



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

RE: carter - Carter

**MiTek USA, Inc.**

6904 Parke East Blvd.  
Tampa, FL 33610-4115

**Site Information:**

Customer Info: Mansfield Construction Project Name: . Model: .  
Lot/Block: . Subdivision: .  
Address: ., .  
City: Columbia County State: FL

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

Name: License #:  
Address:  
City: State:

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

Design Code: 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 20 individual, Truss Design Drawings and 0 Additional Drawings.

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

| No. | Seal#     | Truss Name | Date   |
|-----|-----------|------------|--------|
| 1   | T20377876 | A1GE       | 6/4/20 |
| 2   | T20377877 | A2         | 6/4/20 |
| 3   | T20377878 | A3         | 6/4/20 |
| 4   | T20377879 | A4         | 6/4/20 |
| 5   | T20377880 | A5         | 6/4/20 |
| 6   | T20377881 | A6         | 6/4/20 |
| 7   | T20377882 | A7         | 6/4/20 |
| 8   | T20377883 | A8GE       | 6/4/20 |
| 9   | T20377884 | B1GE       | 6/4/20 |
| 10  | T20377885 | B2         | 6/4/20 |
| 11  | T20377886 | C1GE       | 6/4/20 |
| 12  | T20377887 | C2         | 6/4/20 |
| 13  | T20377888 | C3         | 6/4/20 |
| 14  | T20377889 | D1GE       | 6/4/20 |
| 15  | T20377890 | D2         | 6/4/20 |
| 16  | T20377891 | E1GE       | 6/4/20 |
| 17  | T20377892 | E2         | 6/4/20 |
| 18  | T20377893 | GIR1       | 6/4/20 |
| 19  | T20377894 | PB1GE      | 6/4/20 |
| 20  | T20377895 | PB2        | 6/4/20 |

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: Finn, Walter

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

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



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

June 4,2020

|        |       |                        |     |     |        |           |
|--------|-------|------------------------|-----|-----|--------|-----------|
| Job    | Truss | Truss Type             | Qty | Ply | Carter | T20377876 |
| CARTER | A1GE  | PIGGYBACK BASE STRUC I | 1   | 1   |        |           |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Job Reference (optional)

1-6-0 5-10-12 11-5-15 17-8-2 20-7-14 25-1-9 29-0-4 32-11-0 35-4-11 38-4-0 39-10-0  
1-6-0 5-10-12 5-7-4 6-2-3 2-11-12 4-5-11 3-10-12 3-10-12 2-5-11 2-11-5 1-6-0

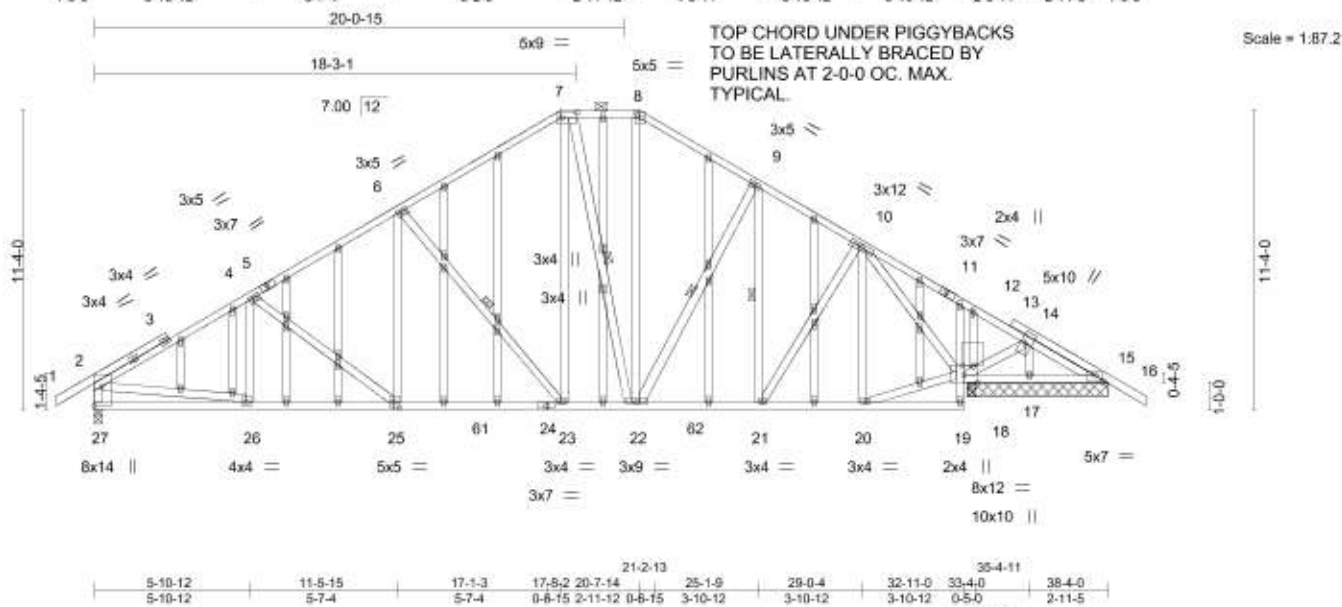


Plate Offsets (X,Y)~ [7:0-7-0,0-2-4], [8:0-2-8,0-2-1], [15:0-3-8,0-3-0], [18:0-0-9,0-5-0], [25:0-2-8,0-3-0], [27:Edge,0-3-8], [27:0-0-0,0-1-12]

| 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) | -0.09    | 23-25  | >999 | 240            | MT20    |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.48   | Vert(CT) | -0.18    | 23-25  | >999 | 180            | 244/190 |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.91   | Horz(CT) | 0.04     | 18     | n/a  | n/a            |         |
| BCDL 10.0     | Code FBC2017/TP12014 |       | Matrix-AS |          |          |        |      |                |         |
|               |                      |       |           |          |          |        |      | Weight: 403 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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 7-8,  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 6-23, 7-22, 9-22, 9-21

#### REACTIONS.

All bearings 5-3-8 except (it=length) 27=0-3-8.  
(lb) - Max Horz 27=-220(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 27, 18, 15, 17  
Max Grav All reactions 250 lb or less at joint(s) 15, 17, 15 except 27=1381(LC 1), 18=1686(LC 1), 18=1686(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1787/307, 4-6=-1581/342, 6-7=-1170/346, 7-8=-884/334, 8-9=-1068/348, 9-10=-1033/285, 10-12=-6/340, 12-14=-85/332, 2-27=-1317/303  
BOT CHORD 26-27=-56/448, 25-26=-162/1593, 23-25=-78/1401, 22-23=0/995, 21-22=0/866, 20-21=0/597  
WEBS 4-25=-282/112, 6-25=0/360, 6-23=-638/201, 7-23=-90/608, 7-22=-369/46, 8-22=-90/362, 9-21=-302/67, 10-21=-14/513, 18-20=0/633, 10-18=-1423/240, 2-26=-119/1202

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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/TP1 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 18, 15, 17, 15.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

June 4, 2020

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

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Tampa, FL 33610



|                          |       |                |     |     |        |           |
|--------------------------|-------|----------------|-----|-----|--------|-----------|
| Job                      | Truss | Truss Type     | Qty | Ply | Carter | T20377877 |
| CARTER                   | A2    | PIGGYBACK BASE | 1   | 1   |        |           |
| Job Reference (optional) |       |                |     |     |        |           |

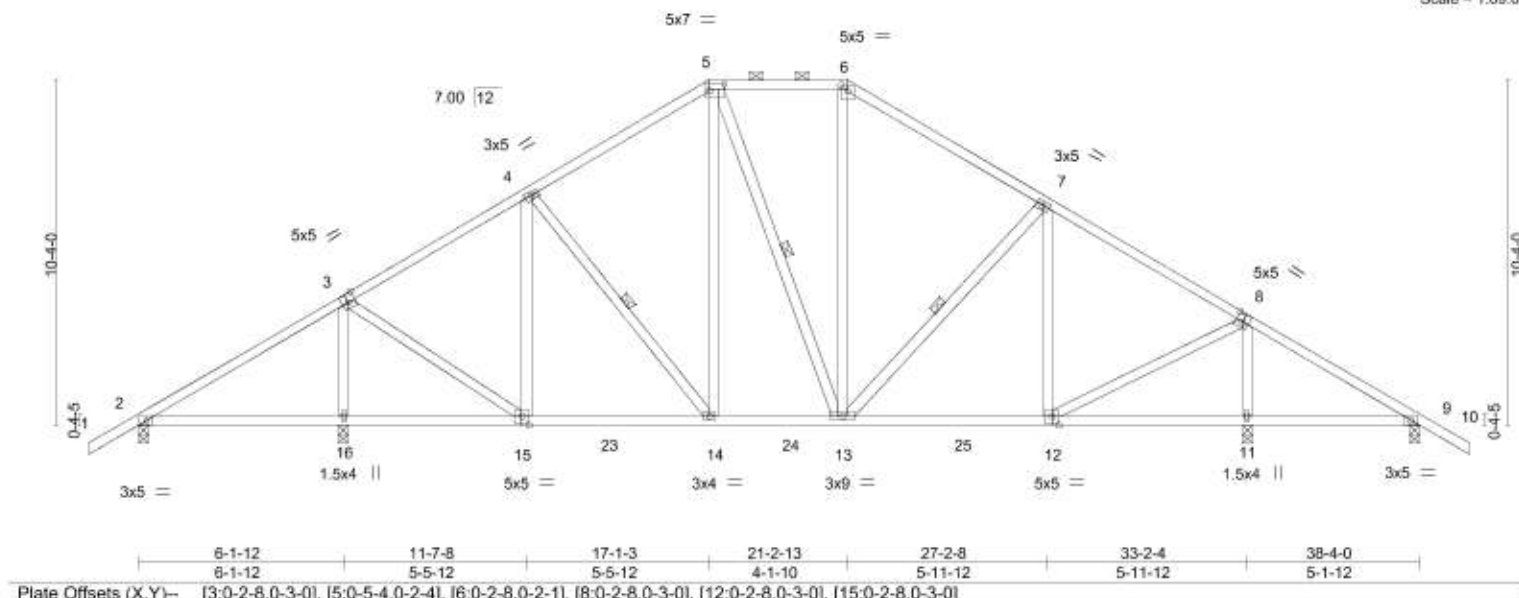
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MITek Industries, Inc. Thu Jun 4 07:55:38 2020 Page 1

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|       |        |        |        |         |         |         |        |         |
|-------|--------|--------|--------|---------|---------|---------|--------|---------|
| 1-6-0 | 8-1-12 | 11-7-8 | 17-1-3 | 21-2-13 | 27-2-8  | 33-2-4  | 38-4-0 | 39-10-0 |
| 1-6-0 | 6-1-12 | 5-5-12 | 5-5-12 | 4-1-10  | 5-11-12 | 5-11-12 | 5-1-12 | 1-6-0   |

Scale = 1:69.0



|                      |                      |                                                                                                        |                               |
|----------------------|----------------------|--------------------------------------------------------------------------------------------------------|-------------------------------|
| Plate Offsets (X,Y)~ |                      | [3:0-2-8,0-3-0], [5:0-5-4,0-2-4], [6:0-2-8,0-2-1], [8:0-2-8,0-3-0], [12:0-2-8,0-3-0], [15:0-2-8,0-3-0] |                               |
| <b>LOADING</b> (psf) | <b>SPACING-</b>      | 2-0-0                                                                                                  | <b>CSI.</b>                   |
| TCLL 20.0            | Plate Grip DOL       | 1.25                                                                                                   | TC 0.35                       |
| TCDL 10.0            | Lumber DOL           | 1.25                                                                                                   | BC 0.36                       |
| BCLL 0.0 *           | Rep Stress Incr      | YES                                                                                                    | WB 0.30                       |
| BCDL 10.0            | Code FBC2017/TPI2014 |                                                                                                        | Matrix-AS                     |
|                      |                      |                                                                                                        | <b>DEFL.</b>                  |
|                      |                      |                                                                                                        | in (loc) l/defl L/d           |
|                      |                      |                                                                                                        | Vert(LL) 0.06 16-19 >999 240  |
|                      |                      |                                                                                                        | Vert(CT) -0.10 12-13 >999 180 |
|                      |                      |                                                                                                        | Horz(CT) 0.02 11 n/a n/a      |
|                      |                      |                                                                                                        | <b>PLATES</b>                 |
|                      |                      |                                                                                                        | MT20                          |
|                      |                      |                                                                                                        | <b>GRIP</b>                   |
|                      |                      |                                                                                                        | 244/190                       |
|                      |                      |                                                                                                        | Weight: 245 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  
2-0-0 oc purlins (6-0-0 max.); 5-6,  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 4-14, 5-13, 7-13

#### REACTIONS.

All bearings 0-3-8.  
(lb) - Max Horz 2=199(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 16, 11, 9 except 2=107(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 9 except 2=281(LC 21), 16=1419(LC 17), 11=1364(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-64/261, 3-4=-843/235, 4-5=-877/303, 5-6=-720/305, 6-7=-901/303, 7-8=-955/236  
BOT CHORD 14-15=0/745, 13-14=0/749, 12-13=0/754  
WEBS 3-16=-1321/253, 3-15=-17/896, 4-15=-369/101, 7-12=-297/108, 8-12=-38/915,  
8-11=-1252/262

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 11, 9 except (jt=lb) 2=107.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

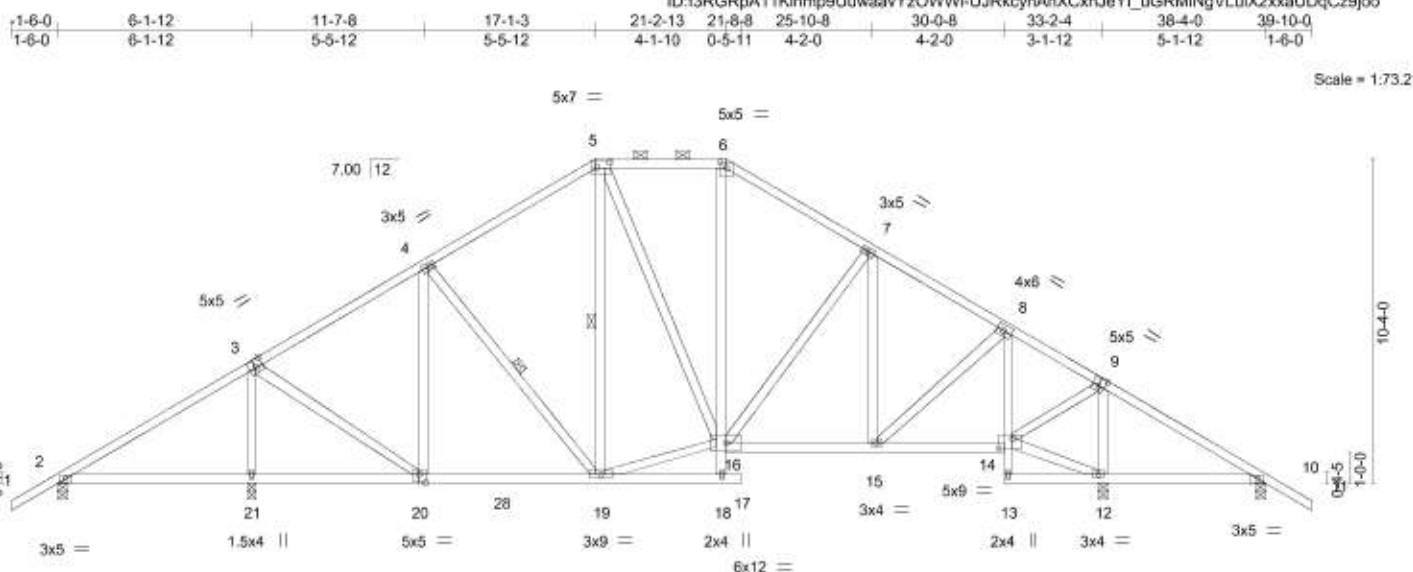
June 4,2020

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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|                      |                 |                 |                 |                 |                  |                  |        |        |
|----------------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|--------|--------|
|                      | 6-1-12          | 11-7-8          | 17-1-3          | 21-8-8          | 25-10-8          | 30-0-8           | 33-2-4 | 38-4-0 |
| Plate Offsets (X,Y)→ | 6-1-12          | 5-5-12          | 5-5-12          | 4-7-5           | 4-2-0            | 4-2-0            | 3-1-12 | 5-1-12 |
|                      | [3-0-2-8-0-3-0] | [5-0-5-4-0-2-4] | [6-0-2-8-0-2-1] | [9-0-2-8-0-3-0] | [14-0-5-8-0-4-0] | [20-0-2-8-0-3-0] |        |        |

|                      |                       |             |                       |               |            |                |             |
|----------------------|-----------------------|-------------|-----------------------|---------------|------------|----------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING-</b> 2-0-0 | <b>CSI.</b> | <b>DEFL.</b> in (loc) | <b>L/defl</b> | <b>L/d</b> | <b>PLATES</b>  | <b>GRIP</b> |
| TCLL 20.0            | Plate Grip DOL 1.25   | TC 0.35     | Vert(LL) 0.06 21-24   | >999          | 240        | MT20           | 244/190     |
| TCDL 10.0            | Lumber DOL 1.25       | BC 0.29     | Vert(CT) -0.08 19-20  | >999          | 180        |                |             |
| BCLL 0.0 *           | Rep Stress Incr YES   | WB 0.29     | Horz(CT) 0.03 12      | n/a           | n/a        |                |             |
| BCDL 10.0            | Code FBC2017/TPI2014  | Matrix-AS   |                       |               |            | Weight: 262 lb | FT = 0%     |

| LUMBER-   |             | BRACING-  |                                                                                        |
|-----------|-------------|-----------|----------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.); 5-6. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 16-18                       |
| WEBS      | 2x4 SP No.2 | WEBS      | 1 Row at midpt 4-19, 5-19                                                              |

**REACTIONS.** All bearings 0-3-8.  
(lb) - Max Horz 2=-199(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 21, 12 except 2=-107(LC 12), 10=-107(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 10 except 2=284(LC 21), 21=1371(LC 1), 12=1571(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown,  
**TOP CHORD** 3-4=-802/229, 4-5=-829/296, 5-6=-714/283, 6-7=-897/287, 7-8=-952/242, 8-9=-605/159,  
 9-10=-13/514  
**BOT CHORD** 19-20=0/888, 15-16=0/771, 14-15=0/487, 8-14=-599/108, 10-12=-374/94  
**WEBS** 3-21=-1230/248, 3-20=-12/810, 4-20=-357/97, 8-15=-0/381, 12-14=-361/87,  
 9-14=-29/968, 9-12=-1300/212, 16-19=0/675, 5-16=0/255

**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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 21, 12 except (jt=lb) 2=107, 10=107.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

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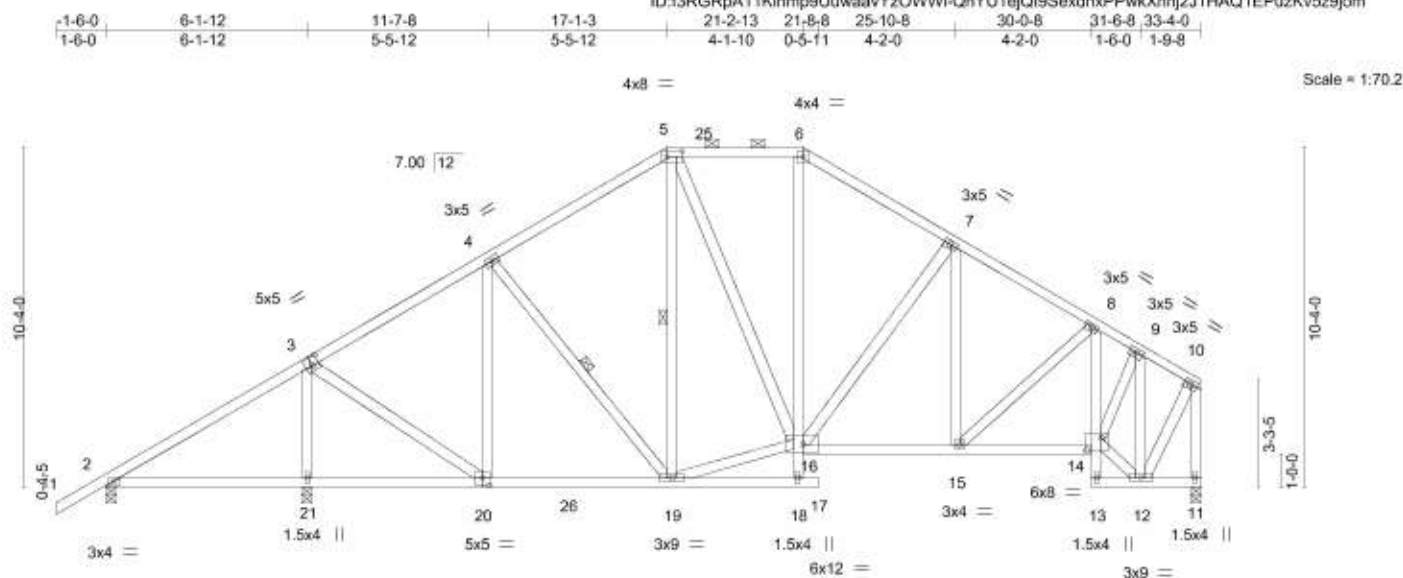
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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|                        |                                                                      |             |                       |               |            |                |                |
|------------------------|----------------------------------------------------------------------|-------------|-----------------------|---------------|------------|----------------|----------------|
|                        | 6-1-12                                                               | 11-7-8      | 17-1-3                | 21-8-8        | 25-10-8    | 30-0-8         | 31-6-8, 33-4-0 |
|                        | 6-1-12                                                               | 5-5-12      | 5-5-12                | 4-7-5         | 4-2-0      | 4-2-0          | 1-6-0 1-9-8    |
| Plate Offsets (X,Y)--- | [3:0-2-8,0-3-0], [5:0-5-8,0-2-0], [14:0-5-8,0-4-8], [20:0-2-8,0-3-0] |             |                       |               |            |                |                |
| <b>LOADING</b> (psf)   | <b>SPACING-</b> 2-0-0                                                | <b>CSI.</b> | <b>DEFL.</b> in (loc) | <b>I/defl</b> | <b>L/d</b> | <b>PLATES</b>  | <b>GRIP</b>    |
| TCLL 20.0              | Plate Grip DOL 1.25                                                  | TC 0.36     | Vert(LL) 0.07 21-24   | >999          | 240        | MT20           | 244/190        |
| TCDL 10.0              | Lumber DOL 1.25                                                      | BC 0.30     | Vert(CT) -0.09 19-20  | >999          | 180        |                |                |
| BCLL 0.0 *             | Rep Stress Incr YES                                                  | WB 0.32     | Horz(CT) 0.04 11      | n/a           | n/a        |                |                |
| BCDL 10.0              | Code FBC2017/TPI2014                                                 | Matrix-AS   |                       |               |            | Weight: 251 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, and 2-0-0 oc purlins (6-0-0 max.): 5-6. |
| BOT CHORD | Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 16-18                                          |
| WEBS      | 1 Row at midpt 4-19, 5-19                                                                                 |

### REACTIONS.

(size) 2=0-3-8, 11=0-3-8, 21=0-3-8  
Max Horz 2=227(LC 11)  
Max Uplift 2=-95(LC 12), 21=-44(LC 12)  
Max Grav 2=270(LC 21), 11=1066(LC 1), 21=1448(LC 1)

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

TOP CHORD 2-3=-84/270, 3-4=-829/213, 4-5=-882/289, 5-6=-785/286, 6-7=-983/292, 7-8=-1125/256,  
8-9=-933/191, 9-10=-509/141, 10-11=-1035/183

BOT CHORD 9-10=-102/697, 6-16=-35/265, 15-16=-141/920, 14-15=-167/829, 8-14=-344/91

WEBS 3-21=-1296/312, 3-20=-65/866, 4-20=-397/131, 7-16=-282/119, 12-14=-98/502,  
9-14=-156/897, 9-12=-1064/217, 10-12=-128/821, 16-19=-52/701, 5-16=-23/318

**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=33ft; 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 left 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, 21.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

June 4, 2020

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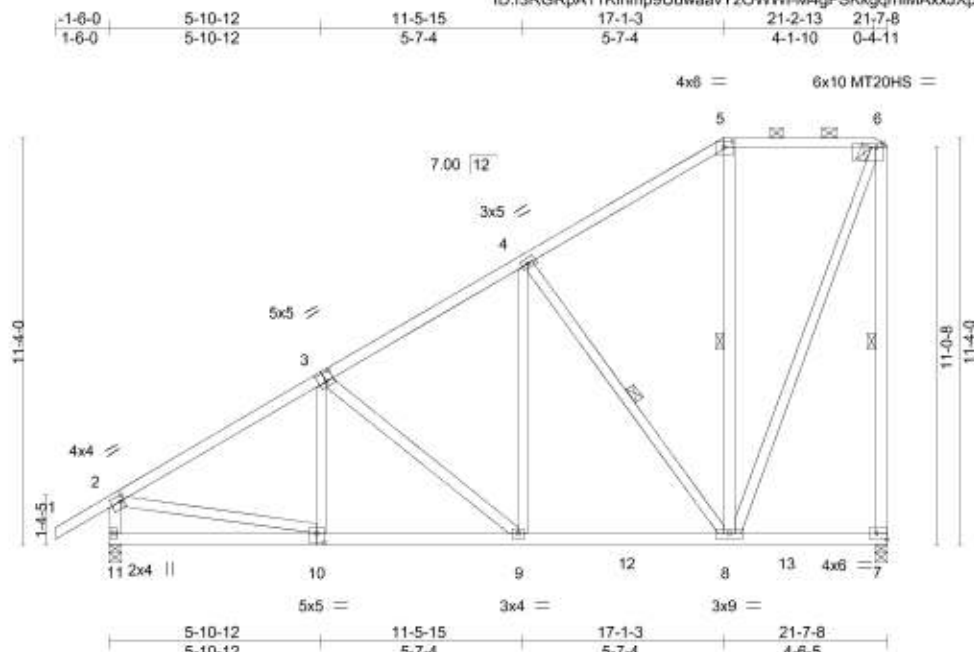


|        |       |                |     |     |        |           |
|--------|-------|----------------|-----|-----|--------|-----------|
| Job    | Truss | Truss Type     | Qty | Ply | Carter | T20377881 |
| CARTER | A6    | PIGGYBACK BASE | 7   | 1   |        |           |

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ID:R3GRpA11Kinmp9UuwaavYzOWWI-M4gFSKkgomiMAxxJXpyCcCsw7ieeFaXsCSRz\_z9jck



Scale: 3/16"=1'

Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [3:0-2-8,0-3-0], [5:0-3-0,0-1-12], [6:0-2-0,0-1-8], [7:Edge,0-2-0], [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 0.98   | Vert(LL) | -0.04    | 8-9    | >999 | 240            | MT20 244/190   |
| TCCL 10.0     | Lumber DOL           | 1.25  | BC 0.37   | Vert(CT) | -0.08    | 8-9    | >999 | 180            | MT20HS 187/143 |
| BCCL 0.0 *    | Rep Stress Incr      | YES   | WB 0.70   | Horz(CT) | 0.02     | 7      | n/a  | n/a            |                |
| BCDL 10.0     | Code FBC2017/TPI2014 |       | Matrix-AS |          |          |        |      |                |                |
|               |                      |       |           |          |          |        |      | Weight: 171 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, and 2-0-0 oc purlins (6-0-0 max.): 5-6.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 4-8, 5-8, 6-7

#### REACTIONS.

(size) 11=0-3-8, 7=0-3-8  
Max Horz 11=343(LC 9)  
Max Uplift 11=-29(LC 12), 7=-51(LC 9)  
Max Grav 11=956(LC 1), 7=950(LC 17)

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

TOP CHORD 2-3=-1044/176, 3-4=-798/208, 4-5=-459/221, 5-6=-395/232, 2-11=-899/230, 6-7=-857/283  
BOT CHORD 10-11=-627/686, 9-10=-467/1042, 8-9=-340/769  
WEBS 3-9=-353/164, 4-9=-43/368, 4-8=-617/217, 6-8=-286/826, 2-10=-32/717

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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) 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) 11, 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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|        |       |                |     |     |        |           |
|--------|-------|----------------|-----|-----|--------|-----------|
| Job    | Truss | Truss Type     | Qty | Ply | Carter | T20377862 |
| CARTER | A7    | PIGGYBACK BASE | 3   | 1   |        |           |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:3RGRpA11Klmp9UuwaavYzOWWI-JTo7i0mxMNy4PE5xeE\_ghtyETwN468lqKWxX2sz9joi

1-6-0 1-9-8 3-3-8 7-8-12 12-2-0 17-1-3 21-2-13 21-7-8  
1-6-0 1-9-8 1-6-0 4-5-4 4-5-4 4-11-3 4-1-10 0-4-11

5x5 = 6x10 MT20HS =

Scale = 1:69.8

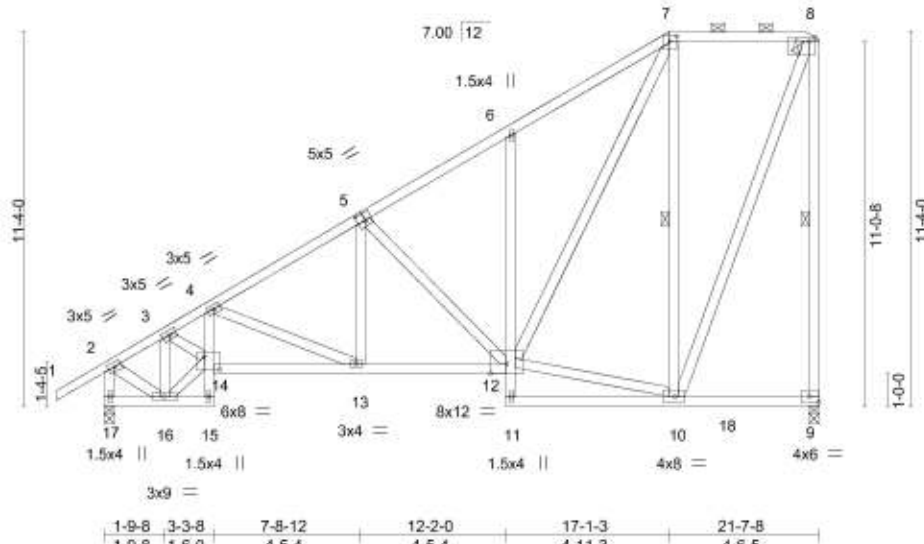


Plate Offsets (X,Y)=[5:0-2-8,0-3-0], [7:0-2-8,0-2-1], [8:0-2-0,0-1-8], [9:Edge,0-2-0], [14:0-5-8,0-4-8]

| 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 0.97   | Vert(LL) | -0.04 12-13 | >999   | 240 | MT20           | 244/190 |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.37   | Vert(CT) | -0.10 12-13 | >999   | 180 | MT20HS         | 187/143 |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.72   | Horz(CT) | 0.06 9      | n/a    | n/a |                |         |
| BCDL 10.0     | Code FBC2017/TPI2014 |       | Matrix-AS |          |             |        |     |                |         |
|               |                      |       |           |          |             |        |     | Weight: 192 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, and 2-0-0 oc purlins (6-0-0 max.); 7-8,  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 7-10, 8-9

#### REACTIONS.

(size) 17=0-3-8, 9=0-3-8  
Max Horz 17=343(LC 9)  
Max Uplift 17=-29(LC 12), 9=-51(LC 9)  
Max Grav 17=956(LC 1), 9=898(LC 17)

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

TOP CHORD 2-3=-709/112, 3-4=-1521/437, 4-5=-1150/206, 5-6=-795/213, 6-7=-833/336,  
7-8=-390/231, 2-17=-922/209, 8-9=-813/282  
BOT CHORD 16-17=-595/578, 4-14=-270/455, 13-14=-930/1883, 12-13=-511/1166, 6-12=-303/190  
WEBS 3-16=-1042/444, 14-16=-666/1158, 3-14=-430/1036, 4-13=-764/448, 5-13=-62/293,  
5-12=-516/212, 10-12=-190/351, 7-12=-342/896, 7-10=-750/414, 8-10=-282/776,  
2-16=-63/674

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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June 4,2020

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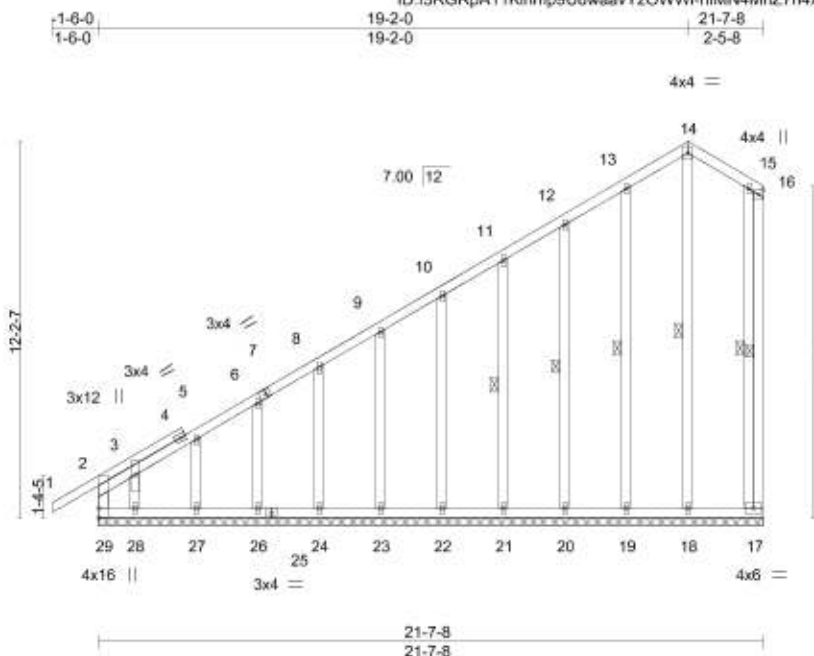


|                          |       |                        |     |     |        |           |
|--------------------------|-------|------------------------|-----|-----|--------|-----------|
| Job                      | Truss | Truss Type             | Qty | Ply | Carter | T20377883 |
| CARTER                   | A8GE  | Common Supported Gable | 1   | 1   |        |           |
| Job Reference (optional) |       |                        |     |     |        |           |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID: f3RGRpA11KnmP9UuwaavYzOWWI-nfMN4MnZ7h4x1OguCyWvDqUT2Kj1rksZyAg5alz9joh



Scale = 1:75.0

Plate Offsets (X,Y)=[2:0-1-0,0-1-12], [29:0-0-0,0-1-12]

| 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 0.73  | Vert(LL) | -0.00    | 1      | n/r | MT20   | 244/190                |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.33  | Vert(CT) | -0.01    | 1      | n/r |        |                        |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.16  | Horz(CT) | 0.00     | 17     | n/a |        |                        |
| BCDL 10.0     | Code FBC2017/TPI2014 |       | Matrix-R |          |          |        |     |        |                        |
|               |                      |       |          |          |          |        |     |        | Weight: 204 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 or 6'-0" oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.  
WEBS 1 Row at midpt 16-17, 14-18, 13-19, 12-20, 11-21, 15-17

#### REACTIONS.

All bearings 21-7-8.  
(lb) - Max Horz 29=350(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 17, 18, 19, 20, 21, 22, 23, 24, 26 except 29=149(LC 10), 28=288(LC 9)  
Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28 except 29=404(LC 18)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-29=-460/325, 2-3=-631/556, 3-5=-456/421, 5-6=-428/396, 6-8=-378/355, 8-9=-329/314, 9-10=-279/273, 14-15=-241/263, 15-16=-283/311, 16-17=-293/319  
WEBS 3-28=-316/340

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 18, 19, 20, 21, 22, 23, 24, 26 except (jt=lb) 29=149, 28=288.



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Tampa, FL 33610

|                          |       |               |     |     |        |           |
|--------------------------|-------|---------------|-----|-----|--------|-----------|
| Job                      | Truss | Truss Type    | Qty | Ply | Carter | T20377884 |
| CARTER                   | B1GE  | Common Girder | 1   | 1   |        |           |
| Job Reference (optional) |       |               |     |     |        |           |

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

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ID: f3RGRpA11Kinmp9UuwaavYzOWWI-j2U8V1opflKIGiQHKNYNJFaxs8T0JegG0U9BfBz9jof

1-6-0 16-8-0 33-4-0 34-10-0  
1-6-0 16-8-0 16-8-0 1-6-0

Scale = 1:79.7

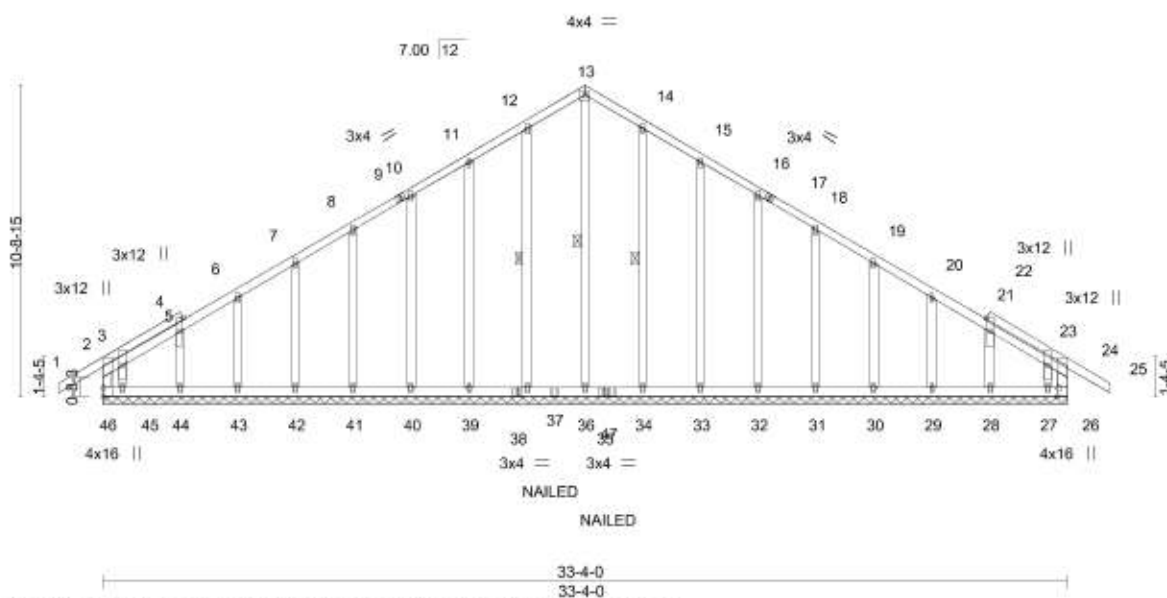


Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [24:0-1-0,0-1-12], [26:0-0-0,0-1-12], [26:0-3-8,Edge], [46:0-0-0,0-1-12]

| 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 0.20  | Vert(LL) | 0.00     | 25     | n/r | MT20           | 244/190 |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.10  | Vert(CT) | -0.00    | 25     | n/r |                |         |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.14  | Horz(CT) | -0.00    | 26     | n/a |                |         |
| BCDL 10.0     | Code FBC2017/TPI2014 |       | Matrix-R |          |          |        |     |                |         |
|               |                      |       |          |          |          |        |     | Weight: 257 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 or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 13-36, 12-37, 14-34

#### REACTIONS.

- All bearings 33-4-0.  
(lb) - Max Horz 46=-209(LC 6)  
Max Uplift All uplift 100 lb or less at joint(s) 26, 37, 39, 40, 41, 42, 43, 44, 34, 33, 32, 31, 30, 29, 28 except 46=-182(LC 6), 45=-170(LC 24), 27=-106(LC 21)  
Max Grav All reactions 250 lb or less at joint(s) 37, 39, 40, 41, 42, 43, 44, 45, 34, 33, 32, 31, 30, 29, 28, 27 except 46=336(LC 30), 26=266(LC 29), 36=251(LC 23)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-46=-254/80

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=2ft; 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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 37, 39, 40, 41, 42, 43, 44, 34, 33, 32, 31, 30, 29, 28 except (jt=lb) 46=182, 45=170, 27=106.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-13=-60, 13-24=-60, 24-25=-60, 26-46=-20



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Continued on page 2

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|        |       |               |     |     |                          |           |
|--------|-------|---------------|-----|-----|--------------------------|-----------|
| Job    | Truss | Truss Type    | Qty | Ply | Carter                   | T20377884 |
| CARTER | B1GE  | Common Girder | 1   | 1   | Job Reference (optional) |           |

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:48 2020 Page 2  
ID:f3RGpA11Kinmp8UuwaavYzOWWI-j2U8V1opfIKfGiqHKYNYJFaxs8T0JegG0U9BfBz9jof

**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 35=-16(B) 47=-16(B)

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Tampa, FL 36610

|        |       |            |     |     |        |           |
|--------|-------|------------|-----|-----|--------|-----------|
| Job    | Truss | Truss Type | Qty | Ply | Carter | T20377885 |
| CARTER | B2    | Common     | 5   | 1   |        |           |

Mayo Truss Company, Inc., Mayo, FL - 32066,

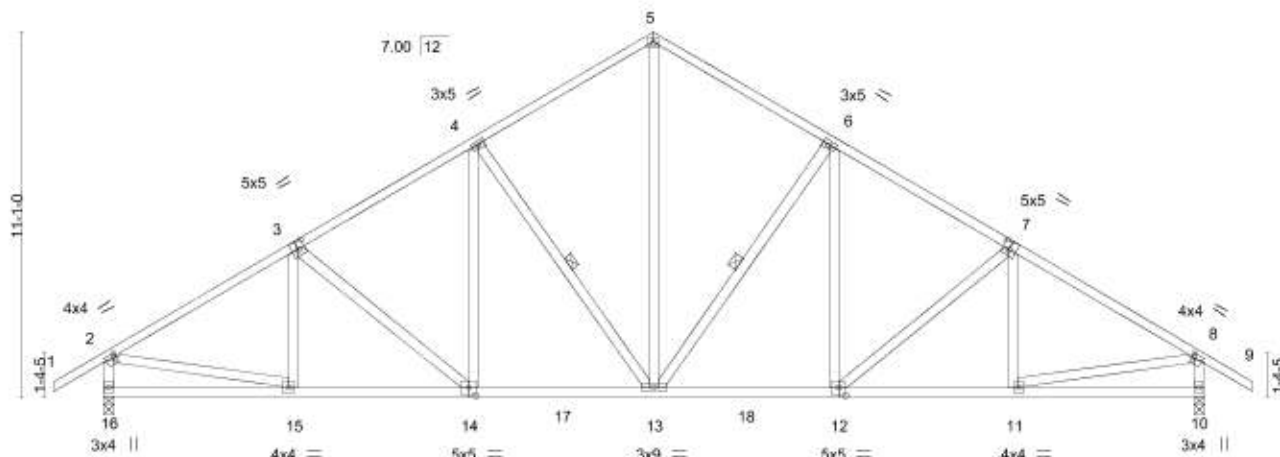
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:50 2020 Page 1

ID:f3RGRpA11KInmp9UuwaavYzOWWf-fQbuwjg3BwbNW0z/RnarOgfGix4UnTEZToelj4z9jod

|       |       |        |        |        |        |        |         |
|-------|-------|--------|--------|--------|--------|--------|---------|
| 1-6-0 | 5-9-0 | 11-2-8 | 16-8-0 | 22-1-8 | 27-7-0 | 33-4-0 | 34-10-0 |
| 1-6-0 | 5-9-0 | 5-5-8  | 5-5-8  | 5-5-8  | 5-5-8  | 5-9-0  | 1-6-0   |

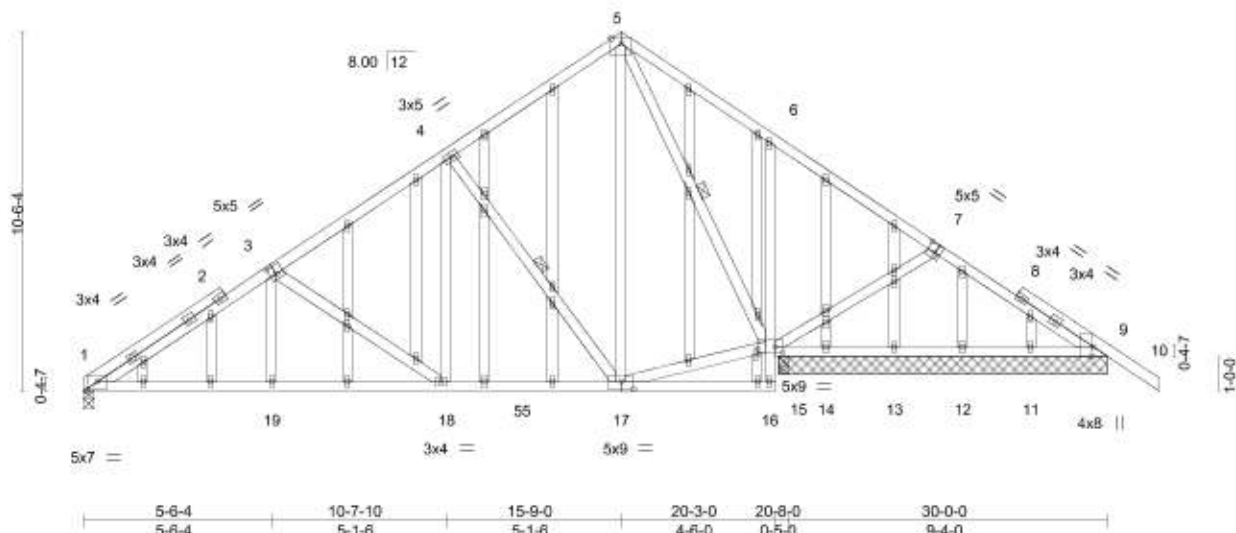
4x4 =

Scale = 1:69.8





Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:52 2020 Page 1  
ID:f3RGRpA11Kinmp9UuwaavYzOWWl-cpjetPrKjXr5UJ72ZCcJT5kcOlnsFPpx57Poyz9job  
5-6-4 10-7-10 15-9-0 20-3-0 24-11-1 30-0-0 31-6-0  
5-6-4 5-1-6 5-1-6 4-6-0 4-8-1 5-0-15 1-6-0  
7 of 11 Scale = 1:67.5



|                |             |                 |                                             |
|----------------|-------------|-----------------|---------------------------------------------|
| <b>LUMBER-</b> |             | <b>BRACING-</b> |                                             |
| TOP CHORD      | 2x4 SP No.2 | TOP CHORD       | Structural wood sheathing directly applied. |
| BOT CHORD      | 2x4 SP No.2 | BOT CHORD       | Rigid ceiling directly applied.             |
| WEBS           | 2x4 SP No.2 | WEBS            | 1 Row at midpt 4-17, 5-15                   |
| OTHERS         | 2x4 SP No.2 |                 |                                             |

**REACTIONS.** All bearings 9-7-8 except (j=length) 1=0-3-8.  
(lb) - Max Horiz 1=-195(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 15, 9  
Max Grav All reactions 250 lb or less at joint(s) 14, 13, 12, 11, 9 except 1=736(LC 21), 15=1305(LC 1),  
15=1305(LC 1), 9=277(LC 22)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=1057/154, 3-4=-702/164, 4-5=-336/177, 5-6=0/292, 6-7=-46/301  
 BOT CHORD 1-19=-59/968, 18-19=-60/967, 17-18=0/613, 6-15=-304/192  
 WEBS 3-18=-443/145, 4-18=-18/402, 4-17=-610/196, 5-17=-138/554, 15-17=0/266,  
 5-15=-864/110, 7-15=-280/175

NOTES: Page 1 of 1

- 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=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; and 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9, 9.
- 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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MiTek USA, Inc. FL Cert 6634  
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Date:

June 4, 2020

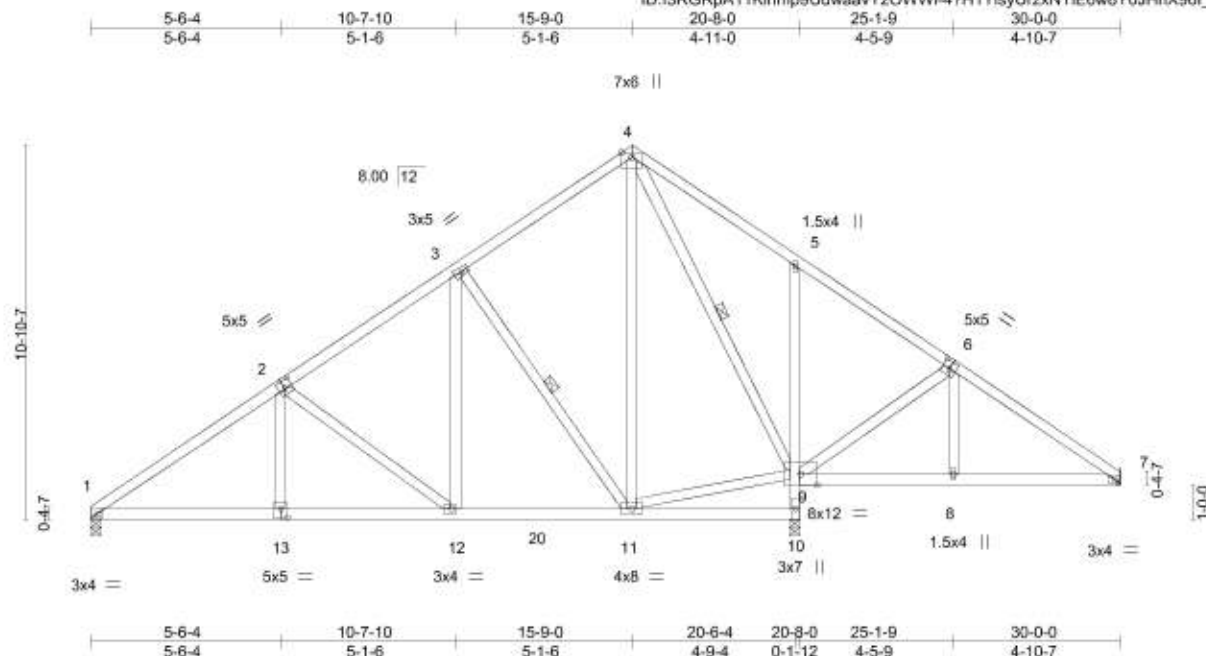
|        |       |              |     |     |        |           |
|--------|-------|--------------|-----|-----|--------|-----------|
| Job    | Truss | Truss Type   | Qty | Ply | Carter | T20377887 |
| CARTER | C2    | Roof Special | 3   | 1   |        |           |

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ID: f3RGRpA11Klnmp9UuwaavYzOWWI-47H1YlsyUrzxNTIE6w8Y0JHnX96I\_m?AllyKOz9joa



Scale = 1:67.1

Plate Offsets (X,Y)~ [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [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 0.27   | Vert(LL) | -0.03 11-12 | >999   | 240 | MT20           | 244/190 |
| TCCL 10.0     | Lumber DOL           | 1.25  | BC 0.35   | Vert(CT) | -0.07 13-16 | >999   | 180 |                |         |
| BCCL 0.0 *    | Rep Stress Incr      | YES   | WB 0.40   | Horz(CT) | 0.02 10     | 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,  
WEBS 1 Row at midpt 3-11, 4-9

#### REACTIONS.

(size) 1=0-3-8, 10=0-3-8, 7=Mechanical  
Max Horz 1=-189(LC 10)  
Max Uplift 10=-132(LC 12), 7=-47(LC 12)  
Max Grav 1=772(LC 1), 10=1355(LC 1), 7=301(LC 22)

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

TOP CHORD 1-2=-1101/145, 2-3=-734/155, 3-4=-388/169, 6-7=-298/140  
BOT CHORD 1-13=-75/970, 12-13=-76/968, 11-12=0/638, 9-10=-1310/513, 5-9=-299/187  
WEBS 2-12=-434/153, 3-12=-27/401, 3-11=-599/197, 4-11=-124/554, 9-11=0/292,  
4-9=-820/119, 6-9=-374/322

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 10=132.
- 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:

June 4, 2020

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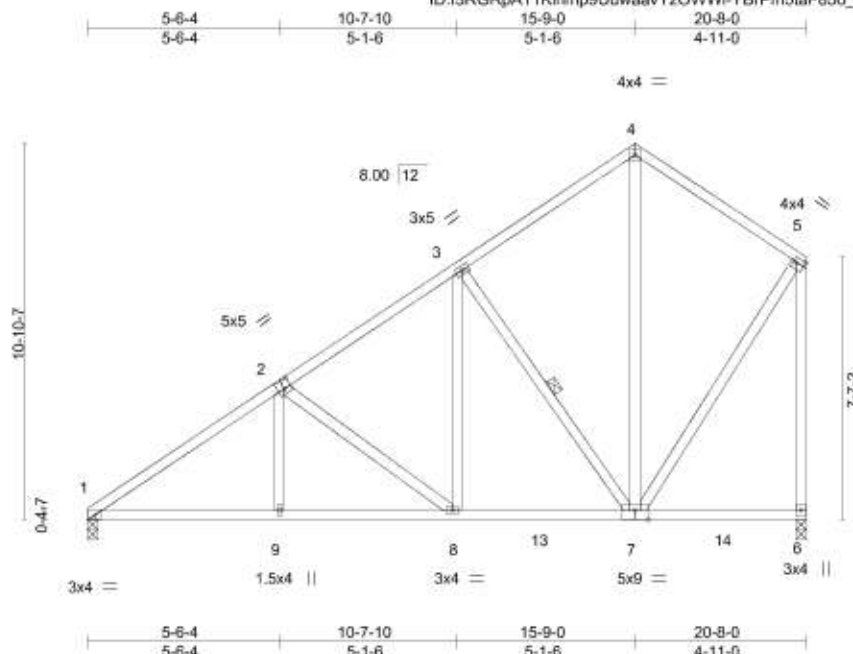


|        |       |            |     |     |        |           |
|--------|-------|------------|-----|-----|--------|-----------|
| Job    | Truss | Truss Type | Qty | Ply | Carter | T20377888 |
| CARTER | C3    | Common     | 6   | 1   |        |           |

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ID:13RGRpA11Klnmp9UuwaavYzOWWI-YBrPm5taF85o\_dHQgdfnYWqrkYSMjKh8OPcWsrz9joZ



Scale = 1:66.3

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

| 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 0.75   | Vert(LL) | -0.03    | 9-12   | >999 | 240            | MT20    |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.36   | Vert(CT) | -0.07    | 9-12   | >999 | 180            |         |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.29   | Horz(CT) | 0.02     | 6      | n/a  | n/a            |         |
| BCDL 10.0     | Code FBC2017/TPI2014 |       | Matrix-AS |          |          |        |      |                |         |
|               |                      |       |           |          |          |        |      | Weight: 144 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 3-7

#### REACTIONS.

(size) 1=0-3-8, 6=0-3-8  
Max Horz 1=281(LC 11)  
Max Uplift 6=-5(LC 12)  
Max Grav 1=821(LC 1), 6=877(LC 17)

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

TOP CHORD 1-2=-1188/203, 2-3=-821/213, 3-4=-482/229, 4-5=-482/235, 5-6=-784/210  
BOT CHORD 1-9=-391/1065, 8-9=-392/1063, 7-8=-270/716  
WEBS 2-8=-433/153, 3-8=-32/397, 3-7=-592/197, 4-7=-130/263, 5-7=-149/589

#### NOTES-

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

June 4,2020

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|                          |       |                        |     |     |        |           |
|--------------------------|-------|------------------------|-----|-----|--------|-----------|
| Job                      | Truss | Truss Type             | Qty | Ply | Carter | T20377889 |
| CARTER                   | D1GE  | Common Supported Gable | 1   | 1   |        |           |
| Job Reference (optional) |       |                        |     |     |        |           |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID: f3RGRpA11KInmp9UuwaavYzOWWI-Uay9BmuqmmLWExRpoZhFdxvKeMDiBGIRsj6dxjz9joX

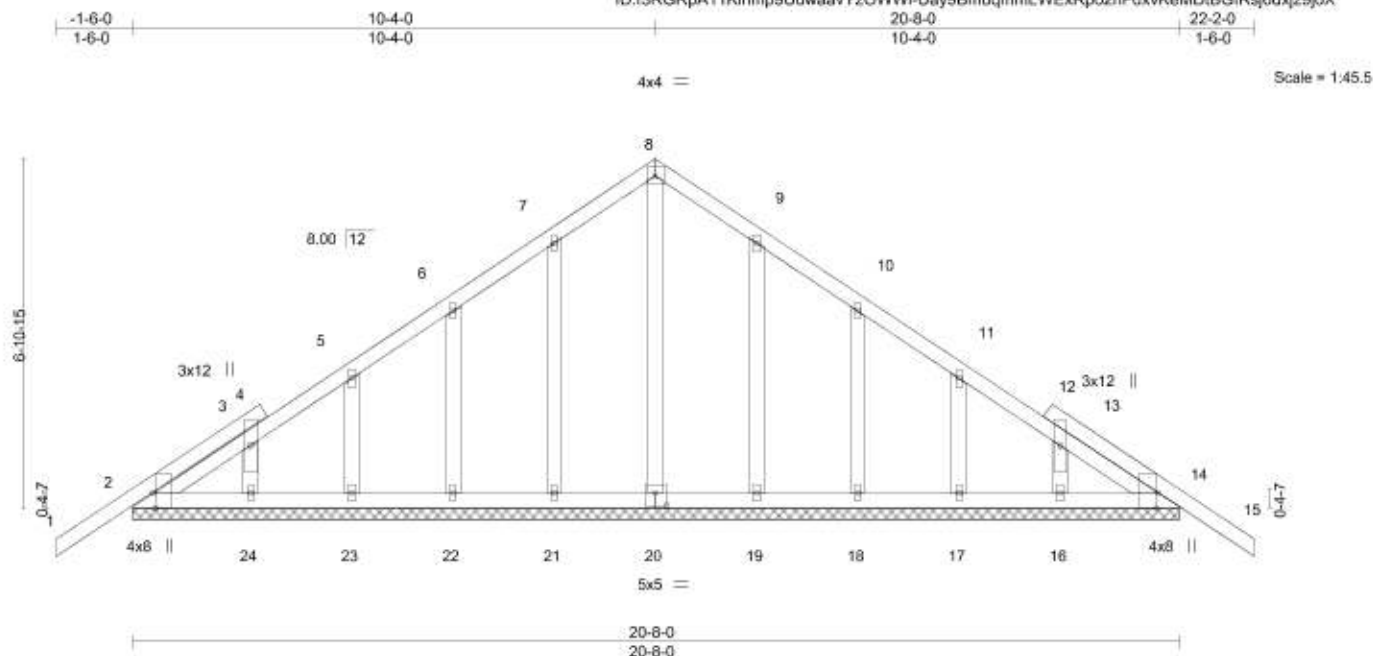


Plate Offsets (X,Y)~ [2:0-3-8,Edge], [14:0-3-8,Edge], [20:0-2-8,0-3-0]

| 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 0.15  | Vert(LL) | -0.01 | 15    | n/r    | 120 | MT20           | 244/190 |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.04  | Vert(CT) | -0.01 | 15    | n/r    | 120 |                |         |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.10  | Horz(CT) | 0.00  | 14    | n/a    | n/a |                |         |
| BCDL 10.0     | Code FBC2017/TPI2014 |       | Matrix-S |          |       |       |        |     | Weight: 126 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 20-8-0.  
(lb) - Max Horz 2=-139(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 19, 18, 17  
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 24, 19, 18, 17, 16

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 19, 18, 17.



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

June 4, 2020

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|        |       |            |     |     |        |           |
|--------|-------|------------|-----|-----|--------|-----------|
| Job    | Truss | Truss Type | Qty | Ply | Carter | T20377890 |
| CARTER | D2    | Common     | 2   | 1   |        |           |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:13RGRpA11Klnmp9UuwaavYzOWWl-ymWxO6vSX3TNs507LmCUA9SUnmVowggg4NrATAz9joW

|       |       |        |        |        |        |
|-------|-------|--------|--------|--------|--------|
| 1-6-0 | 5-4-7 | 10-4-0 | 15-3-9 | 20-8-0 | 22-2-0 |
| 1-6-0 | 5-4-7 | 4-11-9 | 4-11-9 | 5-4-7  | 1-6-0  |

4x4 =

Scale = 1:46.2

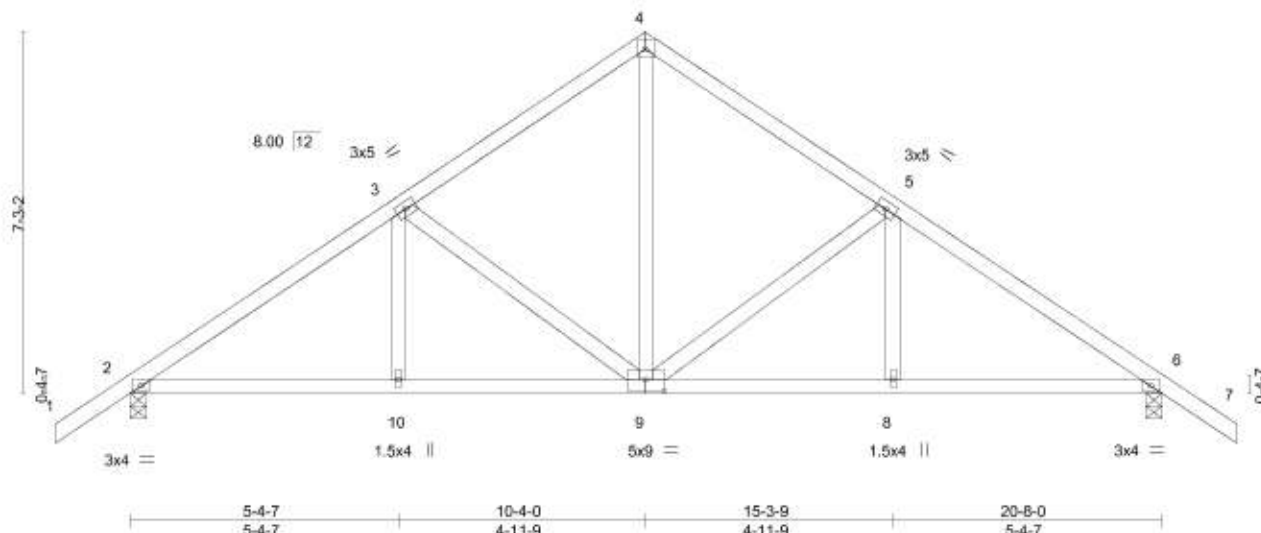


Plate Offsets (X,Y) = [9:0-4-8,0-3-0]

| LOADING (psf) | SPACING-             |       | CSI.      | DEFL.    | in    | (loc) | l/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|-------|-----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | Plate Grip DOL       | 2-0-0 | TC 0.25   | Vert(LL) | -0.03 | 9     | >999   | 240 | MT20           | 244/190 |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.31   | Vert(CT) | -0.07 | 9-10  | >999   | 180 |                |         |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.28   | Horz(CT) | 0.03  | 6     | n/a    | n/a |                |         |
| BCDL 10.0     | Code FBC2017/TPI2014 |       | Matrix-AS |          |       |       |        |     |                |         |
|               |                      |       |           |          |       |       |        |     | Weight: 111 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.

(size) 2=0-3-8, 6=0-3-8  
Max Horz 2=145(LC 11)  
Max Uplift 2=-37(LC 12), 6=-37(LC 12)  
Max Grav 2=917(LC 1), 6=917(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1200/199, 3-4=-838/212, 4-5=-838/212, 5-6=-1200/199  
BOT CHORD 2-10=-46/938, 9-10=-46/938, 8-9=-54/938, 6-8=-54/938  
WEBS 4-9=-104/590, 5-9=-434/144, 3-9=-435/145

#### NOTES-

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



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

June 4, 2020

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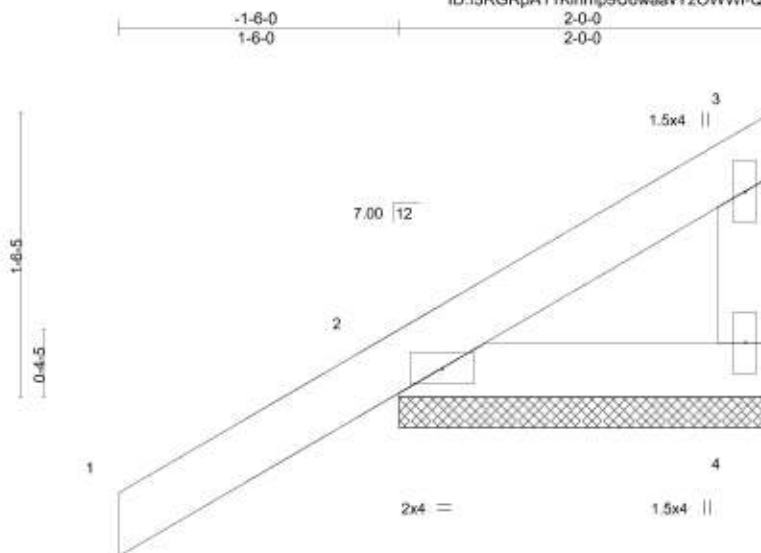
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|                          |       |                           |     |     |        |           |
|--------------------------|-------|---------------------------|-----|-----|--------|-----------|
| Job                      | Truss | Truss Type                | Qty | Ply | Carter | T20377891 |
| CARTER                   | E1GE  | Monopitch Supported Gable | 2   | 1   |        |           |
| Job Reference (optional) |       |                           |     |     |        |           |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:13RGRpA11Kinmp9UuwaavYzOWWI-Qz4wbSw5INbETEbCvTjjiM\_gAAuMfBGk11b7cz9joV



Scale = 1:12.3

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.     | DEFL.    | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.14  | Vert(LL) | 0.00  | 1     | n/r    | 120 | MT20          | 244/190 |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.04  | Vert(CT) | -0.01 | 1     | n/r    | 120 |               |         |
| 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-P |          |       |       |        |     |               |         |
|               |                      |       |          |          |       |       |        |     | Weight: 11 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 2-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 4=2-0-0, 2=2-0-0  
Max Horz 2=45(LC 9)  
Max Uplift 4=1(LC 9), 2=57(LC 12)  
Max Grav 4=43(LC 3), 2=201(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=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.
- 2) 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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Date:

June 4, 2020

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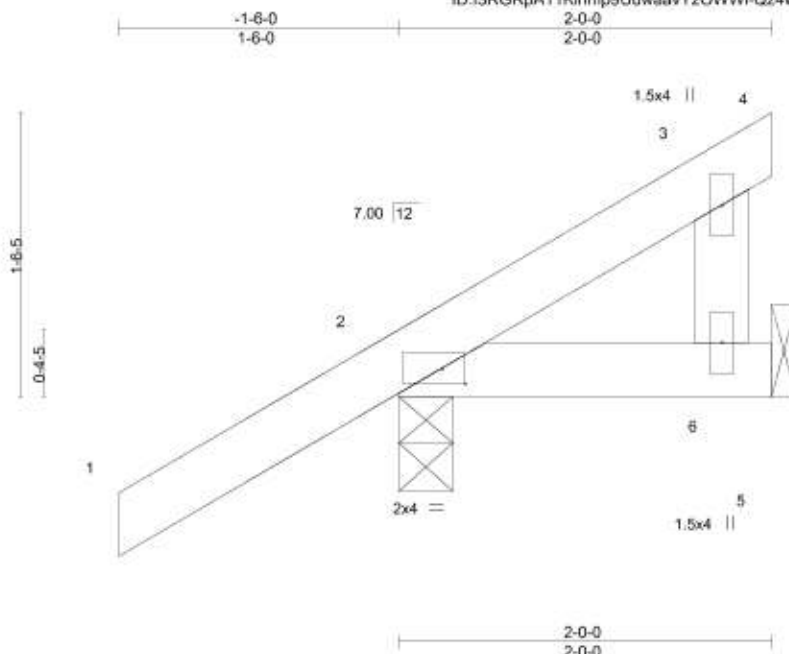


|        |       |             |     |     |        |           |
|--------|-------|-------------|-----|-----|--------|-----------|
| Job    | Truss | Truss Type  | Qty | Ply | Carter | T20377892 |
| CARTER | E2    | Jack-Closed | 2   | 1   |        |           |

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Scale = 1:12.3

Plate Offsets (X,Y)~ [2:0-1-7,0-1-0]

| 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 0.14   | Vert(LL) | -0.00    | 9      | >999 | 240           | MT20    |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.05   | Vert(CT) | -0.00    | 9      | >999 | 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-MP |          |          |        |      |               |         |
|               |                      |       |           |          |          |        |      | Weight: 10 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 2-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 5=Mechanical  
Max Horz 2=45(LC 11)  
Max Uplift 2=54(LC 12)  
Max Grav 2=203(LC 1), 5=49(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; TCCL=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) 2.



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Date:

June 4, 2020

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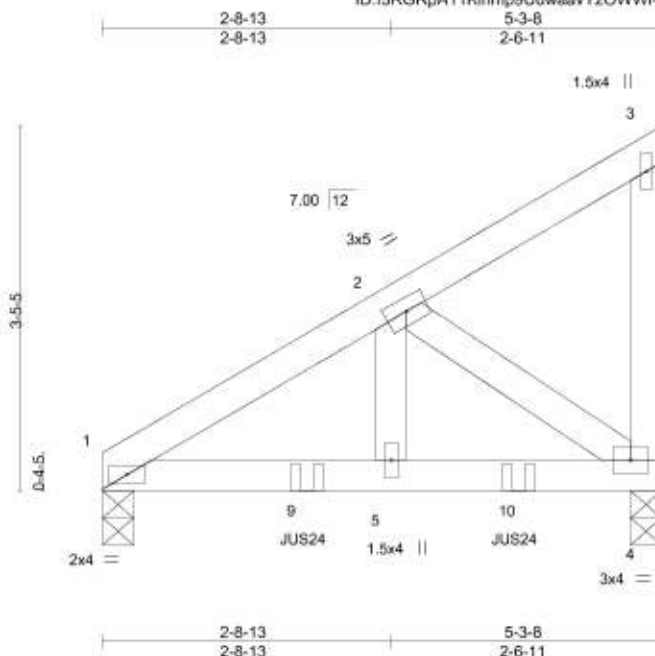
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|        |       |                  |     |     |                          |           |
|--------|-------|------------------|-----|-----|--------------------------|-----------|
| Job    | Truss | Truss Type       | Qty | Ply | Carter                   | T20377893 |
| CARTER | GIR1  | Monopitch Girder | 1   | 2   | Job Reference (optional) |           |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:13RGRpA11Klnmp9UuwaavYzOWWI-BVZxH06Qgc5RTCKN9tb12J3aOaYXpQv9HX8H6z9JoN



Scale = 1:21.8

| LOADING (psf) | SPACING-             | CSL       | DEFL.          | in (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|---------|
| TCLL 20.0     | Plate Grip DOL 1.25  | TC 0.05   | Vert(LL) -0.00 | 4-5      | >999   | 240 | MT20          | 244/190 |
| TCDL 10.0     | Lumber DOL 1.25      | BC 0.21   | Vert(CT) -0.01 | 4-5      | >999   | 180 |               |         |
| BCLL 0.0 *    | Rep Stress Incr NO   | WB 0.05   | Horz(CT) 0.00  | 4        | n/a    | n/a |               |         |
| BCDL 10.0     | Code FBC2017/TP12014 | Matrix-MP |                |          |        |     |               |         |
|               |                      |           |                |          |        |     | Weight: 55 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 5-3-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 4=0-3-8  
Max Horz 1=92(LC 20)  
Max Uplift 1=47(LC 8), 4=78(LC 5)  
Max Grav 1=447(LC 1), 4=527(LC 1)

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

TOP CHORD 1-2=-620/86  
BOT CHORD 1-5=-90/525, 4-5=-90/525  
WEBS 2-5=-56/476, 2-4=-635/110

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 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 1-11-4 from the left end to 3-11-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced); Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 4-6=-20  
Concentrated Loads (lb)  
Vert: 9=-281(B) 10=-281(B)



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MiTek USA, Inc. FL Cert 6634  
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|        |       |            |     |     |        |           |
|--------|-------|------------|-----|-----|--------|-----------|
| Job    | Truss | Truss Type | Qty | Ply | Carter | T20377894 |
| CARTER | PB1GE | GABLE      | 1   | 1   |        |           |

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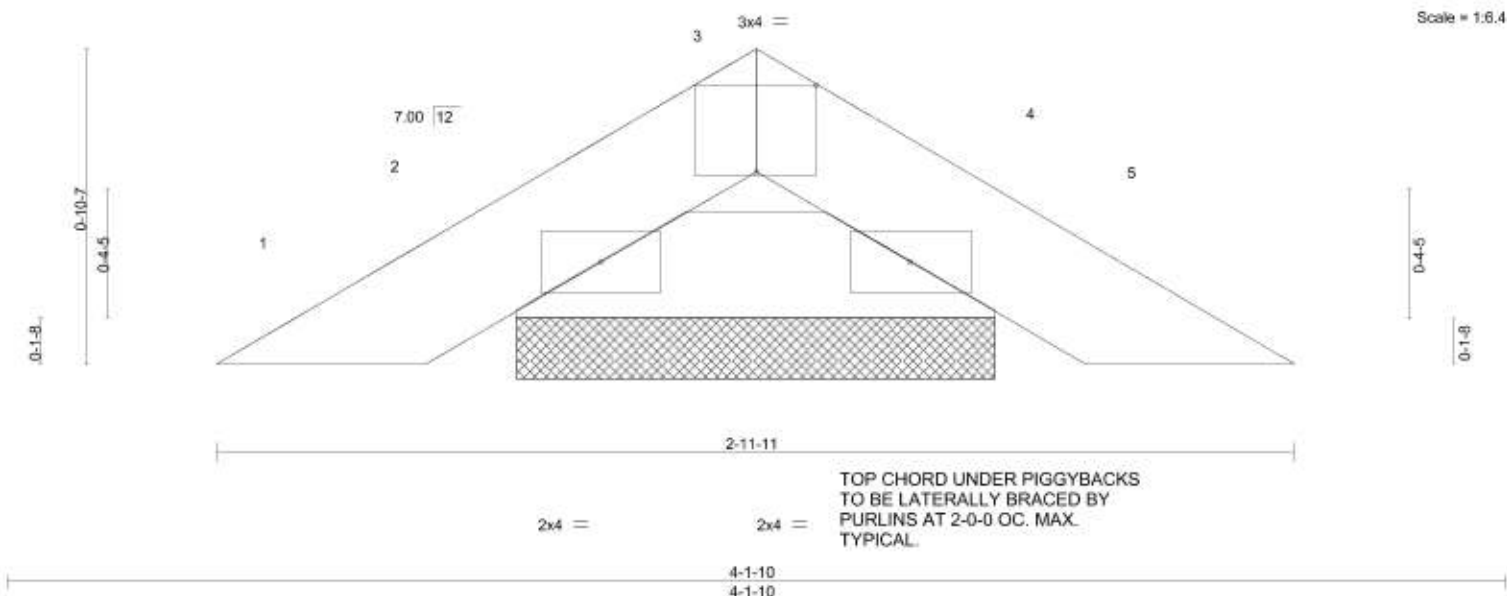
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ID:13RGRpA11Klnmp9UuwaavYzOWWI-fh7JUX1k88ky2dnwxsOqaGsEroz/GGV3OxGiqaz9joM

2-0-13  
2-0-13

4-1-10  
2-0-13

Scale = 1:6.4



TOP CHORD UNDER PIGGYBACKS  
TO BE LATERALLY BRACED BY  
PURLINS AT 2-0-0 OC. MAX.  
TYPICAL

Plate Offsets (X,Y)~ [3:0-2-0,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 0.02  | Vert(LL) | -0.00 | 4     | n/r    | 120 | MT20         | 244/190 |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.02  | Vert(CT) | -0.00 | 4     | n/r    | 120 |              |         |
| 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-P |          |       |       |        |     | Weight: 7 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 4-1-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 2=1-3-13, 4=1-3-13  
Max Horz 2=-12(LC 10)  
Max Uplift 2=-13(LC 12), 4=-13(LC 12)  
Max Grav 2=85(LC 1), 4=85(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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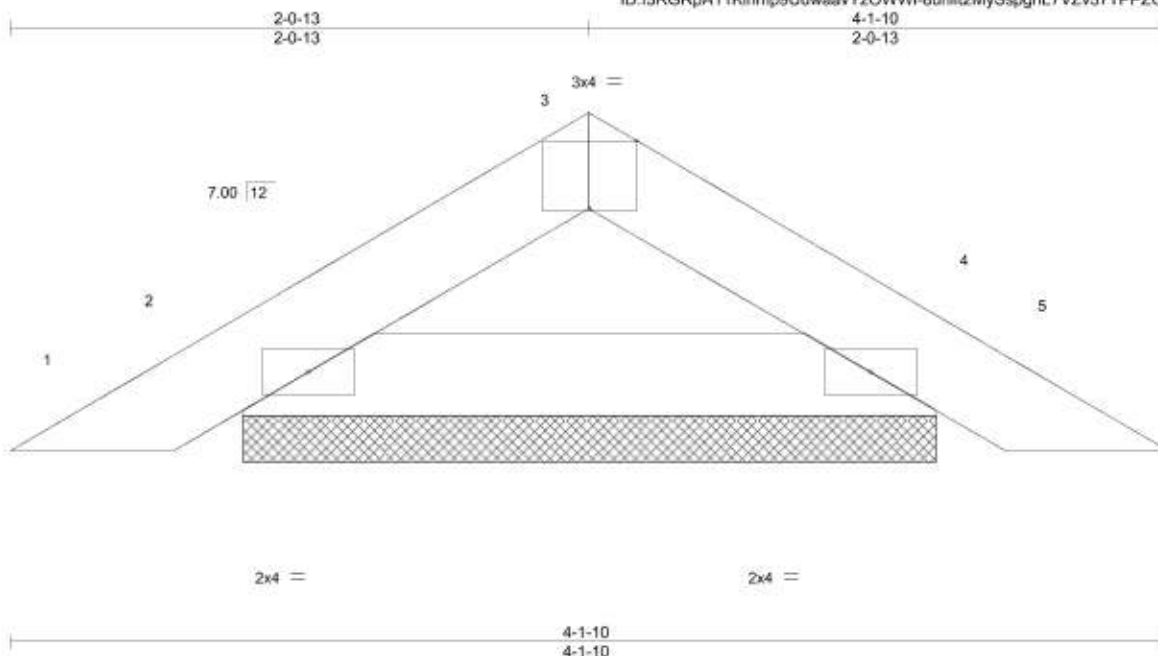


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|        |       |            |     |     |        |           |
|--------|-------|------------|-----|-----|--------|-----------|
| Job    | Truss | Truss Type | Qty | Ply | Carter | T20377895 |
| CARTER | PB2   | Piggyback  | 19  | 1   |        |           |

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|                      |       |                       |  |             |      |                                  |            |               |               |             |  |
|----------------------|-------|-----------------------|--|-------------|------|----------------------------------|------------|---------------|---------------|-------------|--|
| Plate Offsets (X,Y)~ |       | [3:0-2-0,Edge]        |  | 4-1-10      |      | 4-1-10                           |            |               |               |             |  |
| <b>LOADING</b> (psf) |       | <b>SPACING-</b> 2-0-0 |  | <b>CSI.</b> |      | <b>DEFL.</b> in (loc) l/defl L/d |            | <b>PLATES</b> |               | <b>GRIP</b> |  |
| TCLL                 | 20.0  | Plate Grip DOL 1.25   |  | TC          | 0.02 | Vert(LL)                         | 0.00 4 n/r | 120           | MT20          | 244/190     |  |
| TCDL                 | 10.0  | Lumber DOL 1.25       |  | BC          | 0.07 | Vert(CT)                         | 0.00 4 n/r | 120           |               |             |  |
| 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-P    |      |                                  |            |               | Weight: 11 lb | FT = 0%     |  |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| <b>LUMBER-</b>        | <b>BRACING-</b>                                                            |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.             |

**REACTIONS.** (size) 2=2-5-11, 4=2-5-11  
Max Horz 2=18(LC 11)  
Max Uplift 2=13(LC 12), 4=13(LC 12)  
Max Grav 2=131(LC 1), 4=131(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

June 4, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

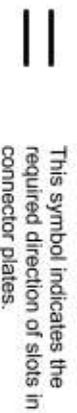
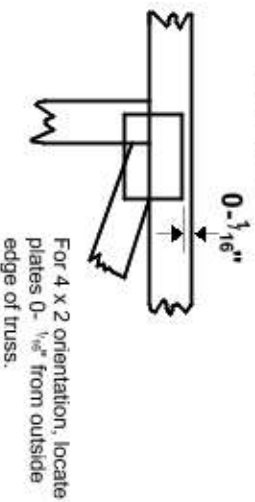
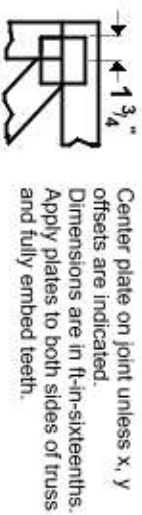


6904 Parke East Blvd.  
Tampa, FL 33610



## Symbols

### PLATE LOCATION AND ORIENTATION



\* Plate location details available in **MITek 20120** software or upon request.

### PLATE SIZE

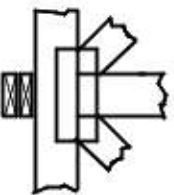
4 X 4

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

### LATERAL BRACING LOCATION



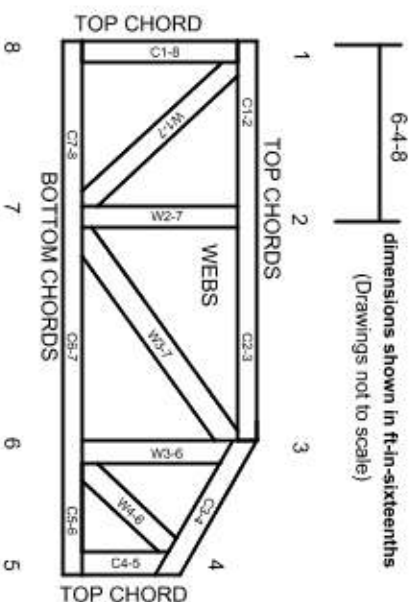
### BEARING



### Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: 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.

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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 1 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.

