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

RE: 1610_Model - 1610 Model

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

**Site Information:**
Customer Info: Adam's Construction Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: FI

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

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**
Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 32 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 | T18038862 | A1GIR | 9/5/19 | 23 | T18038884 | CJ1 | 9/5/19 |
| 2 | T18038863 | A2 | 9/5/19 | 24 | T18038885 | D1GE | 9/5/19 |
| 3 | T18038864 | A3 | 9/5/19 | 25 | T18038886 | D2 | 9/5/19 |
| 4 | T18038865 | A4 | 9/5/19 | 26 | T18038887 | D3GIR | 9/5/19 |
| 5 | T18038866 | A5 | 9/5/19 | 27 | T18038888 | J1 | 9/5/19 |
| 6 | T18038867 | A6 | 9/5/19 | 28 | T18038889 | J1A | 9/5/19 |
| 7 | T18038868 | A7 | 9/5/19 | 29 | T18038890 | J1B | 9/5/19 |
| 8 | T18038869 | A8 | 9/5/19 | 30 | T18038891 | J2 | 9/5/19 |
| 9 | T18038870 | A9 | 9/5/19 | 31 | T18038892 | J3 | 9/5/19 |
| 10 | T18038871 | B1GE | 9/5/19 | 32 | T18038893 | J4 | 9/5/19 |
| 11 | T18038872 | B2 | 9/5/19 | | | | |
| 12 | T18038873 | B3GE | 9/5/19 | | | | |
| 13 | T18038874 | B4 | 9/5/19 | | | | |
| 14 | T18038875 | B5 | 9/5/19 | | | | |
| 15 | T18038876 | B6 | 9/5/19 | | | | |
| 16 | T18038877 | C1GIR | 9/5/19 | | | | |
| 17 | T18038878 | C2 | 9/5/19 | | | | |
| 18 | T18038879 | C3 | 9/5/19 | | | | |
| 19 | T18038880 | C4 | 9/5/19 | | | | |
| 20 | T18038881 | C5 | 9/5/19 | | | | |
| 21 | T18038882 | C6 | 9/5/19 | | | | |
| 22 | T18038883 | C7 | 9/5/19 | | | | |


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Albani, Thomas
My license renewal date for the state of Florida is February 28, 2021.


Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: September 5,2019

**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.

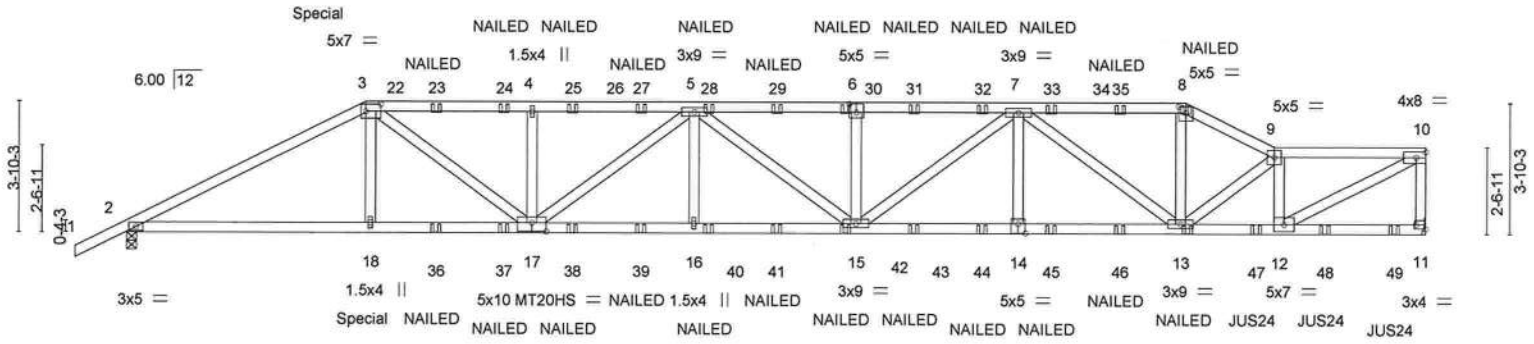
| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | A1GIR | Roof Special Girder | 1 | 2 | T18038862 |

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:51:54 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-7e7RIonwxU?rS3qebTPCiVAwLT9x1Ts3uyL8eAygjHp

| -1-6-0 | 7-0-0 | 11-10-10 | 16-7-9 | 21-4-7 | 26-1-6 | 31-0-0 | 33-7-0 | 38-0-0 |
|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 7-0-0 | 4-10-10 | 4-8-14 | 4-8-14 | 4-8-14 | 4-10-10 | 2-7-0 | 4-5-0 |

Scale = 1:67.6




| 7-0-0 | 11-10-10 | 16-7-9 | 21-4-7 | 26-1-6 | 31-0-0 | 33-7-0 | 38-0-0 |
|---|---|---|---|---|---|---|---|
| 7-0-0 | 4-10-10 | 4-8-14 | 4-8-14 | 4-8-14 | 4-10-10 | 2-7-0 | 4-5-0 |

Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [6:0-2-8,0-3-0], [8:0-2-8,0-2-4], [11:Edge,0-1-8], [14:0-2-8,0-3-4], [17:0-5-0,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.83 | Vert(LL) | -0.37 | 15-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.99 | Vert(CT) | -0.74 | 15-16 | >613 | 180 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.70 | Horz(CT) | 0.18 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-MS | | | | | | | Weight: 410 lb | FT = 0% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
14-17: 2x4 SP No.1
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.** (lb/size) 11=3489/Mechanical, 2=3160/0-3-8
Max Horz 2=101(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6272/0, 3-4=-7812/0, 4-5=-7812/0, 5-6=-8850/0, 6-7=-8850/0, 7-8=-5477/0, 8-9=-6026/0, 9-10=-5566/0, 10-11=-3155/0
BOT CHORD 2-18=0/5524, 17-18=0/5546, 16-17=0/8882, 15-16=0/8882, 14-15=0/7743, 13-14=0/7743, 12-13=0/5729
WEBS 3-18=0/640, 3-17=-42/2873, 4-17=-630/146, 5-17=-1353/16, 5-16=0/392, 6-15=-568/129, 7-15=-15/1417, 7-14=0/399, 7-13=-2870/47, 8-13=0/2222, 9-13=-447/0, 9-12=-2534/68, 10-12=0/6224

**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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; 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) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
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) Use USP JUS24 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 33-0-12 from the left end to 37-0-12 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 228 lb down and 138 lb up at 7-0-0 on top chord, and 361 lb down at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2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Date: September 5,2019

**LOAD CASE(S)** Standard

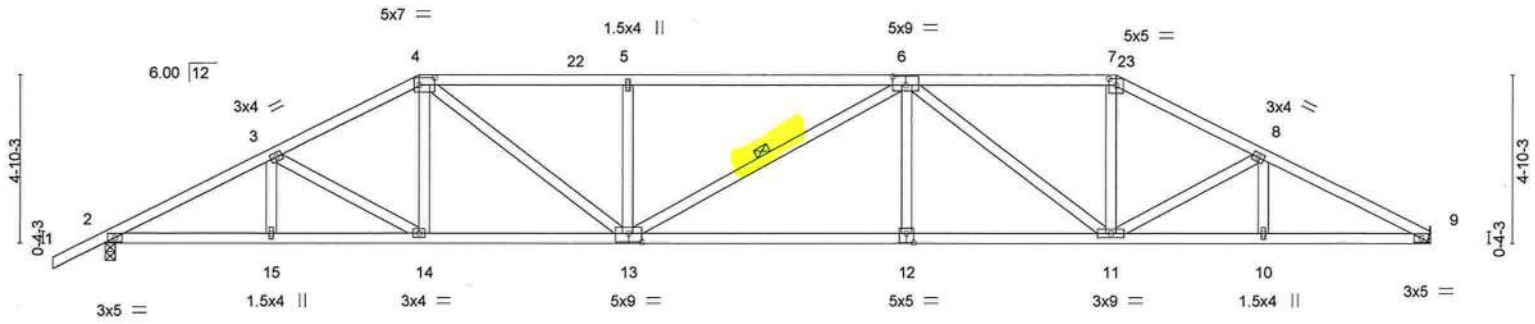
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-8=-60, 8-9=-60, 9-10=-60, 11-19=-20
   Concentrated Loads (lb)
   Vert: 3=-181(F) 8=-125(F) 18=-361(F) 13=-62(F) 23=-125(F) 24=-125(F) 25=-125(F) 27=-125(F) 28=-125(F) 29=-125(F) 30=-125(F) 31=-125(F) 32=-125(F) 33=-125(F) 35=-125(F) 36=-62(F) 37=-62(F) 38=-62(F) 39=-62(F) 40=-62(F) 41=-62(F) 42=-62(F) 43=-62(F) 44=-62(F) 45=-62(F) 46=-62(F) 47=-244(F) 48=-244(F) 49=-246(F)

| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038863 |
|---|---|---|---|---|---|---|
| 1610_Model | A2 | Hip | 1 | 1 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:51:55 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-brgpW8oYio7h4DPq9AwRFij7ltYfmroC7c5hBcygjHo

| -1-6-0 | 4-9-4 | 9-0-0 | 15-0-0 | 23-0-0 | 29-0-0 | 33-2-12 | 38-0-0 |
|---|---|---|---|---|---|---|---|
| 1-6-0 | 4-9-4 | 4-2-12 | 6-0-0 | 8-0-0 | 6-0-0 | 4-2-12 | 4-9-4 |

Scale = 1:66.3




| 4-9-4 | 9-0-0 | 15-0-0 | 23-0-0 | 29-0-0 | 33-2-12 | 38-0-0 |
|---|---|---|---|---|---|---|
| 4-9-4 | 4-2-12 | 6-0-0 | 8-0-0 | 6-0-0 | 4-2-12 | 4-9-4 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.66 | Vert(LL) | -0.25 | 12-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.83 | Vert(CT) | -0.57 | 12-13 | >805 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.16 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 199 lb | FT = 0% |

**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.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-13

**REACTIONS.** (lb/size) 9=1518/Mechanical, 2=1612/0-3-8
Max Horz 2=92(LC 11)
Max Uplift 2=-37(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2979/634, 3-4=-2631/599, 4-5=-3100/725, 5-6=-3097/723, 6-7=-2336/576, 7-8=-2640/603, 8-9=-3006/649
BOT CHORD 2-15=-501/2614, 14-15=-501/2614, 13-14=-376/2311, 12-13=-535/3101, 11-12=-534/3102, 10-11=-517/2641, 9-10=-517/2641
WEBS 3-14=-363/143, 4-14=-15/331, 4-13=-196/1065, 5-13=-453/205, 6-12=0/293, 6-11=-1044/191, 7-11=-137/881, 8-11=-386/158

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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Date:
September 5,2019

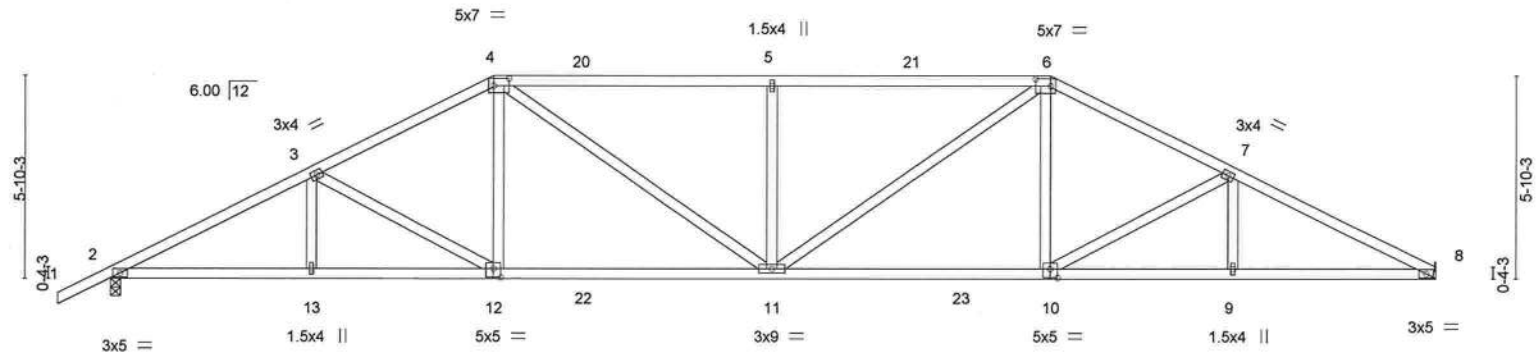
| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | A3 | Hip | 1 | 1 | T18038864 |

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:51:58 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGl-0PMy89qQ_jVGxg8PqIT8tLLd25aGzN1epaJLnxygjHl

| -1-6-0 | 5-9-4 | 11-0-0 | 19-0-0 | 27-0-0 | 32-2-12 | 38-0-0 |
|---|---|---|---|---|---|---|
| 1-6-0 | 5-9-4 | 5-2-12 | 8-0-0 | 8-0-0 | 5-2-12 | 5-9-4 |

Scale = 1:66.3




| 5-9-4 | 11-0-0 | 19-0-0 | 27-0-0 | 32-2-12 | 38-0-0 |
|---|---|---|---|---|---|
| 5-9-4 | 5-2-12 | 8-0-0 | 8-0-0 | 5-2-12 | 5-9-4 |

Plate Offsets (X,Y)-- [4:0-5-4,0-2-8], [6:0-5-4,0-2-8], [10:0-2-8,0-3-0], [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 | 1.25 | TC | 0.72 | Vert(LL) | -0.20 | 11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.77 | Vert(CT) | -0.44 | 10-11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.31 | Horz(CT) | 0.14 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 196 lb | FT = 0% |

**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.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 8=1518/Mechanical, 2=1612/0-3-8
Max Horz 2=110(LC 11)
Max Uplift 2=-37(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2941/644, 3-4=-2499/590, 4-5=-2681/673, 5-6=-2681/673, 6-7=-2505/594, 7-8=-2949/656
BOT CHORD 2-13=-499/2572, 12-13=-499/2572, 11-12=-334/2172, 10-11=-337/2177, 9-10=-511/2594, 8-9=-511/2594
WEBS 3-12=-460/188, 4-12=-11/440, 4-11=-127/736, 5-11=-542/243, 6-11=-122/732, 6-10=-15/442, 7-10=-480/199

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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Date:

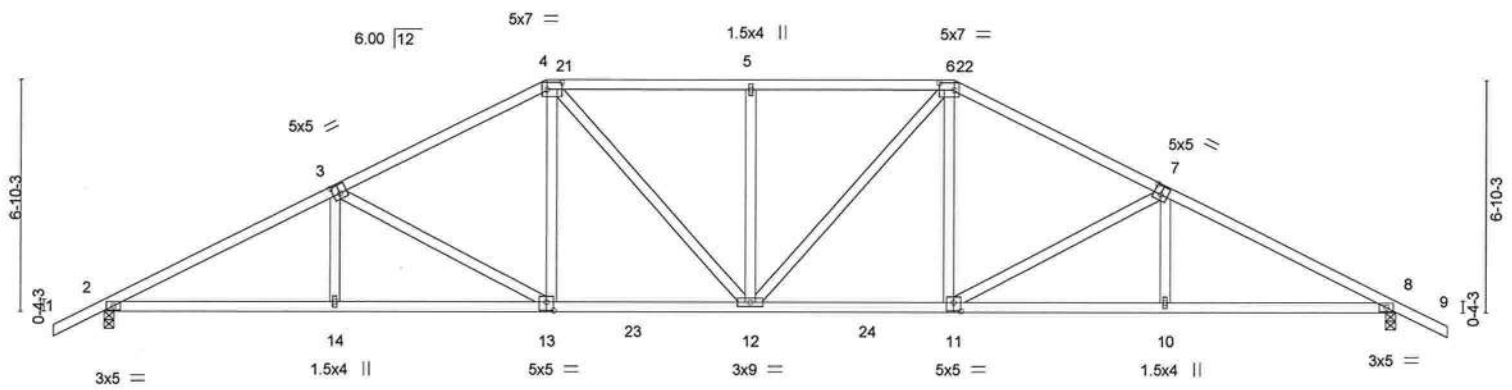
September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038865 |
|---|---|---|---|---|---|---|
| 1610_Model | A4 | Hip | 1 | 1 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:51:59 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-UcwKLVr2I1d7ZqjbO0?NPYut9Uxiimao2E3vKNygjHk

| 1-6-0 | 6-9-4 | 13-0-0 | 19-0-0 | 25-0-0 | 31-2-12 | 38-0-0 | 39-6-0 |
|---|---|---|---|---|---|---|---|
| 1-6-0 | 6-9-4 | 6-2-12 | 6-0-0 | 6-0-0 | 6-2-12 | 6-9-4 | 1-6-0 |

Scale = 1:67.9




| 6-9-4 | 13-0-0 | 19-0-0 | 25-0-0 | 31-2-12 | 38-0-0 |
|---|---|---|---|---|---|
| 6-9-4 | 6-2-12 | 6-0-0 | 6-0-0 | 6-2-12 | 6-9-4 |

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [4:0-5-4,0-2-8], [6:0-5-4,0-2-8], [7:0-2-8,0-3-0], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.44 | Vert(LL) | -0.17 | 12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.69 | Vert(CT) | -0.35 | 12-13 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.54 | Horz(CT) | 0.14 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 206 lb | FT = 0% |

**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.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 2=1610/0-3-8, 8=1610/0-3-8
Max Horz 2=132(LC 11)
Max Uplift 2=-36(LC 12), 8=-36(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2901/645, 3-4=-2328/579, 4-5=-2230/606, 5-6=-2230/606, 6-7=-2328/579, 7-8=-2901/645
BOT CHORD 2-14=-448/2528, 13-14=-450/2524, 12-13=-256/2006, 11-12=-257/2000, 10-11=-461/2524, 8-10=-459/2528
WEBS 3-14=0/267, 3-13=-603/234, 4-13=-40/475, 4-12=-66/470, 5-12=-394/168, 6-12=-66/470, 6-11=-40/475, 7-11=-603/234, 7-10=0/267

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

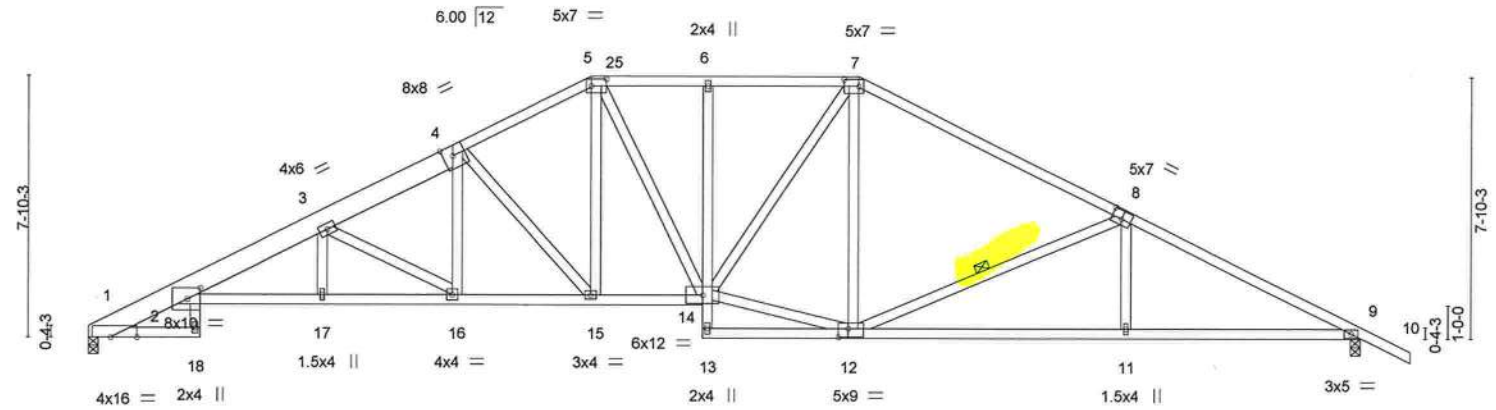
September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038866 |
|---|---|---|---|---|---|---|
| 1610_Model | A5 | HIP | 1 | 1 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:01 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-Q_24mBsJHetro8s_VR1rVzz9GIa1AhZ5VYY?OGygjHi

| 1-6-0 | 1-11-4 | 3-4-0 | 7-0-0 | 11-0-0 | 15-0-0 | 18-4-0 | 23-0-0 | 31-0-0 | 38-0-0 | 39-6-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 1-11-4 | 1-4-12 | 3-8-0 | 4-0-0 | 4-0-0 | 3-4-0 | 4-8-0 | 8-0-0 | 7-0-0 | 1-6-0 |

Scale = 1:69.0




| 1-11-4 | 3-4-0 | 7-0-0 | 11-0-0 | 15-0-0 | 18-4-0 | 23-0-0 | 31-0-0 | 38-0-0 |
|---|---|---|---|---|---|---|---|---|
| 1-11-4 | 1-4-12 | 3-8-0 | 4-0-0 | 4-0-0 | 3-4-0 | 4-8-0 | 8-0-0 | 7-0-0 |

Plate Offsets (X,Y)-- [1:0-9-8,0-0-0], [2:0-4-10,0-4-0], [4:0-3-8,Edge], [5:0-5-4,0-2-8], [7:0-5-4,0-2-8], [8:0-3-8,0-3-0], [12:0-3-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.66 | Vert(LL) | -0.24 | 16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.89 | Vert(CT) | -0.48 | 15-16 | >931 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.45 | Horz(CT) | 0.33 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 242 lb | FT = 0% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* |
| | 1-4: 2x8 SP 2400F 2.0E |
| BOT CHORD | 2x4 SP No.2 *Except* |
| | 2-14: 2x4 SP No.1 |
| WEBS | 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 8-12 |

**REACTIONS.** (lb/size) 1=1498/0-3-8, 9=1586/0-3-8
Max Horz 1=-145(LC 10)
Max Uplift 9=-37(LC 12)

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

| | |
|---|---|
| TOP CHORD | 2-20=-702/234, 2-3=-3614/794, 3-4=-2904/689, 4-5=-2311/605, 5-6=-2121/593, 6-7=-2115/592, 7-8=-2118/551, 8-9=-2862/652 |
| BOT CHORD | 2-17=-639/3493, 16-17=-637/3487, 15-16=-379/2495, 14-15=-226/2027, 11-12=-469/2492, 9-11=-467/2496 |
| WEBS | 3-16=-1177/302, 4-16=-100/659, 4-15=-695/225, 5-15=-119/606, 5-14=-40/337, 12-14=-187/1746, 7-14=-71/649, 8-12=-768/289, 8-11=0/325 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 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) 1 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) 9.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.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Date:

September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | A6 | Hip | 1 | 1 | T18038867 |

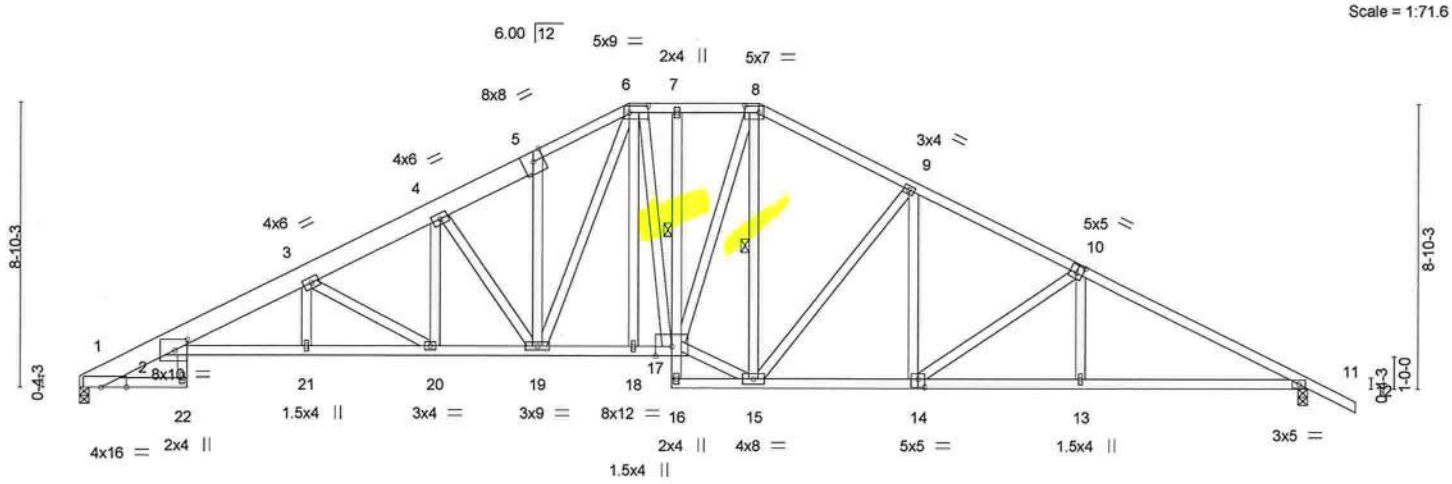
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:03 2019 Page 1

ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-MN9rBtuZpF7Z1S0Mds3JaO2WD6GVeYSNzs16T8ygjHg

| 1-6-0 | 3-4-0 | 7-0-0 | 11-0-0 | 14-1-12 | 17-0-0 | 18-4-0 | 21-0-0 | 25-10-0 | 31-0-0 | 38-0-0 | 39-6-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 3-4-0 | 3-8-0 | 4-0-0 | 3-1-12 | 2-10-4 | 1-4-0 | 2-8-0 | 4-10-0 | 5-2-0 | 7-0-0 | 1-6-0 |

Scale = 1:71.6




| 3-4-0 | 7-0-0 | 11-0-0 | 14-1-12 | 17-0-0 | 18-4-0 | 21-0-0 | 25-10-0 | 29-2-12 | 31-0-0 | 38-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 3-4-0 | 3-8-0 | 4-0-0 | 3-1-12 | 2-10-4 | 1-4-0 | 2-8-0 | 4-10-0 | 3-4-12 | 1-9-4 | 7-0-0 |

Plate Offsets (X,Y)-- [1:0-9-8,0-0-0], [2:0-4-10,0-4-0], [6:0-7-0,0-2-8], [8:0-5-4,0-2-8], [10:0-2-8,0-3-0], [14:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.63 | Vert(LL) | -0.23 | 20 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.89 | Vert(CT) | -0.47 | 19-20 | >954 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.33 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 285 lb | FT = 0% |

**LUMBER-**

TOP CHORD 2x4 SP No.2 *Except*
1-5: 2x8 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except*
2-17: 2x4 SP No.1
WEBS 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 7-17
WEBS 1 Row at midpt 8-15

**REACTIONS.** (lb/size) 1=1498/0-3-8, 11=1586/0-3-8
Max Horz 1=-163(LC 10)
Max Uplift 11=-37(LC 12)

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

TOP CHORD 2-24=-702/237, 2-3=-3631/816, 3-4=-2942/712, 4-5=-2432/649, 5-6=-2397/710, 6-7=-1828/565, 7-8=-1826/565, 8-9=-1880/568, 9-10=-2340/618, 10-11=-2826/657

BOT CHORD 2-21=-661/3513, 20-21=-659/3507, 19-20=-405/2538, 18-19=-175/1823, 17-18=-174/1826, 14-15=-302/2016, 13-14=-466/2453, 11-13=-465/2456

WEBS 3-20=-1125/295, 4-20=-105/628, 4-19=-735/232, 15-17=-155/1641, 8-17=-59/689, 9-15=-630/235, 10-14=-533/200, 9-14=-53/424, 10-13=0/254, 6-19=-262/800

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 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) 1 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) 11.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.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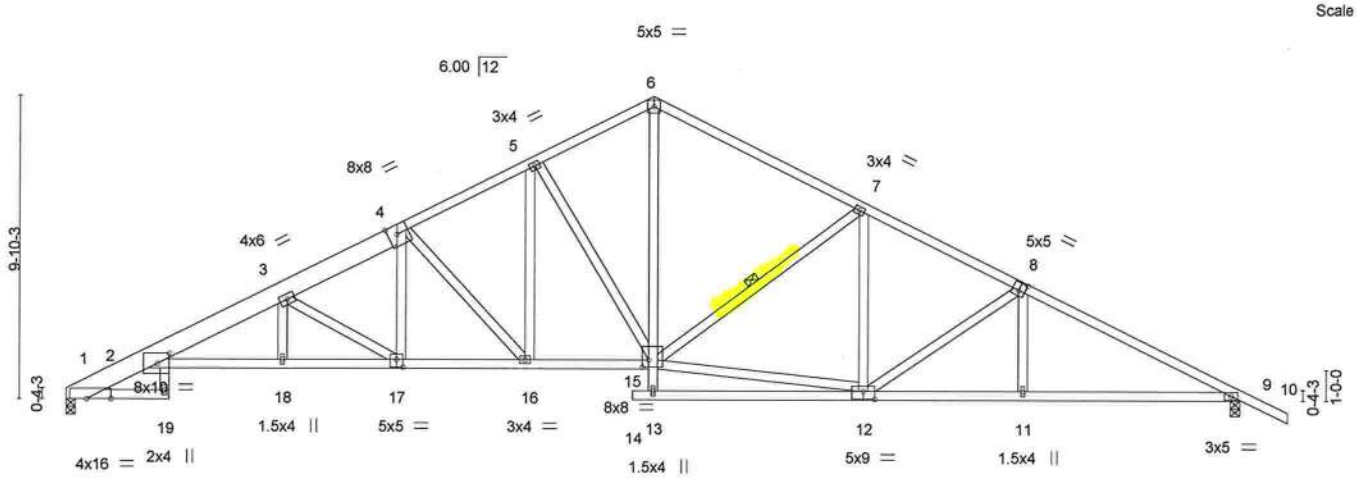
September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038868 |
|---|---|---|---|---|---|---|
| 1610_Model | A7 | Roof Special | 2 | 1 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:05 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-ImHbcYvpLtNHHlAlkH6nfp8shvyw6SbgQAWDX1ygjHe

| 1-6-0 | 3-4-0 | 7-0-0 | 10-10-0 | 15-0-0 | 18-4-0 | 19-0-0 | 25-10-0 | 31-0-0 | 38-0-0 | 39-6-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 3-4-0 | 3-8-0 | 3-10-0 | 4-2-0 | 3-4-0 | 0-8-0 | 6-10-0 | 5-2-0 | 7-0-0 | 1-6-0 |

Scale = 1:74.9




| 3-4-0 | 7-0-0 | 10-10-0 | 15-0-0 | 18-4-0 | 19-0-0 | 25-10-0 | 31-0-0 | 38-0-0 |
|---|---|---|---|---|---|---|---|---|
| 3-4-0 | 3-8-0 | 3-10-0 | 4-2-0 | 3-4-0 | 0-8-0 | 6-10-0 | 5-2-0 | 7-0-0 |

Plate Offsets (X,Y)-- [1:0-9-8,0-0-0], [2:0-4-10,0-4-0], [4:0-3-8,Edge], [8:0-2-8,0-3-0], [12:0-4-8,0-3-0], [15:0-2-8,0-2-12], [17:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.63 | Vert(LL) | -0.25 | 16-17 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.90 | Vert(CT) | -0.51 | 12-13 | >876 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.70 | Horz(CT) | 0.34 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 246 lb | FT = 0% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* |
| | 1-4: 2x8 SP 2400F 2.0E |
| BOT CHORD | 2x4 SP No.2 *Except* |
| | 2-17: 2x4 SP No.1 |
| WEBS | 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 7-15 |

**REACTIONS.** (lb/size) 1=1504/0-3-8, 9=1591/0-3-8
Max Horz 1=-181(LC 10)
Max Uplift 9=-34(LC 12)

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

| | |
|---|---|
| TOP CHORD | 2-21=-712/238, 2-3=-3633/822, 3-4=-2971/725, 4-5=-2342/629, 5-6=-1911/586, 6-7=-1932/561, 7-8=-2356/622, 8-9=-2830/662 |
| BOT CHORD | 2-18=-665/3513, 17-18=-663/3507, 16-17=-409/2531, 15-16=-248/2041, 11-12=-470/2456, 9-11=-468/2459 |
| WEBS | 3-17=-1159/302, 4-17=-112/687, 4-16=-698/229, 5-16=-108/591, 5-15=-739/235, 6-15=-328/1315, 7-12=0/271, 8-12=-504/192, 12-15=-316/2022, 7-15=-556/237 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.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Date:
September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038869 |
|---|---|---|---|---|---|---|
| 1610_Model | A8 | ROOF SPECIAL | 1 | 1 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:06 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-nyrzpuwR6AV8vvlxI_d0C1g10JHhrqoqfqFm4TygjHd

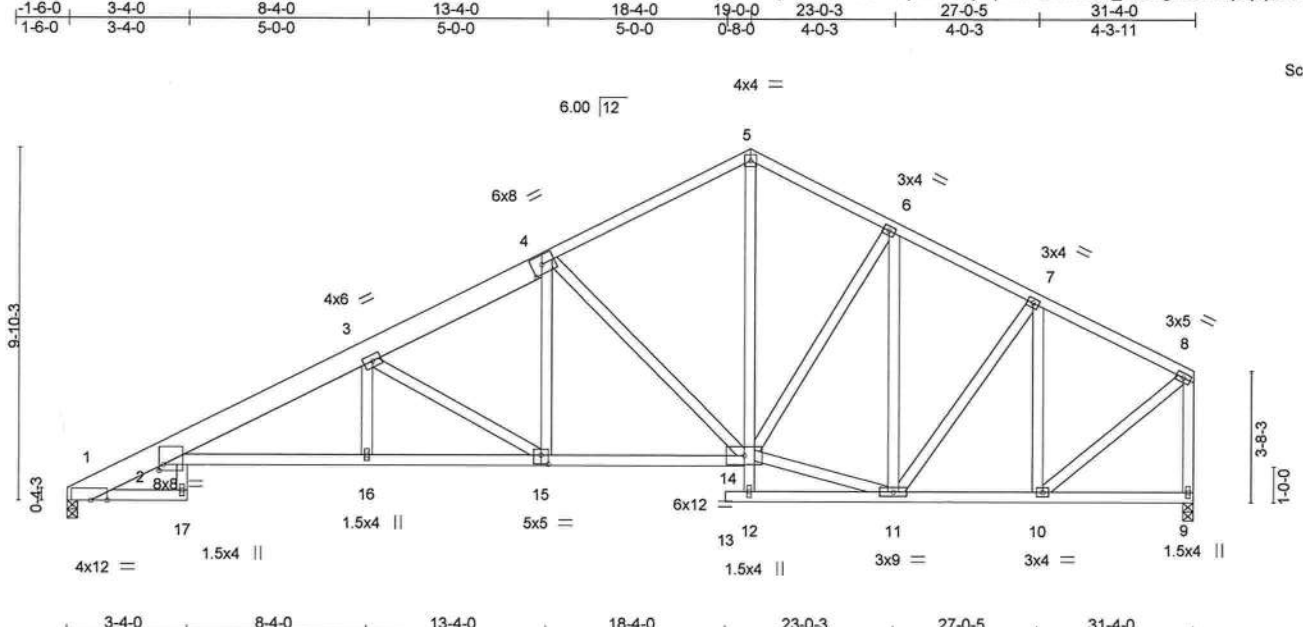


Plate Offsets (X,Y)-- [1:0-5-8,0-0-0], [2:0-1-6,0-2-0], [4:0-3-8,0-3-0], [15:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.53 | Vert(LL) | -0.20 | 2-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.86 | Vert(CT) | -0.41 | 2-16 | >893 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.90 | Horz(CT) | 0.25 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 227 lb | FT = 0% |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x8 SP 2400F 2.0E
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. Except:
10-0-0 oc bracing: 12-14

**REACTIONS.** (lb/size) 1=1233/0-3-8, 9=1230/0-3-8
Max Horz 1=209(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-612/131, 2-3=-2646/645, 3-4=-1971/534, 4-5=-1285/422, 5-6=-1248/432, 6-7=-1165/388, 7-8=-969/291, 8-9=-1188/309
BOT CHORD 2-16=-721/2509, 15-16=-719/2505, 14-15=-431/1652, 5-14=-224/782, 10-11=-222/822
WEBS 3-15=-1006/339, 4-15=-109/634, 4-14=-802/294, 6-11=-397/120, 7-11=-23/290, 7-10=-582/212, 8-10=-241/1041, 11-14=-217/987

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.


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Date:
September 5,2019



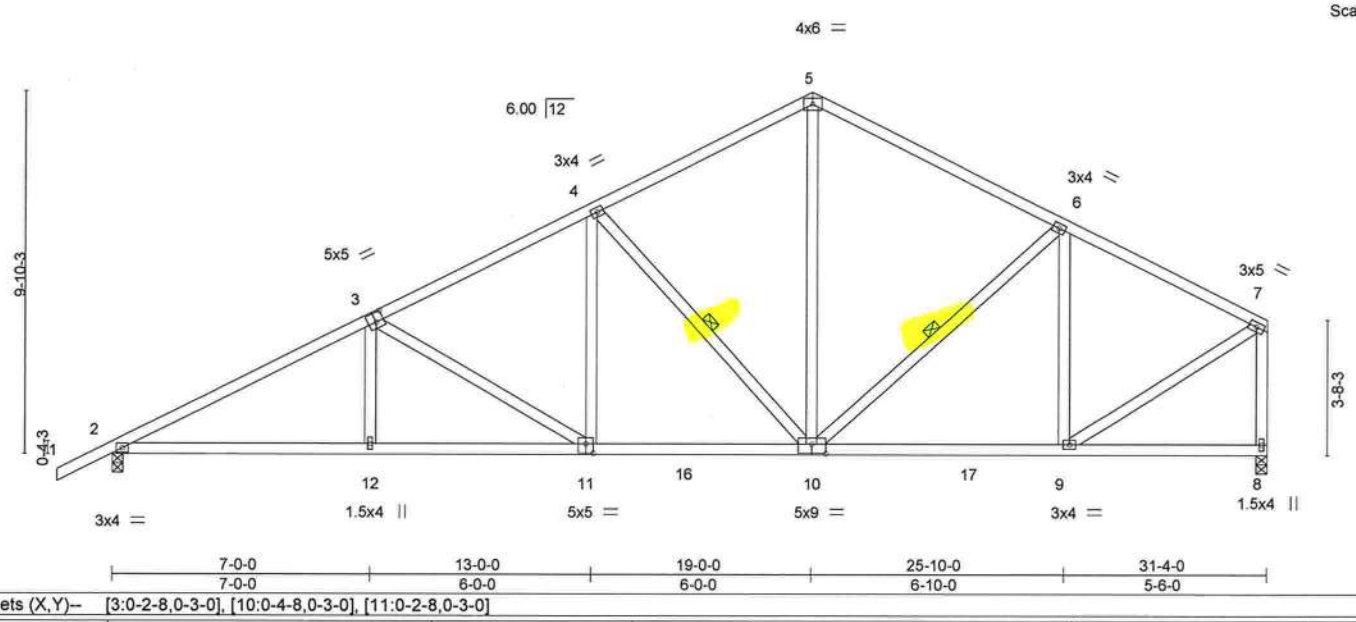
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038870 |
|---|---|---|---|---|---|---|
| 1610_Model | A9 | Common | 2 | 1 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:07 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGl-F8PM1Ex4tUd?W3K8sh8FkEDDqjhZaOUzuU?KcwygjHc

| -1-6-0 | 7-0-0 | 13-0-0 | 19-0-0 | 25-10-0 | 31-4-0 |
|---|---|---|---|---|---|
| 1-6-0 | 7-0-0 | 6-0-0 | 6-0-0 | 6-10-0 | 5-6-0 |

Scale = 1:62.6




| 7-0-0 | 13-0-0 | 19-0-0 | 25-10-0 | 31-4-0 |
|---|---|---|---|---|
| 7-0-0 | 6-0-0 | 6-0-0 | 6-10-0 | 5-6-0 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.46 | Vert(LL) | -0.09 | 10-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.63 | Vert(CT) | -0.19 | 12-15 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.48 | Horz(CT) | 0.07 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 188 lb | FT = 0% |

**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.
WEBS 1 Row at midpt 4-10, 6-10

**REACTIONS.** (lb/size) 2=1340/0-3-8, 8=1245/0-3-8
Max Horz 2=220(LC 11)
Max Uplift 2=-37(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2290/529, 3-4=-1738/483, 4-5=-1191/425, 5-6=-1206/420, 6-7=-1118/331, 7-8=-1197/324
BOT CHORD 2-12=-575/2026, 11-12=-577/2023, 10-11=-391/1532, 9-10=-255/948
WEBS 3-12=0/270, 3-11=-582/218, 4-11=-42/472, 4-10=-756/265, 5-10=-172/654, 6-9=-468/224, 7-9=-258/1096

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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Date:

September 5,2019



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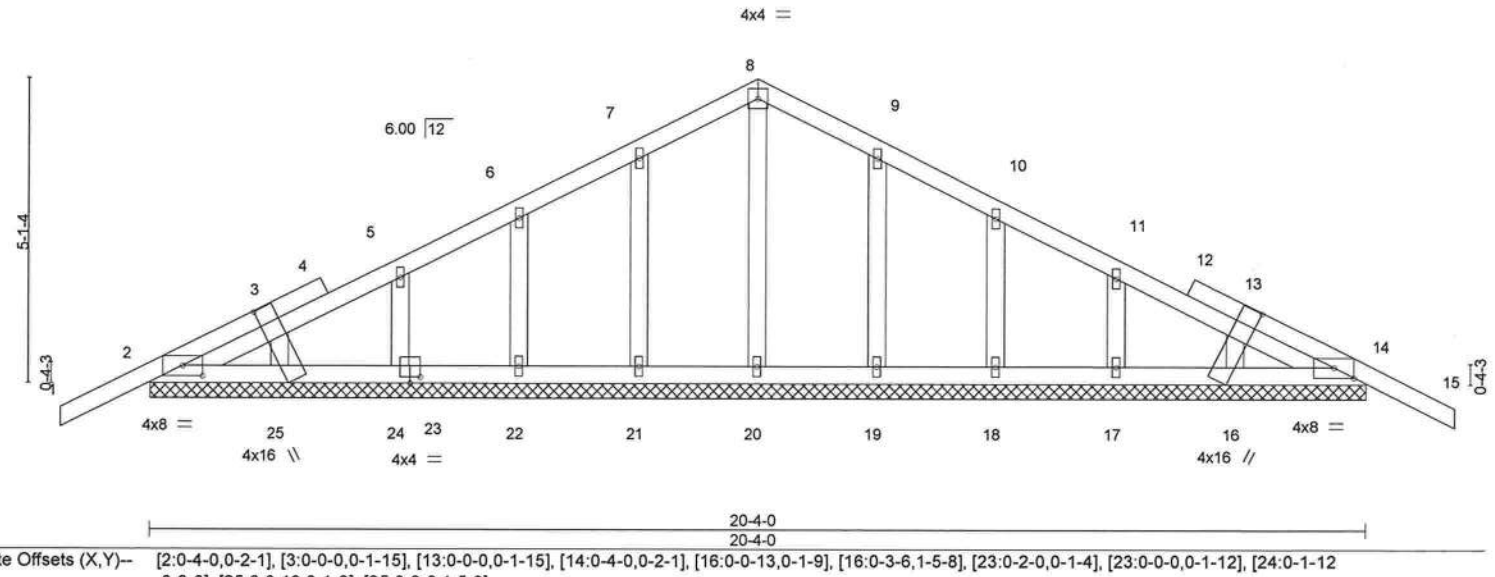
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | B1GE | Common Supported Gable | 1 | 1 | T18038871 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:09 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-BXX6SwyKP5uimNTWz6AjpfIeIWWK2PvGLoURgoygjHa

-1-6-0 1-6-0 | 10-2-0 10-2-0 | 20-4-0 10-2-0 | 21-10-0 1-6-0

Scale = 1:38.6




20-4-0
20-4-0

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [3:0-0-0,0-1-15], [13:0-0-0,0-1-15], [14:0-4-0,0-2-1], [16:0-0-13,0-1-9], [16:0-3-6,1-5-8], [23:0-2-0,0-1-4], [23:0-0-0,0-1-12], [24:0-1-12,0-0-0], [25:0-0-13,0-1-9], [25:0-3-6,1-5-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | -0.01 | 15 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | -0.01 | 15 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-S | | | | | | | Weight: 108 lb | FT = 0% |

**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.** All bearings 20-4-0.
(lb) - Max Horz 2=-91(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 24, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 24, 25, 19, 18, 17, 16

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 24, 19, 18, 17.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| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038872 |
|---|---|---|---|---|---|---|
| 1610_Model | B2 | Common | 3 | 1 | Job Reference (optional) | |

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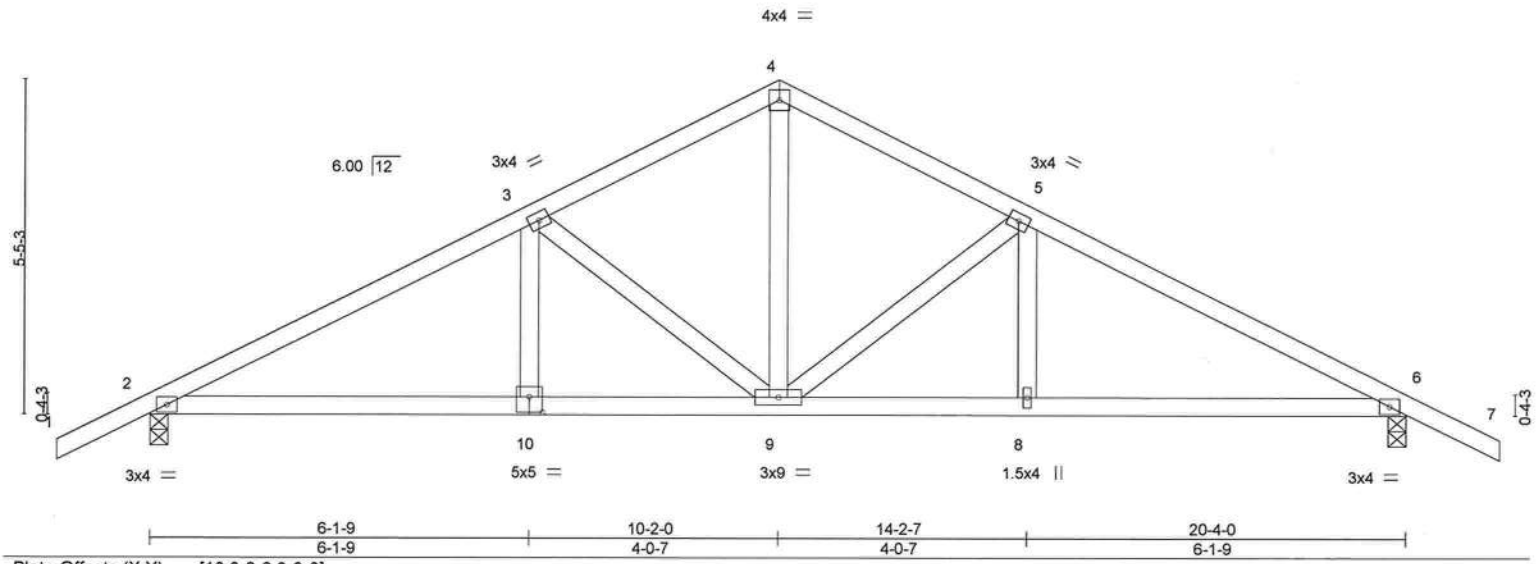
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-fj4UfGzy9P0ZNW2iXqhyMtrnSwmXnpZPaSD_DEygjHZ

| -1-6-0 | 6-1-9 | 10-2-0 | 14-2-7 | 20-4-0 | 21-10-0 |
|---|---|---|---|---|---|
| 1-6-0 | 6-1-9 | 4-0-7 | 4-0-7 | 6-1-9 | 1-6-0 |

Scale = 1:37.4




| 6-1-9 | 10-2-0 | 14-2-7 | 20-4-0 |
|---|---|---|---|
| 6-1-9 | 4-0-7 | 4-0-7 | 6-1-9 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.31 | Vert(LL) | -0.04 | 8-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.42 | Vert(CT) | -0.11 | 8-16 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 99 lb | FT = 0% |

**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.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 2=903/0-3-8, 6=903/0-3-8
Max Horz 2=96(LC 11)
Max Uplift 2=-37(LC 12), 6=-37(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1374/325, 3-4=-964/293, 4-5=-964/293, 5-6=-1374/325
BOT CHORD 2-10=-170/1169, 9-10=-170/1169, 8-9=-180/1169, 6-8=-180/1169
WEBS 4-9=-155/616, 5-9=-470/171, 3-9=-470/172

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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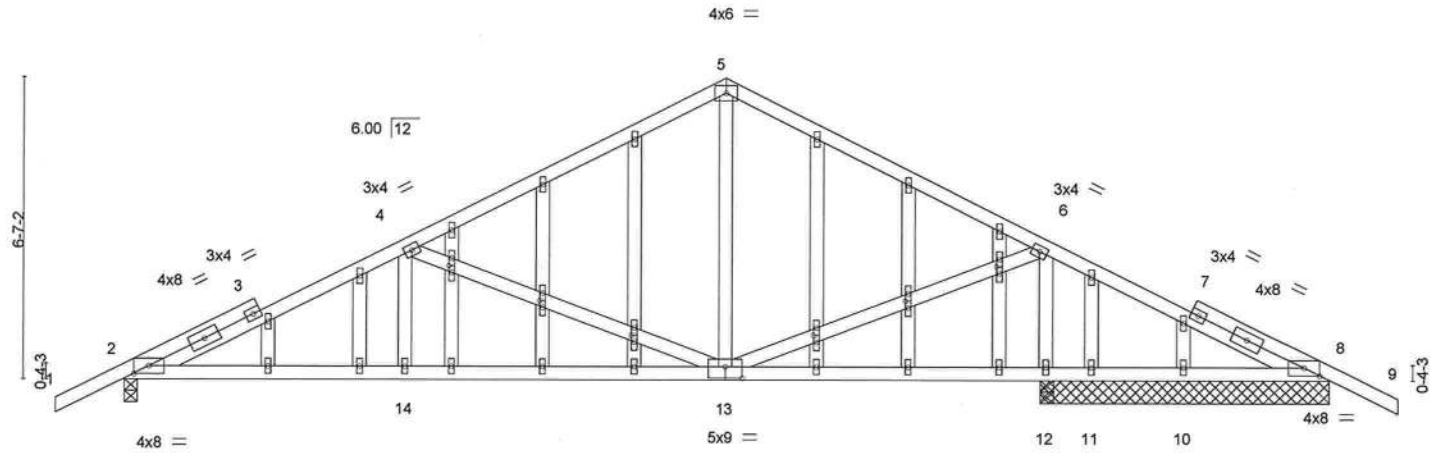
September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038873 |
|---|---|---|---|---|---|---|
| 1610_Model | B3GE | Common Structural Gable | 1 | 1 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:12 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-b6CF4y?Ch0GHdqC5eFkQRIw3BkQaFbsi1mi5H7ygjHX

| -1-6-0 | 6-1-9 | 13-1-12 | 20-1-15 | 26-3-8 | 27-9-8 |
|---|---|---|---|---|---|
| 1-6-0 | 6-1-9 | 7-0-3 | 7-0-3 | 6-1-9 | 1-6-0 |

Scale = 1:50.5




| 6-1-9 | 13-1-12 | 20-0-8 | 20-1-15 | 26-3-8 |
|---|---|---|---|---|
| 6-1-9 | 7-0-3 | 6-10-12 | 0-1-7 | 6-1-9 |

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [4:0-0-0,0-0-0], [8:0-4-0,0-2-1], [13:0-4-8,0-3-0], [15:0-1-12,0-0-12], [18:0-1-12,0-0-12], [21:0-1-12,0-0-12], [29:0-1-12,0-0-12], [29:0-0-0,0-0-0], [32:0-1-12,0-0-12], [32:0-0-0,0-0-0], [35:0-1-12,0-0-12], [35:0-0-0,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.55 | Vert(LL) | -0.06 | 13-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.51 | Vert(CT) | -0.13 | 13-14 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.02 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 177 lb | FT = 0% |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** All bearings 6-3-0 except (jt=length) 2=0-3-8, 12=0-3-8, 12=0-3-8.
(lb) - Max Horz 2=118(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 11=-154(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 8, 10, 8 except 2=853(LC 1), 12=1279(LC 1), 12=1279(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1332/329, 4-5=-671/226, 5-6=-670/226, 6-8=-57/363
BOT CHORD 2-14=-187/1194, 13-14=-187/1194
WEBS 5-13=0/260, 6-13=-91/818, 6-12=-1089/352, 4-13=-743/260, 4-14=0/259

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 8 except (jt=lb) 11=154.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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September 5,2019



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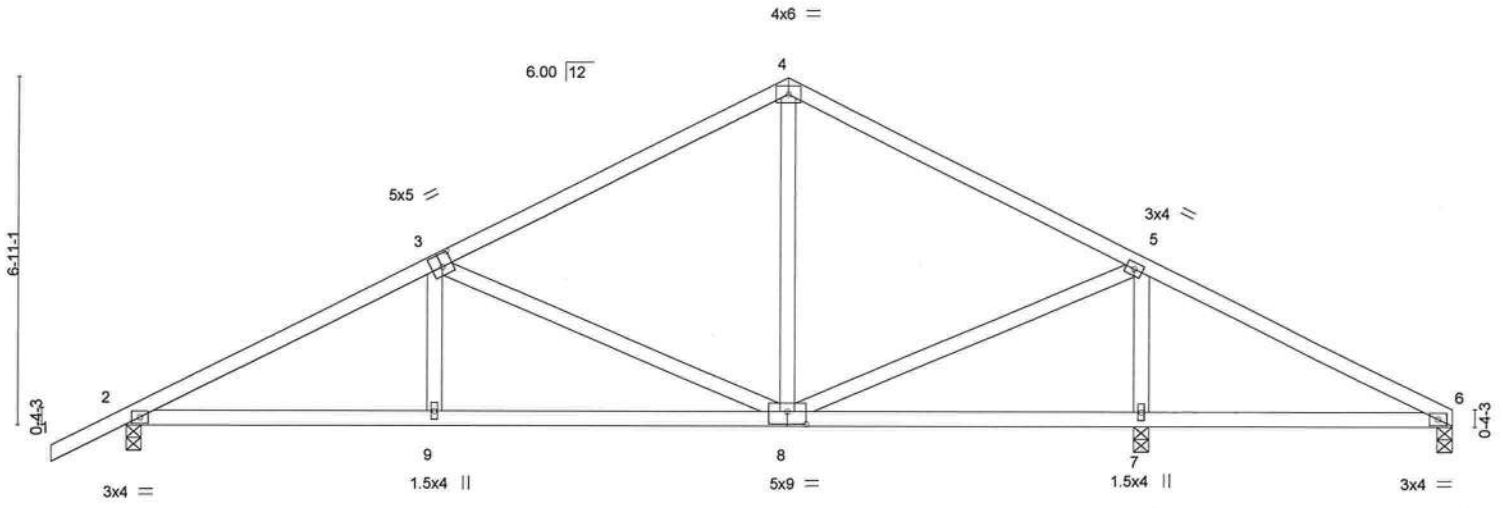
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038874 |
|---|---|---|---|---|---|---|
| 1610_Model | B4 | Common | 3 | 1 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:13 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-3ImdHI0qSKO8E_nHCyFf_VTFn8mG_3xsGQSepZygjHW

| -1-6-0 | 6-1-9 | 13-1-12 | 20-2-4 | 26-3-8 |
|---|---|---|---|---|
| 1-6-0 | 6-1-9 | 7-0-3 | 7-0-8 | 6-1-4 |

Scale = 1:45.9




| 6-1-9 | 13-1-12 | 20-2-4 | 26-3-8 |
|---|---|---|---|
| 6-1-9 | 7-0-3 | 7-0-8 | 6-1-4 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.49 | Vert(LL) | 0.08 | 7-12 | >960 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.48 | Vert(CT) | -0.11 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 125 lb | FT = 0% |

**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.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 6=111/0-3-8, 2=861/0-3-8, 7=1221/0-3-8
Max Horz 2=120(LC 11)
Max Uplift 6=-54(LC 12), 2=-39(LC 12), 7=-49(LC 12)
Max Grav 6=156(LC 22), 2=861(LC 1), 7=1221(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1305/317, 3-4=-671/226, 4-5=-675/227, 5-6=-10/251
BOT CHORD 2-9=-205/1113, 8-9=-207/1109
WEBS 3-9=0/274, 3-8=-667/252, 4-8=0/259, 5-8=-29/709, 5-7=-1056/345

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | B5 | Common | 3 | 1 | T18038875 |
| | | | | | Job Reference (optional) |

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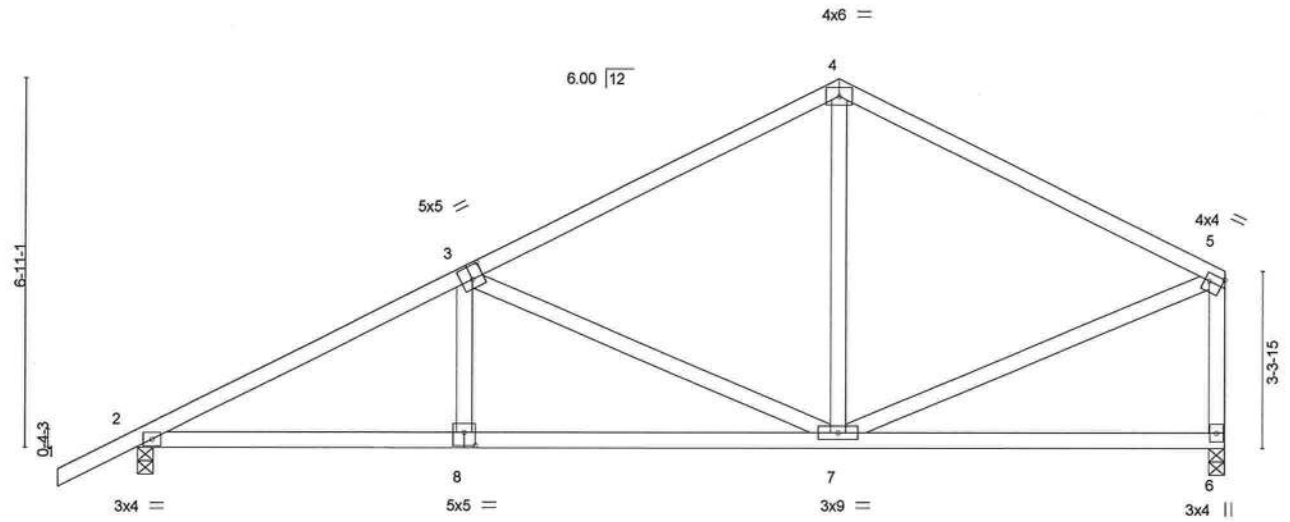
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-YUK?Vd0TDdW?s8MUmgmuWj?QeX5ejWl?V4BBM0ygjHV

| -1-6-0 | 6-1-9 | 13-1-12 | 20-4-0 |
|---|---|---|---|
| 1-6-0 | 6-1-9 | 7-0-3 | 7-2-4 |

Scale = 1:43.3




| 6-1-9 | 13-1-12 | 20-4-0 |
|---|---|---|
| 6-1-9 | 7-0-3 | 7-2-4 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.49 | Vert(LL) | -0.06 | 6-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.54 | Vert(CT) | -0.12 | 6-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.67 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 107 lb | FT = 0% |

**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.

**REACTIONS.** (lb/size) 2=901/0-3-8, 6=804/0-3-8
Max Horz 2=161(LC 11)
Max Uplift 2=-37(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1389/318, 3-4=-765/245, 4-5=-760/240, 5-6=-737/235
BOT CHORD 2-8=-381/1188, 7-8=-383/1185
WEBS 3-8=0/268, 3-7=-660/243, 4-7=0/319, 5-7=-116/583

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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Date:

September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | B6 | Monopitch | 1 | 1 | T18038876 |

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:15 2019 Page 1
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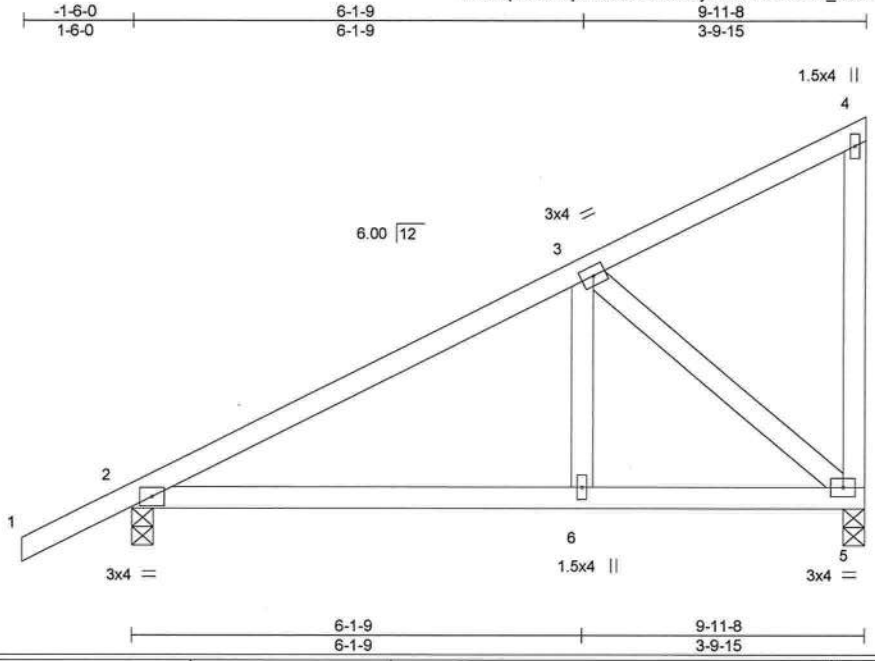


Scale = 1:31.4

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.30 | Vert(LL) | -0.03 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.30 | Vert(CT) | -0.07 | 6-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.19 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 52 lb | FT = 0% |

**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.

**REACTIONS.** (lb/size) 2=489/0-3-8, 5=386/0-3-8
Max Horz 2=159(LC 11)
Max Uplift 2=-35(LC 12), 5=-5(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-453/120
BOT CHORD 2-6=-230/364, 5-6=-230/364
WEBS 3-5=-470/226

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


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September 5,2019




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Tampa, FL 36610

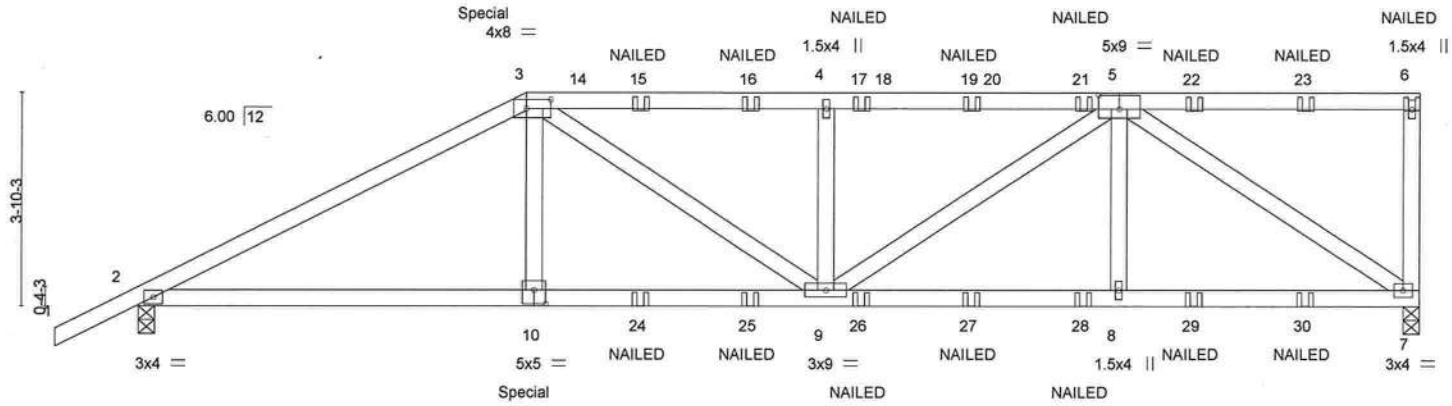
| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | C1GIR | Half Hip Girder | 1 | 2 | T18038877 |

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:17 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-y3087f3LWYuajb53RoJb8LdxNI85wxeRB1QsyKygjHS

| -1-6-0 | 7-0-0 | 12-5-1 | 17-8-7 | 23-1-8 |
|---|---|---|---|---|
| 1-6-0 | 7-0-0 | 5-5-1 | 5-3-5 | 5-5-1 |

Scale = 1:41.7




| 7-0-0 | 12-5-1 | 17-8-7 | 23-1-8 |
|---|---|---|---|
| 7-0-0 | 5-5-1 | 5-3-5 | 5-5-1 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.46 | Vert(LL) | -0.07 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.49 | Vert(CT) | -0.14 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.44 | Horz(CT) | 0.05 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-MS | | | | | | | Weight: 237 lb | FT = 0% |

**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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 7=2103/0-3-8, 2=1839/0-3-8
Max Horz 2=117(LC 7)
Max Uplift 7=-46(LC 5), 2=-2(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3378/0, 3-4=-3408/5, 4-5=-3408/5, 6-7=-390/90
BOT CHORD 2-10=0/2942, 9-10=0/2965, 8-9=-25/2445, 7-8=-25/2445
WEBS 3-10=0/672, 3-9=-81/617, 4-9=-695/155, 5-9=0/1160, 5-8=0/464, 5-7=-2893/3

**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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 228 lb down and 137 lb up at 7-0-0 on top chord, and 361 lb down at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-6=-60, 7-11=-20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September 5,2019

Continued on page 2

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

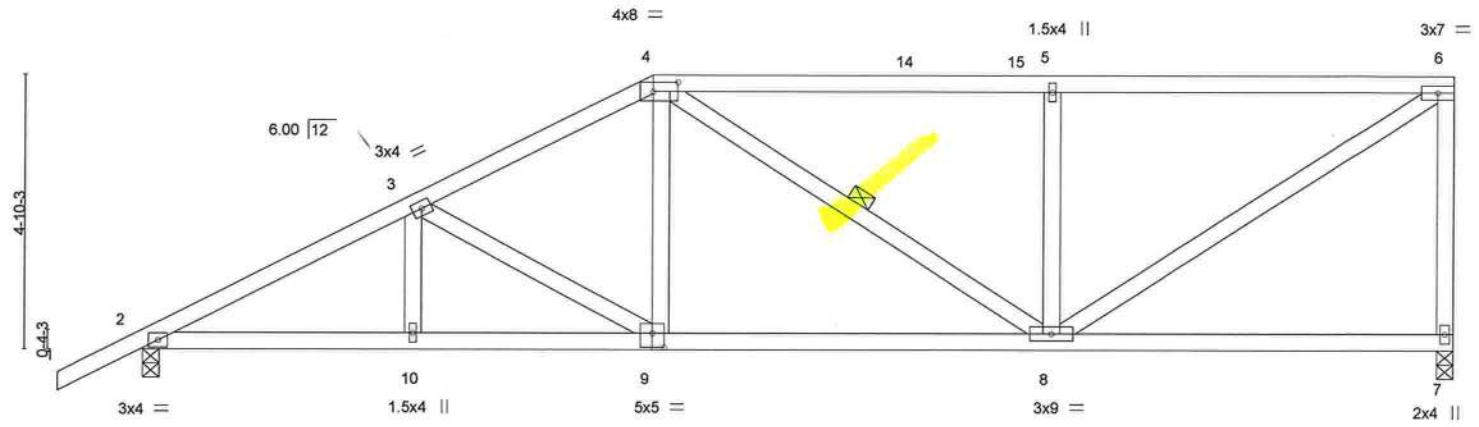
Vert: 3=-181(B) 6=-158(B) 10=-361(B) 15=-125(B) 16=-125(B) 17=-125(B) 19=-125(B) 21=-125(B) 22=-125(B) 23=-125(B) 24=-62(B) 25=-62(B) 26=-62(B) 27=-62(B) 28=-62(B) 29=-62(B) 30=-62(B)

| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | C2 | Half Hip | 1 | 1 | T18038878 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:18 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-QGZWL?3zHs0RLIfF?VqqhZA6f9TbfPJbPh9PVnygjHR

| -1-6-0 | 4-9-4 | 9-0-0 | 16-0-12 | 23-1-8 |
|---|---|---|---|---|
| 1-6-0 | 4-9-4 | 4-2-12 | 7-0-12 | 7-0-12 |

Scale = 1:40.8




| 4-9-4 | 9-0-0 | 16-0-12 | 23-1-8 |
|---|---|---|---|
| 4-9-4 | 4-2-12 | 7-0-12 | 7-0-12 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.49 | Vert(LL) | -0.06 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.54 | Vert(CT) | -0.15 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2017/TPI2014 | Matrix-AS | | | | | | | Weight: 126 lb | FT = 0% |

**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.
WEBS 1 Row at midpt 4-8

**REACTIONS.** (lb/size) 7=916/0-3-8, 2=1012/0-3-8
Max Horz 2=147(LC 11)
Max Uplift 7=-11(LC 9), 2=-36(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1670/342, 3-4=-1324/313, 4-5=-1055/291, 5-6=-1055/291, 6-7=-851/242
BOT CHORD 2-10=-487/1446, 9-10=-487/1446, 8-9=-359/1136
WEBS 3-9=-358/147, 4-9=-6/368, 5-8=-477/222, 6-8=-298/1222

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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September 5,2019




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| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | C3 | Half Hip | 1 | 1 | T18038879 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:19 2019 Page 1
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| -1-6-0 | 7-0-0 | 11-0-0 | 18-5-0 | 25-10-0 |
|---|---|---|---|---|
| 1-6-0 | 7-0-0 | 4-0-0 | 7-5-0 | 7-5-0 |

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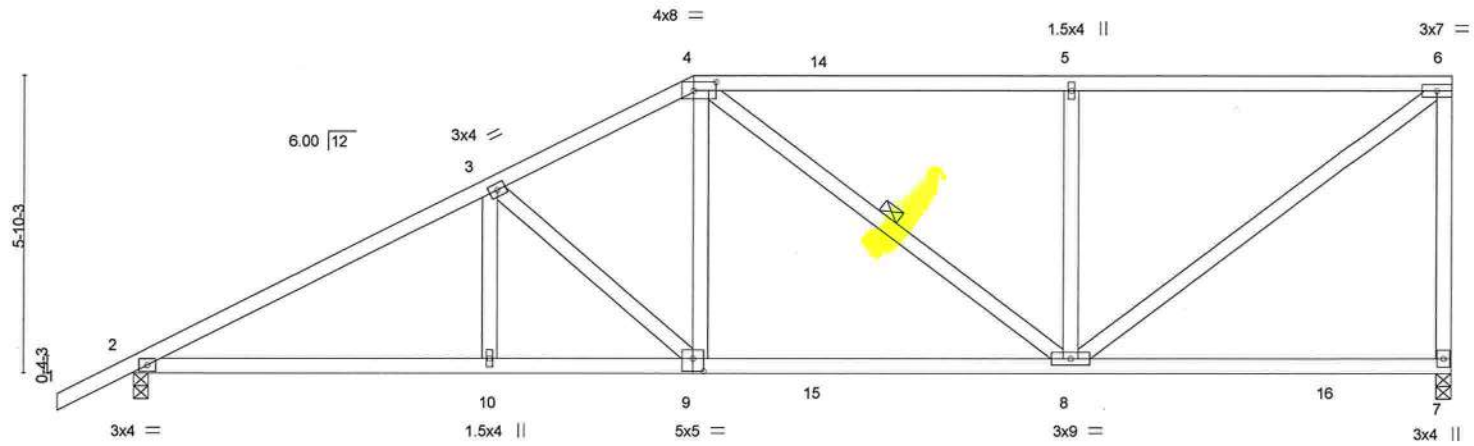


| 7-0-0 | 11-0-0 | 18-5-0 | 25-10-0 |
|---|---|---|---|
| 7-0-0 | 4-0-0 | 7-5-0 | 7-5-0 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.54 | Vert(LL) | -0.08 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.60 | Vert(CT) | -0.18 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.46 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 143 lb | FT = 0% |

**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.
WEBS 1 Row at midpt 4-8

**REACTIONS.** (lb/size) 7=1025/0-3-8, 2=1120/0-3-8
Max Horz 2=177(LC 11)
Max Uplift 7=-8(LC 9), 2=-35(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1797/379, 3-4=-1389/357, 4-5=-1040/307, 5-6=-1040/307, 6-7=-958/274
BOT CHORD 2-10=-531/1537, 9-10=-531/1537, 8-9=-391/1198
WEBS 3-9=-469/187, 4-9=-54/471, 5-8=-505/239, 6-8=-321/1273

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


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Date:

September 5,2019



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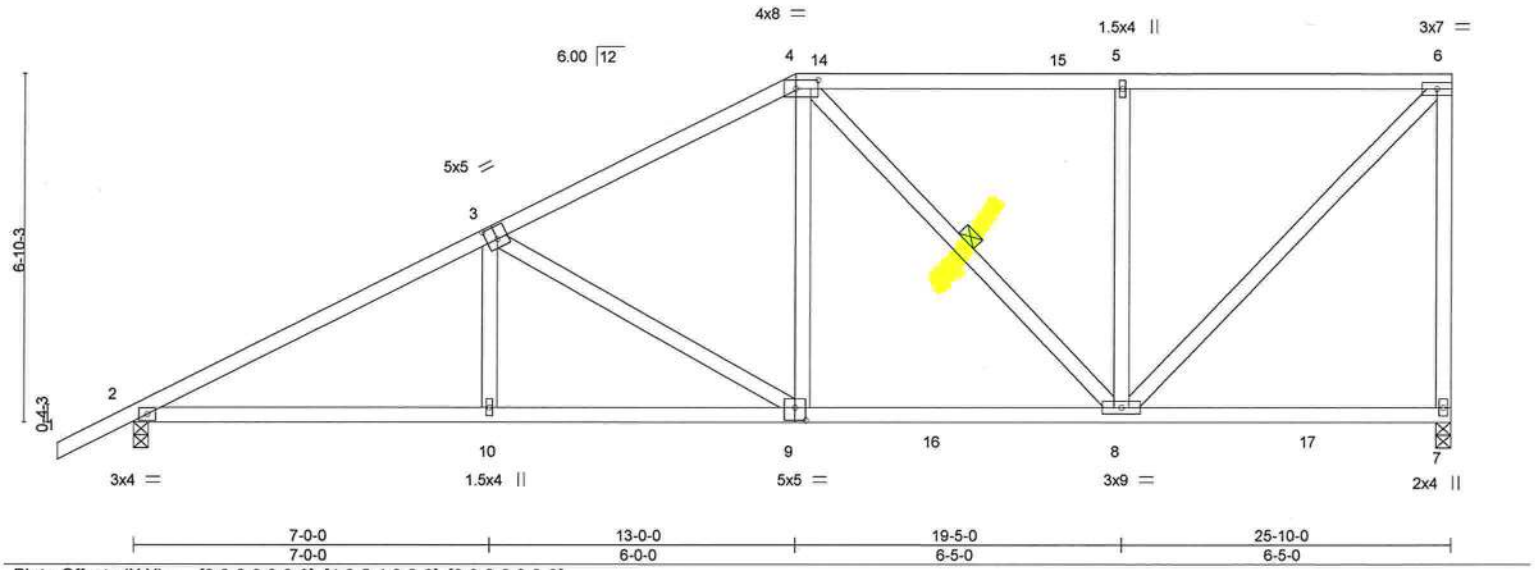
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | C4 | Half Hip | 1 | 1 | T18038880 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:20 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-MehGlh5DpTG8a3pe6wtlm_FOZy8o7G4tt?eWZfygjHP

| -1-6-0 | 7-0-0 | 13-0-0 | 19-5-0 | 25-10-0 |
|---|---|---|---|---|
| 1-6-0 | 7-0-0 | 6-0-0 | 6-5-0 | 6-5-0 |

Scale = 1:45.4




| 7-0-0 | 13-0-0 | 19-5-0 | 25-10-0 |
|---|---|---|---|
| 7-0-0 | 6-0-0 | 6-5-0 | 6-5-0 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.72 | Vert(LL) | -0.07 | 10-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.55 | Vert(CT) | -0.16 | 10-13 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.52 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 150 lb | FT = 0% |

**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.
WEBS 1 Row at midpt 4-8

**REACTIONS.** (lb/size) 7=1025/0-3-8, 2=1120/0-3-8
Max Horz 2=207(LC 11)
Max Uplift 7=-10(LC 9), 2=-34(LC 12)
Max Grav 7=1051(LC 17), 2=1120(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1809/384, 3-4=-1239/328, 4-5=-789/274, 5-6=-789/274, 6-7=-967/284
BOT CHORD 2-10=-573/1566, 9-10=-575/1563, 8-9=-375/1060
WEBS 3-10=0/273, 3-9=-607/234, 4-9=-49/488, 4-8=-375/149, 5-8=-438/204, 6-8=-302/1116

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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Date:

September 5,2019



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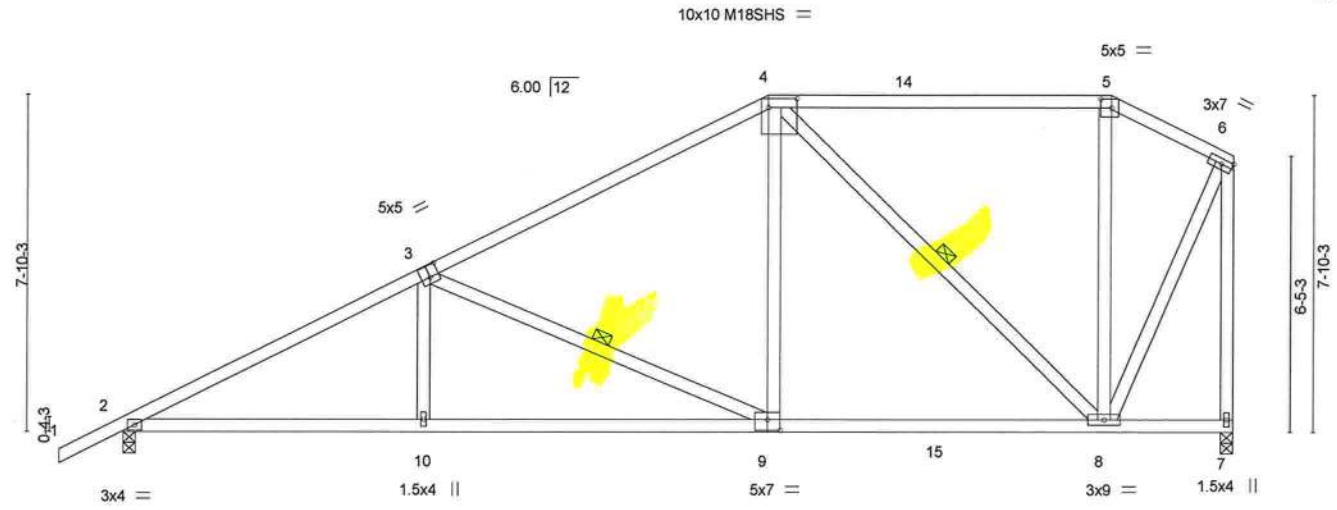
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038881 |
|---|---|---|---|---|---|---|
| 1610_Model | C5 | Hip | 1 | 1 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:21 2019 Page 1
ID:Bhq1aKk6Hj6Y5RQ8hUU2iOyhMGI-qrFez16sanO?CDOqgeOXIBobdMSEsIH16fO356ygjHO

| -1-6-0 | 7-0-0 | 15-0-0 | 23-0-0 | 25-10-0 |
|---|---|---|---|---|
| 1-6-0 | 7-0-0 | 8-0-0 | 8-0-0 | 2-10-0 |

Scale = 1:53.8




| 7-0-0 | 15-0-0 | 23-0-0 | 25-10-0 |
|---|---|---|---|
| 7-0-0 | 8-0-0 | 8-0-0 | 2-10-0 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.63 | Vert(LL) | -0.11 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.67 | Vert(CT) | -0.21 | 8-9 | >999 | 180 | M18SHS | 244/190 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.40 | Horz(CT) | 0.05 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 156 lb | FT = 0% |

**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.
WEBS 1 Row at midpt 3-9, 4-8

**REACTIONS.** (lb/size) 2=1120/0-3-8, 7=1025/0-3-8
Max Horz 2=219(LC 11)
Max Uplift 2=-35(LC 12), 7=-1(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1830/399, 3-4=-1109/306, 4-5=-398/212, 5-6=-453/213, 6-7=-1021/251
BOT CHORD 2-10=-578/1601, 9-10=-580/1598, 8-9=-318/946
WEBS 3-10=0/310, 3-9=-743/288, 4-9=-19/559, 4-8=-767/229, 6-8=-236/918

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038882 |
|---|---|---|---|---|---|---|
| 1610_Model | C6 | Hip | 1 | 1 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:22 2019 Page 1
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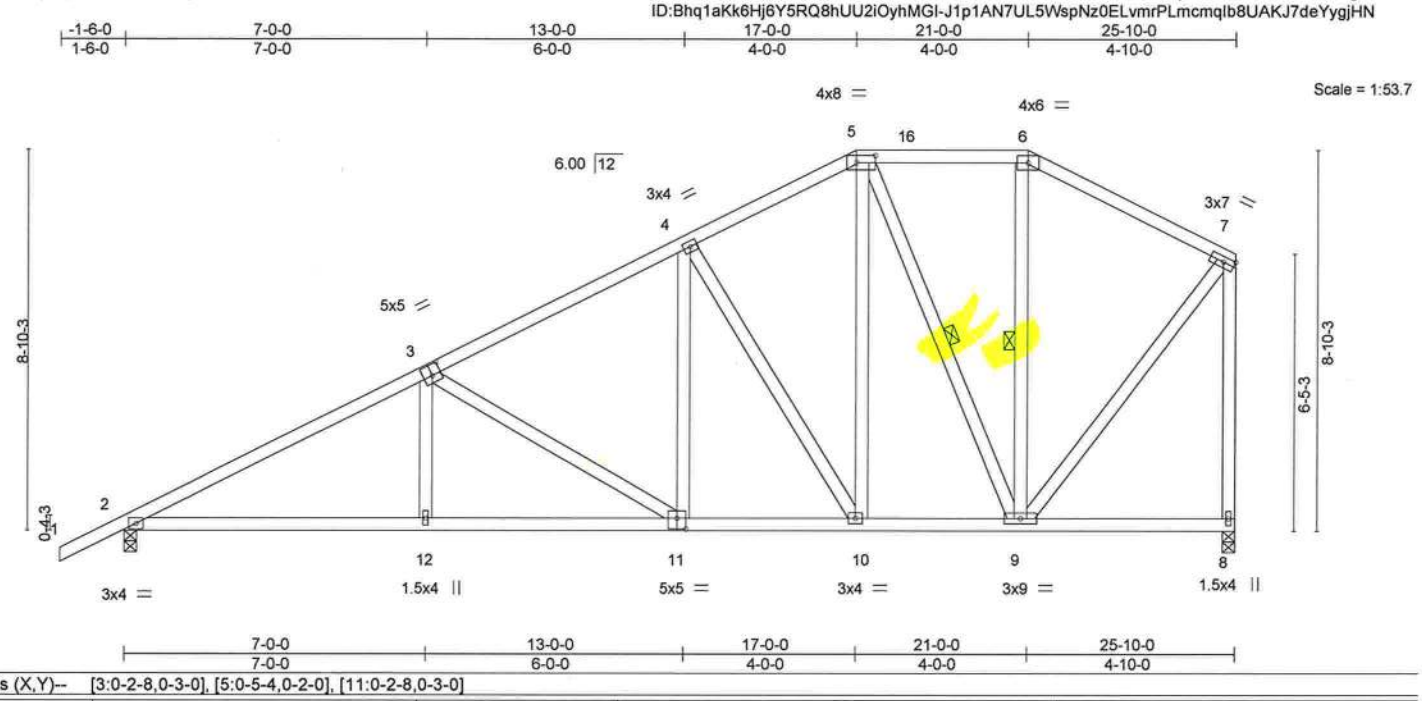


Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [5:0-5-4,0-2-0], [11:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.55 | Vert(LL) | -0.07 | 12-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.55 | Vert(CT) | -0.16 | 12-15 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.66 | Horz(CT) | 0.04 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 177 lb | FT = 0% |

**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.
WEBS 1 Row at midpt 5-9, 6-9

**REACTIONS.** (lb/size) 2=1120/0-3-8, 8=1025/0-3-8
Max Horz 2=236(LC 11)
Max Uplift 2=-35(LC 12), 8=-1(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1810/399, 3-4=-1245/350, 4-5=-830/324, 5-6=-482/270, 6-7=-600/262, 7-8=-978/290
BOT CHORD 2-12=-573/1552, 11-12=-575/1548, 10-11=-381/1026, 9-10=-258/697
WEBS 3-12=0/278, 3-11=-605/226, 4-11=-52/440, 4-10=-634/236, 5-10=-164/607, 5-9=-552/169, 7-9=-211/766

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


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September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | C7 | Common | 1 | 1 | T18038883 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:24 2019 Page 1
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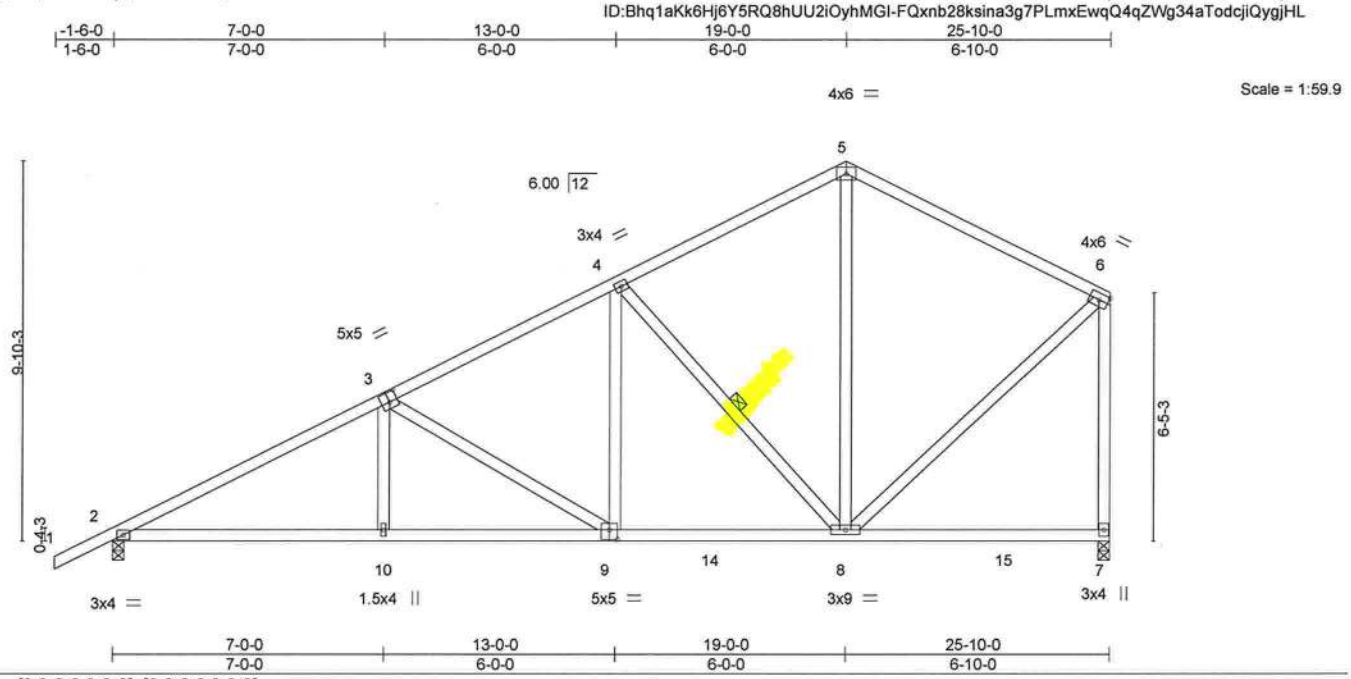


Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [9:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.70 | Vert(LL) | -0.07 | 10-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.56 | Vert(CT) | -0.16 | 10-13 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.49 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 157 lb | FT = 0% |

**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.
WEBS 1 Row at midpt 4-8

**REACTIONS.** (lb/size) 2=1120/0-3-8, 7=1025/0-3-8
Max Horz 2=252(LC 11)
Max Uplift 2=-35(LC 12), 7=-1(LC 12)
Max Grav 2=1120(LC 1), 7=1042(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1807/405, 3-4=-1250/358, 4-5=-703/300, 5-6=-708/294, 6-7=-962/311
BOT CHORD 2-10=-578/1590, 9-10=-580/1587, 8-9=-392/1094
WEBS 3-10=0/274, 3-9=-590/220, 4-9=-48/471, 4-8=-749/265, 5-8=-56/291, 6-8=-201/751

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


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| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | CJ1 | Diagonal Hip Girder | 2 | 1 | T18038884 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:25 2019 Page 1
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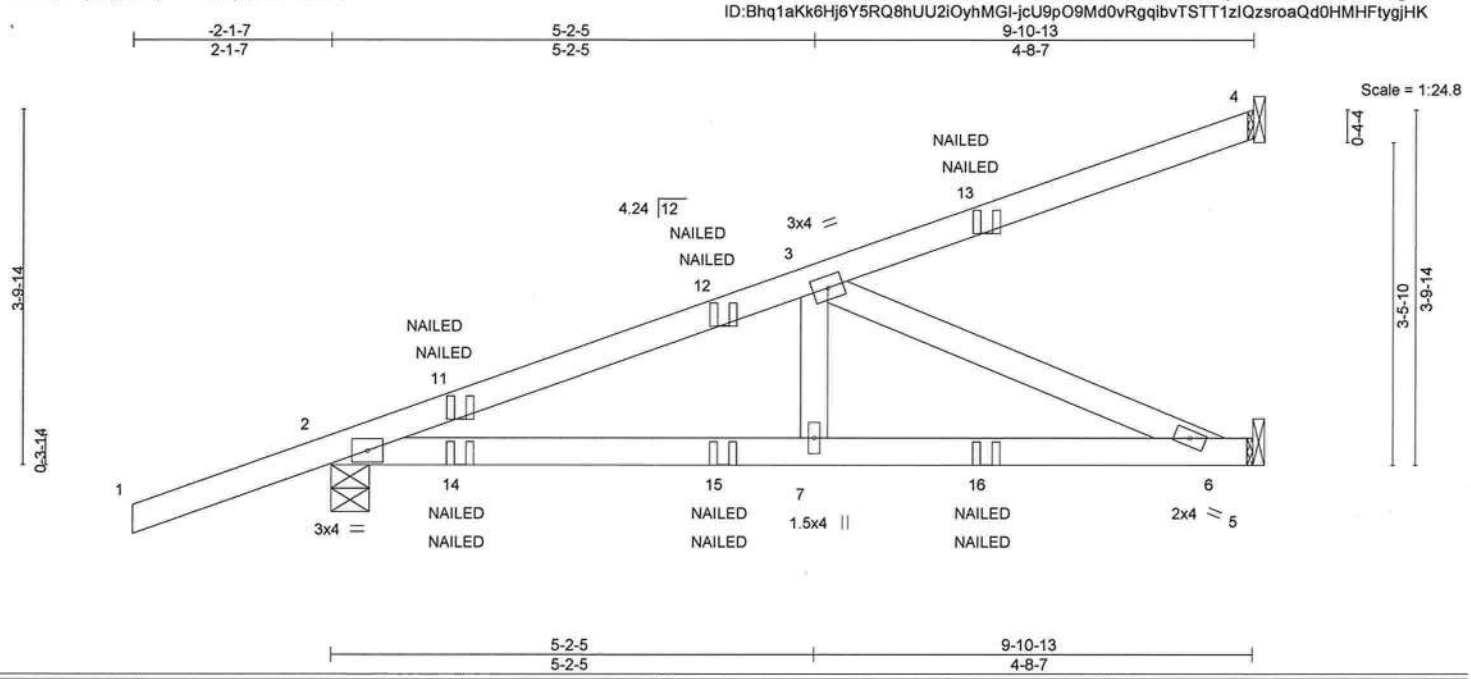


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.45 | Vert(LL) | -0.03 | 6-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.50 | Vert(CT) | -0.08 | 6-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.26 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-MS | | | | | | | Weight: 43 lb | FT = 0% |

**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.** (lb/size) 4=141/Mechanical, 2=477/0-4-15, 5=326/Mechanical
Max Horz 2=111(LC 8)
Max Uplift 4=-34(LC 8), 2=-97(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-743/0
BOT CHORD 2-7=-35/673, 6-7=-35/673
WEBS 3-7=0/268, 3-6=-731/38

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 11=57(F=29, B=29) 13=-82(F=-41, B=-41) 14=61(F=31, B=31) 15=-7(F=-3, B=-3) 16=-59(F=-30, B=-30)


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September 5,2019




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Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | D1GE | Common Supported Gable | 1 | 1 | T18038885 |
| | | | | | Job Reference (optional) |

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1-6-0 | 5-10-0 | 5-10-0 | 1-6-0

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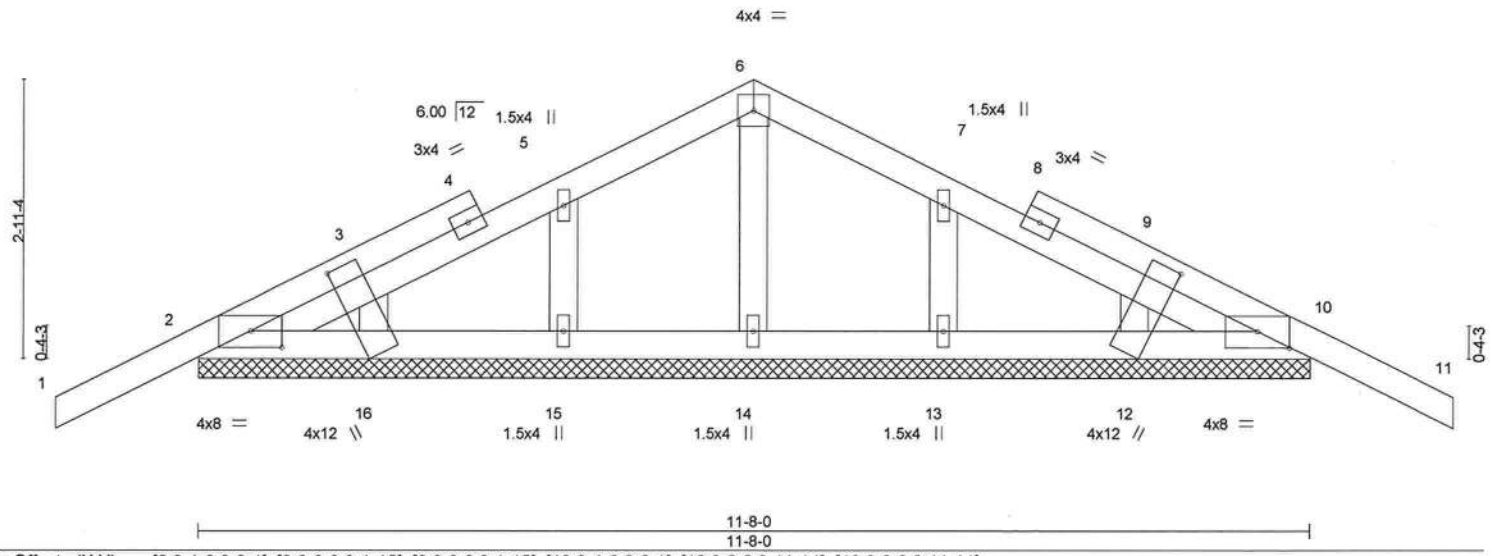


11-8-0
11-8-0

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [3:0-0-0,0-1-15], [9:0-0-0,0-1-15], [10:0-4-0,0-2-1], [12:0-2-2,0-11-14], [16:0-2-2,0-11-14]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | -0.01 | 11 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | -0.01 | 11 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-S | | | | | | | Weight: 59 lb | FT = 0% |

**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.** All bearings 11-8-0.
(lb) - Max Horz 2=55(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13.


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September 5,2019




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| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | D2 | Common | 3 | 1 | T18038886 |
| | | | | | Job Reference (optional) |

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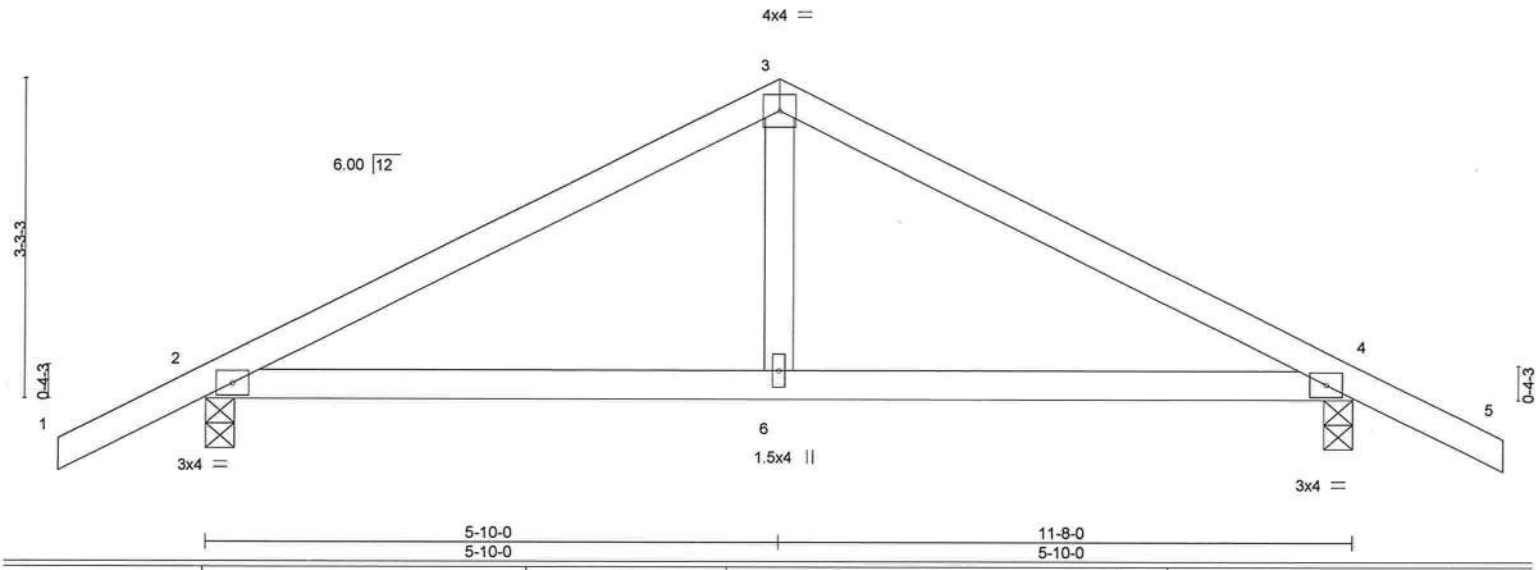
| -1-6-0 | 5-10-0 | 11-8-0 | 13-2-0 |
|---|---|---|---|
| 1-6-0 | 5-10-0 | 5-10-0 | 1-6-0 |

Scale = 1:23.5




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.30 | Vert(LL) | -0.03 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.35 | Vert(CT) | -0.06 | 6-12 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 46 lb | FT = 0% |

**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.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 2=557/0-3-8, 4=557/0-3-8
Max Horz 2=61(LC 11)
Max Uplift 2=-37(LC 12), 4=-37(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-642/186, 3-4=-642/186
BOT CHORD 2-6=-46/517, 4-6=-46/517
WEBS 3-6=0/262

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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| Job | Truss | Truss Type | Qty | Ply | 1610 Model | |
|---|---|---|---|---|---|---|
| 1610_Model | D3GIR | Common Girder | 1 | 2 | Job Reference (optional) | T18038887 |

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| -1-6-0 | 2-3-11 | 4-0-13 | 5-10-0 | 7-7-3 | 9-4-5 | 11-8-0 |
|---|---|---|---|---|---|---|
| 1-6-0 | 2-3-11 | 1-9-3 | 1-9-3 | 1-9-3 | 1-9-3 | 2-3-11 |

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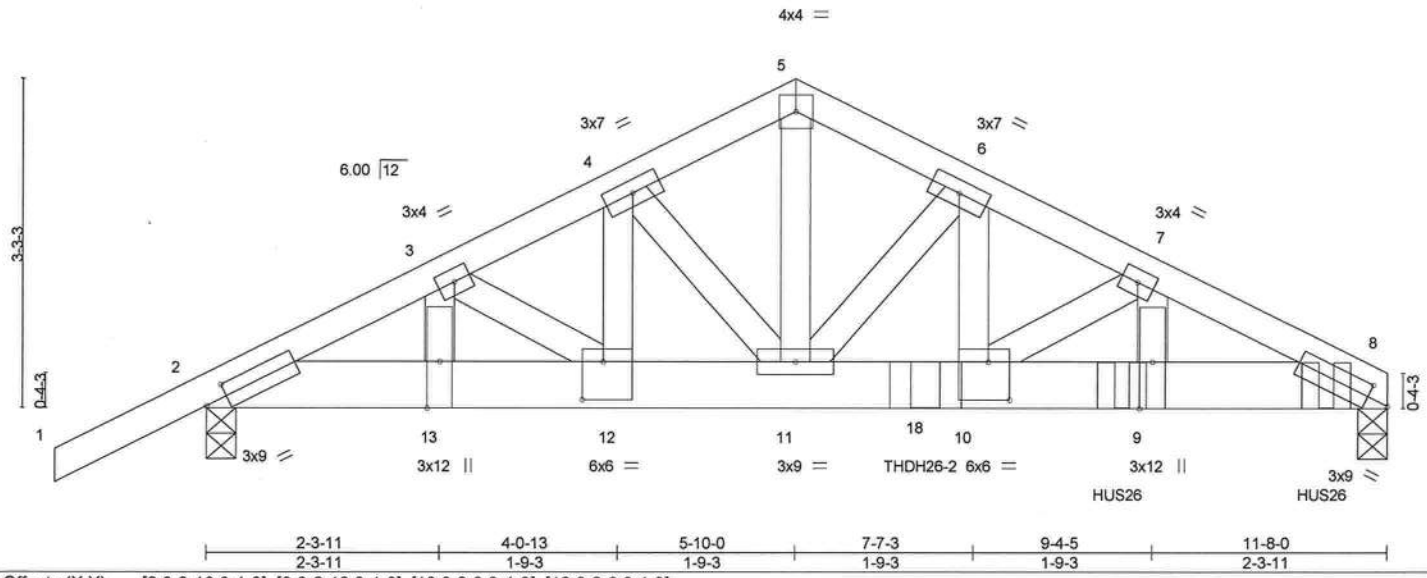


| 2-3-11 | 4-0-13 | 5-10-0 | 7-7-3 | 9-4-5 | 11-8-0 |
|---|---|---|---|---|---|
| 2-3-11 | 1-9-3 | 1-9-3 | 1-9-3 | 1-9-3 | 2-3-11 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.47 | Vert(LL) | -0.06 | 10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.56 | Vert(CT) | -0.12 | 10-11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.44 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-MS | | | | | | | Weight: 144 lb | FT = 0% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP SS
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 8=5171/0-3-8, 2=2321/0-3-8
Max Horz 2=58(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4474/0, 3-4=-4584/0, 4-5=-4670/0, 5-6=-4666/0, 6-7=-7242/0, 7-8=-8762/0
BOT CHORD 2-13=0/3982, 12-13=0/3982, 11-12=0/4083, 10-11=0/6471, 9-10=0/7845, 8-9=0/7845
WEBS 5-11=0/3938, 6-11=-3456/0, 6-10=0/3669, 7-10=-1629/0, 7-9=0/1426

**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 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 7-9 2x4 - 1 row at 0-6-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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) 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) Use USP THDH26-2 (With 20-16d nails into Girder & 8-16d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to back face of bottom chord.
8) Use USP HUS26 (With 14-16d nails into Girder & 6-16d 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.
9) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-60, 5-8=-60, 2-8=-20
Concentrated Loads (lb)
Vert: 9=-1498(B) 15=-1502(B) 18=-3469(B)


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Date:

September 5,2019



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| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | J1 | Jack-Open | 21 | 1 | T18038888 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Thu Sep 5 09:52:29 2019 Page 1
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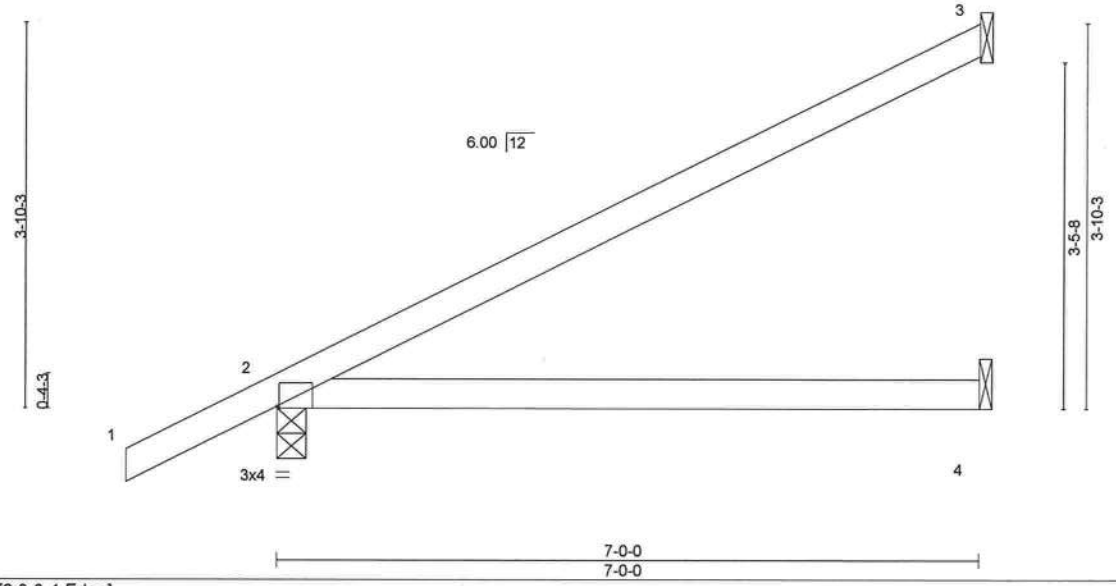
-1-6-0 / 1-6-0 — 7-0-0 / 7-0-0

Scale = 1:23.0




7-0-0 / 7-0-0

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.60 | Vert(LL) | 0.10 | 4-7 | >852 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.50 | Vert(CT) | -0.21 | 4-7 | >398 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 25 lb | FT = 0% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 3=185/Mechanical, 2=377/0-3-8, 4=82/Mechanical
Max Horz 2=111(LC 12)
Max Uplift 3=-44(LC 12), 2=-21(LC 12)
Max Grav 3=185(LC 1), 2=377(LC 1), 4=124(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.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| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | J1A | Roof Special | 3 | 1 | T18038889 |
| | | | | | Job Reference (optional) |

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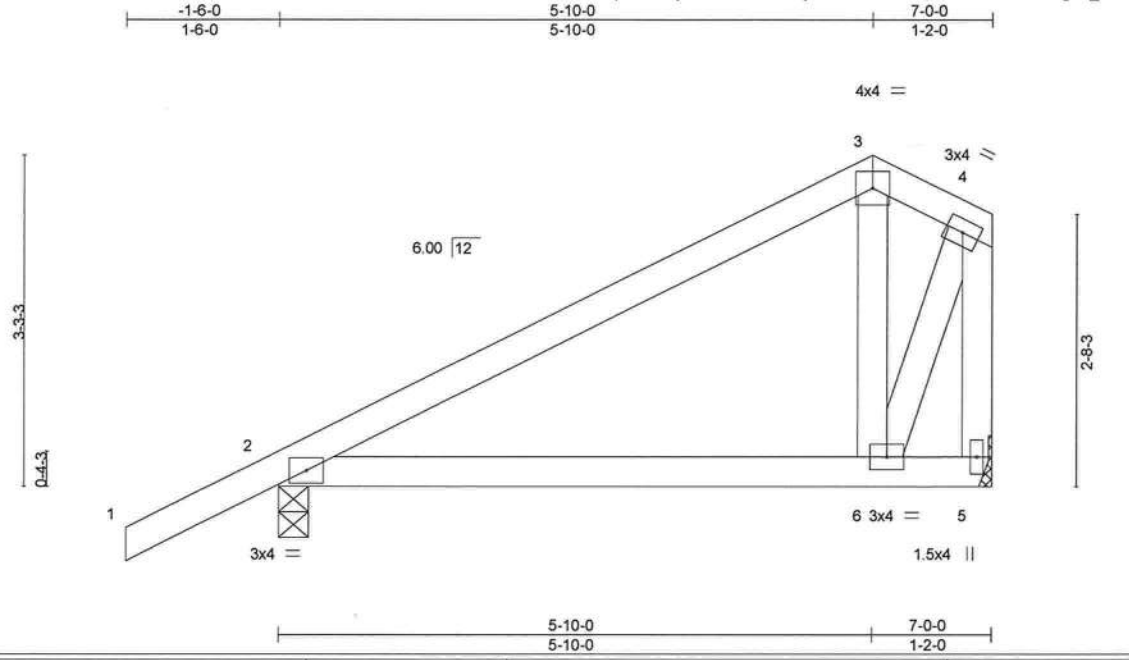


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.38 | Vert(LL) | 0.04 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.30 | Vert(CT) | -0.07 | 6-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 36 lb | FT = 0% |

**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.

**REACTIONS.** (lb/size) 2=374/0-3-8, 5=264/Mechanical
Max Horz 2=92(LC 11)
Max Uplift 2=-40(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-360/159
WEBS 4-6=-130/295

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


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| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | J1B | Jack-Open | 1 | 1 | T18038890 |
| | | | | | Job Reference (optional) |

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-1-6-0 1-6-0 | 7-0-0 7-0-0

Scale = 1:24.6

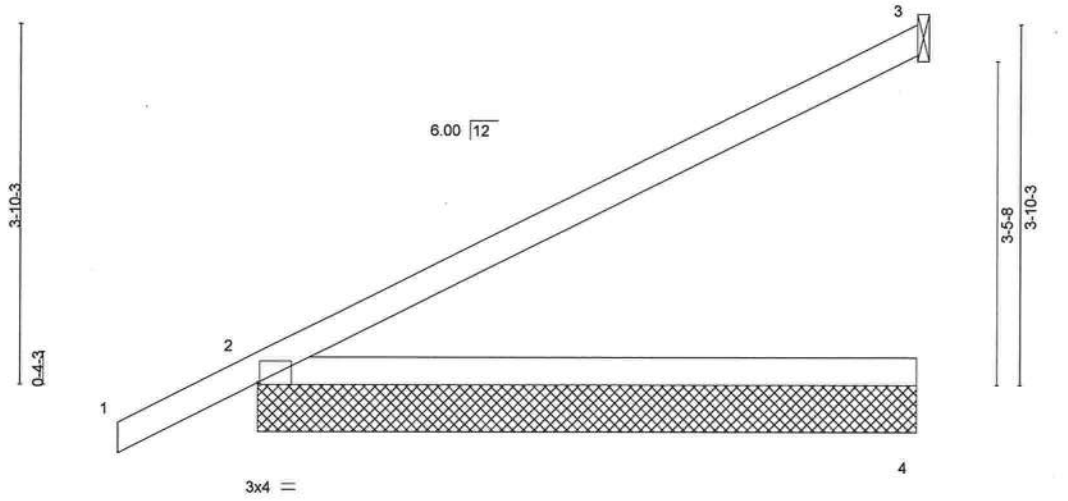


Plate Offsets (X,Y)-- [2:0-0-4,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.60 | Vert(LL) | 0.10 | 4-7 | >842 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.51 | Vert(CT) | -0.22 | 4-7 | >386 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 25 lb | FT = 0% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** All bearings 7-0-0 except (jt=length) 3=Mechanical, 3=Mechanical.
(lb) - Max Horz 2=111(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 3, 2
Max Grav All reactions 250 lb or less at joint(s) 3, 3, 4 except 2=378(LC 1), 2=378(LC 1)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


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September 5,2019



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| Job | Truss | Truss Type | Qty | Ply | 1610 Model | T18038891 |
|---|---|---|---|---|---|---|
| 1610_Model | J2 | Jack-Open | 4 | 1 | Job Reference (optional) | |

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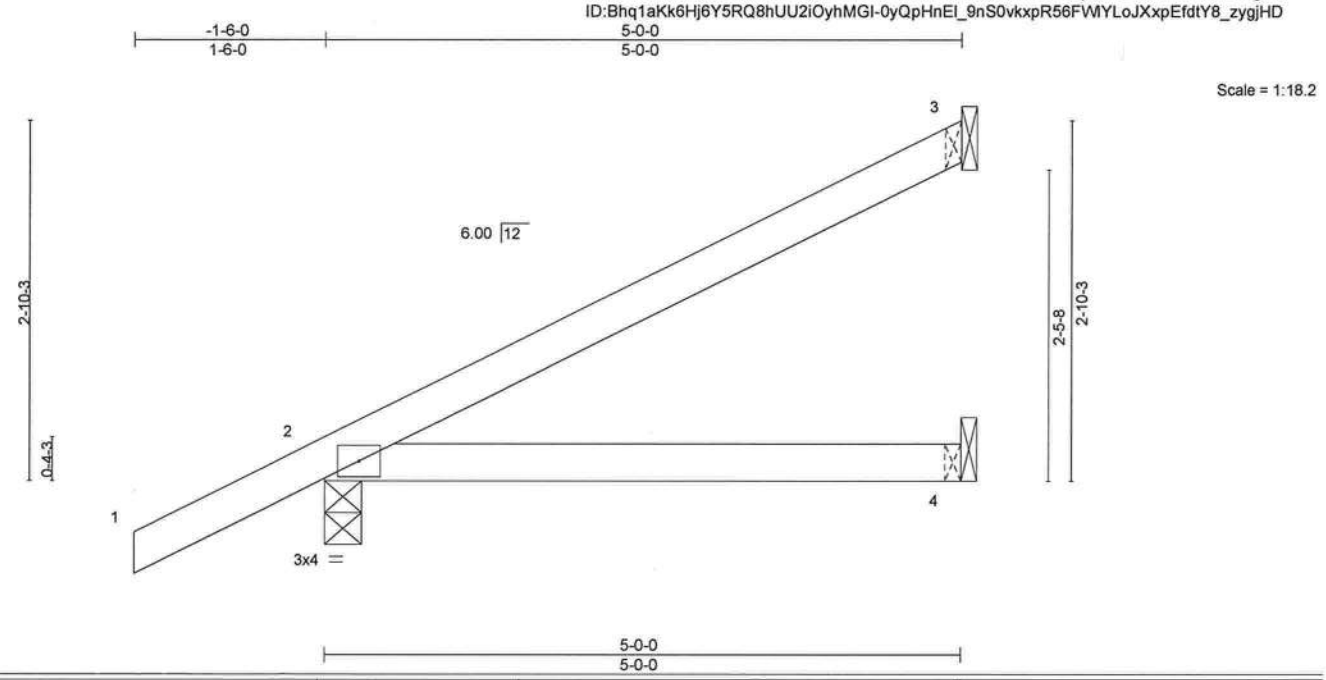


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.28 | Vert(LL) | 0.03 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.24 | Vert(CT) | -0.05 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-AS | | | | | | | Weight: 18 lb | FT = 0% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (lb/size) 3=126/Mechanical, 2=301/0-3-8, 4=58/Mechanical
Max Horz 2=87(LC 12)
Max Uplift 3=-29(LC 12), 2=-29(LC 12)
Max Grav 3=126(LC 1), 2=301(LC 1), 4=88(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.


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September 5,2019

| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | J3 | Jack-Open | 4 | 1 | T18038892 |
| | | | | | Job Reference (optional) |

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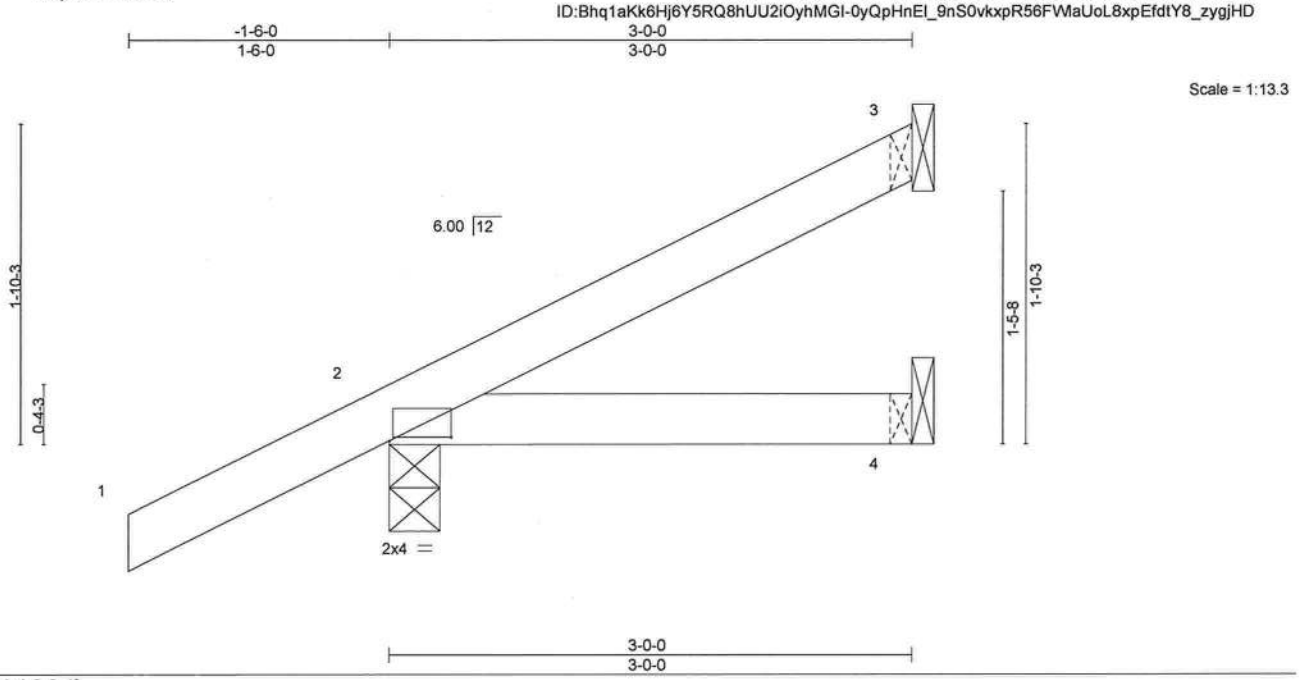


Plate Offsets (X,Y)-- [2:0-4-4,0-0-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | -0.00 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.07 | Vert(CT) | -0.01 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-MP | | | | | | | Weight: 12 lb | FT = 0% |

**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.** (lb/size) 3=65/Mechanical, 2=230/0-3-8, 4=29/Mechanical
Max Horz 2=63(LC 12)
Max Uplift 3=-12(LC 12), 2=-40(LC 12)
Max Grav 3=65(LC 1), 2=230(LC 1), 4=50(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.


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Date:
September 5,2019



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Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 1610 Model |
|---|---|---|---|---|---|
| 1610_Model | J4 | Jack-Open | 4 | 1 | T18038893 |
| | | | | | Job Reference (optional) |

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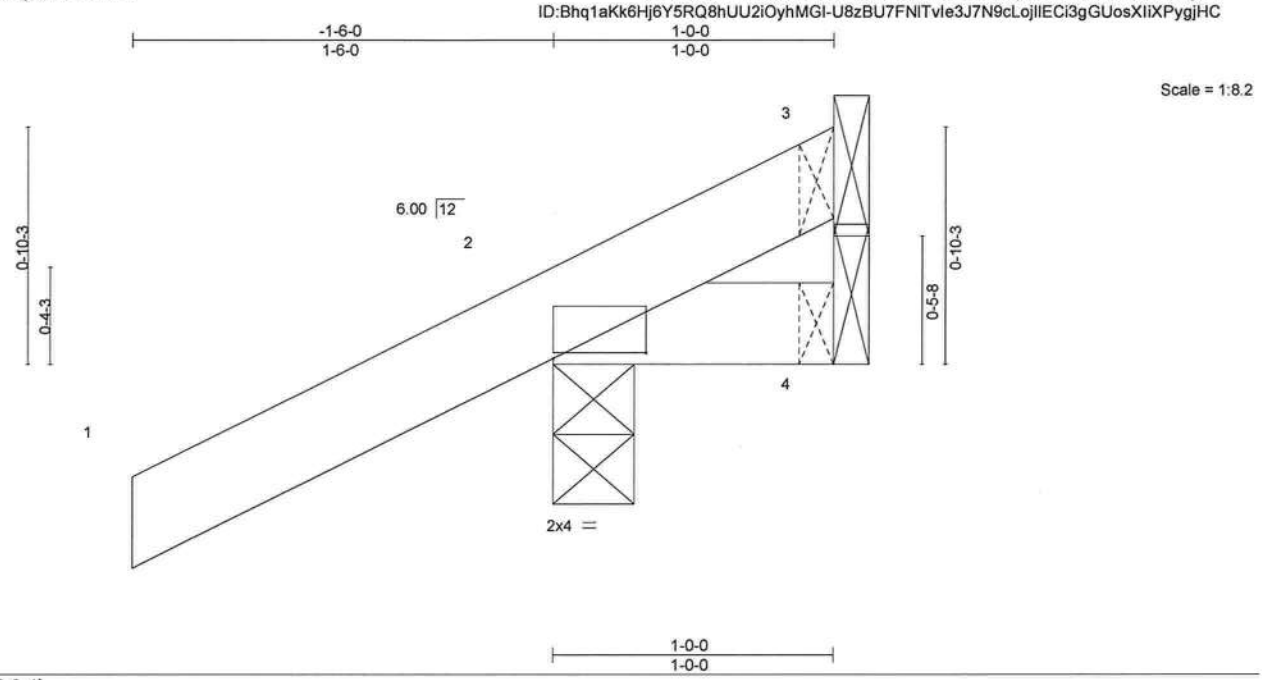


Plate Offsets (X,Y)-- [2:0-4-0,0-0-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | 0.00 | 7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2017/TPI2014 | | Matrix-MP | | | | | | | Weight: 6 lb | FT = 0% |

**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.** (lb/size) 3=-7/Mechanical, 2=198/0-3-8, 4=-22/Mechanical
Max Horz 2=39(LC 12)
Max Uplift 3=-7(LC 1), 2=-71(LC 12), 4=-22(LC 1)
Max Grav 3=12(LC 12), 2=198(LC 1), 4=22(LC 12)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; 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(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.


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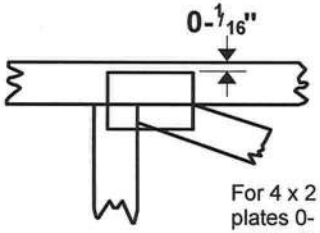
Date:

September 5,2019

# 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

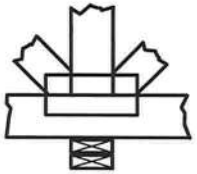
4 x 4

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

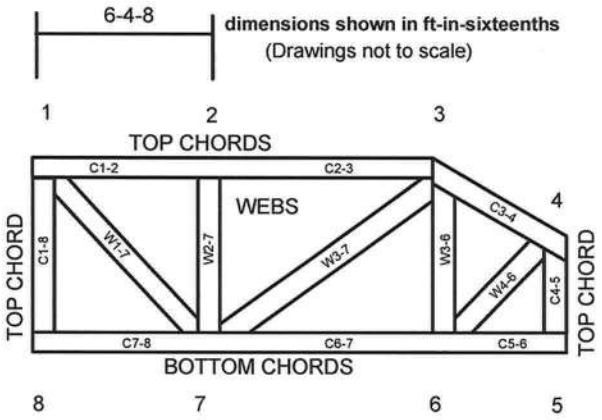


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

**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.



MiTek®

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

# 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.