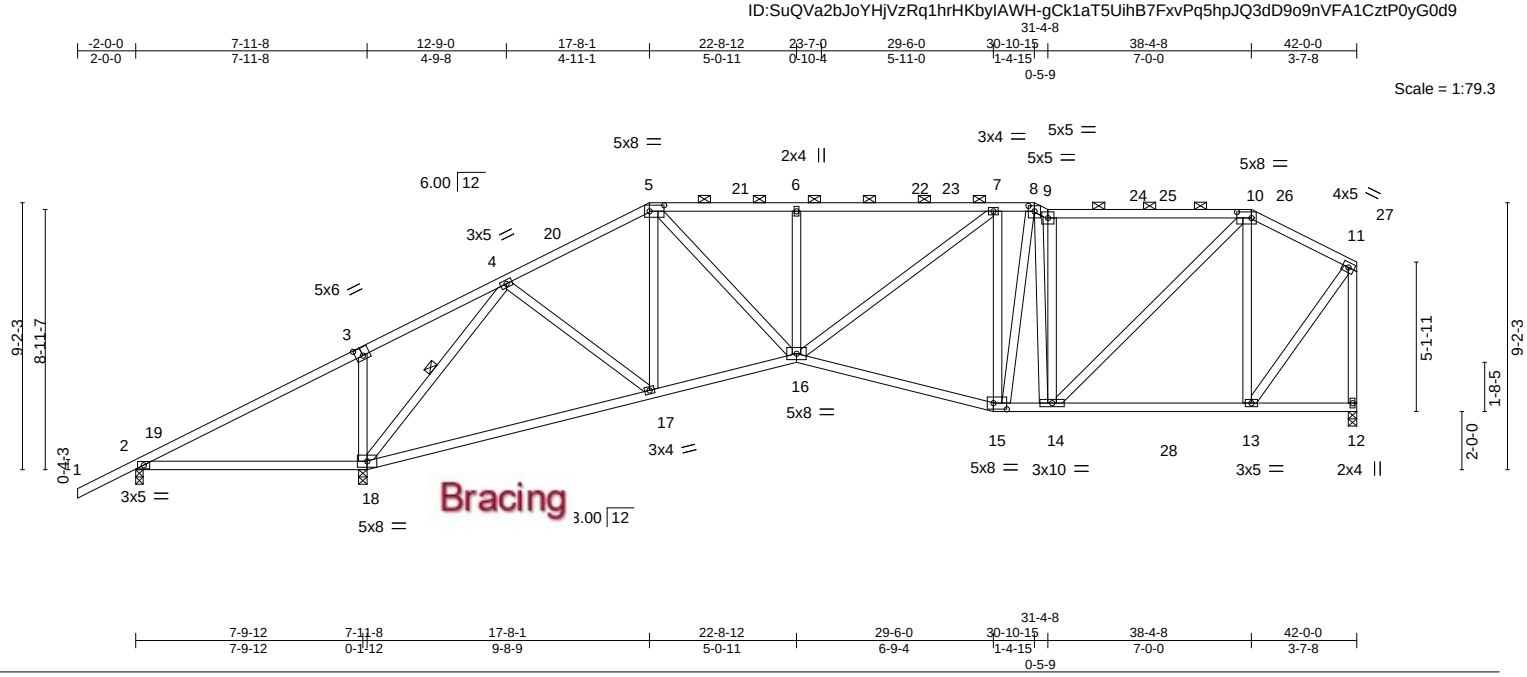



Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [10:0-6-0,0-2-8], [15:0-5-8,0-2-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.84 | Vert(LL) | -0.26 | 17-18 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.53 | 17-18 | >762 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.64 | Horz(CT) | 0.09 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 16 | >999 | 240 | Weight: 276 lb | FT = 20% |

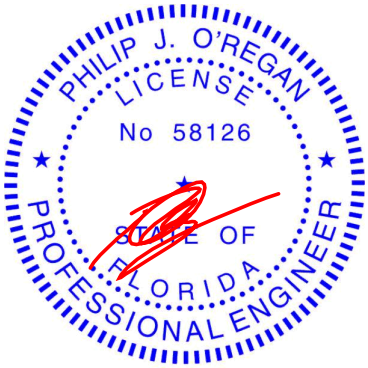
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-7 max.): 5-8, 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-1-10 oc bracing: 2-18.
WEBS 1 Row at midpt 4-18

**REACTIONS.** (size) 2=0-3-1, 18=0-3-8, 12=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-178(LC 22), 18=-109(LC 12), 12=-55(LC 12)
Max Grav 2=50(LC 9), 18=2287(LC 17), 12=1285(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-248/984, 3-4=-158/925, 4-5=-1348/150, 5-6=-1878/244, 6-7=-1878/244, 7-8=-1419/194, 8-9=-1514/224, 9-10=-1363/182, 10-11=-786/129, 11-12=-1262/151
BOT CHORD 2-18=-785/88, 17-18=-167/596, 16-17=-179/1239, 15-16=-203/1504, 14-15=-176/1375, 13-14=-101/662
WEBS 3-18=-393/152, 4-18=-2137/283, 4-17=-22/848, 5-17=-418/125, 5-16=-126/1035, 6-16=-354/117, 7-16=-80/598, 7-15=-580/170, 8-15=-76/360, 8-14=-84/280, 9-14=-811/197, 10-14=-106/1011, 10-13=-662/174, 11-13=-119/1100

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 20-8-1, Interior(1) 20-8-1 to 30-10-15, Exterior(2E) 30-10-15 to 31-4-8, Interior(1) 31-4-8 to 38-4-8, Exterior(2R) 38-4-8 to 41-4-8, Interior(1) 41-4-8 to 41-10-4 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
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) 18=109.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

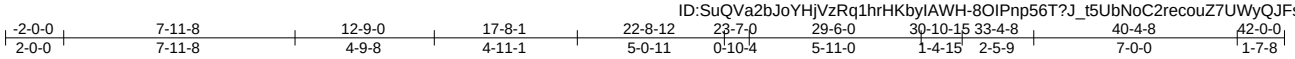
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A13 | PIGGYBACK BASE | 1 | 1 | T26087690 |

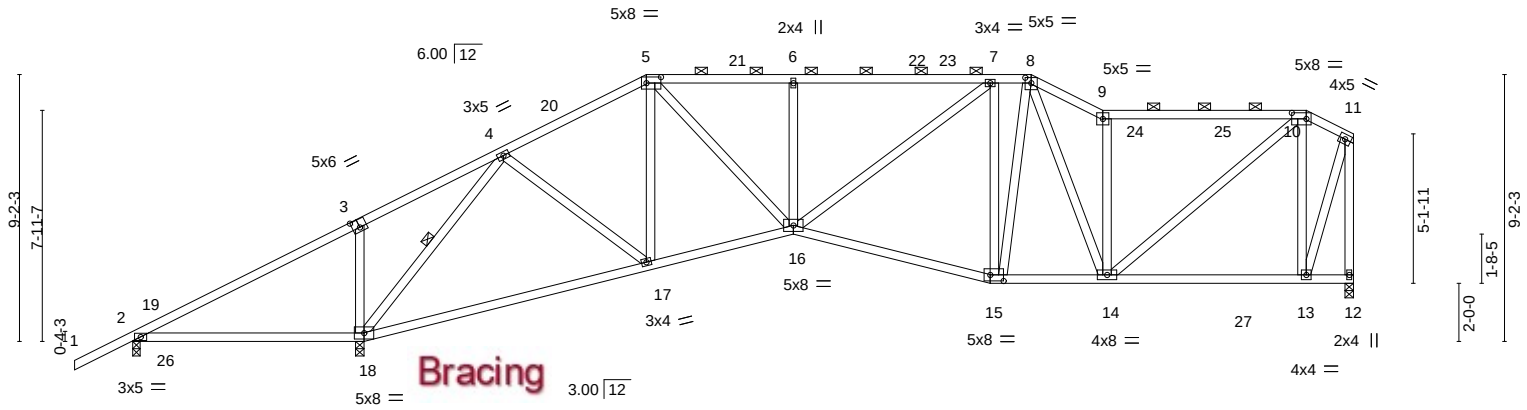
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:53 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-8OIPnp56T?J_t5UbNoC2recouZ7UWyQJFsiRxSyG0d8




Scale = 1:79.3



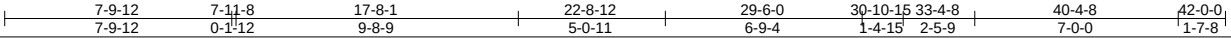




Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [10:0-6-0,0-2-8], [15:0-5-8,0-2-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.85 | Vert(LL) | -0.26 | 17-18 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.54 | 17-18 | >759 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.65 | Horz(CT) | 0.09 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.26 | 2-18 | >360 | 240 | Weight: 272 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-6-1 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-6 max.): 5-8, 9-10. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-11-11 oc bracing: 2-18. |
| WEBS | 1 Row at midpt 4-18 |

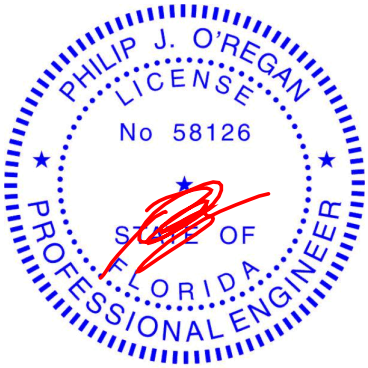
**REACTIONS.** (size) 2=0-3-1, 18=0-3-8, 12=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-197(LC 22), 18=-183(LC 12), 12=-54(LC 12)
Max Grav 2=41(LC 21), 18=2247(LC 17), 12=1275(LC 19)

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

| | |
|---|---|
| TOP CHORD | 2-3=-248/1026, 3-4=-149/971, 4-5=-1320/133, 5-6=-1840/228, 6-7=-1840/228, 7-8=-1408/190, 8-9=-1645/220, 9-10=-1410/164, 10-11=-461/95, 11-12=-1331/109 |
| BOT CHORD | 2-18=-830/79, 17-18=-151/569, 16-17=-166/1215, 15-16=-193/1476, 14-15=-165/1325, 13-14=-69/385 |
| WEBS | 3-18=-393/180, 4-18=-2154/253, 4-17=-18/858, 5-17=-427/138, 5-16=-128/1026, 6-16=-353/116, 7-16=-77/594, 7-15=-687/188, 8-15=-82/538, 8-14=-70/344, 9-14=-962/191, 10-14=-131/1325, 10-13=-917/214, 11-13=-132/1226 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 20-8-1, Interior(1) 20-8-1 to 30-10-15, Exterior(2E) 30-10-15 to 33-4-8, Interior(1) 33-4-8 to 40-4-8, Exterior(2E) 40-4-8 to 41-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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.
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) 18=183.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601


MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A14 | PIGGYBACK BASE | 1 | 1 | T26087691 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:54 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-casn?96kEJRrVE3oxWjHOr9_QzTfFPeSUWS_TuyG0d7

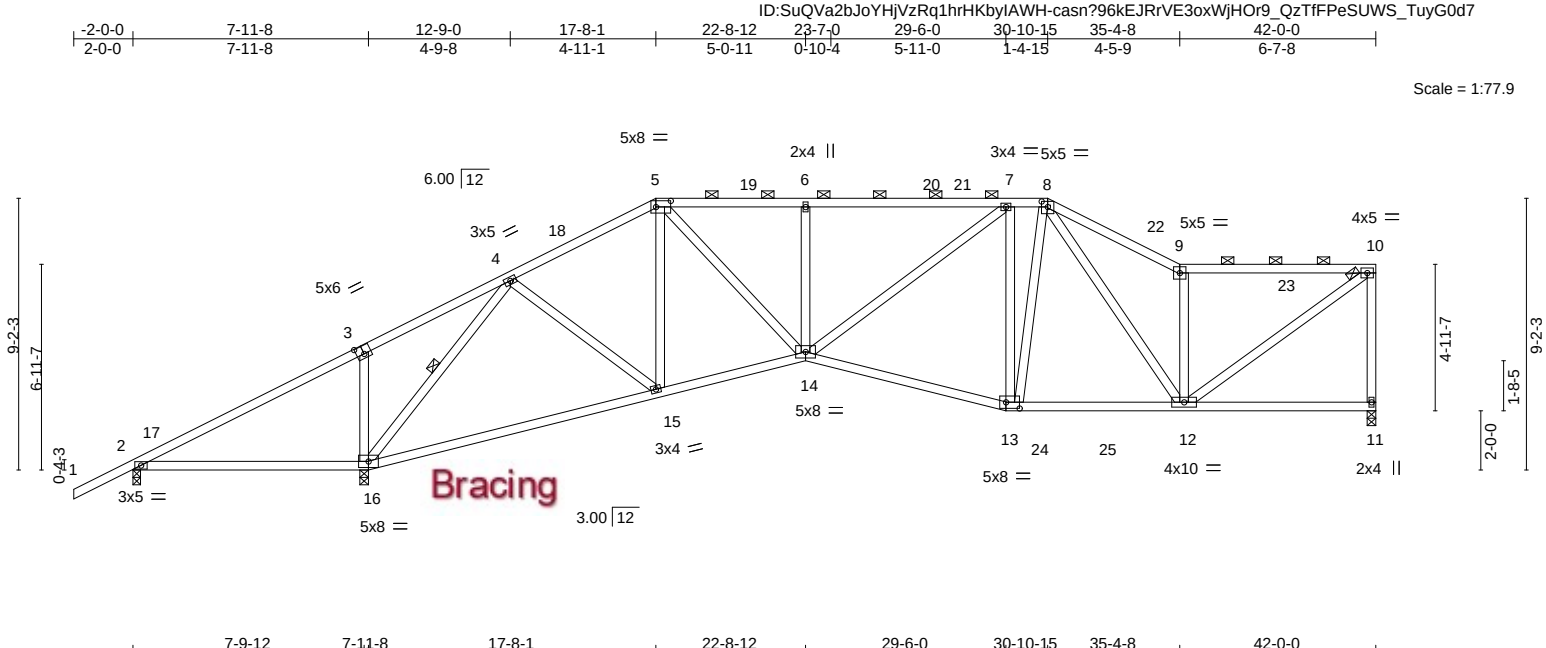



Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [13:0-5-8,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.54 | 15-16 | >759 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.65 | Horz(CT) | 0.09 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 254 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-14 max.): 5-8, 9-10. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-11-7 oc bracing: 2-16. |
| WEBS | 1 Row at midpt 4-16 |

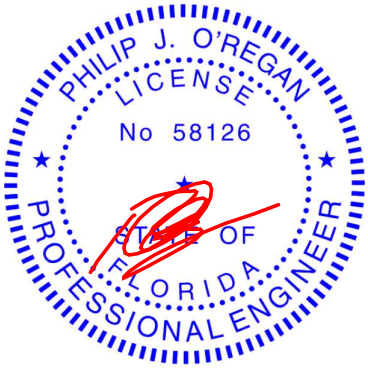
**REACTIONS.** (size) 11=0-3-8, 2=0-3-1, 16=0-3-8
Max Horz 2=207(LC 11)
Max Uplift 11=-55(LC 12), 2=-194(LC 22), 16=-109(LC 12)
Max Grav 11=1268(LC 19), 2=42(LC 21), 16=2307(LC 17)

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

| | |
|---|---|
| TOP CHORD | 2-3=-241/1026, 3-4=-150/968, 4-5=-1324/157, 5-6=-1852/234, 6-7=-1851/234, 7-8=-1437/211, 8-9=-1722/236, 9-10=-1460/164, 10-11=-1170/149 |
| BOT CHORD | 2-16=-833/93, 15-16=-165/570, 14-15=-173/1220, 13-14=-189/1500, 12-13=-164/1343 |
| WEBS | 3-16=-393/151, 4-16=-2153/272, 4-15=-17/863, 5-15=-425/121, 5-14=-117/1042, 6-14=-354/117, 7-14=-83/587, 7-13=-682/178, 8-13=-62/561, 8-12=-56/285, 9-12=-1012/204, 10-12=-147/1733 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 20-8-1, Interior(1) 20-8-1 to 30-10-15, Exterior(2R) 30-10-15 to 33-10-15, Interior(1) 33-10-15 to 41-10-4 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
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) 16=109.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 2. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A15 | PIGGYBACK BASE | 1 | 1 | T26087692 |

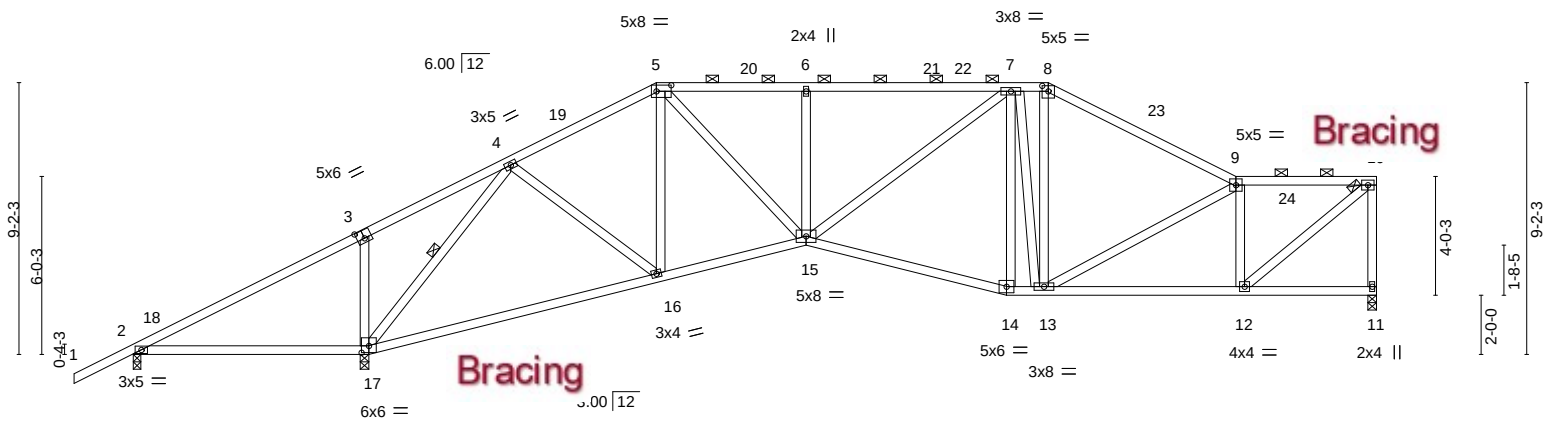
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:56 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-ZzzXQr8?mwiZkYDA3xlITGEK0m9LjKklyqx5YnyG0d5

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 30-10-15 | 37-3-0 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 1-4-15 | 6-4-1 | 4-9-0 |

Scale = 1:77.8




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 30-10-15 | 37-3-0 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 1-4-15 | 6-4-1 | 4-9-0 |

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [17:0-3-0,0-2-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.79 | Vert(LL) | -0.26 | 16-17 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.53 | 16-17 | >762 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.61 | Horz(CT) | 0.09 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 15 | >999 | 240 | Weight: 257 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-10 max.): 5-8, 9-10. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-17. |
| WEBS | 1 Row at midpt 4-17 |

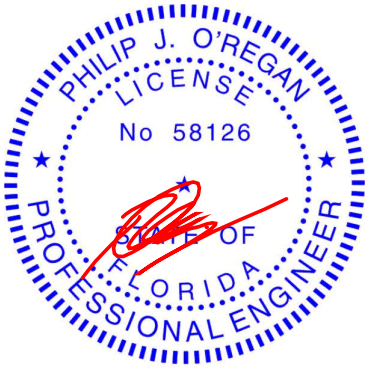
**REACTIONS.** (size) 11=0-3-8, 2=0-3-1, 17=0-3-8
Max Horz 2=194(LC 11)
Max Uplift 11=-55(LC 12), 2=-183(LC 22), 17=-106(LC 12)
Max Grav 11=1159(LC 1), 2=53(LC 21), 17=2034(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-213/886, 3-4=-123/848, 4-5=-1218/159, 5-6=-1702/238, 6-7=-1702/238, 7-8=-1232/208, 8-9=-1442/187, 9-10=-1227/149, 10-11=-1121/131 |
| BOT CHORD | 2-17=-698/89, 16-17=-143/490, 15-16=-144/1062, 14-15=-168/1336, 13-14=-154/1286, 12-13=-143/1262 |
| WEBS | 3-17=-393/151, 4-17=-1956/255, 4-16=-8/738, 5-16=-420/114, 5-15=-112/981, 6-15=-354/117, 7-15=-69/575, 7-13=-485/69, 8-13=-14/528, 9-12=-897/170, 10-12=-143/1578 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 20-8-1, Interior(1) 20-8-1 to 30-10-15, Exterior(2R) 30-10-15 to 33-10-15, Interior(1) 33-10-15 to 41-10-4 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
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) 17=106.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 2. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A16 | PIGGYBACK BASE | 1 | 1 | T26087693 |

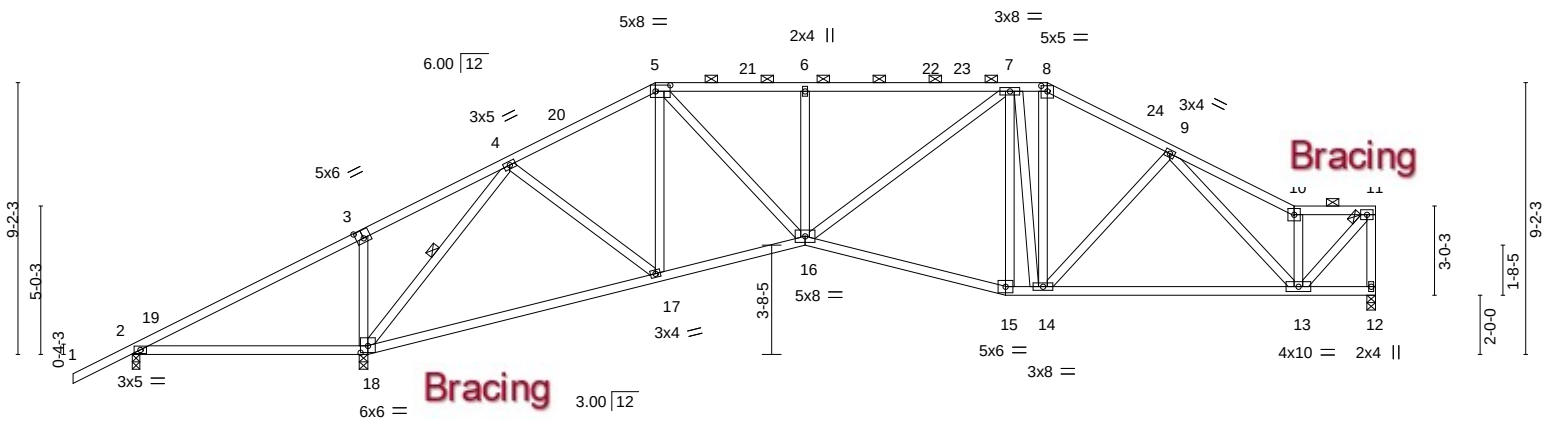
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:57 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-19XwdB8dXEqQMioMceH_0UnVqAVYSn2vAUge4DyG0d4

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 30-10-15 | 35-0-10 | 39-3-0 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 1-4-15 | 4-1-11 | 4-2-6 | 2-9-0 |

Scale = 1:77.8




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 30-10-15 | 39-3-0 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 1-4-15 | 8-4-1 | 2-9-0 |

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [18:0-3-0,0-2-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.79 | Vert(LL) | -0.26 | 17-18 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.53 | 17-18 | >763 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.61 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 16 | >999 | 240 | Weight: 259 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-9 max.): 5-8, 10-11. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-18,12-13. |
| WEBS | 1 Row at midpt 4-18 |

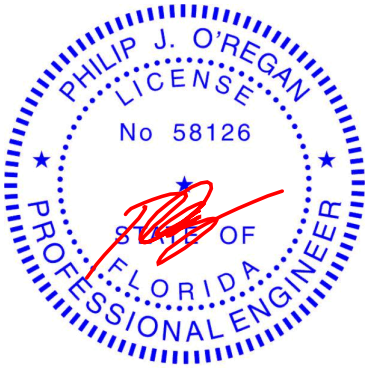
**REACTIONS.** (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
Max Horz 2=180(LC 11)
Max Uplift 12=-55(LC 12), 2=-173(LC 22), 18=-105(LC 12)
Max Grav 12=1162(LC 1), 2=61(LC 21), 18=2021(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-187/863, 3-4=-97/825, 4-5=-1228/160, 5-6=-1711/237, 6-7=-1711/237, 7-8=-1233/199, 8-9=-1424/193, 9-10=-1209/144, 10-11=-1007/94, 11-12=-1170/94 |
| BOT CHORD | 2-18=-677/87, 17-18=-116/505, 16-17=-110/1071, 15-16=-141/1341, 14-15=-128/1292, 13-14=-152/1291 |
| WEBS | 3-18=-393/151, 4-18=-1944/236, 4-17=0/732, 5-17=-415/106, 5-16=-105/981, 6-16=-353/116, 7-16=-53/580, 7-15=-292/49, 7-14=-460/117, 8-14=-73/591, 9-13=-369/90, 10-13=-692/109, 11-13=-96/1489 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 20-8-1, Interior(1) 20-8-1 to 30-10-15, Exterior(2R) 30-10-15 to 33-10-15, Interior(1) 33-10-15 to 41-10-4 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
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) 18=105.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 2. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

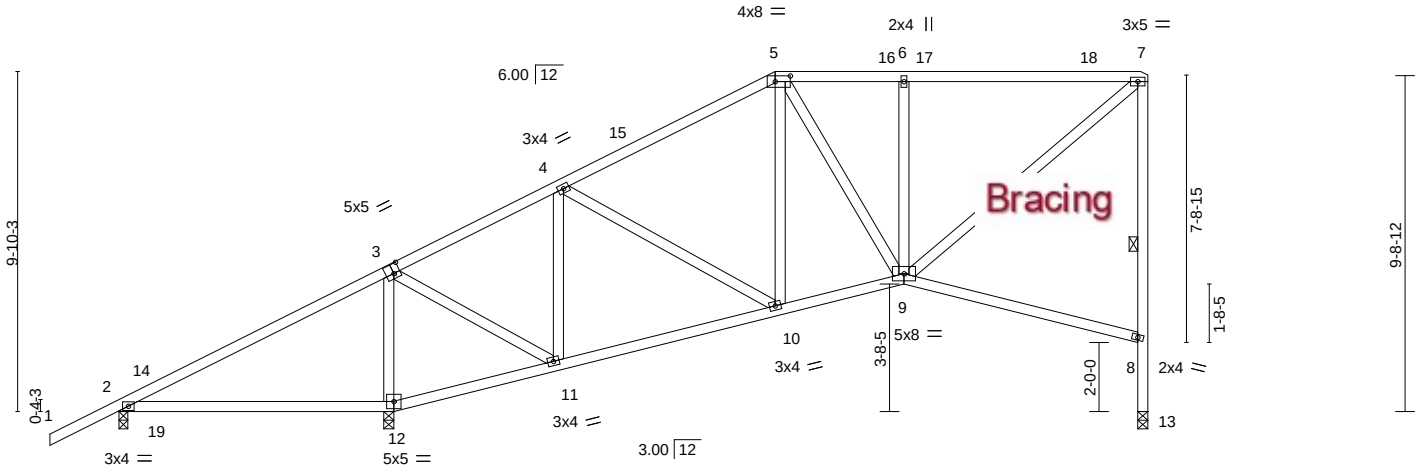

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A17 | HALF HIP | 1 | 1 | T26087694 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:58 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-VM5IrX9FIXyHzsNZALoDYhJi9aunBJ22P7QCcgyG0d3

| -2-0-0 | 7-11-8 | 12-8-11 | 19-0-0 | 22-8-12 | 24-3-5 | 29-7-0 | 29-9-8 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-3 | 6-3-5 | 3-8-12 | 1-6-9 | 5-3-11 | 0-2-8 |

Scale = 1:66.7




VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).

| 7-9-12 | 7-11-8 | 12-8-11 | 19-0-0 | 22-8-12 | 29-9-8 |
|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 4-9-3 | 6-3-5 | 3-8-12 | 7-0-12 |

Plate Offsets (X,Y)-- [3:0-2-4,0-3-4], [5:0-5-4,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.14 | 2-12 | >685 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.59 | Vert(CT) | -0.29 | 2-12 | >328 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.30 | Horz(CT) | 0.10 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.25 | 2-12 | >377 | 240 | Weight: 182 lb | FT = 20% |

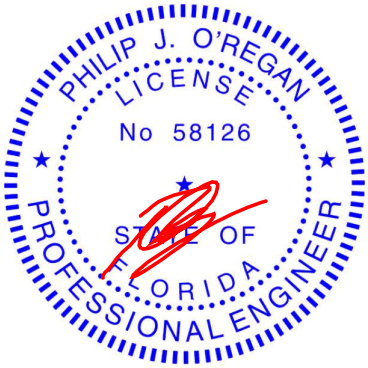
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-13

**REACTIONS.** (size) 2=0-3-1, 12=0-3-8, 13=0-3-8
Max Horz 2=304(LC 11)
Max Uplift 2=-136(LC 12), 12=-122(LC 12), 13=-64(LC 9)
Max Grav 2=270(LC 1), 12=1281(LC 1), 13=748(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-250/365, 3-4=-552/80, 4-5=-725/99, 5-6=-621/96, 6-7=-621/96, 8-13=-748/96, 7-8=-680/154
BOT CHORD 2-12=-265/37, 11-12=-297/54, 10-11=-207/486, 9-10=-225/602
WEBS 3-12=-1082/240, 3-11=-72/766, 4-11=-441/155, 6-9=-339/117, 7-9=-167/793

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-0-0, Exterior(2R) 19-0-0 to 23-2-15, Interior(1) 23-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=122.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A18 | Half Hip | 1 | 1 | T26087695 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:56:59 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-zYfg2tAt3r48b0ylk3JS5vsqU_CqwkYBen9l86yG0d2

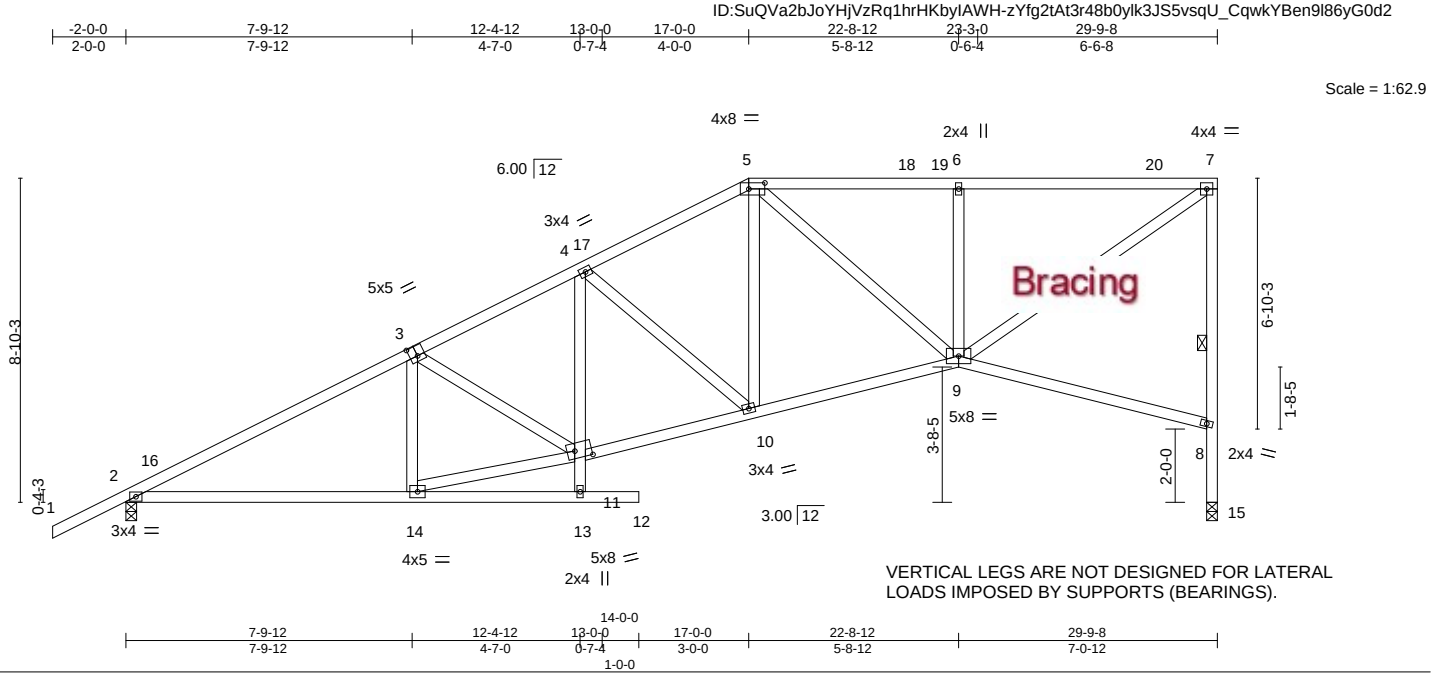



Plate Offsets (X,Y)-- [3:0-2-8,0-3-4], [5:0-5-4,0-2-0], [11:0-5-8,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.84 | Vert(LL) | -0.12 | 2-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -0.27 | 2-14 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.41 | Horz(CT) | 0.16 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 12 | >999 | 240 | Weight: 186 lb | FT = 20% |

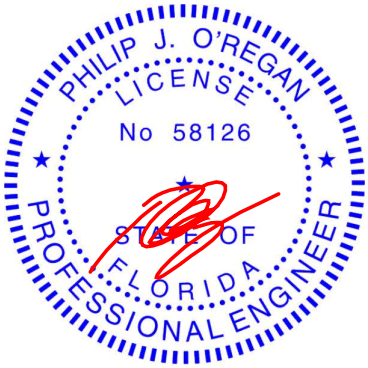
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-15

**REACTIONS.** (size) 2=0-3-8, 15=0-3-8
Max Horz 2=274(LC 11)
Max Uplift 2=-100(LC 12), 15=-60(LC 9)
Max Grav 2=1229(LC 1), 15=1101(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1960/101, 3-4=-1829/133, 4-5=-1493/129, 5-6=-1259/142, 6-7=-1259/143, 8-15=-1101/118, 7-8=-1034/176
BOT CHORD 2-14=-296/1662, 10-11=-312/1639, 9-10=-280/1348
WEBS 3-14=-250/152, 11-14=-303/1688, 4-10=-380/74, 5-10=0/473, 6-9=-393/127, 7-9=-226/1516, 4-11=0/254

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 29-7-12 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A19 | Half Hip | 1 | 1 | T26087696 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:00 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-RkD2FDBVq9C_D9WxImqhe6P2?OWUfA1LsRvJhYyG0d1

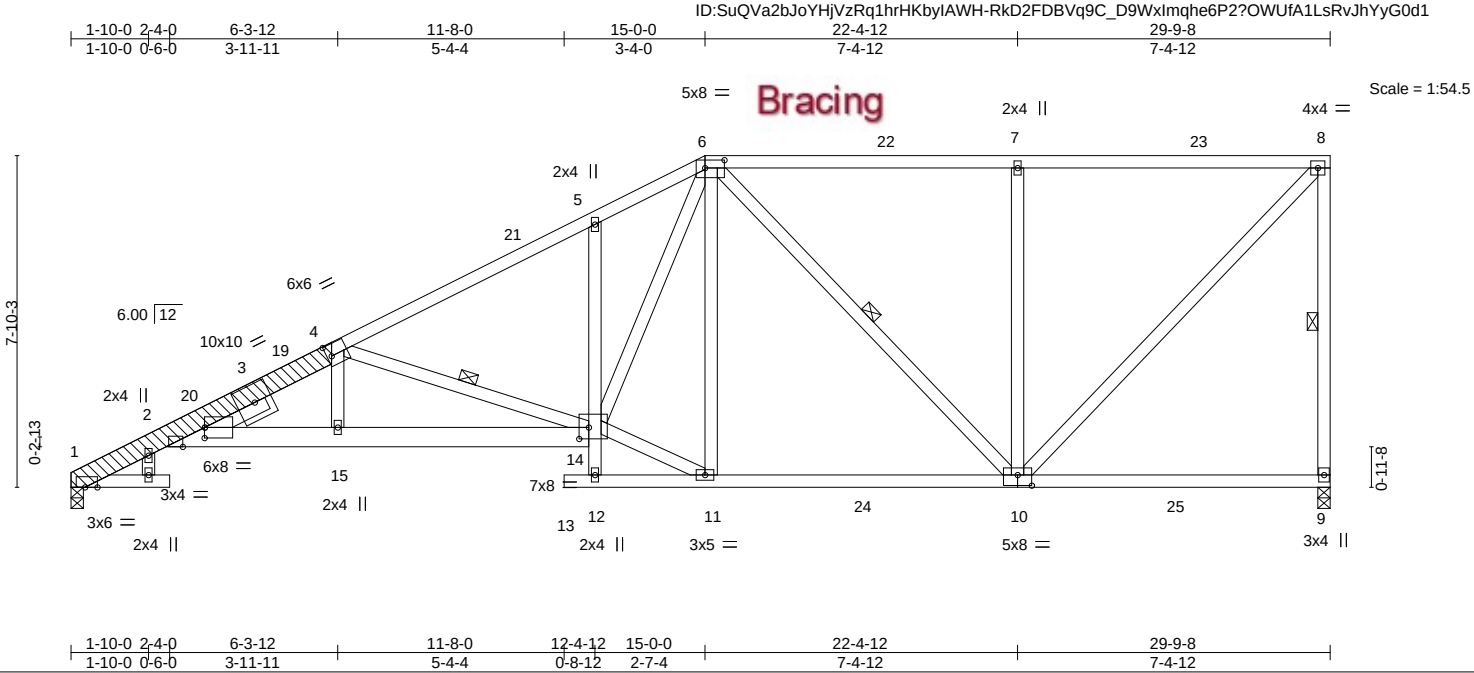



Plate Offsets (X,Y)-- [1:0-3-8,0-0-0], [2:0-6-4,Edge], [2:0-0-1,0-3-0], [4:0-1-4,0-3-4], [6:0-5-8,0-2-4], [10:0-4-0,0-3-0], [14:0-2-12,0-3-4]

| LOADING (psf) | | SPACING- 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC | 0.67 | Vert(LL) | -0.19 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL 1.15 | BC | 0.77 | Vert(CT) | -0.34 | 14-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB | 0.46 | Horz(CT) | 0.18 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | Matrix-S | | Wind(LL) | 0.10 | 14-15 | >999 | 240 | Weight: 223 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS |
| BOT CHORD | 2x4 SP No.2 *Except* 2-14: 2x6 SP No.2 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x6 SP DSS |
| LBR SCAB | 1-4 2x6 SP DSS one side |
| SLIDER | Left 2x4 SP No.2 1-7-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-10-7 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12. 10-0-0 oc bracing: 12-14 |
| WEBS | 1 Row at midpt 8-9, 4-14, 6-10 |

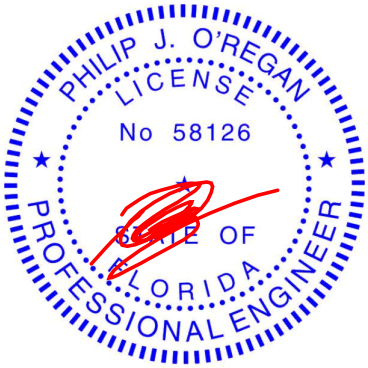
**REACTIONS.** (size) 1=0-3-8, 9=0-3-8
Max Horz 1=228(LC 11)
Max Uplift 1=-41(LC 12), 9=-54(LC 9)
Max Grav 1=1246(LC 17), 9=1296(LC 17)

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

| | |
|---|---|
| TOP CHORD | 1-2=-644/57, 2-4=-3286/214, 4-5=-2092/163, 5-6=-2036/212, 6-7=-976/159, 7-8=-975/159, 8-9=-1149/157 |
| BOT CHORD | 2-15=-480/3205, 14-15=-476/3224, 10-11=-206/1331 |
| WEBS | 4-15=0/275, 4-14=-1435/192, 11-14=-181/1383, 6-14=-215/1352, 6-11=-282/133, 6-10=-460/78, 7-10=-460/152, 8-10=-140/1409 |

**NOTES-**

1) Attached 7-0-9 scab 1 to 4, front face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 1-6-0 from end at joint 1, nail 2 row(s) at 3" o.c. for 5-4-15.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 29-7-12 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
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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

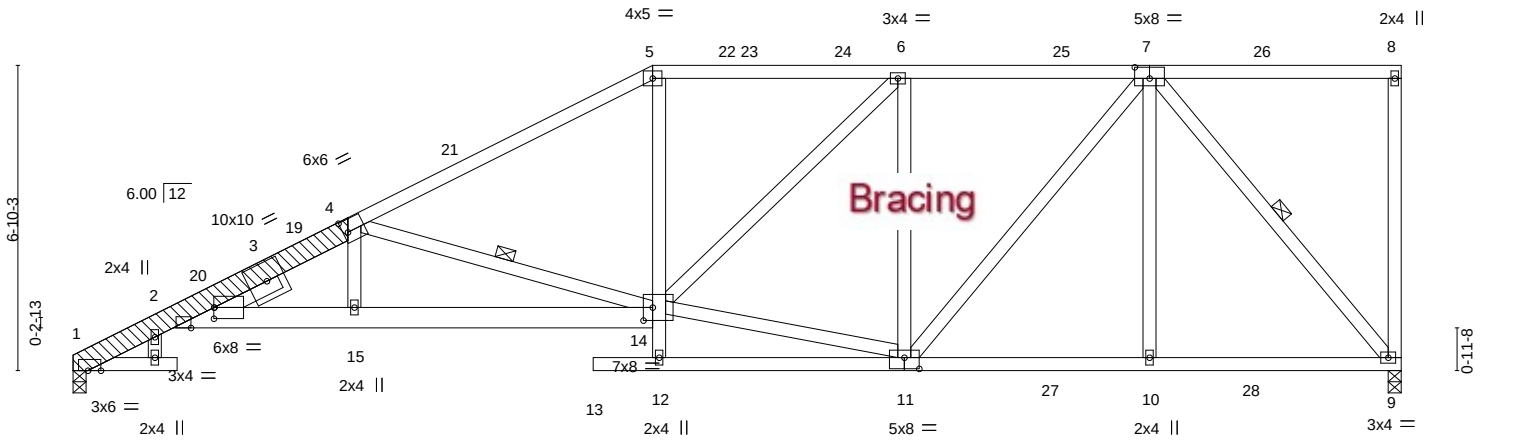
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A20 | Half Hip | 1 | 1 | T26087697 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:01 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-vxnQTYC7bSKrqJ58rULwAKxFKnseOcGU55esD_yG0d0

1-10-0 2-4-0 6-3-12 13-0-0 18-7-12 24-1-12 29-9-8
1-10-0 0-6-0 3-11-11 6-8-4 5-7-12 5-6-0 5-7-12

Scale = 1:51.7




1-10-0 2-4-0 6-3-12 11-8-0 13-0-0 18-7-12 24-1-12 29-9-8
1-10-0 0-6-0 3-11-11 5-4-4 1-4-0 5-7-12 5-6-0 5-7-12

Plate Offsets (X,Y)-- [1:0-3-8,0-0-0], [2:0-6-4,Edge], [2:0-0-1,0-3-0], [4:0-1-4,0-3-4], [7:0-4-0,0-3-0], [11:0-4-0,0-3-0], [14:0-2-8,0-3-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.19 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.77 | Vert(CT) | -0.35 | 14-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.46 | Horz(CT) | 0.18 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.10 | 14-15 | >999 | 240 | Weight: 221 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS |
| BOT CHORD | 2x4 SP No.2 *Except* 2-14: 2x6 SP No.2 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x6 SP DSS |
| LBR SCAB | 1-4 2x6 SP DSS one side |
| SLIDER | Left 2x4 SP No.2 1-7-0 |

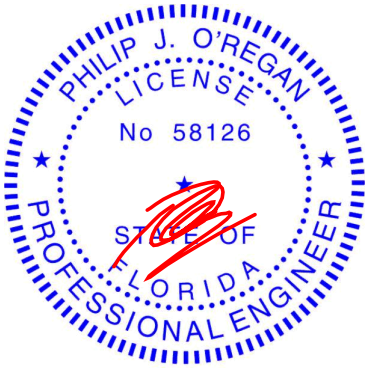
**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-8-9 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 4-14, 7-9 |

**REACTIONS.** (size) 1=0-3-8, 9=0-3-8
Max Horz 1=198(LC 11)
Max Uplift 1=-37(LC 12), 9=-49(LC 12)
Max Grav 1=1240(LC 17), 9=1272(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-624/55, 2-4=-3298/228, 4-5=-1990/155, 5-6=-1710/166, 6-7=-1360/164
BOT CHORD 2-15=-457/3208, 14-15=-451/3229, 10-11=-124/930, 9-10=-124/930
WEBS 4-15=0/306, 4-14=-1546/215, 6-14=-101/489, 5-14=0/592, 11-14=-176/1360, 6-11=-588/157, 7-11=-75/716, 7-10=0/317, 7-9=-1407/118

**NOTES-**
1) Attached 7-0-9 scab 1 to 4, front face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 1-6-0 from end at joint 1, nail 2 row(s) at 3" o.c. for 5-4-15.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 29-7-12 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
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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601


MiTek
6904 Parke East Blvd.
Tampa, FL 36610

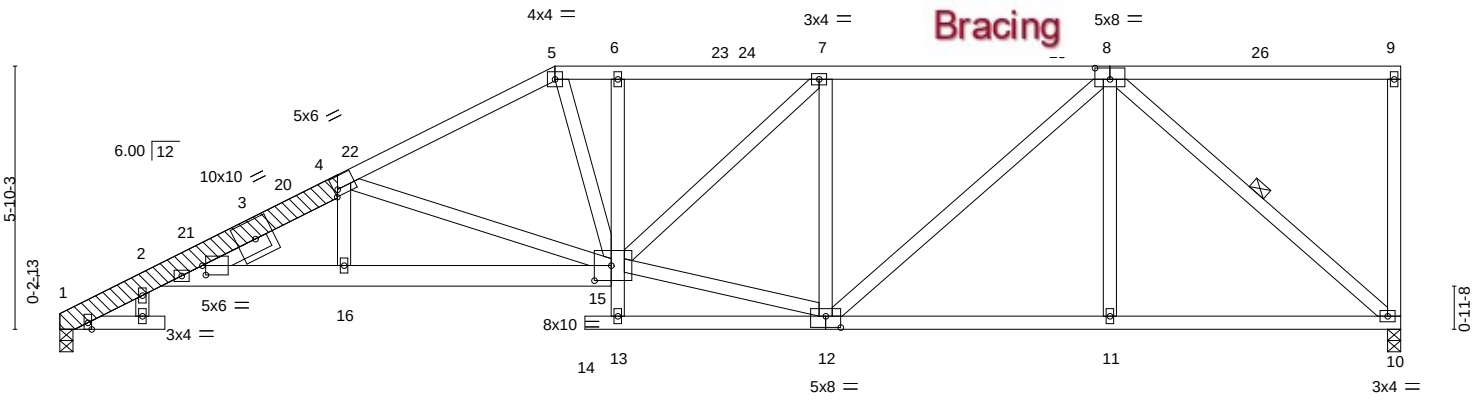
| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A21 | Half Hip | 1 | 1 | T26087698 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:02 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-N7KoguClMmSiSTgKPBs9jXURaBDr7_neKlOPlRyG0d?

| 1-10-0 | 2-4-0 | 6-3-13 | 11-0-0 | 11-8-0 | 17-0-3 | 23-3-15 | 29-9-8 |
|---|---|---|---|---|---|---|---|
| 1-10-0 | 0-6-0 | 3-11-12 | 4-8-3 | 0-8-0 | 5-4-3 | 6-3-13 | 6-5-9 |

Scale = 1:51.2




| 1-10-0 | 2-4-0 | 6-3-13 | 11-8-0 | 12-4-12 | 17-0-3 | 23-3-15 | 29-9-8 |
|---|---|---|---|---|---|---|---|
| 1-10-0 | 0-6-0 | 3-11-12 | 5-4-4 | 0-8-12 | 4-7-7 | 6-3-13 | 6-5-9 |

Plate Offsets (X,Y)-- [2:0-0-15,0-2-8], [4:0-1-0,0-1-12], [8:0-4-0,0-3-0], [12:0-4-0,0-3-0], [15:0-4-8,0-4-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.47 | Vert(LL) | -0.16 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.71 | Vert(CT) | -0.31 | 15-16 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.83 | Horz(CT) | 0.17 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.10 | 15-16 | >999 | 240 | Weight: 214 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS |
| BOT CHORD | 2x4 SP No.2 *Except* 2-15: 2x6 SP No.2 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x6 SP DSS |
| LBR SCAB | 1-4 2x6 SP DSS one side |
| SLIDER | Left 2x4 SP No.2 1-7-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-1-14 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 13-15 |
| WEBS | 1 Row at midpt 8-10 |

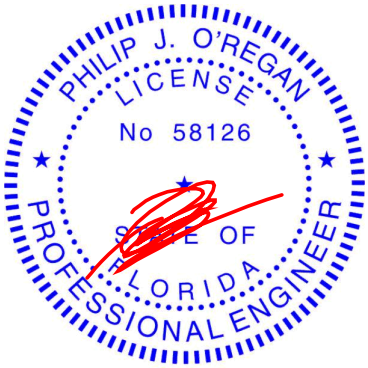
**REACTIONS.** (size) 1=0-3-8, 10=0-3-8
Max Horz 1=167(LC 11)
Max Uplift 1=-42(LC 12), 10=-51(LC 12)
Max Grav 1=1105(LC 1), 10=1098(LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-2=-508/56, 2-4=-2810/239, 4-5=-1825/170, 5-6=-1759/178, 6-7=-1753/180, 7-8=-1466/174 |
| BOT CHORD | 2-16=-419/2660, 15-16=-415/2673, 11-12=-134/1034, 10-11=-134/1034 |
| WEBS | 4-16=0/278, 4-15=-1166/178, 5-15=-23/656, 12-15=-176/1407, 7-15=-88/401, 7-12=-586/151, 8-12=-69/575, 8-11=0/281, 8-10=-1357/123 |

**NOTES-**

1) Attached 7-0-10 scab 1 to 4, front face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 1-6-0 from end at joint 1, nail 2 row(s) at 4" o.c. for 5-5-0.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 29-7-12 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
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) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 10. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



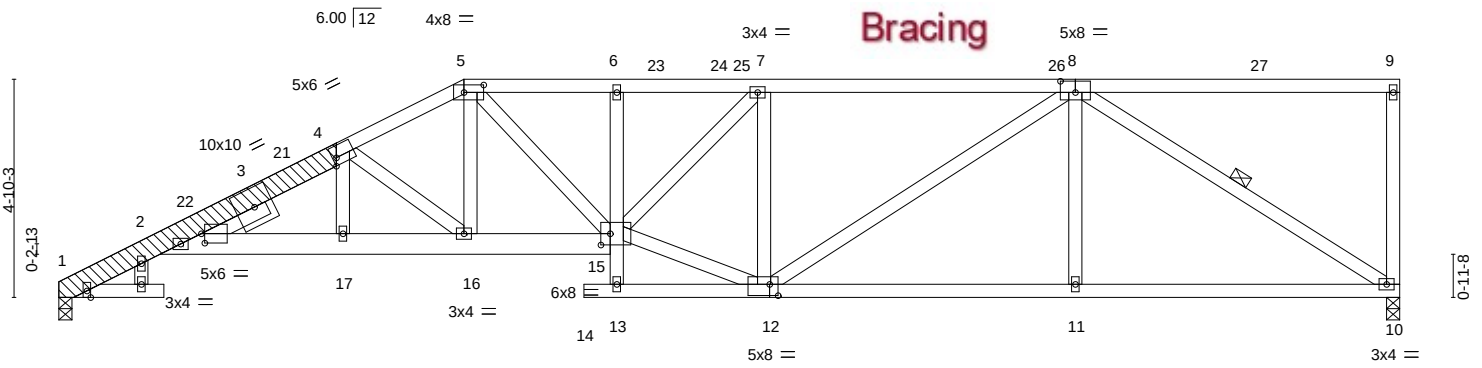
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A22 | Half Hip | 1 | 1 | T26087699 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:04 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-KWSZ5aE0uNiQhnqjXcvdoyZkE?vQby?xn3tWpJyG0cz

| 1-10-0 | 2-4-0 | 6-3-12 | 9-0-0 | 11-8-0 | 15-6-5 | 22-7-0 | 29-9-8 |
|---|---|---|---|---|---|---|---|
| 1-10-0 | 0-6-0 | 3-11-12 | 2-8-4 | 2-8-0 | 3-10-5 | 7-0-12 | 7-2-8 |

Scale = 1:51.2




| 1-10-0 | 2-4-0 | 6-3-12 | 9-0-0 | 11-8-0 | 12-4-12 | 15-6-5 | 22-7-0 | 29-9-8 |
|---|---|---|---|---|---|---|---|---|
| 1-10-0 | 0-6-0 | 3-11-12 | 2-8-4 | 2-8-0 | 0-8-12 | 3-1-9 | 7-0-12 | 7-2-8 |

Plate Offsets (X,Y)-- [2:0-0-15,0-2-8], [4:Edge,0-2-0], [5:0-5-4,0-2-0], [8:0-4-0,0-3-0], [12:0-2-4,0-3-0], [15:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.59 | Vert(LL) | -0.18 | 14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | -0.33 | 14 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.53 | Horz(CT) | 0.18 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.11 | 14 | >999 | 240 | Weight: 204 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS |
| BOT CHORD | 2x4 SP No.2 *Except* 2-15: 2x6 SP No.2 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x6 SP DSS |
| LBR SCAB | 1-4 2x6 SP DSS one side |
| SLIDER | Left 2x4 SP No.2 1-7-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-8-1 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 13-15 |
| WEBS | 1 Row at midpt 8-10 |

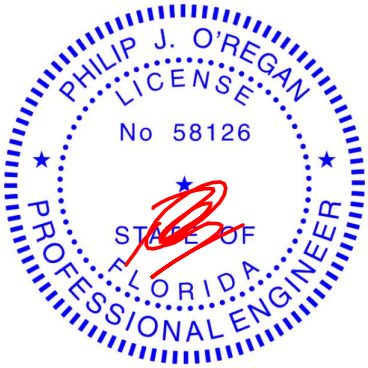
**REACTIONS.** (size) 10=0-3-8, 1=0-3-8
Max Horz 1=137(LC 11)
Max Uplift 10=-50(LC 12), 1=-43(LC 12)
Max Grav 10=1098(LC 1), 1=1105(LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-2=-490/56, 2-4=-2776/246, 4-5=-2236/206, 5-6=-2238/200, 6-7=-2220/198, 7-8=-1815/181 |
| BOT CHORD | 2-17=-380/2625, 16-17=-378/2633, 15-16=-264/1968, 11-12=-145/1374, 10-11=-145/1374 |
| WEBS | 4-16=-834/140, 5-16=-46/579, 5-15=-27/388, 12-15=-182/1751, 7-15=-87/567, 7-12=-715/151, 8-12=-57/531, 8-11=0/310, 8-10=-1604/131 |

**NOTES-**

1) Attached 7-0-9 scab 1 to 4, front face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-4 from end at joint 4, nail 2 row(s) at 3" o.c. for 5-4-15.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 29-7-12 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
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) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 1. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601


MiTek
6904 Parke East Blvd.
Tampa, FL 36610

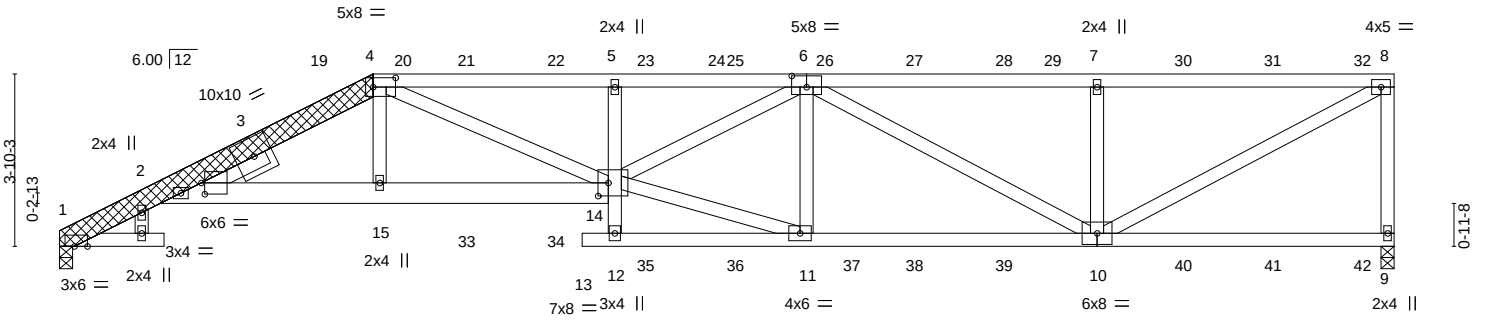
| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | A23 | Half Hip Girder | 1 | 2 | T26087700 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:06 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-GuaJWGFGP?y8x4_5e1x5tNe4RoZ13sHDFNMdtCyG0cx

1-10-0 2-4-0 7-0-0 11-8-0 16-8-2 23-1-15 29-9-8
1-10-0 0-6-0 4-8-0 4-8-0 5-0-2 6-5-13 6-7-9

Scale = 1:51.4




1-10-0 2-4-0 7-0-0 11-8-0 12-4-12 16-8-2 23-1-15 29-9-8
1-10-0 0-6-0 4-8-0 4-8-0 0-8-12 4-3-6 6-5-13 6-7-9

Plate Offsets (X,Y)-- [1:0-3-8,0-0-0], [2:0-0-15,0-3-0], [4:0-6-0,0-2-8], [6:0-4-0,0-3-0], [14:0-2-12,0-3-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.60 | Vert(LL) | -0.25 | 13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.82 | Vert(CT) | -0.48 | 13 | >738 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.54 | Horz(CT) | 0.20 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.15 | 13 | >999 | 240 | Weight: 421 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS |
| BOT CHORD | 2x4 SP No.2 *Except* 2-14: 2x6 SP No.2 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x6 SP DSS |
| LBR SCAB | 1-4 2x6 SP DSS both sides |
| SLIDER | Left 2x4 SP No.2 1-7-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-3-2 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 12-14 |

**REACTIONS.** (size) 1=0-3-8, 9=0-3-8
Max Horz 1=107(LC 18)
Max Uplift 1=-27(LC 8), 9=-147(LC 8)
Max Grav 1=2085(LC 1), 9=2345(LC 1)

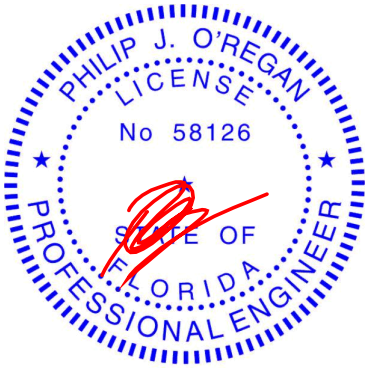
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

| | |
|---|---|
| TOP CHORD | 1-2=-906/19, 2-4=-5594/59, 4-5=-6639/256, 5-6=-6532/252, 6-7=-3452/233, 7-8=-3452/233, 8-9=-2200/227 |
| BOT CHORD | 2-15=-39/5242, 14-15=-27/5287, 5-14=-387/162, 11-12=-26/544, 10-11=-209/4841 |
| WEBS | 4-15=0/830, 4-14=-208/1482, 11-14=-192/4423, 6-14=0/1961, 6-11=-838/193, 6-10=-1585/32, 7-10=-783/285, 8-10=-220/3858 |

**NOTES-**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row 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) Attached 7-11-12 scab 1 to 4, both face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 1-6-0 from end at joint 1, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 4-0-1 from end at joint 1, nail 2 row(s) at 7" o.c. for 3-10-2.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right 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.
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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**NOTES-**

10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 94 lb down and 60 lb up at 7-0-0, 94 lb down and 57 lb up at 9-0-12, 94 lb down and 57 lb up at 11-0-12, 111 lb down and 77 lb up at 13-0-12, 111 lb down and 77 lb up at 15-0-12, 111 lb down and 77 lb up at 17-0-12, 111 lb down and 77 lb up at 19-0-12, 111 lb down and 77 lb up at 21-0-12, 111 lb down and 77 lb up at 23-0-12, 111 lb down and 77 lb up at 25-0-12, and 111 lb down and 77 lb up at 27-0-12, and 122 lb down and 74 lb up at 29-0-12 on top chord, and 364 lb down at 7-0-0, 79 lb down at 9-0-12, 79 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 23-0-12, 96 lb down at 25-0-12, and 96 lb down at 27-0-12, and 104 lb down at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-76, 2-4=-54, 4-8=-54, 2-14=-20, 12-13=-20, 9-12=-20
   Concentrated Loads (lb)
   Vert: 4=-94(B) 15=-364(B) 10=-48(B) 7=-111(B) 21=-94(B) 22=-94(B) 23=-111(B) 25=-111(B) 26=-111(B) 27=-111(B) 28=-111(B) 30=-111(B) 31=-111(B) 32=-122(B) 33=-68(B) 34=-68(B) 35=-48(B) 36=-48(B) 37=-48(B) 38=-48(B) 39=-48(B) 40=-48(B) 41=-48(B) 42=-52(B)


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | B01 | HIP GIRDER | 1 | 2 | T26087701 |

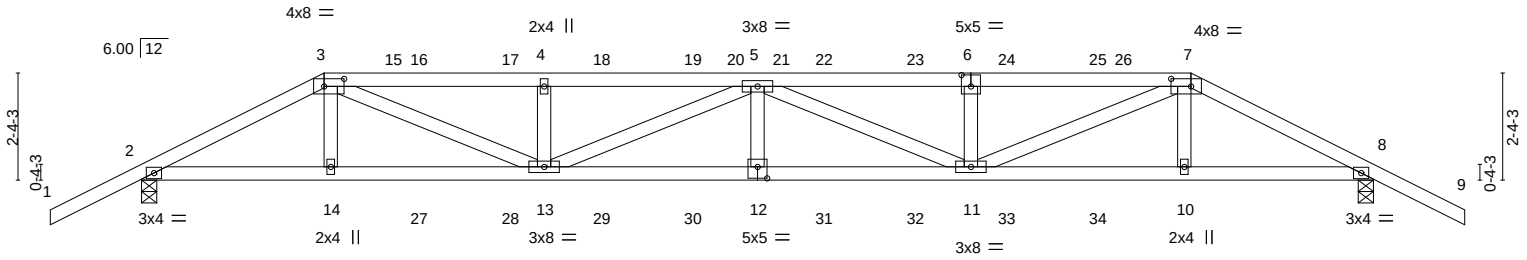
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:09 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-gTGS8HI8ivKjoYigJ9UoV0Gg10ebGICgxLaHUXyG0cu

| -2-0-0 | 4-0-0 | 8-9-14 | 13-6-0 | 18-2-2 | 23-0-0 | 27-0-0 | 29-0-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 4-0-0 | 4-9-14 | 4-8-2 | 4-8-2 | 4-9-14 | 4-0-0 | 2-0-0 |

Scale = 1:50.5




| 4-0-0 | 8-9-14 | 13-6-0 | 18-2-2 | 23-0-0 | 27-0-0 |
|---|---|---|---|---|---|
| 4-0-0 | 4-9-14 | 4-8-2 | 4-8-2 | 4-9-14 | 4-0-0 |

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

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.26 | Vert(LL) | -0.14 | 12 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.58 | Vert(CT) | -0.28 | 12 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.21 | Horz(CT) | 0.06 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.17 | 12 | >999 | 240 | Weight: 260 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

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

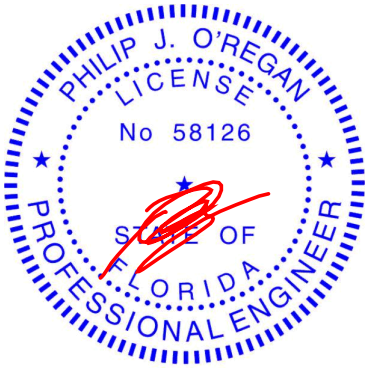
**REACTIONS.** (size) 2=0-4-0, 8=0-4-0
Max Horz 2=50(LC 7)
Max Uplift 2=-419(LC 8), 8=-429(LC 8)
Max Grav 2=1314(LC 1), 8=1331(LC 1)

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

TOP CHORD 2-3=-2259/650, 3-4=-3520/1049, 4-5=-3520/1049, 5-6=-3536/1059, 6-7=-3536/1059, 7-8=-2295/672
BOT CHORD 2-14=-502/1944, 13-14=-504/1953, 12-13=-1114/4020, 11-12=-1114/4020, 10-11=-534/1985, 8-10=-531/1976
WEBS 3-14=-48/254, 3-13=-500/1718, 4-13=-312/94, 5-13=-557/166, 5-12=-38/288, 5-11=-529/152, 6-11=-312/94, 7-11=-489/1691, 7-10=-48/253

**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.
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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left and right 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.
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**NOTES-**

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 51 lb down and 38 lb up at 4-0-0, 51 lb down and 34 lb up at 6-0-12, 51 lb down and 34 lb up at 8-0-12, 51 lb down and 34 lb up at 10-0-12, 51 lb down and 34 lb up at 12-0-12, 51 lb down and 34 lb up at 13-6-0, 51 lb down and 34 lb up at 14-11-4, 51 lb down and 34 lb up at 16-11-4, 51 lb down and 34 lb up at 18-11-4, and 51 lb down and 34 lb up at 20-11-4, and 125 lb down and 101 lb up at 23-0-0 on top chord, and 98 lb down and 36 lb up at 4-0-0, 36 lb down and 13 lb up at 6-0-12, 36 lb down and 13 lb up at 8-0-12, 36 lb down and 13 lb up at 10-0-12, 36 lb down and 13 lb up at 12-0-12, 36 lb down and 13 lb up at 13-6-0, 36 lb down and 13 lb up at 14-11-4, 36 lb down and 13 lb up at 16-11-4, 36 lb down and 13 lb up at 18-11-4, and 36 lb down and 13 lb up at 20-11-4, and 98 lb down and 36 lb up at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

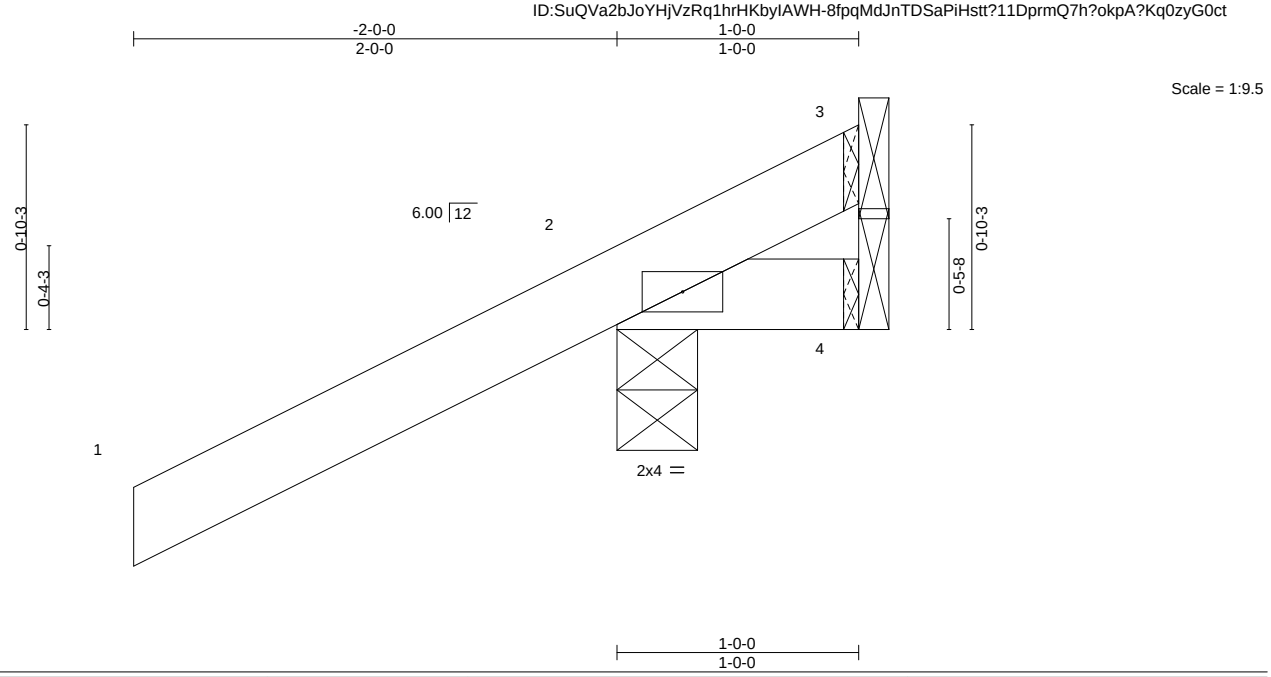
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-7=-54, 7-9=-54, 2-8=-20
   Concentrated Loads (lb)
   Vert: 3=-17(F) 7=-41(F) 14=-32(F) 12=-18(F) 5=-17(F) 10=-32(F) 16=-17(F) 17=-17(F) 18=-17(F) 19=-17(F) 22=-17(F) 23=-17(F) 24=-17(F) 25=-17(F) 27=-18(F) 28=-18(F) 29=-18(F) 30=-18(F) 31=-18(F) 32=-18(F) 33=-18(F) 34=-18(F)


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | C1 | Corner Jack | 16 | 1 | T26087702 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:10 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-8fpqMdJnTDSaPiHstt?11DprmQ7h?okpA?Kq0zyG0ct




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.26 | Vert(LL) | -0.00 | 2 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | -0.00 | 2 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 2 | **** | 240 | Weight: 7 lb | FT = 20% |

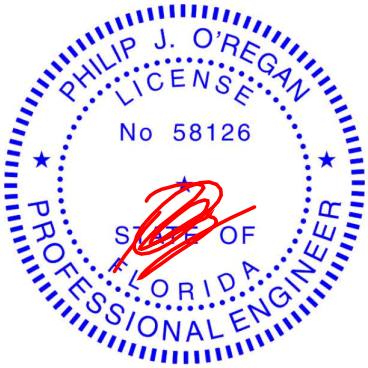
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=48(LC 12)
Max Uplift 3=-91(LC 1), 2=-135(LC 12)
Max Grav 3=68(LC 12), 2=262(LC 1), 4=19(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; 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
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.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

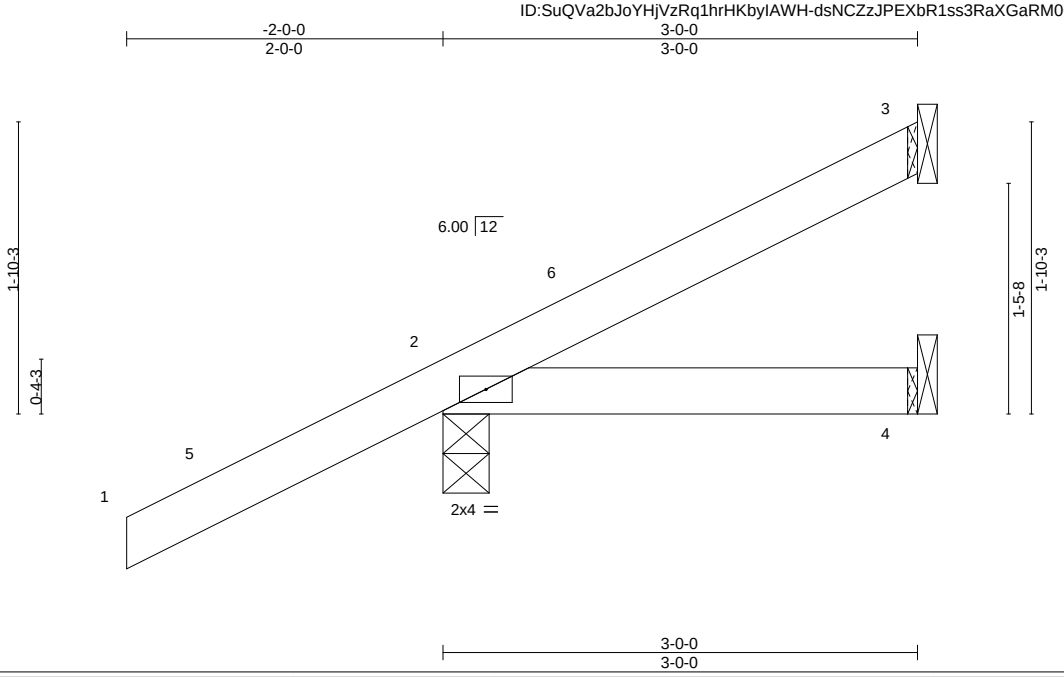
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | C3 | Corner Jack | 12 | 1 | T26087703 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:11 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-dsNCZzJPEXbR1ss3RaXGaRM0QpShkF_zOf3OZPyG0cs




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.00 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | -0.01 | 2-4 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 2 | **** | 240 | Weight: 13 lb | FT = 20% |

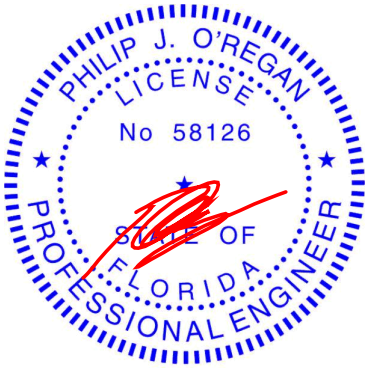
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 2=-85(LC 12)
Max Grav 3=33(LC 17), 2=264(LC 1), 4=56(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 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.
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.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



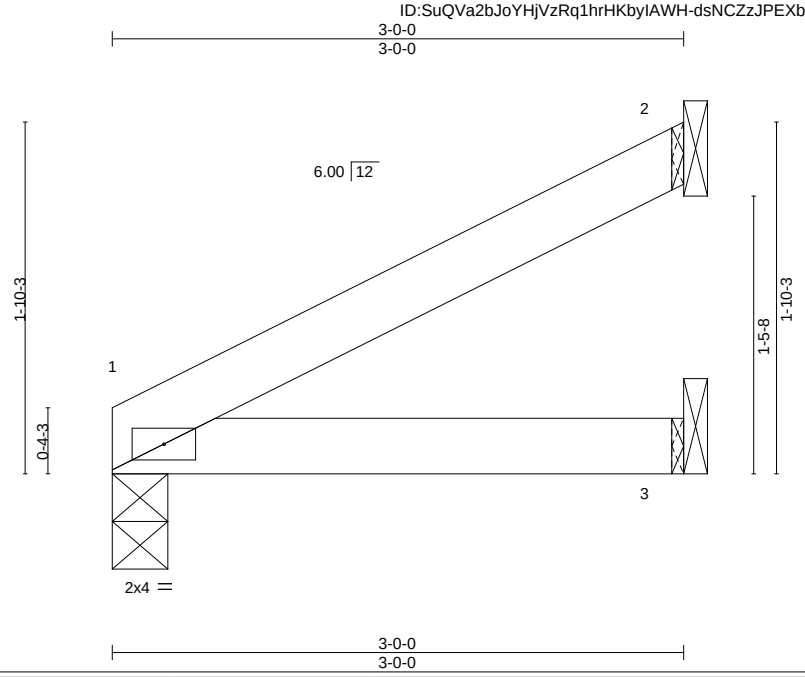

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | C3A | Corner Jack | 2 | 1 | T26087704 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:11 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-dsNCZzJPEXbR1ss3RaXGaRM3epShkF_zOf3OZPyG0cs




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | -0.00 | 1-3 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | -0.01 | 1-3 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 1 | **** | 240 | Weight: 10 lb | FT = 20% |

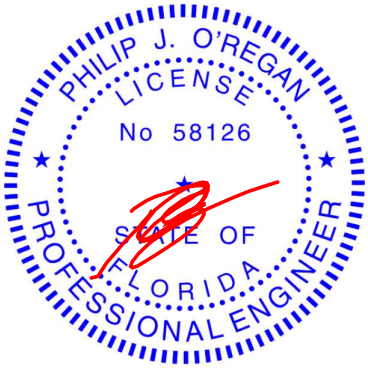
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=36(LC 12)
Max Uplift 2=-31(LC 12)
Max Grav 1=103(LC 1), 2=75(LC 1), 3=56(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; 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
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) 2.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

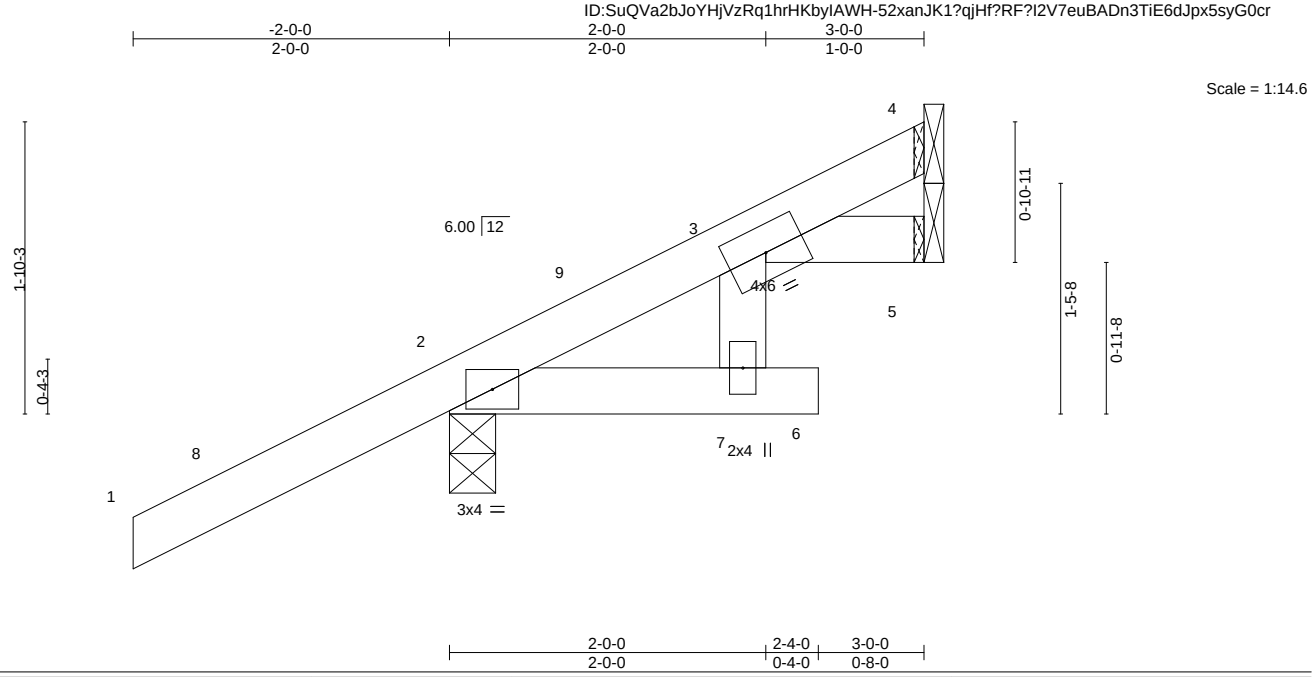
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | C3T | Corner Jack | 2 | 1 | T26087705 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:12 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-52xanJK1?qjHf?RF?I2V7euBADn3TiE6dJpx5syG0cr




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.00 | 7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.01 | 6 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-R | | Wind(LL) | -0.01 | 6 | >999 | 240 | Weight: 15 lb | FT = 20% |

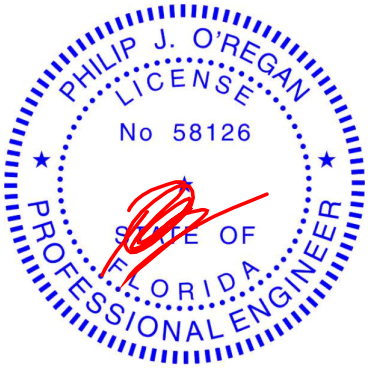
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 4=-2(LC 9), 2=-83(LC 12)
Max Grav 4=39(LC 17), 2=267(LC 1), 5=45(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 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.
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) 4.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

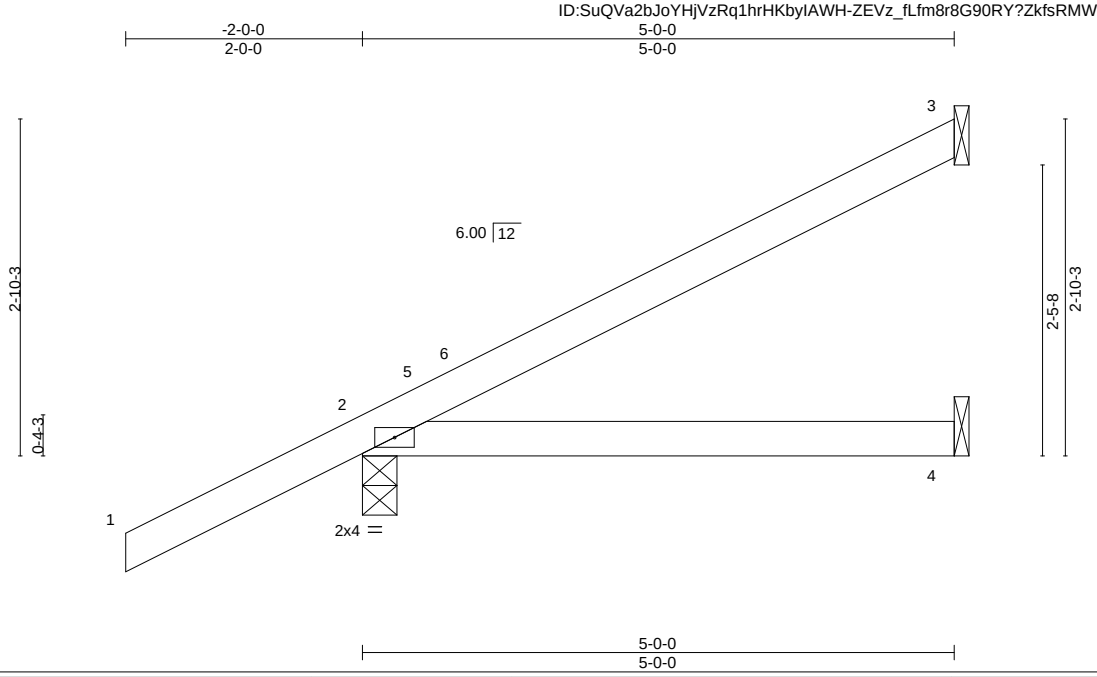
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | C5 | Jack-Open | 7 | 1 | T26087706 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:13 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-ZEVz_fLfm8r8G90RY?ZkfsRMWd46C9UFszYVdlyG0cq




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.29 | Vert(LL) | -0.03 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.06 | 2-4 | >909 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 2 | **** | 240 | Weight: 19 lb | FT = 20% |

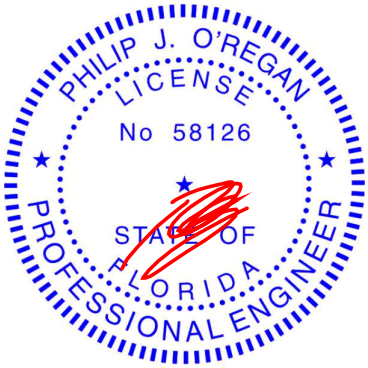
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 3=-36(LC 12), 2=-71(LC 12)
Max Grav 3=103(LC 1), 2=319(LC 1), 4=96(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 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.
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.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

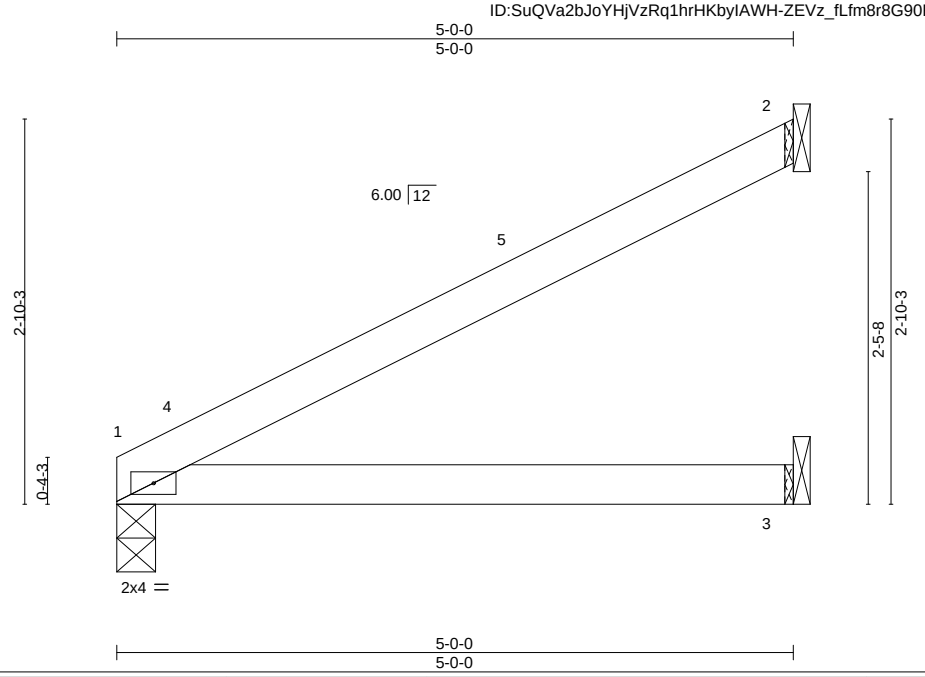
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | C5A | Corner Jack | 1 | 1 | T26087707 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:13 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-ZEVz_fLfm8r8G90RY?ZkfsRKld45C9UFszYVdlyG0cq




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.03 | 1-3 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.06 | 1-3 | >908 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 1 | **** | 240 | Weight: 16 lb | FT = 20% |

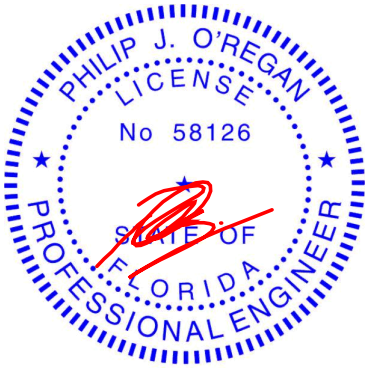
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 1=0-3-7, 2=Mechanical, 3=Mechanical
Max Horz 1=60(LC 12)
Max Uplift 2=-53(LC 12)
Max Grav 1=177(LC 1), 2=129(LC 1), 3=96(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-11-4 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.
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) 2.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | C5T | Corner Jack | 2 | 1 | T26087708 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:14 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-1R3LB?MHXSz?uJbe6j4zC3_X81RGxckP5dI29kyG0cp

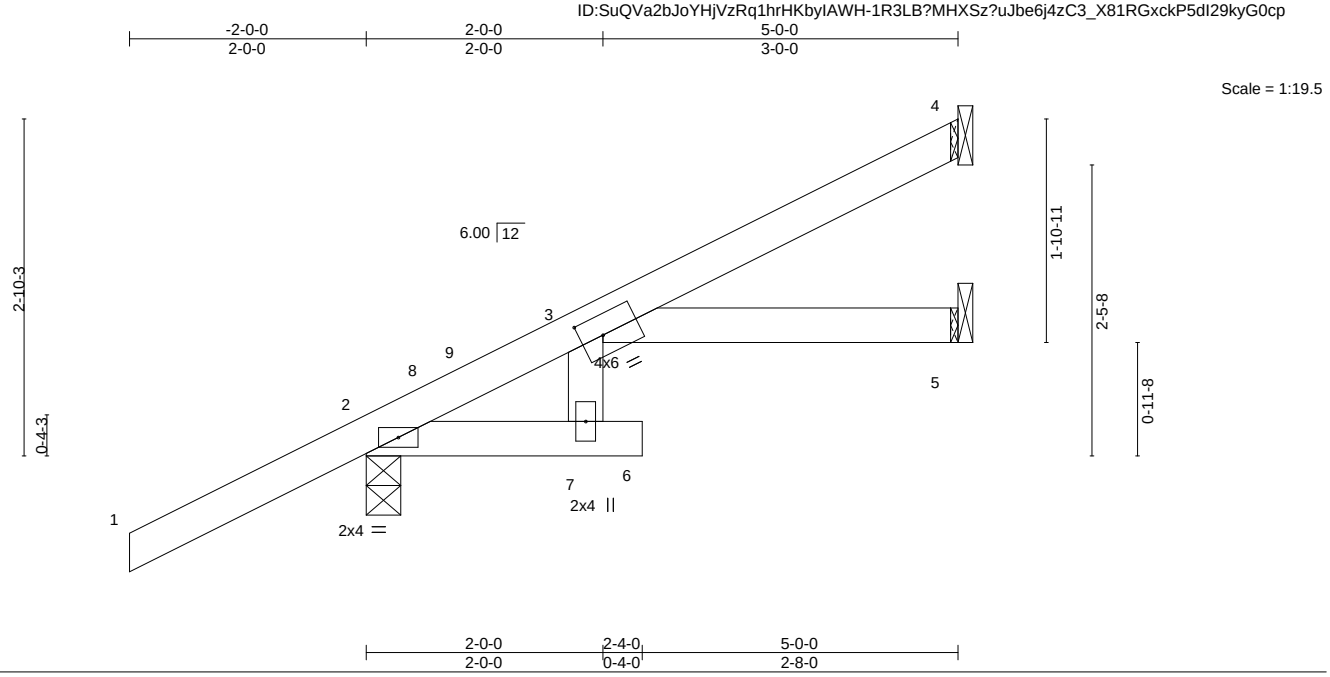



Plate Offsets (X,Y)-- [3:0-2-4,0-2-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.30 | Vert(LL) | -0.03 | 6 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.06 | 6 | >915 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.03 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-R | | Wind(LL) | 0.04 | 6 | >999 | 240 | Weight: 21 lb | FT = 20% |

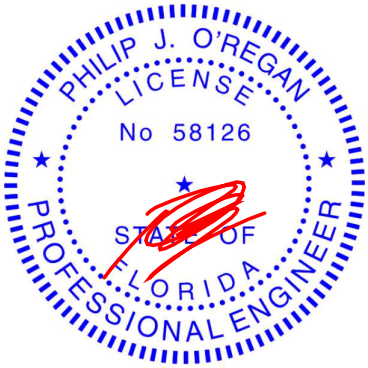
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 4=-22(LC 12), 2=-67(LC 12)
Max Grav 4=95(LC 1), 2=325(LC 1), 5=82(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 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.
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) 4.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



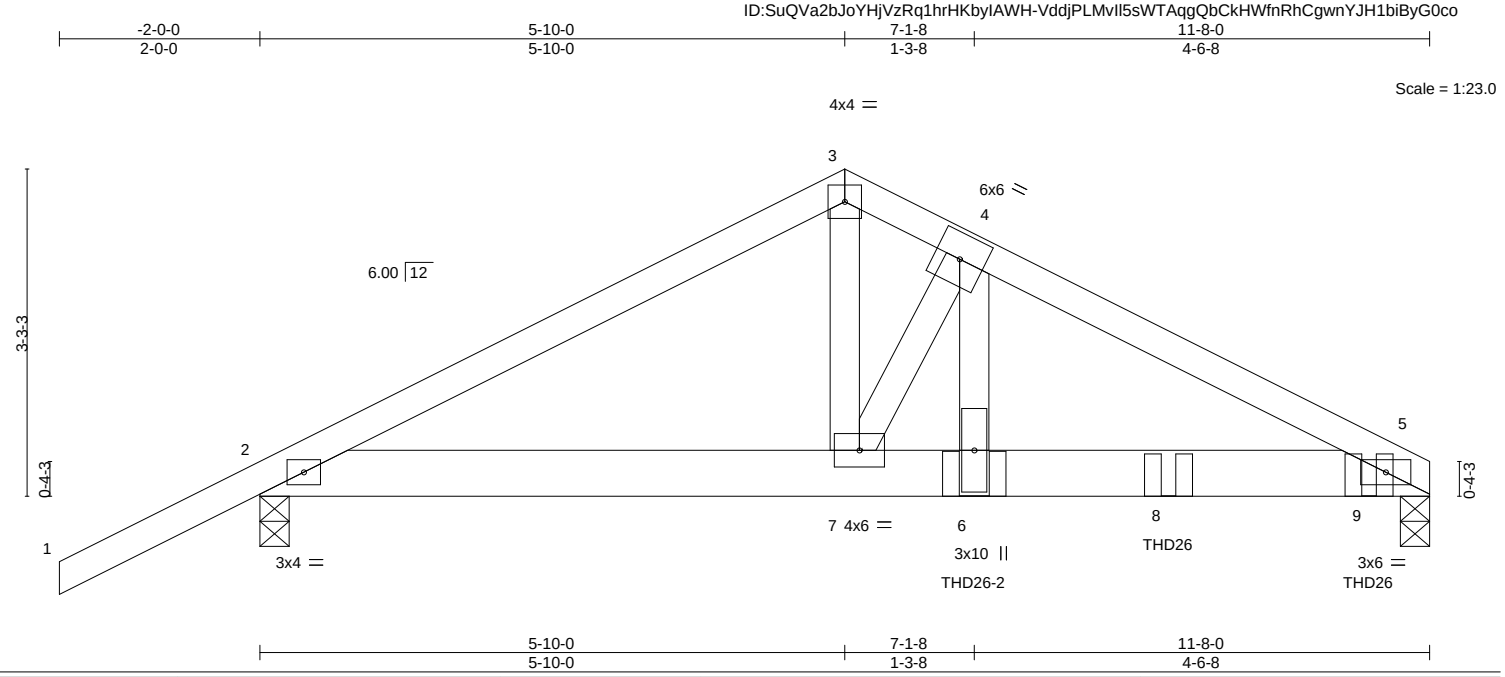
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | D01 | Common Girder | 1 | 2 | T26087709 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:15 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-VddjPLMvIl5sWTAqgQbCkHWfnRhCgwnYJH1biByG0co




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.07 | 5-6 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.63 | Vert(CT) | -0.12 | 5-6 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.59 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-S | | Wind(LL) | 0.04 | 5-6 | >999 | 240 | Weight: 120 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

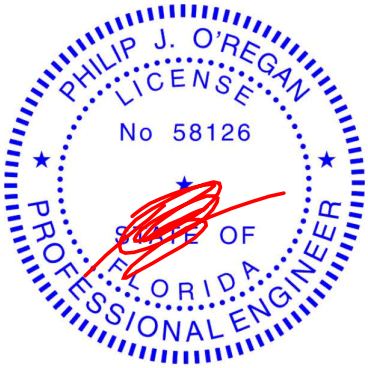
**REACTIONS.** (size) 5=0-3-8, 2=0-3-8
Max Horz 2=61(LC 24)
Max Uplift 5=-326(LC 8), 2=-216(LC 8)
Max Grav 5=5108(LC 1), 2=2224(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4256/297, 3-4=-4161/314, 4-5=-6670/477
BOT CHORD 2-7=-216/3733, 6-7=-392/5919, 5-6=-392/5919
WEBS 3-7=-224/3538, 4-7=-4402/350, 4-6=-334/4798

**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: 2x6 - 2 rows staggered at 0-2-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right 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) 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 2. This connection is for uplift only and does not consider lateral forces.
9) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to back face of bottom chord.
10) Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 11-0-12 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 2-5=-20
   Concentrated Loads (lb)
   Vert: 6=-3328(B) 8=-1520(B) 9=-1526(B)

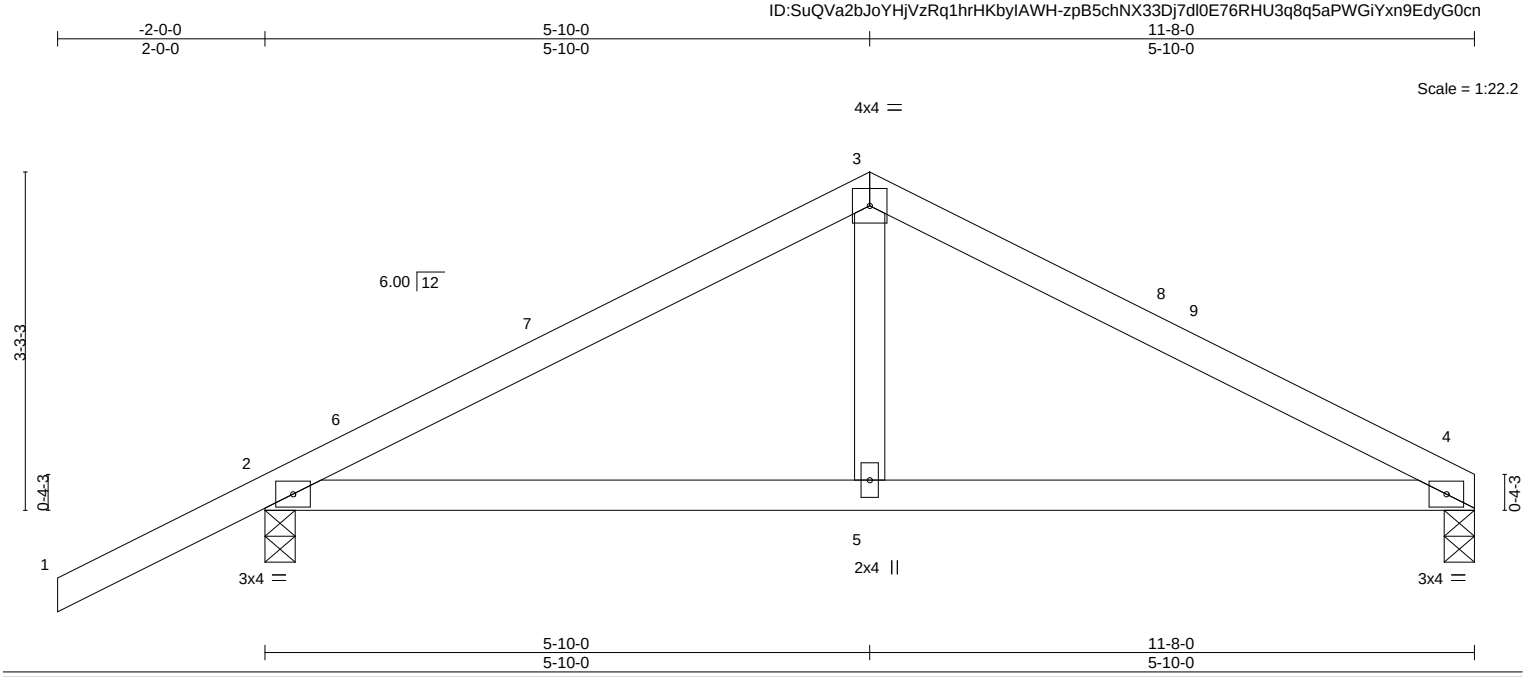

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | D02 | Common | 1 | 1 | T26087710 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:16 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-zpB5chNX33Dj7dl0E76RHU3q8q5aPWGiYxn9EdyG0cn




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.03 | 4-5 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.06 | 4-5 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 4-5 | >999 | 240 | Weight: 44 lb | FT = 20% |

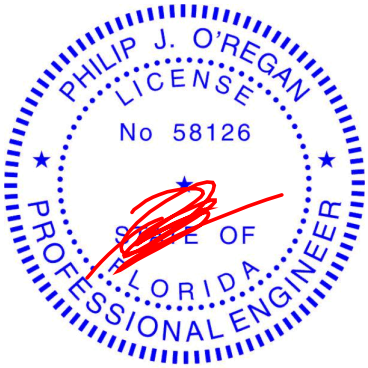
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

**REACTIONS.** (size) 4=0-3-8, 2=0-3-8
Max Horz 2=61(LC 11)
Max Uplift 4=-13(LC 12), 2=-88(LC 12)
Max Grav 4=410(LC 1), 2=548(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-575/151, 3-4=-568/160
BOT CHORD 2-5=-73/445, 4-5=-73/445
WEBS 3-5=0/272

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-10-0, Exterior(2R) 5-10-0 to 8-10-0, Interior(1) 8-10-0 to 11-6-4 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
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | D03 | Hip Girder | 1 | 1 | T26087711 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:17 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-R0lTq1OAqNLalnKCnrdgqic0rERe8zarnbWim3yG0cm

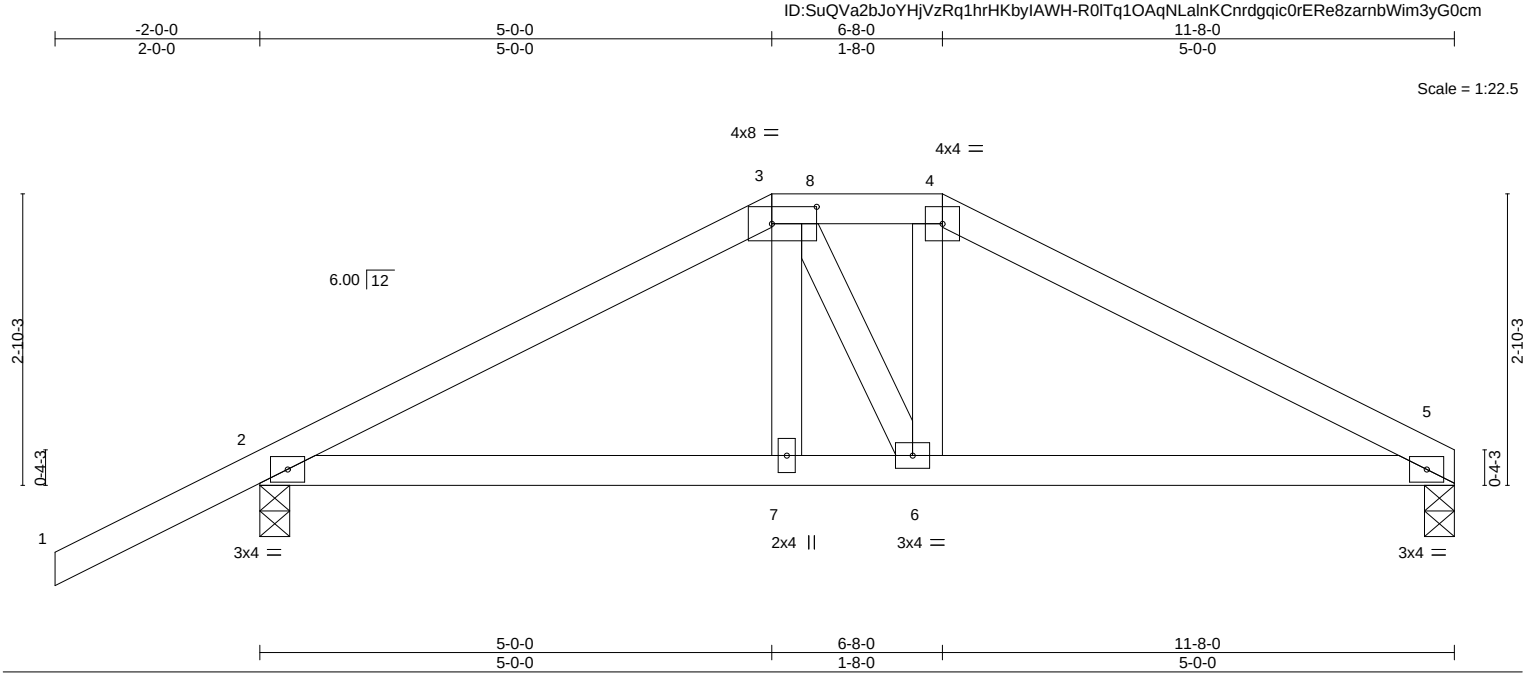



Plate Offsets (X,Y)-- [3:0-5-4,0-2-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | -0.03 | 2-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.37 | Vert(CT) | -0.06 | 5-6 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.06 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.01 | 5-6 | >999 | 240 | Weight: 51 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=0-3-8, 2=0-3-8
Max Horz 2=54(LC 24)
Max Uplift 5=-10(LC 8), 2=-83(LC 8)
Max Grav 5=580(LC 1), 2=712(LC 1)

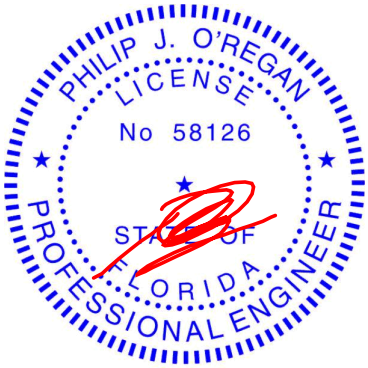
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-948/4, 3-4=-828/31, 4-5=-962/16
BOT CHORD 2-7=0/809, 6-7=0/821, 5-6=0/815
WEBS 3-7=0/252, 4-6=0/254

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 2. This connection is for uplift only and does not consider lateral forces.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 54 lb up at 5-0-0, and 135 lb down and 114 lb up at 6-8-0 on top chord, and 177 lb down at 5-0-0, and 177 lb down at 6-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-4=-54, 4-5=-54, 2-5=-20
   Concentrated Loads (lb)
   Vert: 3=-49(F) 4=-88(F) 7=-99(F) 6=-99(F)




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

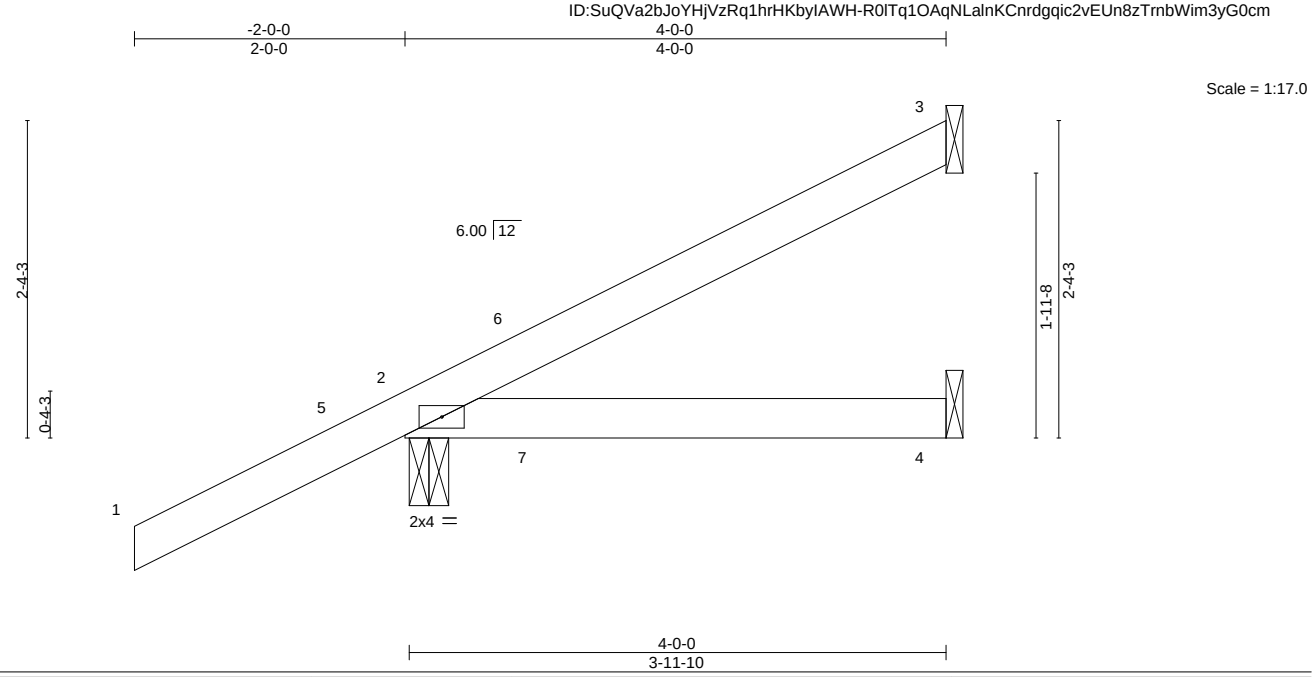
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | E4 | JACK-OPEN | 11 | 1 | T26087712 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:17 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-R0lTq1OAqNLalnKCnrdgqic2vEUn8zTrnbWim3yG0cm




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.01 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.02 | 2-4 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.03 | 2-4 | >999 | 240 | Weight: 16 lb | FT = 20% |

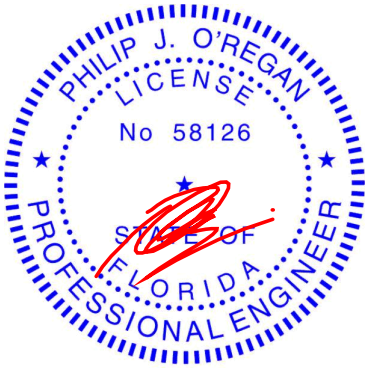
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=83(LC 12)
Max Uplift 3=-22(LC 9), 2=-109(LC 12), 4=-10(LC 8)
Max Grav 3=70(LC 1), 2=289(LC 1), 4=76(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-11-4 zone; cantilever left exposed ; porch 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) 3, 4.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

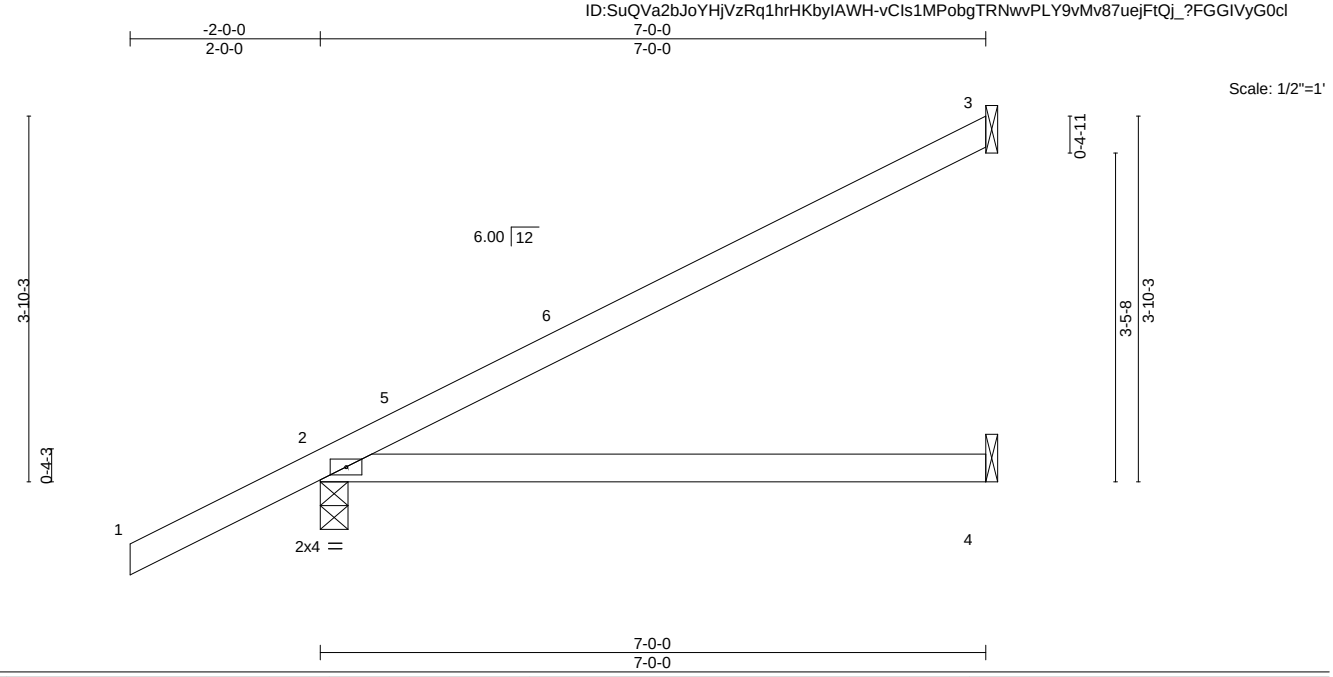
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | E7 | Jack-Open | 31 | 1 | T26087713 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:18 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-vCIs1MPobgTRNwvPLY9vMv87uejFtQj_?FGGIVyG0cl




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.70 | Vert(LL) | -0.13 | 2-4 | >639 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.60 | Vert(CT) | -0.26 | 2-4 | >319 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-P | | Wind(LL) | 0.00 | 2 | **** | 240 | Weight: 26 lb | FT = 20% |

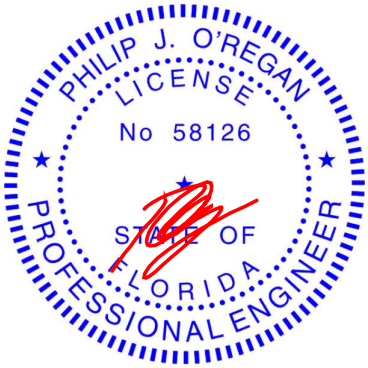
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=119(LC 12)
Max Uplift 3=-62(LC 12), 2=-63(LC 12)
Max Grav 3=165(LC 1), 2=385(LC 1), 4=136(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 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.
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.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | E7T | Jack-Open | 3 | 1 | T26087714 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:19 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-OOsEFiQQL_bI?4TbvGg8v7hKD23ictz8Ev?pryyG0ck

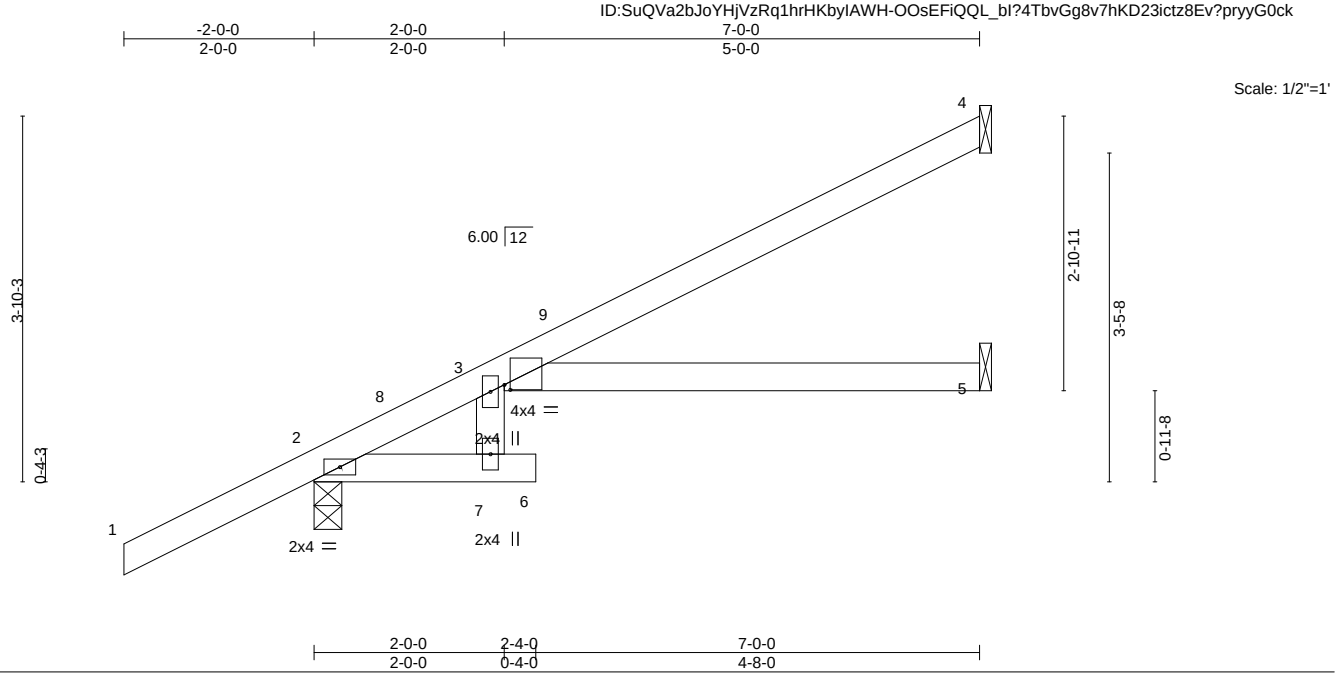



Plate Offsets (X,Y)-- [3:0-0-12,0-0-10]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.10 | 6 | >824 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.53 | Vert(CT) | -0.21 | 3-5 | >379 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.09 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-R | | Wind(LL) | 0.12 | 6 | >692 | 240 | Weight: 27 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

**BRACING-**

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

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=119(LC 12)

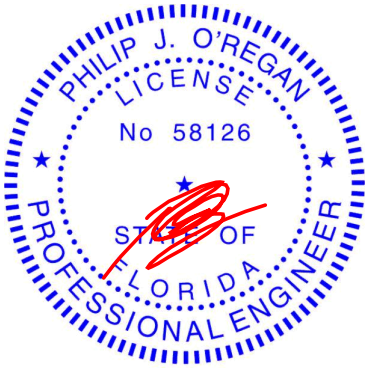
Max Uplift 4=-42(LC 12), 2=-59(LC 12)

Max Grav 4=148(LC 1), 2=392(LC 1), 5=119(LC 3)

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

**NOTES-**

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 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.
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) 4.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | G01 | Half Hip | 1 | 1 | T26087715 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:20 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-sbQcS2Q26Ij9cE2nTzBNRKEUQRNiLBOHTZlMNOyG0cj

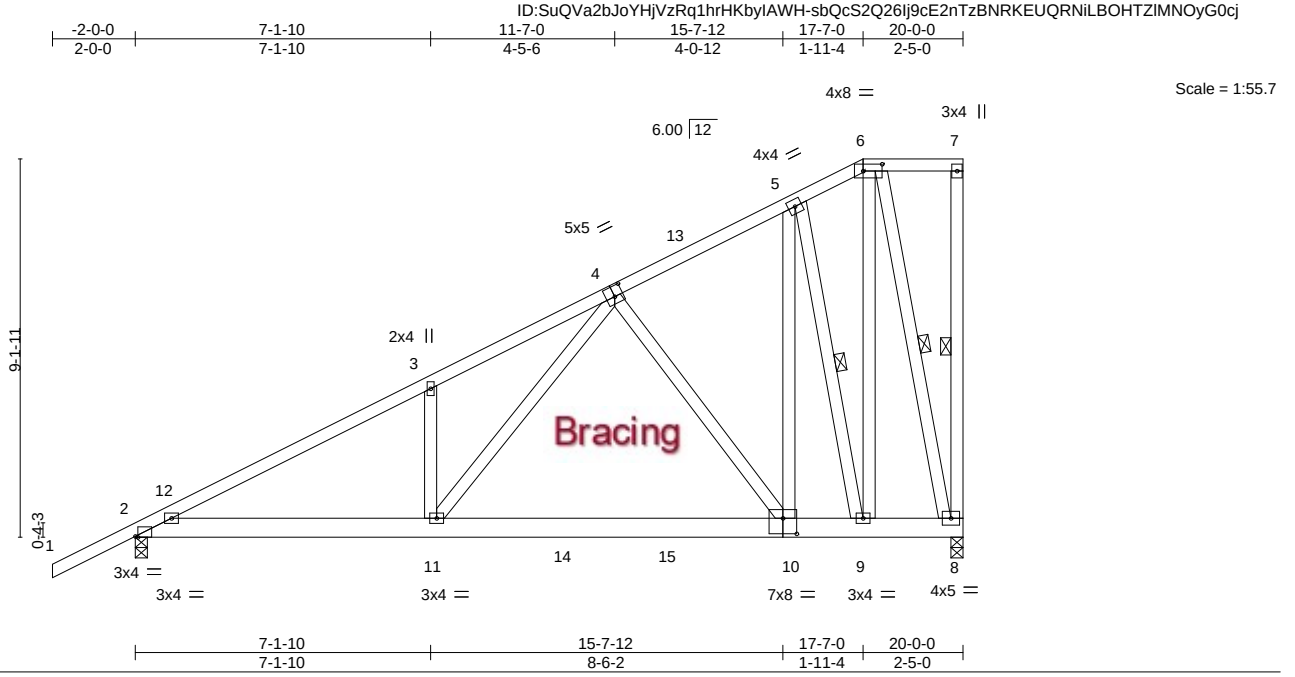



Plate Offsets (X,Y)-- [2:0-0-12,Edge], [4:0-2-8,0-3-0], [6:0-5-8,0-2-0], [10:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.57 | Vert(LL) | -0.08 | 10-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.67 | Vert(CT) | -0.23 | 10-11 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.57 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.03 | 10-11 | >999 | 240 | Weight: 169 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 7-8, 5-9, 6-8 |

**REACTIONS.** (size) 8=0-3-8, 2=0-3-8
Max Horz 2=278(LC 9)
Max Grav 8=1063(LC 17), 2=1086(LC 17)

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

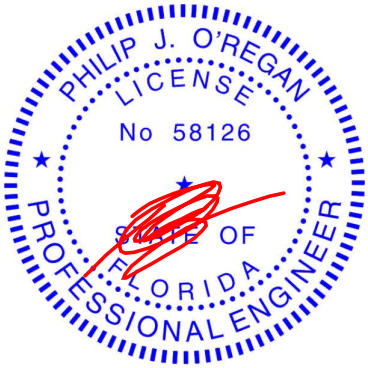
| | |
|---|---|
| TOP CHORD | 2-3=-1728/0, 3-4=-1723/0, 4-5=-641/0, 5-6=-337/96 |
| BOT CHORD | 2-11=0/1562, 10-11=-5/932, 9-10=-4/527, 8-9=-59/272 |
| WEBS | 3-11=-311/143, 4-11=0/1035, 4-10=-658/7, 5-10=0/1158, 5-9=-1207/0, 6-9=0/965, 6-8=-984/0 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-7-0, Exterior(2E) 17-7-0 to 19-10-4 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
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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-54, 6-7=-54, 2-11=-20, 10-11=-60, 8-10=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-44, 6-7=-44, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-14, 6-7=-14, 2-11=-40, 10-11=-80, 8-10=-40




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=44, 2-12=25, 6-12=16, 6-7=25, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-52, 2-12=-33, 6-12=-25, 7-8=27

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-13=16, 6-13=25, 6-7=25, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-20, 2-13=-25, 6-13=-33, 7-8=-16

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-6=-26, 6-7=-26, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-8, 2-6=12, 7-8=-25

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-6=-26, 6-7=-26, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=8, 2-6=12, 7-8=18

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-6=3, 6-7=8, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-24, 2-6=-11, 7-8=15

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-6=9, 6-7=18, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-13, 2-6=-17, 7-8=-13

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-6=-22, 6-7=-15, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=4, 2-6=8, 7-8=6

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-6=-6, 6-7=-15, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-13, 2-6=-8, 7-8=-22

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-6=16, 6-7=16, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-37, 2-6=-24, 7-8=20

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-6=3, 6-7=3, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-24, 2-6=-11, 7-8=20

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-6=-15, 6-7=-15, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-4, 2-6=1, 7-8=11

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-6=-15, 6-7=-15, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-4, 2-6=1, 7-8=11

16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-14, 6-7=-14, 2-11=-40, 11-14=-80, 14-15=-100, 10-15=-80, 8-10=-40

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-6=-50, 6-7=-45, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=3, 2-6=6, 7-8=5

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-6=-38, 6-7=-45, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=-10, 2-6=-6, 7-8=-16

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-6=-45, 6-7=-45, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=-3, 2-6=1, 7-8=8

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-6=-45, 6-7=-45, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=-3, 2-6=1, 7-8=8

21) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-54, 6-7=-54, 2-11=-20, 10-11=-60, 8-10=-20

22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-6=-14, 6-7=-54, 2-11=-20, 10-11=-60, 8-10=-20

23) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-6=-44, 6-7=-44, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35

24) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-6=-14, 6-7=-44, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | G02 | Half Hip | 1 | 1 | T26087716 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:21 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-Kn__gORgtbr0EOd_0hic_YmfCrjr4evRiCUwvqyG0ci

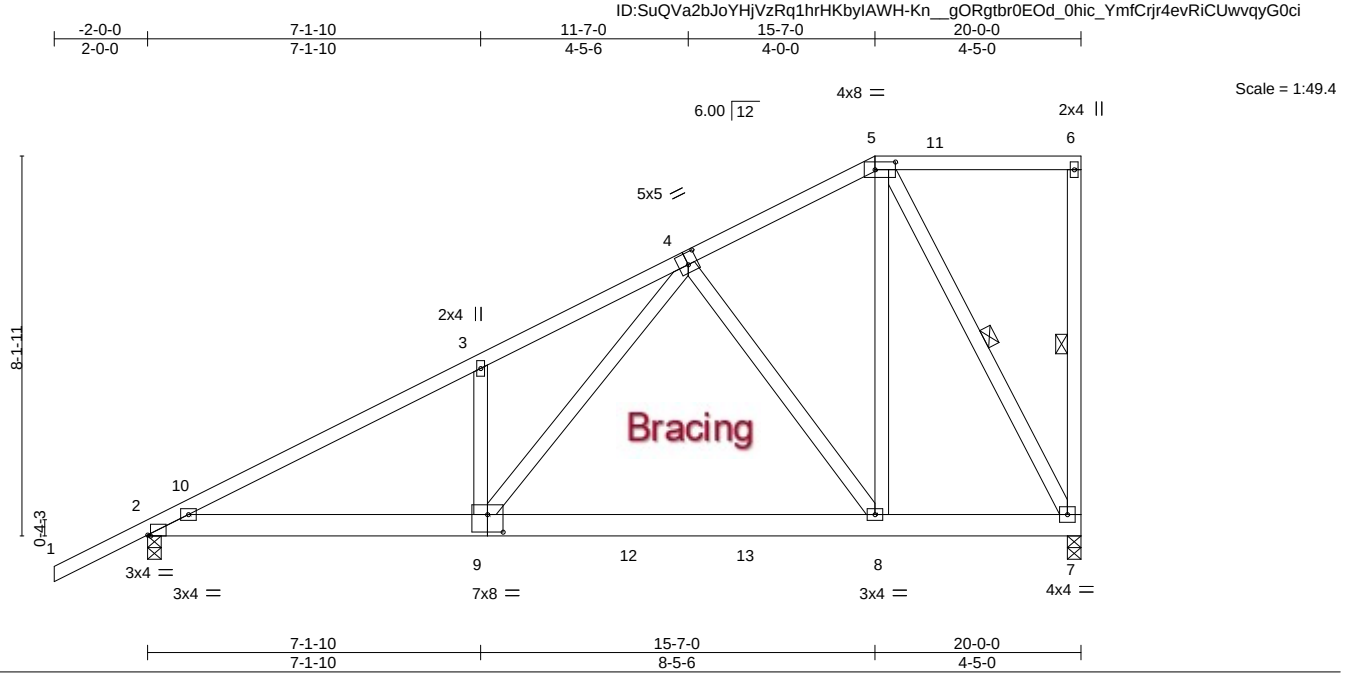



Plate Offsets (X,Y)-- [2:0-0-12,Edge], [4:0-2-8,0-3-0], [5:0-5-4,0-2-0], [9:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.57 | Vert(LL) | -0.07 | 8-9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.22 | 8-9 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.55 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 9 | >999 | 240 | Weight: 142 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-1-10 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 6-7, 5-7 |

**REACTIONS.** (size) 7=0-3-8, 2=0-3-8
Max Horz 2=248(LC 9)
Max Grav 7=1047(LC 17), 2=1088(LC 17)

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

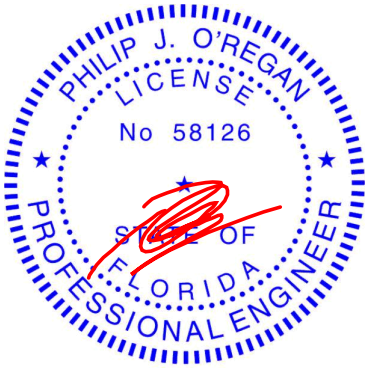
| | |
|---|---|
| TOP CHORD | 2-3=-1733/0, 3-4=-1730/0, 4-5=-628/0 |
| BOT CHORD | 2-9=0/1556, 8-9=-10/923, 7-8=0/559 |
| WEBS | 3-9=-314/142, 4-9=0/1041, 4-8=-646/18, 5-8=0/1023, 5-7=-1114/0 |

**NOTES-**

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-7-0, Exterior(2E) 15-7-0 to 19-10-4 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-54, 5-6=-54, 2-9=-20, 8-9=-60, 7-8=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-44, 5-6=-44, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-14, 5-6=-14, 2-9=-40, 8-9=-80, 7-8=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

Uniform Loads (plf)
Vert: 1-2=44, 2-10=25, 5-10=16, 5-6=25, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-52, 2-10=-33, 5-10=-25, 6-7=27
Drag: 5-6=-0

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-4=16, 4-5=25, 5-11=16, 6-11=25, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-20, 2-4=-25, 4-5=-33, 6-7=-16
Drag: 5-11=-0, 6-11=-0

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-5=-26, 5-6=-26, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-8, 2-5=12, 6-7=-25
Drag: 5-6=0

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-5=-26, 5-6=-26, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=8, 2-5=12, 6-7=18
Drag: 5-6=0

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-5=3, 5-6=8, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-24, 2-5=-11, 6-7=15
Drag: 5-6=-0

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-5=9, 5-6=18, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-13, 2-5=-18, 6-7=-13
Drag: 5-6=-0

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-5=-22, 5-6=-15, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=4, 2-5=8, 6-7=6

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-5=-6, 5-6=-15, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-13, 2-5=-8, 6-7=-22

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-5=16, 5-6=16, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-37, 2-5=-24, 6-7=20
Drag: 5-6=-0

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=3, 5-6=3, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-24, 2-5=-11, 6-7=20
Drag: 5-6=-0

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-5=-15, 5-6=-15, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-4, 2-5=1, 6-7=11

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-5=-15, 5-6=-15, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-4, 2-5=1, 6-7=11

16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-14, 5-6=-14, 2-9=-40, 9-12=-80, 12-13=-100, 8-13=-80, 7-8=-40

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-5=-50, 5-6=-45, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35
Horz: 1-2=3, 2-5=6, 6-7=5

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-38, 5-6=-45, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35
Horz: 1-2=-10, 2-5=-6, 6-7=-16

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-5=-45, 5-6=-45, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35
Horz: 1-2=-3, 2-5=1, 6-7=8

Continued on page 3


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-5=-45, 5-6=-45, 2-9=-35, 9-12=-75, 12-13=-90, 8-13=-75, 7-8=-35
Horz: 1-2=-3, 2-5=1, 6-7=8


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | G03 | Half Hip | 1 | 1 | T26087717 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:22 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-ozYMtkSIevztsYCAaODrXlJqAF3xp9sawsETSHyG0ch

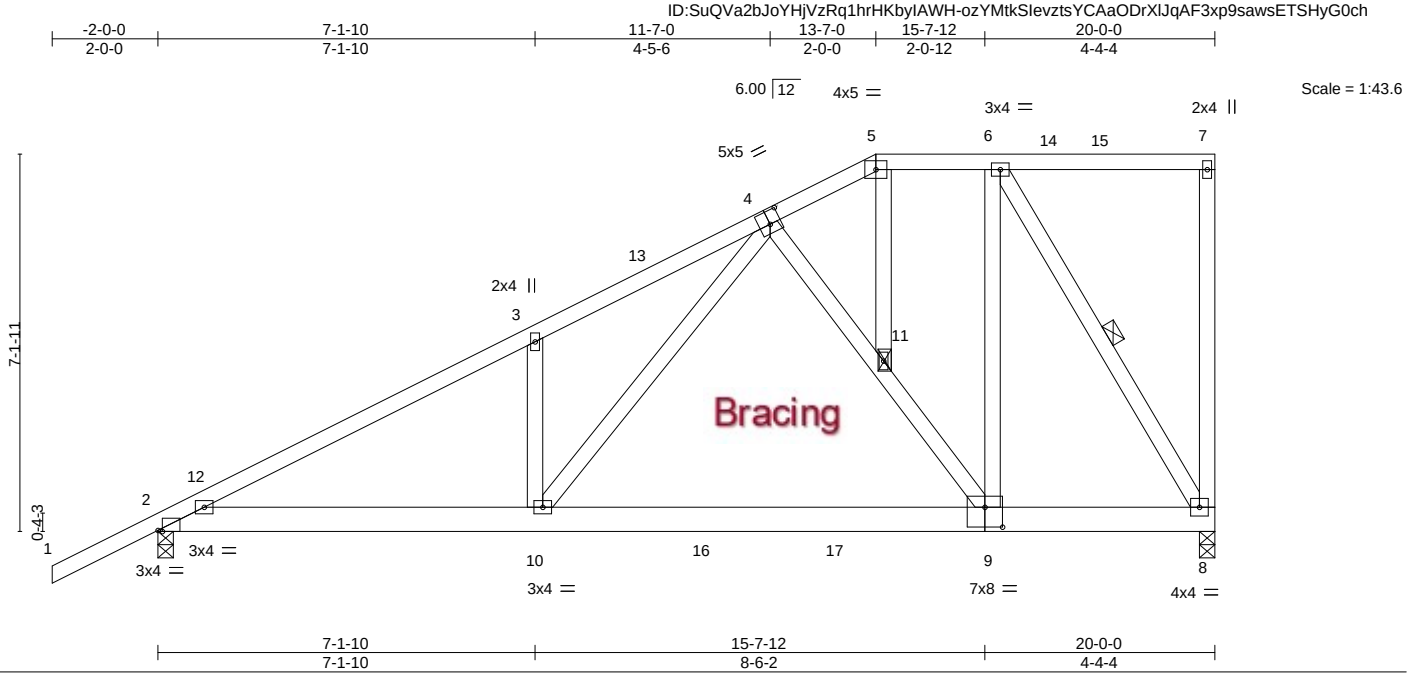



Plate Offsets (X,Y)-- [2:0-1-0,Edge], [4:0-2-8,0-3-0], [9:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.07 | 9-10 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.23 | 9-10 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.31 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 10 | >999 | 240 | Weight: 143 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-1-15 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 6-8 |
| JOINTS | 1 Brace at Jt(s): 11 |

**REACTIONS.** (size) 8=0-3-8, 2=0-3-8
Max Horz 2=218(LC 9)
Max Grav 8=1037(LC 17), 2=1090(LC 17)

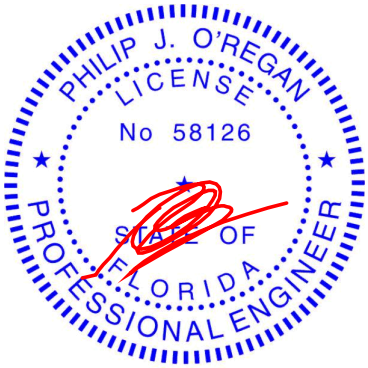
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1743/0, 3-4=-1750/0, 4-5=-642/0, 5-6=-580/0
BOT CHORD 2-10=0/1555, 9-10=-7/900, 8-9=0/597
WEBS 3-10=-337/145, 4-10=0/1076, 4-11=-544/43, 9-11=-472/70, 6-9=0/869, 6-8=-1120/0

**NOTES-**

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-7-0, Exterior(2R) 13-7-0 to 17-9-15, Interior(1) 17-9-15 to 19-10-4 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-54, 5-7=-54, 2-10=-20, 9-10=-60, 8-9=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-44, 5-7=-44, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-14, 5-7=-14, 2-10=-40, 9-10=-80, 8-9=-40




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=44, 2-12=25, 5-12=16, 5-15=25, 7-15=16, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-52, 2-12=-33, 5-12=-25, 7-8=27
Drag: 5-6=-0

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-13=16, 5-13=25, 5-14=16, 7-14=25, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-20, 2-13=-25, 5-13=-33, 7-8=-16
Drag: 5-6=-0

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-5=-26, 5-7=-26, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-8, 2-5=12, 7-8=-25
Drag: 5-6=0

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-5=-26, 5-7=-26, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=8, 2-5=12, 7-8=18
Drag: 5-6=0

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-5=3, 5-7=8, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-24, 2-5=-11, 7-8=15
Drag: 5-6=-0

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-5=9, 5-7=18, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-13, 2-5=-18, 7-8=-13
Drag: 5-6=-0

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-5=-22, 5-7=-15, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=4, 2-5=8, 7-8=6

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-5=-6, 5-7=-15, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-13, 2-5=-8, 7-8=-22

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-5=16, 5-7=16, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-37, 2-5=-24, 7-8=20
Drag: 5-6=-0

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=3, 5-7=3, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-24, 2-5=-11, 7-8=20
Drag: 5-6=-0

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-5=-15, 5-7=-15, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-4, 2-5=1, 7-8=11

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-5=-15, 5-7=-15, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-4, 2-5=1, 7-8=11

16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-14, 5-7=-14, 2-10=-40, 10-16=-80, 16-17=-100, 9-17=-80, 8-9=-40

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-5=-50, 5-7=-45, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=3, 2-5=6, 7-8=5

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-5=-38, 5-7=-45, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=-10, 2-5=-6, 7-8=-16

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-5=-45, 5-7=-45, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=-3, 2-5=1, 7-8=8

Continued on page 3


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-5=-45, 5-7=-45, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=-3, 2-5=1, 7-8=8


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | G04 | Half Hip | 1 | 1 | T26087718 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:23 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-GA6l44TwPD5kTinM86k43zs?nfP1YS7k9Wz0_jyG0cg

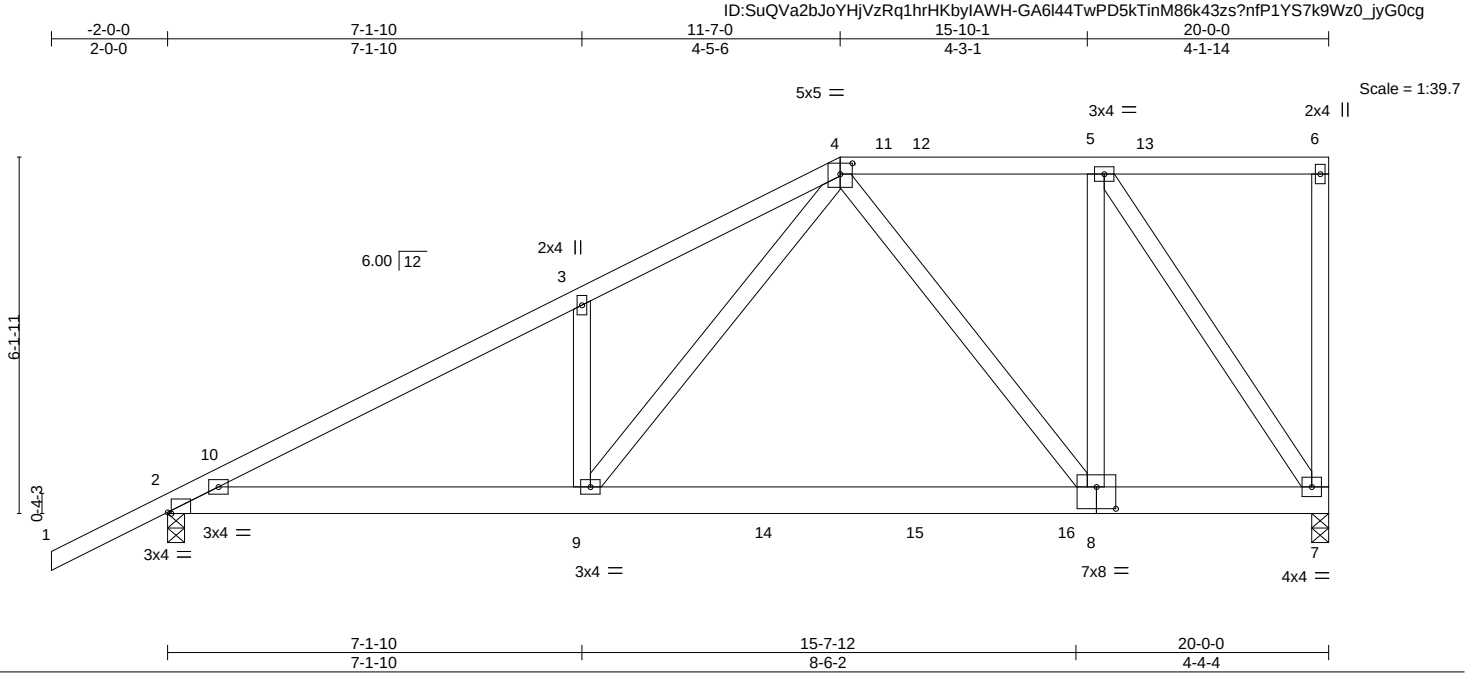



Plate Offsets (X,Y)-- [2:0-0-12,Edge], [4:0-2-8,0-2-4], [8:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.07 | 8-9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(CT) | -0.22 | 8-9 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.95 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 9 | >999 | 240 | Weight: 133 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-1-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 7=0-3-8, 2=0-3-8
Max Horz 2=188(LC 9)
Max Grav 7=1018(LC 17), 2=1087(LC 17)

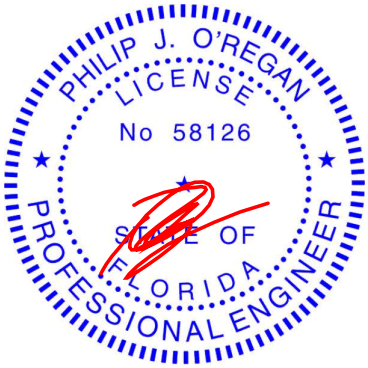
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1738/0, 3-4=-1741/0, 4-5=-668/0
BOT CHORD 2-9=0/1539, 8-9=0/883, 7-8=0/680
WEBS 3-9=-327/176, 4-9=0/1074, 4-8=-336/82, 5-8=0/778, 5-7=-1193/0

**NOTES-**

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-7-0, Exterior(2R) 11-7-0 to 15-11-13, Interior(1) 15-11-13 to 19-10-4 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-9=-20, 9-16=-60, 7-16=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-44, 4-6=-44, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-14, 4-6=-14, 2-9=-40, 9-16=-80, 7-16=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

Uniform Loads (plf)
Vert: 1-2=44, 2-10=25, 4-10=16, 4-5=25, 5-6=16, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-52, 2-10=-33, 4-10=-25, 6-7=27
Drag: 4-5=-0

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-3=16, 3-4=25, 4-13=16, 6-13=25, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-20, 2-3=-25, 3-4=-33, 6-7=-16
Drag: 4-5=-0

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-4=-26, 4-6=-26, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-8, 2-4=12, 6-7=-25
Drag: 4-5=0

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-4=-26, 4-6=-26, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=8, 2-4=12, 6-7=18
Drag: 4-5=0

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-4=3, 4-12=14, 6-12=8, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-24, 2-4=-11, 6-7=15
Drag: 4-12=-0, 5-12=-0

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-4=9, 4-11=14, 6-11=18, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-13, 2-4=-17, 6-7=-13
Drag: 4-5=-0

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-4=-22, 4-6=-15, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=4, 2-4=8, 6-7=6

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-4=-6, 4-6=-15, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-13, 2-4=-8, 6-7=-22

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=16, 4-6=16, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-37, 2-4=-24, 6-7=20
Drag: 4-5=-0

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=3, 4-6=3, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-24, 2-4=-11, 6-7=20
Drag: 4-5=-0

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-4=-15, 4-6=-15, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-4, 2-4=1, 6-7=11

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-4=-15, 4-6=-15, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-4, 2-4=1, 6-7=11

16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-14, 4-6=-14, 2-9=-40, 9-14=-80, 14-15=-100, 15-16=-80, 7-16=-40

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-4=-50, 4-6=-45, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=3, 2-4=6, 6-7=5

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-38, 4-6=-45, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=-10, 2-4=-6, 6-7=-16

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-4=-45, 4-6=-45, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=-3, 2-4=1, 6-7=8

Continued on page 3


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-4=-45, 4-6=-45, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=-3, 2-4=1, 6-7=8


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | G05 | Half Hip | 1 | 1 | T26087719 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:23 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-GA6l44TwPD5kTinM86k43zs3pfULYdZk9Wz0_jyG0cg

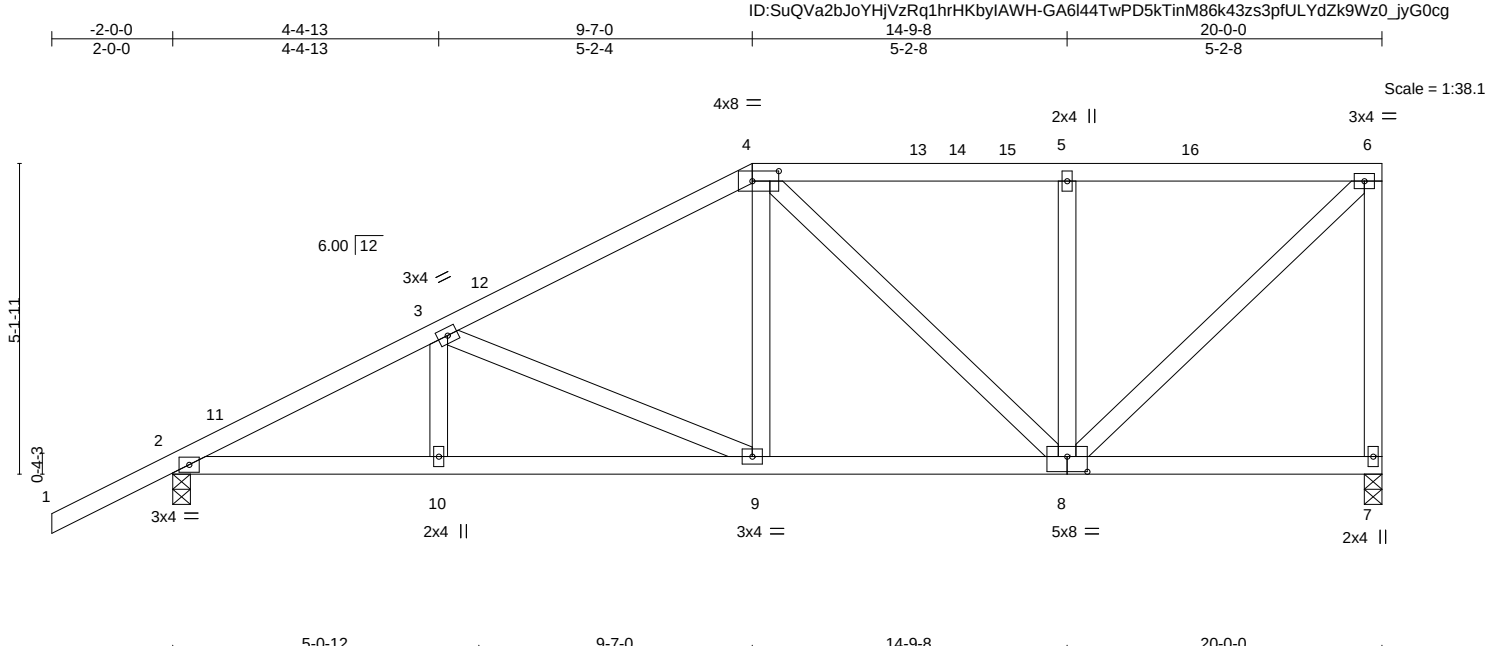



Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [8:0-4-0,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.31 | Vert(LL) | -0.04 | 9-10 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.35 | Vert(CT) | -0.08 | 9-10 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.22 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 9-10 | >999 | 240 | Weight: 116 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-0-14 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |

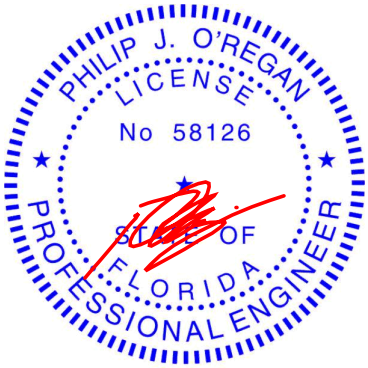
**REACTIONS.** (size) 7=0-3-8, 2=0-3-8
Max Horz 2=159(LC 9)
Max Uplift 7=-49(LC 9), 2=-97(LC 12)
Max Grav 7=723(LC 1), 2=851(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1291/75, 3-4=-900/115, 4-5=-598/119, 5-6=-598/120, 6-7=-676/129 |
| BOT CHORD | 2-10=-248/1095, 9-10=-248/1095, 8-9=-170/753 |
| WEBS | 3-9=-379/83, 4-9=0/323, 5-8=-313/107, 6-8=-115/812 |

**NOTES-**

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-7-0, Exterior(2R) 9-7-0 to 13-9-15, Interior(1) 13-9-15 to 19-10-4 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

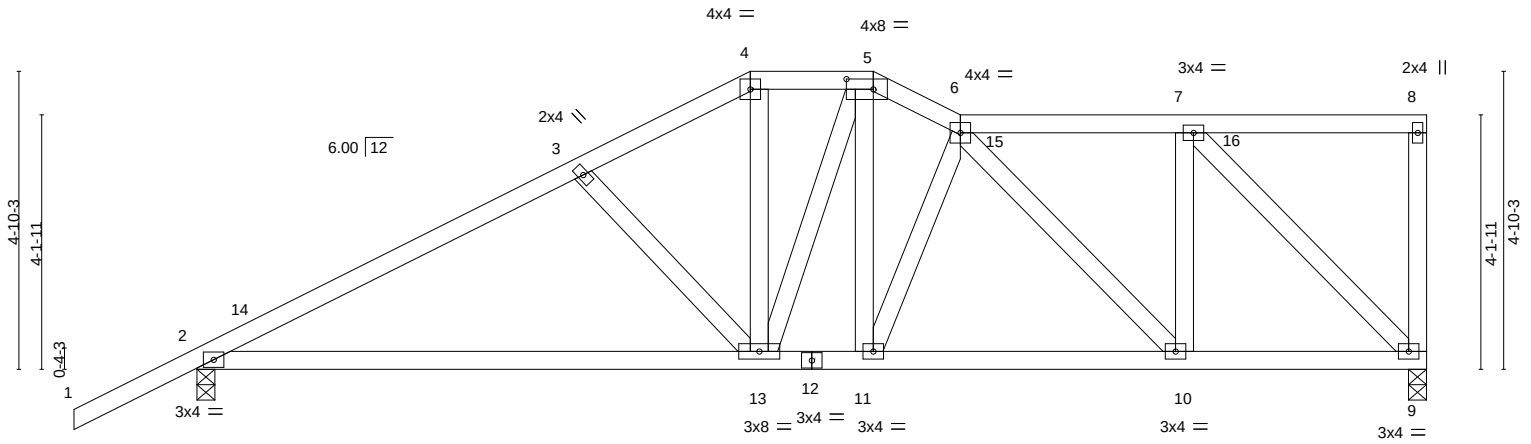
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame T26087720 |
|---|---|---|---|---|---|
| 613839 | G06 | Roof Special | 1 | 1 | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:24 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-kMg7IQTZAWDb5rMZipGJcAOCG3jvH1gtOAjaW9yG0cf

| -2-0-0 | 6-3-6 | 9-0-0 | 11-0-0 | 12-5-0 | 16-0-12 | 20-0-0 |
|---|---|---|---|---|---|---|
| 2-0-0 | 6-3-6 | 2-8-10 | 2-0-0 | 1-5-0 | 3-7-12 | 3-11-4 |

Scale = 1:37.5




| 9-0-0 | 11-0-0 | 16-0-12 | 20-0-0 |
|---|---|---|---|
| 9-0-0 | 2-0-0 | 5-0-12 | 3-11-4 |

Plate Offsets (X,Y)-- [5:0-5-4,0-2-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.39 | Vert(LL) | -0.17 | 2-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.35 | 2-13 | >670 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.42 | Horz(CT) | 0.03 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 2-13 | >999 | 240 | Weight: 121 lb | FT = 20% |

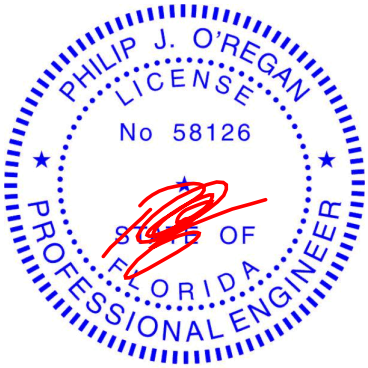
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8
Max Horz 2=140(LC 11)
Max Uplift 9=-35(LC 9), 2=-98(LC 12)
Max Grav 9=723(LC 1), 2=851(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1165/181, 3-4=-941/151, 4-5=-800/147, 5-6=-873/175, 6-7=-606/130
BOT CHORD 2-13=-287/971, 11-13=-195/773, 10-11=-211/861, 9-10=-140/606
WEBS 3-13=-267/146, 4-13=-22/323, 6-11=-255/89, 6-10=-370/103, 7-10=-6/393, 7-9=-852/154

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-5-0, Interior(1) 12-5-0 to 19-10-4 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
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 2. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | G07 | Roof Special Girder | 1 | 1 | T26087721 |

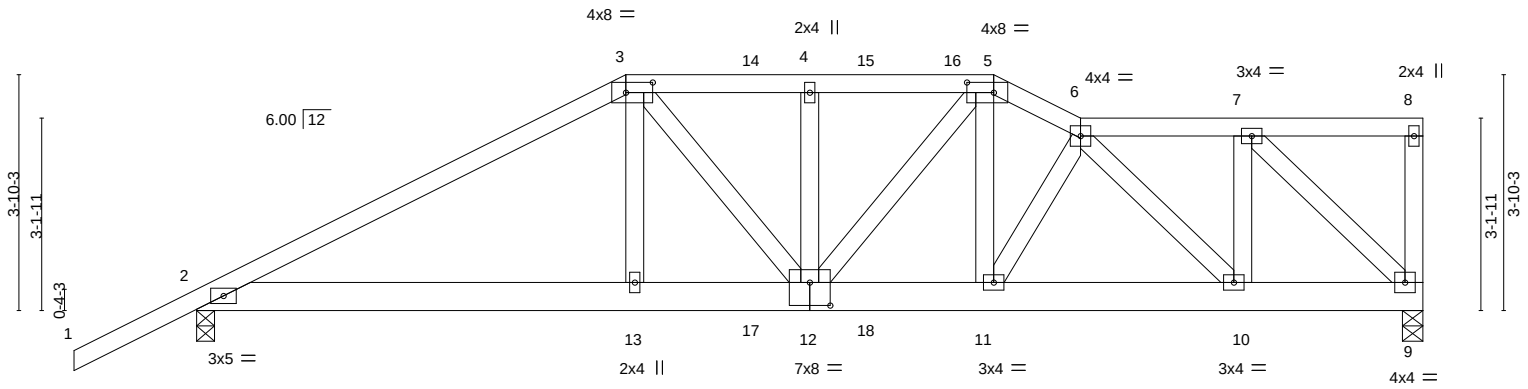
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:25 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-CYDVVmUBxqLRj?xlFWnY8OxGbS6c0Uc0cqS72byG0ce

| -2-0-0 | 7-0-0 | 10-0-0 | 13-0-0 | 14-5-0 | 17-0-12 | 20-0-0 |
|---|---|---|---|---|---|---|
| 2-0-0 | 7-0-0 | 3-0-0 | 3-0-0 | 1-5-0 | 2-7-12 | 2-11-4 |

Scale = 1:37.6




| 7-0-0 | 10-0-0 | 13-0-0 | 17-0-12 | 20-0-0 |
|---|---|---|---|---|
| 7-0-0 | 3-0-0 | 3-0-0 | 4-0-12 | 2-11-4 |

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [5:0-5-4,0-2-0], [12:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.86 | Vert(LL) | -0.07 | 12 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | -0.13 | 12 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.44 | Horz(CT) | 0.04 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.04 | 12 | >999 | 240 | Weight: 129 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

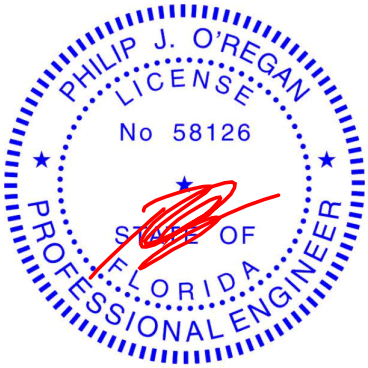
**REACTIONS.** (size) 9=0-4-0, 2=0-3-8
Max Horz 2=109(LC 7)
Max Uplift 9=-34(LC 5), 2=-82(LC 8)
Max Grav 9=1312(LC 1), 2=1415(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2412/9, 3-4=-2275/62, 4-5=-2275/62, 5-6=-2341/59, 6-7=-1224/46
BOT CHORD 2-13=-25/2072, 12-13=-18/2090, 11-12=-46/2115, 10-11=-58/2165, 9-10=-43/1224
WEBS 3-13=0/589, 3-12=-109/378, 4-12=-340/129, 5-12=-12/286, 5-11=0/550, 6-10=-1358/24, 7-10=0/1023, 7-9=-1700/33

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 2. This connection is for uplift only and does not consider lateral forces.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down and 81 lb up at 7-0-0, 111 lb down and 77 lb up at 9-0-12, and 111 lb down and 77 lb up at 10-11-4, and 240 lb down and 165 lb up at 13-0-0 on top chord, and 306 lb down at 7-0-0, 96 lb down at 9-0-12, and 96 lb down at 10-11-4, and 306 lb down at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 5-6=-54, 6-8=-54, 2-9=-20




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 3=-111(B) 5=-193(B) 13=-266(B) 11=-266(B) 14=-111(B) 15=-111(B) 17=-48(B) 18=-48(B)


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

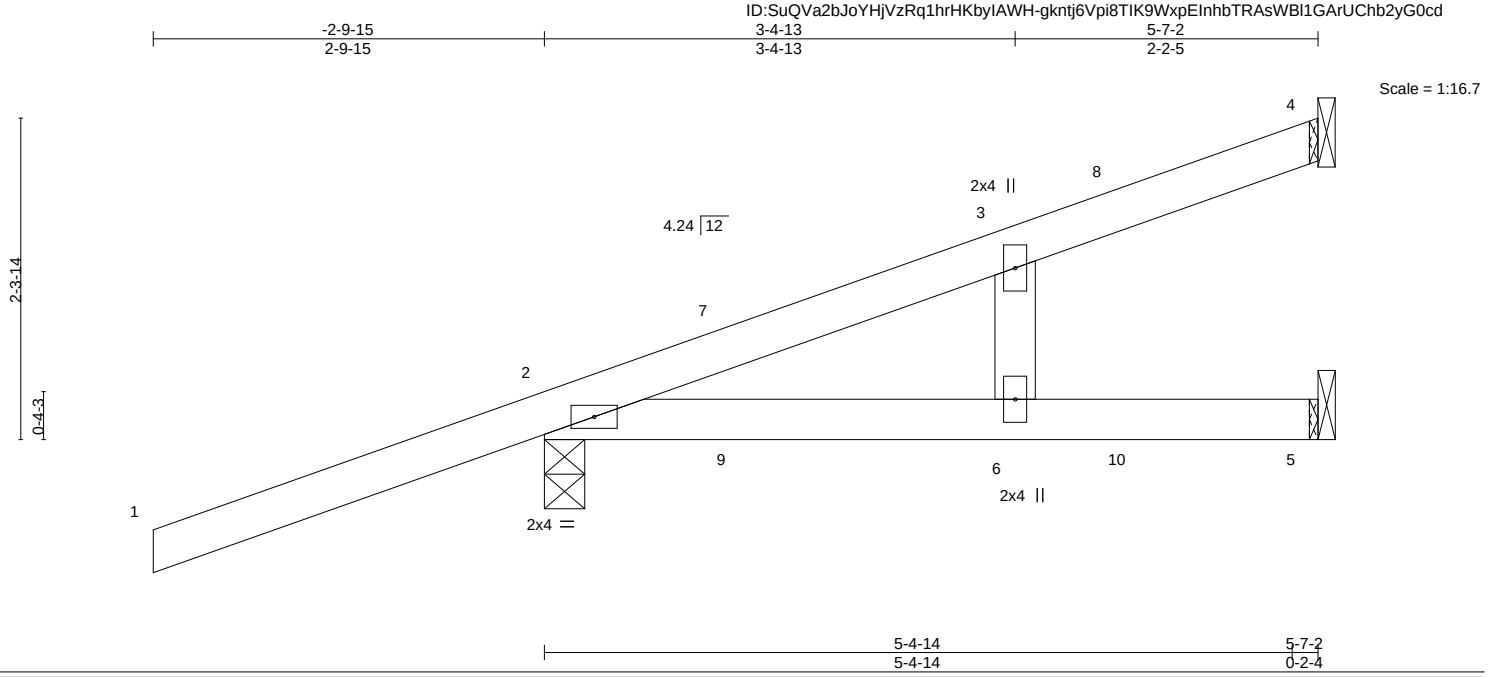
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | H4 | DIAGONAL HIP GIRDER | 2 | 1 | T26087722 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:26 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-gkntj6Vpi8TIK9WxpEInhbTRAsWBl1GArUChb2yG0cd




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.87 | Vert(LL) | 0.04 | 2-6 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.08 | 2-6 | >851 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.03 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | -0.06 | 2-6 | >999 | 240 | Weight: 23 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=83(LC 8)
Max Uplift 4=-37(LC 8), 2=-200(LC 8), 5=-29(LC 13)
Max Grav 4=100(LC 1), 2=360(LC 28), 5=70(LC 24)

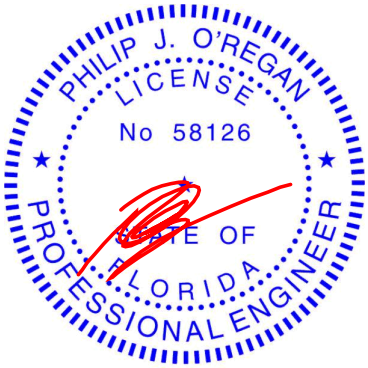
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; 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) 4, 5.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 168 lb up at 1-4-15, 97 lb down and 168 lb up at 1-4-15, and 52 lb down and 23 lb up at 4-2-15, and 52 lb down and 23 lb up at 4-2-15 on top chord, and at 1-4-15, at 1-4-15, and 12 lb down at 4-2-15, and 12 lb down at 4-2-15 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=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-54, 2-5=-20
   Concentrated Loads (lb)
   Vert: 7=87(F=43, B=43) 10=-2(F=-1, B=-1)




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

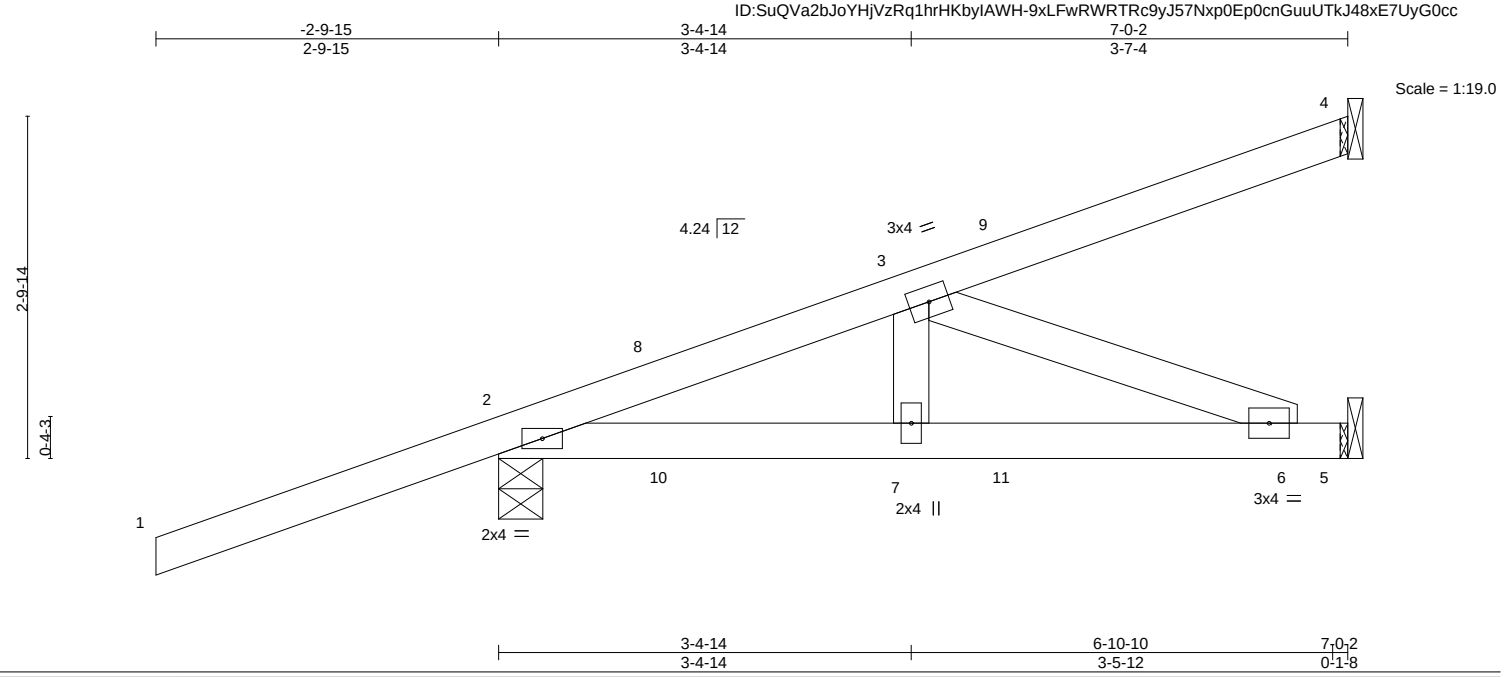

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | H5 | Diagonal Hip Girder | 2 | 1 | T26087723 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:27 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-9xLFwRWRTRc9yJ57Nxp0Ep0cnGuuUTkJ48xE7UyG0cc




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.88 | Vert(LL) | -0.01 | 6-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | -0.02 | 6-7 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.08 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | -0.01 | 6-7 | >999 | 240 | Weight: 32 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** (size) 4=Mechanical, 2=0-4-6, 5=Mechanical
Max Horz 2=95(LC 8)
Max Uplift 4=-33(LC 8), 2=-157(LC 8)
Max Grav 4=115(LC 17), 2=441(LC 28), 5=147(LC 29)

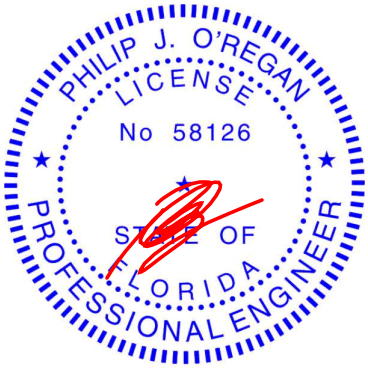
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-435/26
BOT CHORD 2-7=-46/339, 6-7=-46/339
WEBS 3-6=-365/50

**NOTES-**

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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) 4.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 168 lb up at 1-4-15, 97 lb down and 168 lb up at 1-4-15, and 56 lb down and 48 lb up at 4-2-15, and 54 lb down and 23 lb up at 4-2-15 on top chord, and at 1-4-15, at 1-4-15, and 11 lb down at 4-2-15, and 11 lb down at 4-2-15 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=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-54, 2-5=-20
   Concentrated Loads (lb)
   Vert: 8=87(F=43, B=43)




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

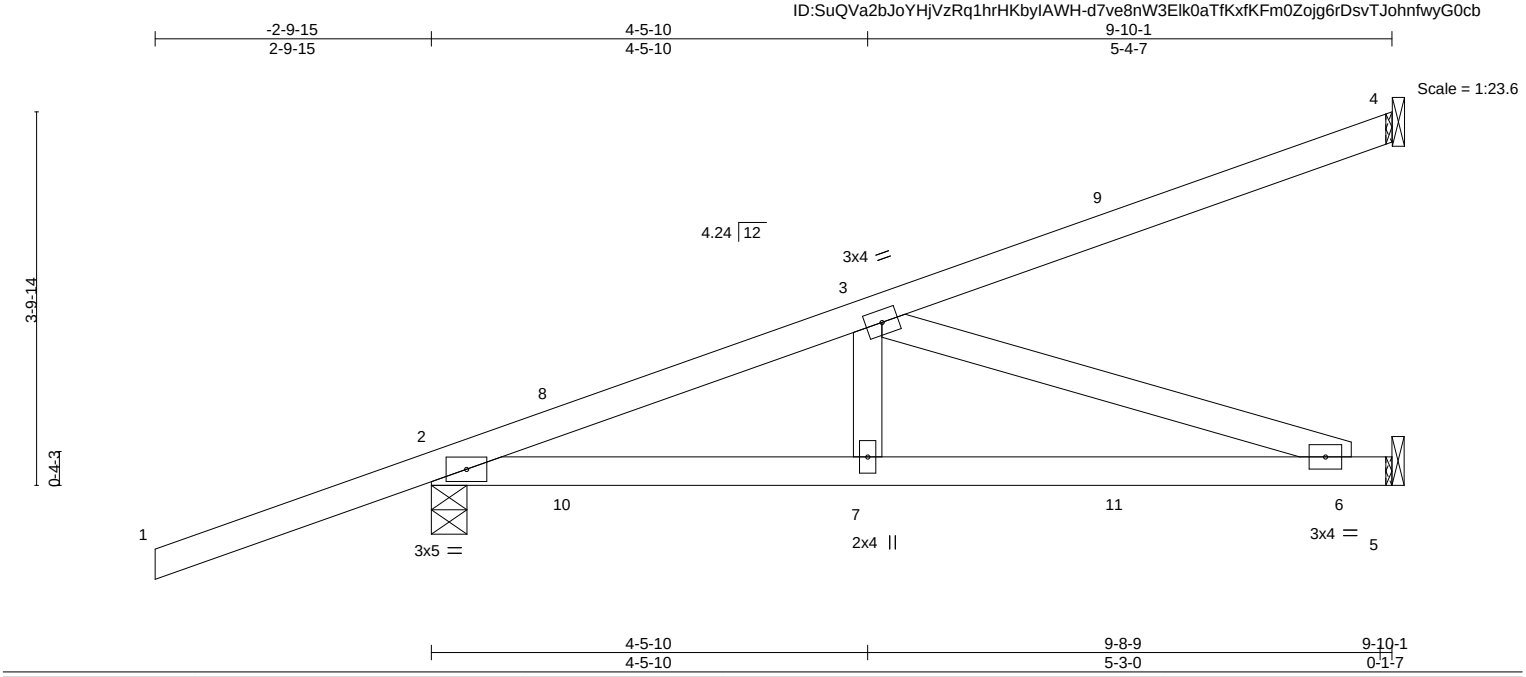

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | H7 | Diagonal Hip Girder | 3 | 1 | T26087724 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:28 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-d7ve8nW3Elk0aTfKxfKFm0Zojg6rDsvTJohnfwyG0cb




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.06 | 6-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.65 | Vert(CT) | -0.13 | 6-7 | >860 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.34 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | -0.03 | 2-7 | >999 | 240 | Weight: 44 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-6-9 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |

**REACTIONS.** (size) 4=Mechanical, 2=0-4-6, 5=Mechanical
Max Horz 2=119(LC 24)
Max Uplift 4=-58(LC 8), 2=-162(LC 8)
Max Grav 4=158(LC 1), 2=560(LC 28), 5=267(LC 3)

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

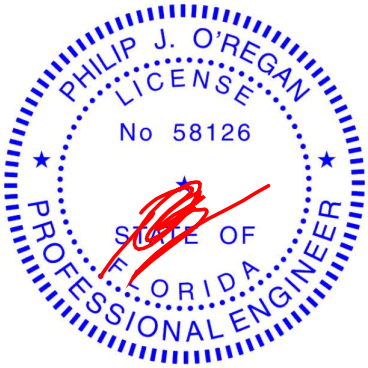
| | |
|---|---|
| TOP CHORD | 2-3=-782/51 |
| BOT CHORD | 2-7=-88/664, 6-7=-88/664 |
| WEBS | 3-7=0/294, 3-6=-698/92 |

**NOTES-**

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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) 4.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 168 lb up at 1-4-15, 97 lb down and 168 lb up at 1-4-15, 56 lb down and 48 lb up at 4-2-15, 54 lb down and 23 lb up at 4-2-15, and 80 lb down and 77 lb up at 7-0-14, and 72 lb down and 57 lb up at 7-0-14 on top chord, and at 1-4-15, at 1-4-15, 11 lb down at 4-2-15, 11 lb down at 4-2-15, and 39 lb down at 7-0-14, and 39 lb down at 7-0-14 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=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-54, 2-5=-20
   Concentrated Loads (lb)
   Vert: 8=87(F=43, B=43) 9=-80(F=-27, B=-53) 11=-39(F=-20, B=-20)




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | H7T | Diagonal Hip Girder | 1 | 1 | T26087725 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:29 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-5JT0L7Xh?3stBdEWUMrUJE5?H4USyMfcXSQLBNyG0ca

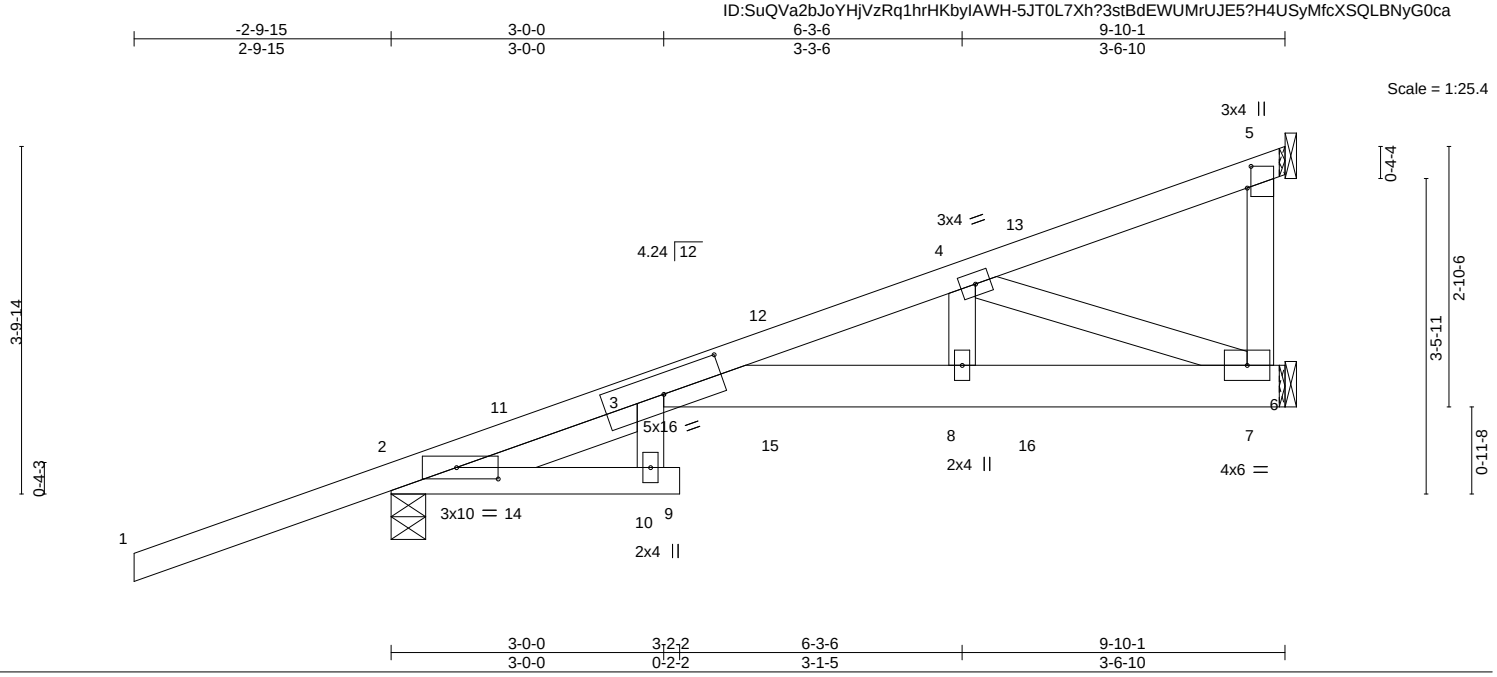



Plate Offsets (X,Y)-- [2:0-5-8,0-1-8], [3:0-8-0,0-2-11], [5:0-2-14,0-0-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.08 | 9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | -0.15 | 9 | >762 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.18 | Horz(CT) | 0.07 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | -0.12 | 9 | >947 | 240 | Weight: 54 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* |
| | 3-6: 2x6 SP No.2 |
| WEBS | 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.2 2-1-5 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-7-2 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-10. |

**REACTIONS.** (size) 5=Mechanical, 7=Mechanical, 2=0-4-9
Max Horz 2=102(LC 5)
Max Uplift 5=-22(LC 5), 2=-154(LC 8)
Max Grav 5=74(LC 17), 7=342(LC 30), 2=562(LC 28)

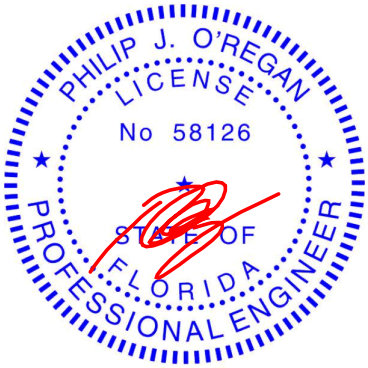
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

| | |
|---|---|
| TOP CHORD | 3-4=-903/0 |
| BOT CHORD | 3-8=-28/835, 7-8=-28/836 |
| WEBS | 4-8=0/310, 4-7=-870/12 |

**NOTES-**

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.
8) n/a
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 168 lb up at 1-4-15, 97 lb down and 168 lb up at 1-4-15, 50 lb down and 18 lb up at 4-2-15, 50 lb down and 18 lb up at 4-2-15, and 74 lb down and 46 lb up at 7-0-14, and 74 lb down and 46 lb up at 7-0-14 on top chord, and at 1-4-15, at 1-4-15, 17 lb down at 4-2-15, 17 lb down at 4-2-15, and 33 lb down at 7-0-14, and 33 lb down at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 2-10=-20, 9-10=-20, 3-6=-20
   Concentrated Loads (lb)
   Vert: 11=87(F=43, B=43) 13=-38(F=-19, B=-19) 15=-7(F=-3, B=-3) 16=-63(F=-32, B=-32)


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | PB1 | Piggyback | 2 | 1 | T26087726 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:30 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-ZW1OYTYKmM_kpmpi24MjrReIGTunhrImm6AukpyG0cZ

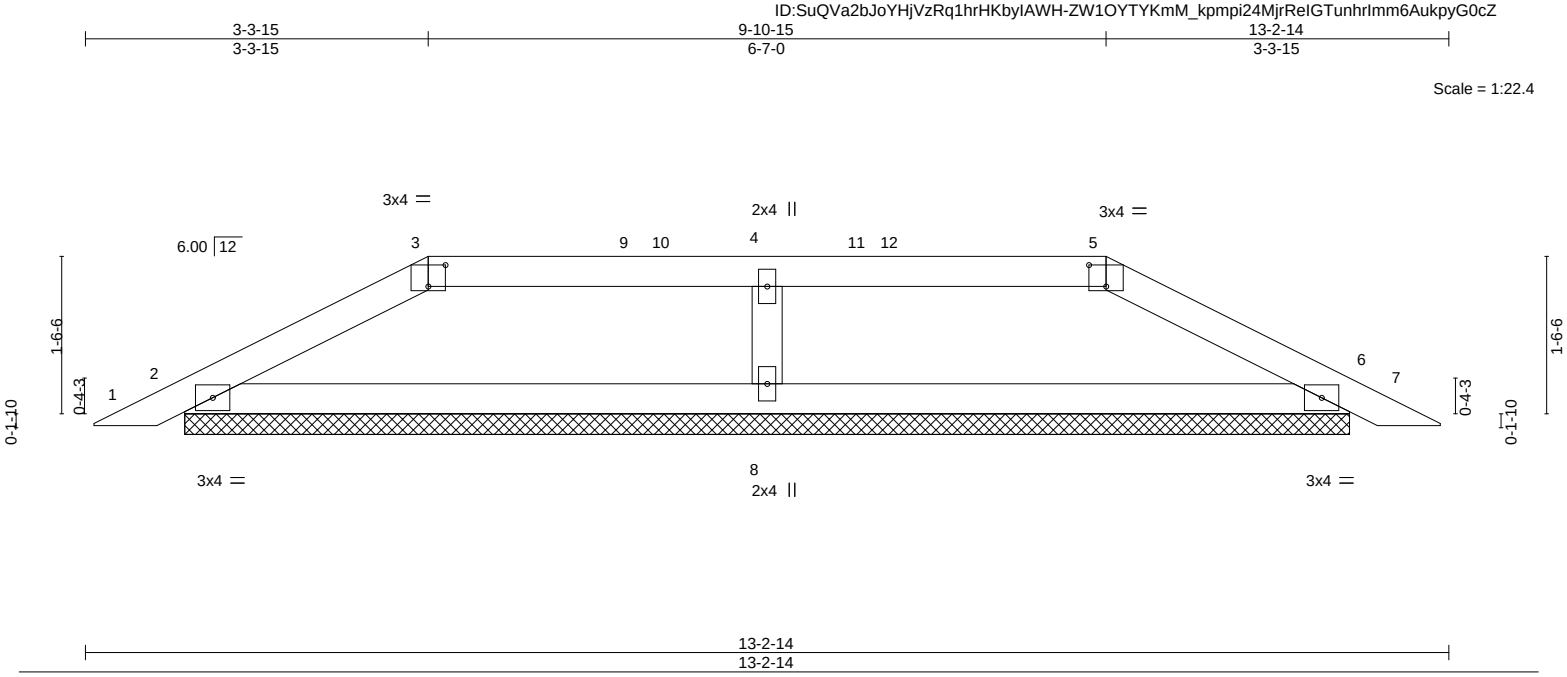



Plate Offsets (X,Y)-- [3:0-2-0,0-2-8], [5:0-2-0,0-2-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | 0.01 | 7 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | 0.01 | 7 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 39 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| OTHERS | 2x4 SP No.2 |

**BRACING-**

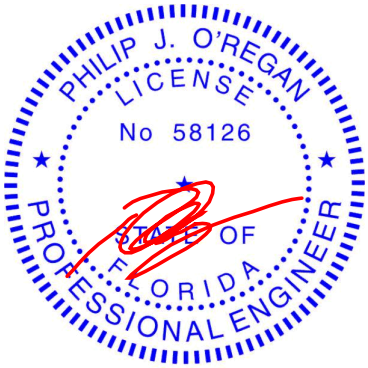
| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |

**REACTIONS.** (size) 2=11-3-12, 6=11-3-12, 8=11-3-12
Max Horz 2=25(LC 11)
Max Uplift 2=-43(LC 12), 6=-43(LC 12)
Max Grav 2=272(LC 1), 6=272(LC 1), 8=355(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-318/159, 3-4=-263/158, 4-5=-263/158, 5-6=-318/159
BOT CHORD 2-8=-95/263, 6-8=-95/263

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-11 to 3-3-15, Exterior(2R) 3-3-15 to 7-6-14, Interior(1) 7-6-14 to 9-10-15, Exterior(2E) 9-10-15 to 12-10-4 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
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) Gable requires continuous bottom chord bearing.
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) n/a
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | PB2 | Piggyback | 1 | 1 | T26087727 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:31 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-1ibmmpZyXg6bRwOvcnuyOfBS3tGMQIWv?mvSGFyG0cY

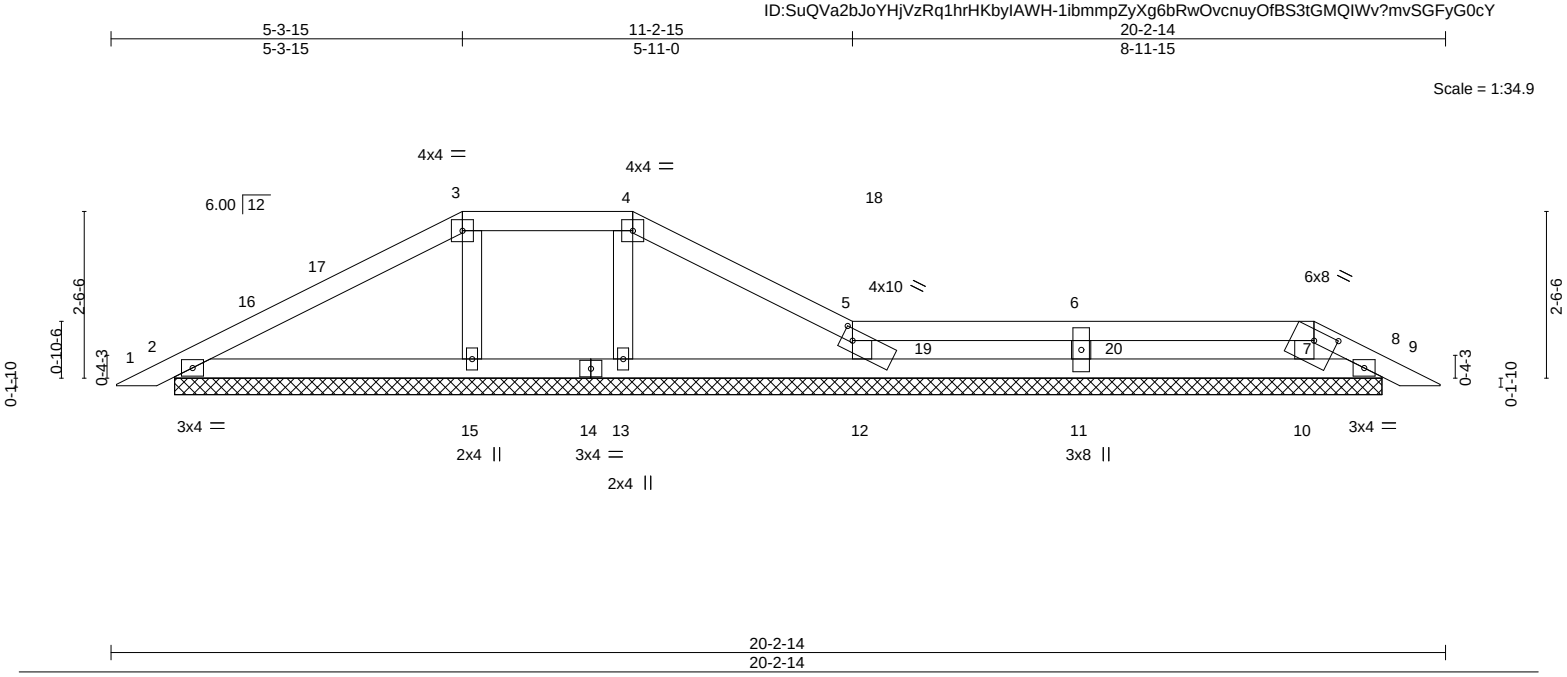



Plate Offsets (X,Y)-- [5:0-2-0,0-2-0], [7:0-4-0,0-1-15]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.22 | Vert(LL) | -0.00 | 8 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | -0.00 | 8 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 66 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

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

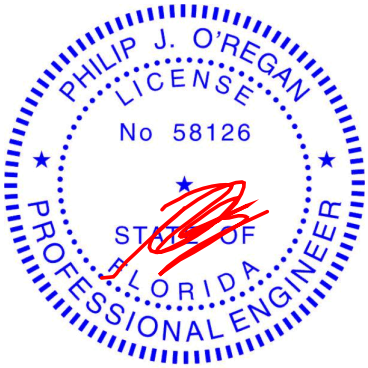
**REACTIONS.** All bearings 18-3-12.

(lb) - Max Horz 2=41(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 11, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 13, 8 except 12=262(LC 1), 15=296(LC 21), 11=281(LC 22)

**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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-11 to 3-4-11, Interior(1) 3-4-11 to 5-3-15, Exterior(2E) 5-3-15 to 7-10-15, Exterior(2R) 7-10-15 to 10-10-15, Interior(1) 10-10-15 to 18-2-15, Exterior(2E) 18-2-15 to 19-10-4 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
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) Gable requires continuous bottom chord bearing.
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) n/a
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | PB3 | GABLE | 1 | 1 | T26087728 |

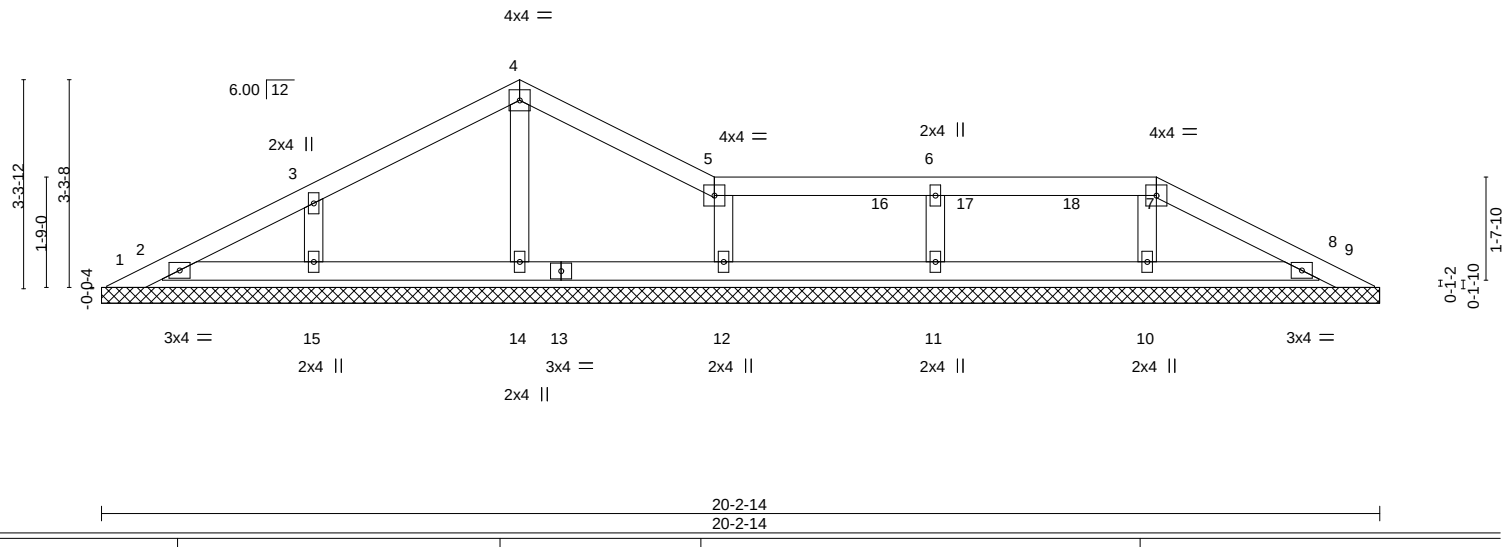
Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:33 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-z5iXBVaC2HMJgEYHjCwQT4Gpohy?uC2CS4OYK8yG0cW

| 6-7-7 | 9-8-7 | 16-8-7 | 20-2-14 |
|---|---|---|---|
| 6-7-7 | 3-1-0 | 7-0-0 | 3-6-7 |

Scale = 1:36.5




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 70 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| OTHERS | 2x4 SP No.2 |

**BRACING-**

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

**REACTIONS.** All bearings 20-2-14.

(lb) - Max Horz 1=-51(LC 10)

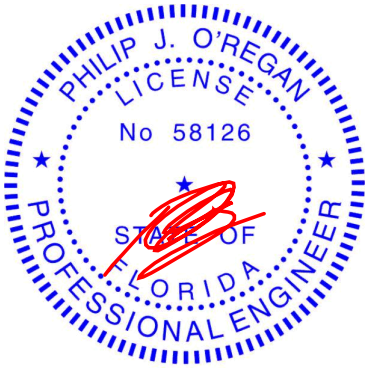
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 15, 12, 11, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 14, 15, 12, 10, 8 except 11=282(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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-11 to 3-4-5, Interior(1) 3-4-5 to 6-7-7, Exterior(2E) 6-7-7 to 9-8-7, Interior(1) 9-8-7 to 16-8-7, Exterior(2E) 16-8-7 to 19-10-4 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
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) 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) 1, 9.
11) n/a
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

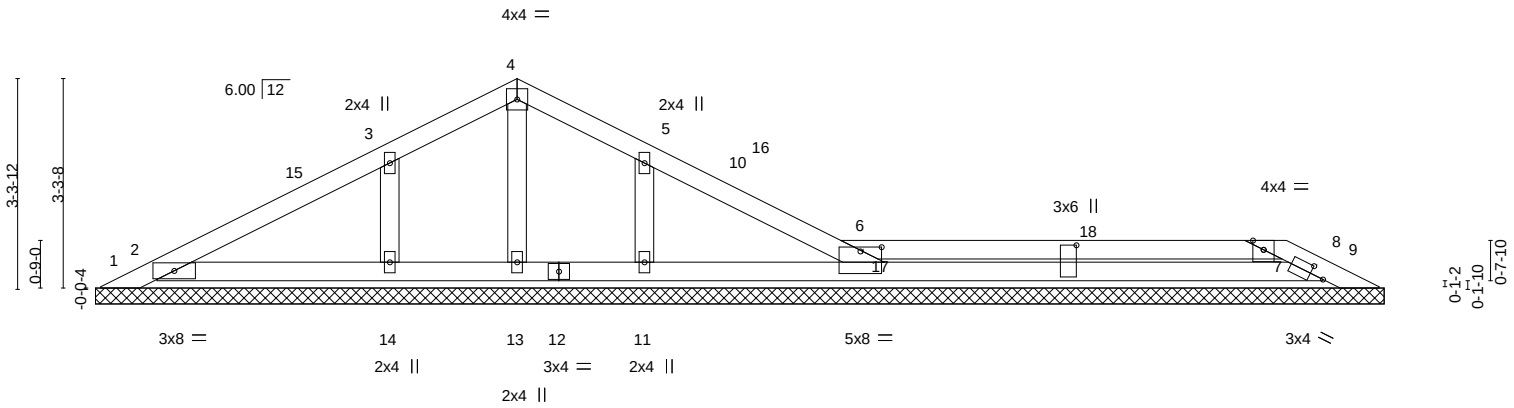
| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | PB4 | GABLE | 1 | 1 | T26087729 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co, Ocala

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 17:21:12 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-4HjagS0NGYyHeMmC4kQI_kFh9zrzG7BHUz1d6myFw6b

6-7-7 | 11-8-7 | 20-2-14
6-7-7 | 5-1-0 | 8-6-7

Scale = 1:36.2




20-2-14
20-2-14

Plate Offsets (X,Y)-- [7:0-2-0,0-1-12], [7:0-0-14,2-11-4], [8:0-2-10,0-1-8], [10:0-4-0,0-0-13]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.59 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | -0.01 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-S | | | | | | | Weight: 70 lb | FT = 20% |

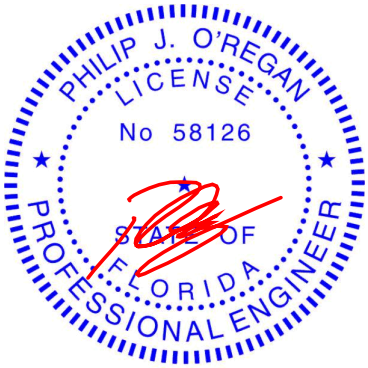
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 8-10.

**REACTIONS.** All bearings 20-2-14.
(lb) - Max Horz 1=-51(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14, 11, 8 except 1=-103(LC 17), 9=-307(LC 22)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 14, 11 except 10=408(LC 3), 13=456(LC 1), 8=653(LC 22)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-140/383, 3-15=-131/427, 3-4=-72/389, 4-5=-71/391, 5-16=-106/411, 6-16=-116/345, 6-10=-703/274, 6-17=-353/136, 17-18=-353/136, 7-18=-353/136, 7-8=-415/166
BOT CHORD 2-14=-341/148, 13-14=-341/148, 12-13=-341/148, 11-12=-341/148, 10-11=-341/148, 8-10=-116/353
WEBS 4-13=-402/97

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-11 to 3-4-11, Interior(1) 3-4-11 to 6-7-7, Exterior(2R) 6-7-7 to 9-7-7, Interior(1) 9-7-7 to 18-8-1, Exterior(2E) 18-8-1 to 19-10-4 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
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) 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) Solid blocking is required on both sides of the truss at joint(s), 10.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=103, 9=307.
12) n/a
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

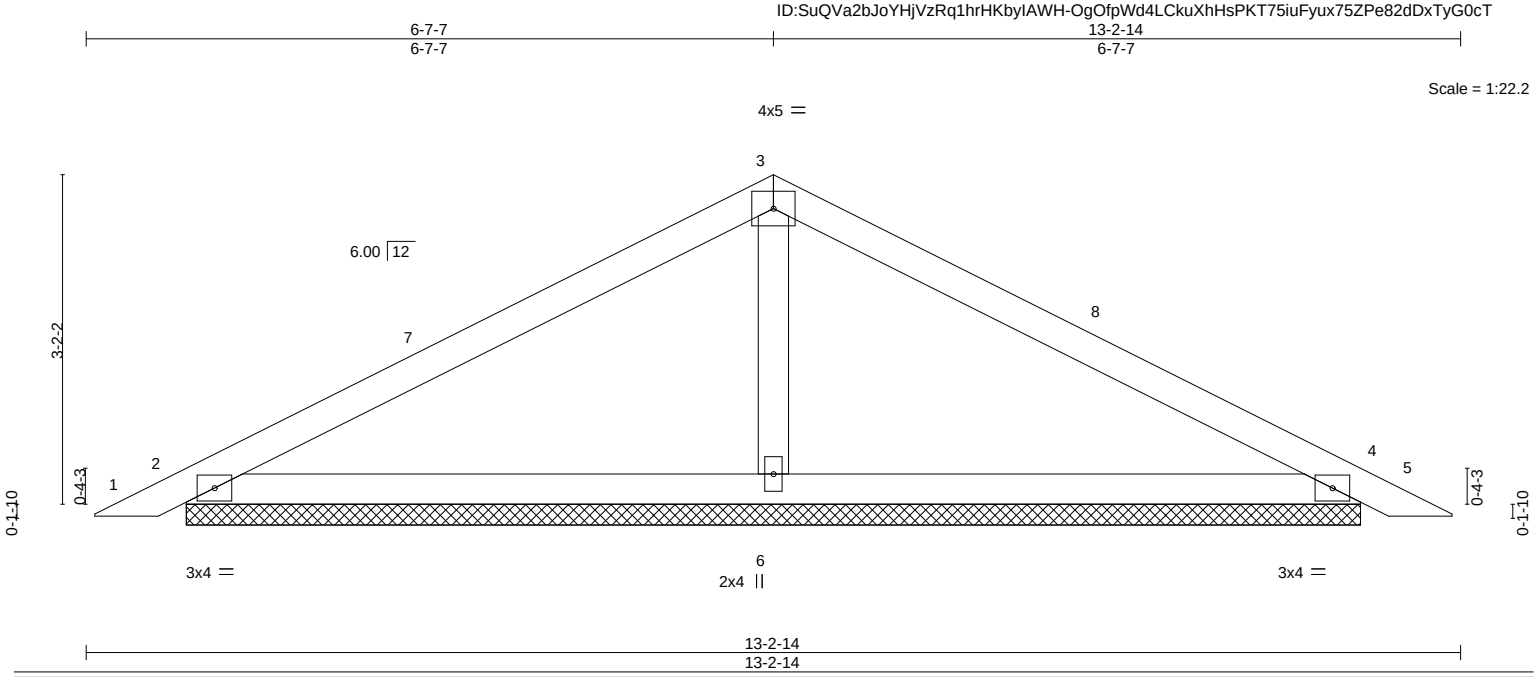

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | PB5 | Piggyback | 3 | 1 | T26087730 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:36 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-OgOfpWd4LCkuXhHsPKT75iuFyux75ZPe82dDxTyG0cT




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | 0.02 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | 0.03 | 5 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 42 lb | FT = 20% |

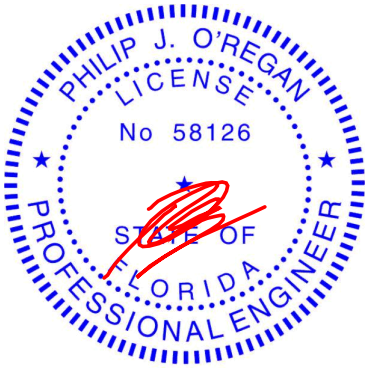
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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

**REACTIONS.** (size) 2=11-3-12, 4=11-3-12, 6=11-3-12
Max Horz 2=51(LC 11)
Max Uplift 2=-38(LC 12), 4=-38(LC 12)
Max Grav 2=224(LC 21), 4=224(LC 22), 6=457(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-289/156

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-11 to 3-4-11, Interior(1) 3-4-11 to 6-7-7, Exterior(2R) 6-7-7 to 9-7-7, Interior(1) 9-7-7 to 12-10-4 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
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) n/a
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

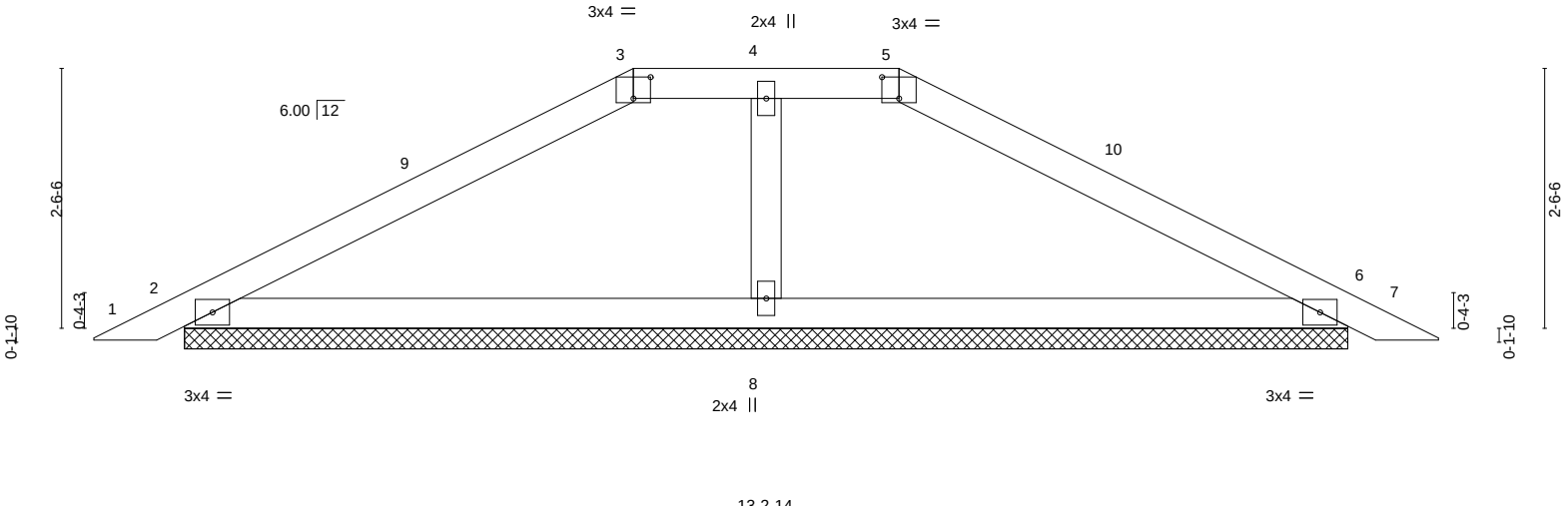
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Frame |
|---|---|---|---|---|---|
| 613839 | PB6 | Piggyback | 1 | 1 | T26087731 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 08:57:37 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-ssy10sdj6Wsk9rr2y2_MewRSRIHHq0AnNiMmTvyG0cS

5-3-15 | 7-10-15 | 13-2-14
5-3-15 | 2-7-0 | 5-3-15

Scale = 1:22.4




13-2-14
13-2-14

Plate Offsets (X,Y)-- [3:0-2-0,0-2-8], [5:0-2-0,0-2-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.30 | Vert(LL) | 0.01 | 7 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | 0.02 | 7 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 41 lb | FT = 20% |

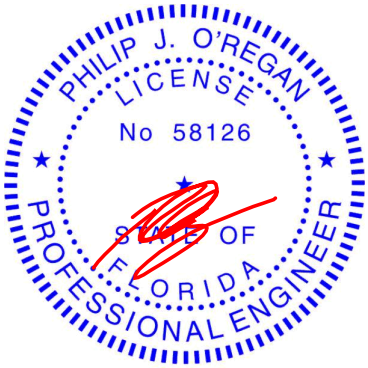
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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

**REACTIONS.** (size) 2=11-3-12, 6=11-3-12, 8=11-3-12
Max Horz 2=-41(LC 10)
Max Uplift 2=-60(LC 12), 6=-60(LC 12)
Max Grav 2=312(LC 1), 6=312(LC 1), 8=298(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-332/184, 5-6=-332/183

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-11 to 3-4-11, Interior(1) 3-4-11 to 5-3-15, Exterior(2E) 5-3-15 to 7-10-15, Exterior(2R) 7-10-15 to 12-3-5, Interior(1) 12-3-5 to 12-10-4 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
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) Gable requires continuous bottom chord bearing.
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) n/a
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



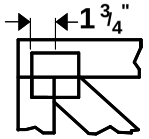

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

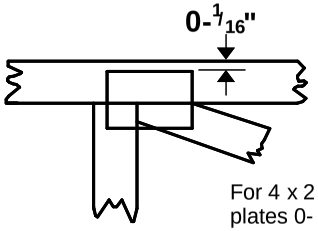
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

# Symbols

## PLATE LOCATION AND ORIENTATION




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




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

This symbol indicates the required direction of slots in connector plates.

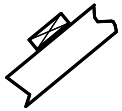
*** Plate location details available in MiTek 20/20 software or upon request.**

## PLATE SIZE

4 x 4

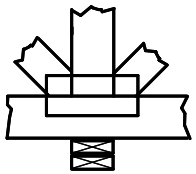
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

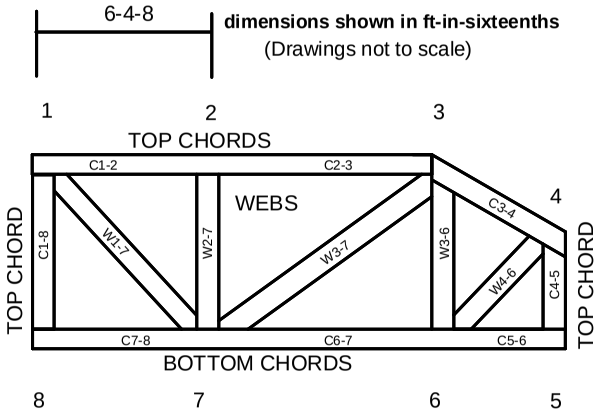


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

© 2012 MiTek® All Rights Reserved

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.

21.The design does not take into account any dynamic or other loads other than those expressly stated.