

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0823-4379

Lot 112 Duncan's Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I60166939 thru I60166962

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



August 15,2023

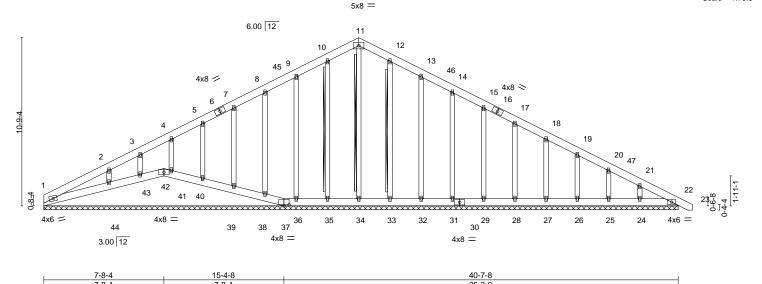
Gilbert, Eric

**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.



ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 20-2-0 40-7-8 20-2-0 20-5-8

Scale = 1:73.8



| Plate O | ffsets (X,Y) | [37:0-4-0,0-1-0] |        |       |      |          |      |       |        |     |                |          |  |
|---------|--------------|------------------|--------|-------|------|----------|------|-------|--------|-----|----------------|----------|--|
| LOADIN  | NG (psf)     | SPACING-         | 2-0-0  | CSI.  |      | DEFL.    | in   | (loc) | l/defl | L/d | PLATES         | GRIP     |  |
| TCLL    | 20.0         | Plate Grip DOL   | 1.15   | TC    | 0.07 | Vert(LL) | 0.00 | 22    | n/r    | 120 | MT20           | 244/190  |  |
| TCDL    | 10.0         | Lumber DOL       | 1.15   | BC    | 0.04 | Vert(CT) | 0.00 | 22    | n/r    | 120 |                |          |  |
| BCLL    | 0.0 *        | Rep Stress Incr  | YES    | WB    | 0.14 | Horz(CT) | 0.01 | 22    | n/a    | n/a |                |          |  |
| BCDI    | 10.0         | Code IPC2015/T   | DI201/ | Matri | v_Q  | ` '      |      |       |        |     | Moight: 240 lb | FT - 20% |  |

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.2 BRACING-

**WEBS** 

TOP CHORD **BOT CHORD** 

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 43-44. 2x4 SPF No.2 - 11-34, 10-35, 12-33 Fasten (2X) T and I braces to narrow edge of web with 10d

(0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 40-7-8.

Max Horz 1=-221(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 37, 35, 36, 38, 39, 40, 41, 43,

33, 32, 31, 29, 28, 27, 26, 25, 24 except 44=-160(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 42, 37, 34, 35, 36, 38, 39, 40, 41, 43, 33, 32, 31, 29, 28, 27, 26, 25, 24, 22 except 44=340(LC 23)

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

TOP CHORD 1-2=-267/107, 8-9=-103/305, 9-10=-125/369, 10-11=-139/404, 11-12=-139/406,

12-13=-125/370, 13-14=-103/307

WFBS 2-44=-242/333

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-2-0, Exterior(2) 4-2-0 to 20-2-0, Corner(3) 20-2-0 to 24-6-13, Exterior(2) 24-6-13 to 41-4-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 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.
- \* This truss has been designed for a live load of 30.0psf 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) 1, 37, 35, 36, 38, 39, 40, 41, 43, 33, 32, 31, 29, 28, 27, 26, 25, 24 except (jt=lb) 44=160.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 42, 38, 39, 40, 41, 43, 44, 22.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





Favetteville, NC - 28314. Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:16:51 2023 Page 1 ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

20-2-0 33-2-13 40-7-8 7-8-4 26-8-7 7-8-4 7-1-3 4-9-8 0-7-12 5-10-11 6-6-7 7-4-11 0-11-0

4x8 =

Scale = 1:76.7

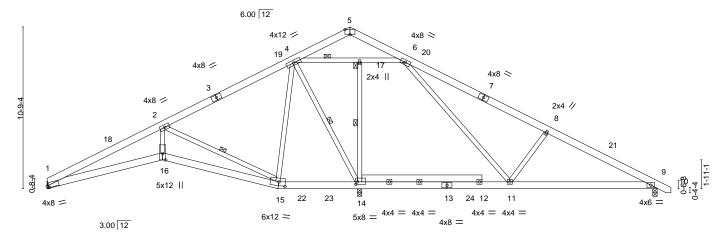
Structural wood sheathing directly applied or 3-4-9 oc purlins.

2-15, 4-14, 14-17, 4-17

Rigid ceiling directly applied or 8-7-7 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 17



|               |              | 7-8-4                            | 15-4-8             |               | 20-9-12         |                      | 30-9-12                  |              | 1          | 40-7-8         |          |
|---------------|--------------|----------------------------------|--------------------|---------------|-----------------|----------------------|--------------------------|--------------|------------|----------------|----------|
|               | '            | 7-8-4                            | 7-8-4              | 1             | 5-5-4           |                      | 10-0-0                   |              | 1          | 9-9-12         |          |
| Plate Offsets | (X,Y)        | [1:0-1-8,0-1-9], [5:0-4-0        | ),Edge], [14:0-1-8 | 3,0-2-0], [15 | 5:0-5-4,0-3-0], | [16:0-5-4,0-2-8]     |                          |              |            |                |          |
| LOADING (p    | esf)         | SPACING-                         | 2-0-0              | CSI.          |                 | DEFL.                | in (loc)                 | l/defl       | L/d        | PLATES         | GRIP     |
| TCDL 10       | 0.Ó<br>0.0   | Plate Grip DOL<br>Lumber DOL     | 1.15<br>1.15       | TC<br>BC      | 0.54<br>0.66    | Vert(LL)<br>Vert(CT) | -0.18 9-11<br>-0.35 9-11 | >999<br>>677 | 360<br>240 | MT20           | 244/190  |
|               | 0.0 *<br>0.0 | Rep Stress Incr<br>Code IRC2015/ |                    | WB<br>Mati    | 0.86<br>ix-S    | Horz(CT)<br>Wind(LL) | 0.20 9<br>0.14 9-11      | n/a<br>>999  | n/a<br>240 | Weight: 309 lb | FT = 20% |

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD WEBS** 2x4 SP No.2

REACTIONS. (size) 1=Mechanical, 14=0-3-8, 9=0-3-8

Max Horz 1=-140(LC 8)

Max Uplift 1=-104(LC 13), 14=-54(LC 12), 9=-212(LC 13) Max Grav 1=1254(LC 1), 14=1101(LC 25), 9=1325(LC 24)

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

1-2=-3986/1038, 2-4=-1533/571, 6-8=-2012/619, 8-9=-2259/607 TOP CHORD

**BOT CHORD**  $1 - 16 = -834/3574, \ 15 - 16 = -832/3568, \ 14 - 15 = -220/1254, \ 11 - 14 = -241/1224, \ 9 - 11 = -455/1965$ **WEBS** 

2-16=-306/1873, 2-15=-2435/651, 4-14=-581/235, 6-11=-117/747, 8-11=-524/294,

4-17=-1234/602, 6-17=-1234/602, 4-15=-6/385

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 20-2-0, Exterior(2) 20-2-0 to 24-6-13, Interior(1) 24-6-13 to 41-4-10 zone; 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.
- \* This truss has been designed for a live load of 30.0psf 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) 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) 14 except (jt=lb) 1=104, 9=212.



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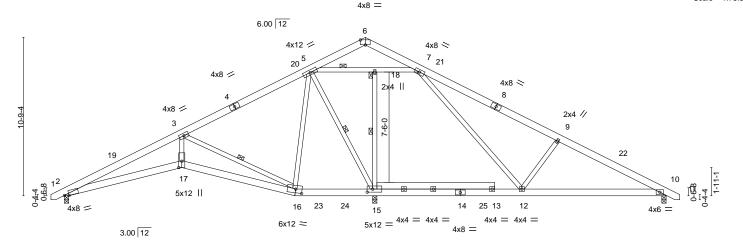
818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166941 **ROOF SPECIAL** J0823-4379 A03 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:16:53 2023 Page 1 ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 3<u>3-6-5</u> -0-11<sub>-</sub>0 0-11-0 7-11-12 8-10-12 0-11-0 40-11-0 15-8-0 20-5-8 0-11-0 7-11-12 6-9-4 4-9-8 6-6-7 6-6-7 7-4-11

Scale = 1:78.3



| <b>⊢</b>   | 7-11-12<br>7-11-12  | 15-8<br>7-8-                           | -  | 21-1-4<br>5-5-4            | +   | 31-1-4<br>10-0-0                                    |                                       | +                               | 40-11-0<br>9-9-12                | $\dashv$                     |
|--|---|--|----|----------------------------|---|---|---------------------------------------|---------------------------------|----------------------------------|------------------------------|
| Plate Offsets (X,Y)                                    | [2:0-3-10,0-0-15], [6:0-4-  |  |    |                            | :0-5-4,0-2-8  |   |                                       |                                 | 9-9-12                           |                              |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2015/T | 2-0-0<br>1.15<br>1.15<br>YES<br>PI2014 | ВС | 0.55<br>0.67<br>0.89<br>-S | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Wind(LL) | in (loc) -0.18 10-12 -0.36 10-12 0.21 10 0.14 10-12 | l/defl<br>>999<br>>664<br>n/a<br>>999 | L/d<br>360<br>240<br>n/a<br>240 | PLATES<br>MT20<br>Weight: 313 lb | <b>GRIP</b> 244/190 FT = 20% |

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD WEBS** 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=0-3-8

Max Horz 2=-138(LC 10)

Max Uplift 2=-104(LC 13), 15=-56(LC 12), 10=-212(LC 13) Max Grav 2=1307(LC 1), 15=1119(LC 25), 10=1319(LC 24)

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

TOP CHORD 2-3=-4051/1017, 3-5=-1527/566, 7-9=-2000/617, 9-10=-2247/605

**BOT CHORD** 2-17=-811/3622, 16-17=-808/3615, 15-16=-217/1248, 12-15=-239/1213, 10-12=-453/1954 **WEBS** 

3-17=-295/1901, 3-16=-2492/628, 5-15=-595/222, 7-12=-116/745, 9-12=-526/294,

5-16=-3/394, 5-18=-1225/602, 7-18=-1224/602

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 20-5-8, Exterior(2) 20-5-8 to 24-10-5, Interior(1) 24-10-5 to 41-8-2 zone; 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.
- \* This truss has been designed for a live load of 30.0psf 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) Bearing at joint(s) 2 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) 15 except (jt=lb) 2=104, 10=212.



Structural wood sheathing directly applied or 3-4-11 oc purlins.

3-16, 5-15, 15-18, 5-18

Rigid ceiling directly applied or 8-8-9 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 18

August 15,2023





20-5-8

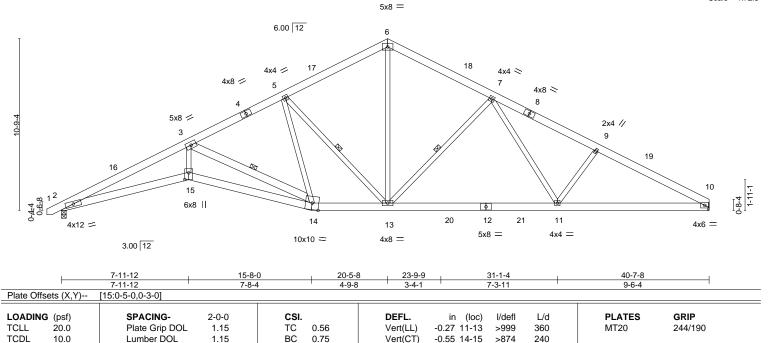
4-9-8

15-8-0

1-8-15

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Scale = 1:72.3



Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

0.27

0.20 14-15

10

n/a

>999

n/a

240

Rigid ceiling directly applied or 8-9-0 oc bracing.

Structural wood sheathing directly applied or 2-8-13 oc purlins.

3-14, 5-13, 7-13

Weight: 297 lb

FT = 20%

LUMBER-

REACTIONS.

**BCLL** 

**BCDL** 

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **WEBS** 2x4 SP No.2 \*Except\*

0.0

10.0

3-14: 2x6 SP No.1

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

Max Horz 2=140(LC 9)

7-11-12

7-11-12

8-6-13 0-7-1

5-4-4

-0-11-0 0-11-0

Max Uplift 2=-111(LC 12), 10=-97(LC 13) Max Grav 2=1672(LC 1), 10=1616(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 2-3=-5509/997, 3-5=-2343/562, 5-6=-1900/531, 6-7=-1897/537, 7-9=-2744/636,

9-10=-2960/631

**BOT CHORD** 2-15=-800/4949, 14-15=-797/4939, 13-14=-278/2148, 11-13=-291/2088, 10-11=-454/2554 **WEBS**  $3-15=-290/2532,\ 3-14=-3080/578,\ 5-13=-787/244,\ 6-13=-256/1264,\ 7-13=-714/268,$ 

YES

7-11=-77/664, 9-11=-329/239, 5-14=-21/419

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 20-5-8, Exterior(2) 20-5-8 to 24-10-5, Interior(1) 24-10-5 to 40-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-S

0.62

- 3) 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 30.0psf 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) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 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) 10 except (jt=lb) 2=111.



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

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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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166943 ROOF SPECIAL SUPPORT J0823-4379 A05GF Job Reference (optional)

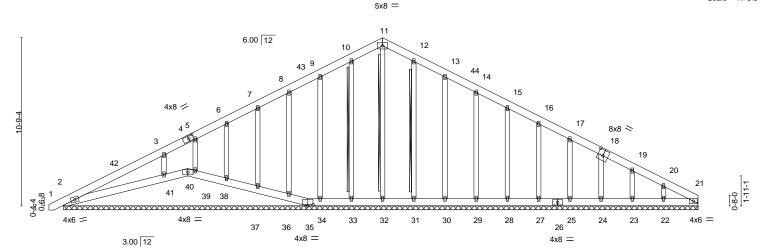
Fayetteville, NC - 28314, Comtech, Inc.

> 20-5-8 20-5-8

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:16:56 2023 Page 1 ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 40-8-0

20-2-8

Scale = 1:73.8



| i                   | 7-11-12                    | 15-8-0                       | 40-8-0 |  |
|---------------------|----------------------------|------------------------------|--------|--|
|                     | 7-11-12                    | 7-8-4                        | 25-0-0 |  |
| Plate Offsets (X,Y) | · [4:0-3-8.0-2-0], [18:0-4 | 4-0.0-4-8]. [35:0-4-0.0-1-0] |        |  |

| LOADING      | i (psf)       | SPACING-                      | 2-0-0       | CSI.     |              | DEFL.    | in    | (loc)        | I/defl | L/d | PLATES         | GRIP     |
|--------------|---------------|-------------------------------|-------------|----------|--------------|----------|-------|--------------|--------|-----|----------------|----------|
| TCLL         | 20.0          | Plate Grip DOL                | 1.15        | TC       | 0.16         | Vert(LL) | -0.00 | 1            | n/r    | 120 | MT20           | 244/190  |
| TCDL         | 10.0          | Lumber DOL                    | 1.15        | BC       | 0.11         | Vert(CT) | 0.01  | 1            | n/r    | 120 |                |          |
| BCLL         | 0.0 *         | Rep Stress Incr               | YES         | WB       | 0.14         | Horz(CT) | 0.01  | 21           | n/a    | n/a |                |          |
| BCDL         | 10.0          | Code IRC2015/TI               | PI2014      | Matri    | x-S          |          |       |              |        |     | Weight: 339 lb | FT = 20% |
| TCDL<br>BCLL | 10.0<br>0.0 * | Lumber DOL<br>Rep Stress Incr | 1.15<br>YES | BC<br>WB | 0.11<br>0.14 | Vert(CT) | 0.01  | 1<br>1<br>21 | n/r    | 120 |                |          |

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD** 

**WEBS** 

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 40-41,39-40.

2x4 SPF No.2 - 11-32, 10-33, 12-31 Fasten (2X) T and I braces to narrow edge of web with 10d

(0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 40-8-0.

Max Horz 2=221(LC 12) (lb) -

 $\label{eq:max-point} \text{Max Uplift} \quad \text{All uplift 100 lb or less at } joint(s) \ 2, \ 35, \ 33, \ 34, \ 36, \ 37, \ 38, \ 31, \ 30, \\$ 29, 28, 27, 25, 24, 23 except 40=-181(LC 3), 41=-244(LC 12), 22=-101(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 40, 35, 32, 33, 34, 36, 37, 38, 39, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21 except 2=261(LC 1), 41=583(LC 23)

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

TOP CHORD 8-9=-101/297, 9-10=-123/361, 10-11=-137/397, 11-12=-137/399, 12-13=-123/363,

13-14=-101/300 3-41=-391/411

### WFBS NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 20-5-8, Corner(3) 20-5-8 to 24-10-5, Exterior(2) 24-10-5 to 40-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 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.
- \* This truss has been designed for a live load of 30.0psf 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, 35, 33, 34, 36, 37, 38, 31, 30, 29, 28, 27, 25, 24, 23 except (jt=lb) 40=181, 41=244, 22=101.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 40, 36, 37, 38, 39, 41.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



August 15,2023

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Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166944 B01GF **GABLE** J0823-4379 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:16:58 2023 Page 1 ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-11-0 5-1<sub>1</sub>12 0-1-12 5-0-0 9-11-8 19-11-0 20-10<sub>1</sub>0 5-0-0 4-9-12 2-6-0 2-3-12 5-1-12

> Scale = 1:65.8 5x5 =

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

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

1 Brace at Jt(s): 6

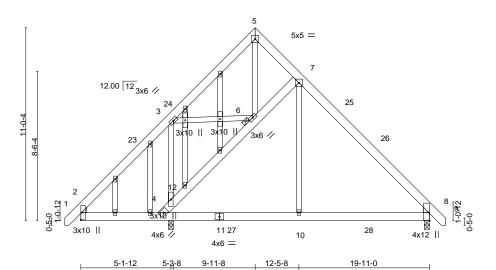


Plate Offsets (X,Y)--[8:Edge,0-0-8] LOADING (psf) SPACING-DEFL. **PLATES** GRIP CSI. (loc) I/def L/d 244/190 **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.48 Vert(LL) -0.03 8-10 >999 360 MT20 TCDL Lumber DOL вс Vert(CT) 10.0 1.15 0.57 -0.06 8-10 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.20 Horz(CT) 0.00 8 n/a n/a Code IRC2015/TPI2014 8-10 Weight: 200 lb FT = 20%**BCDL** 10.0 Matrix-S Wind(LL) 0.03 >999 240

BRACING-

TOP CHORD

**BOT CHORD** 

**JOINTS** 

LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD WEBS** 2x4 SP No.2 **OTHERS** 2x4 SP No.2

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. (size) 8=0-3-8, 12=0-3-8

Max Horz 12=-322(LC 10) Max Uplift 8=-98(LC 13), 12=-193(LC 12) Max Grav 8=675(LC 19), 12=1175(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-304/429, 7-8=-673/152, 4-12=-1022/540, 4-6=-924/240, 6-7=-661/344

**BOT CHORD** 2-12=-260/316, 10-12=-18/435, 8-10=-18/435 **WEBS** 5-6=-251/34, 7-10=0/537, 3-4=-529/349

### NOTES-

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-11-8, Exterior(2) 9-11-8 to 14-4-5, Interior(1) 14-4-5 to 20-8-10 zone; cantilever left 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.
- All plates are 2x4 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.
- \* This truss has been designed for a live load of 30.0psf 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) Solid blocking is required on both sides of the truss at joint(s), 12.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 12=193
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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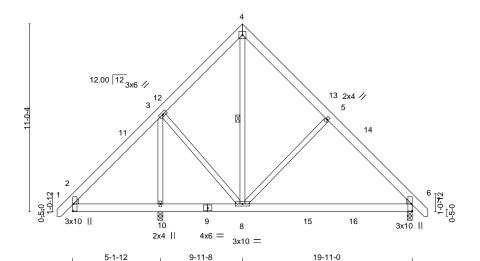


Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166945 B02 COMMON J0823-4379 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:16:59 2023 Page 1 ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 5-0-0 9-11-8 19-11-0 2Q-10<sub>T</sub>0 5-0-0 4-11-8 4-11-8 5-0-0

> Scale = 1:67.6 5x5 =



Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

0.00

0.01

6

1 Row at midpt

6-8

n/a

>999

n/a

240

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

LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d 20.0 Plate Grip DOL TC -0.08 1.15 0.16 Vert(LL) 6-8 >999 360 10.0 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.14 6-8 >999 240

0.52

WB

Matrix-S

9-11-8

5-1-12

YES

Weight: 164 lb FT = 20%

GRIP

244/190

**PLATES** 

MT20

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

4-8

LUMBER-

**TCLL** 

**TCDL** 

**BCLL** 

**BCDL** 

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2

0.0

10.0

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. (size) 10=0-3-8, 6=0-3-8 Max Horz 10=258(LC 11)

Max Uplift 10=-46(LC 12), 6=-24(LC 13)

Max Grav 10=1134(LC 1), 6=585(LC 19)

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 2-3=-290/414, 3-4=-401/148, 4-5=-395/156, 5-6=-500/98 **BOT CHORD** 2-10=-256/310, 8-10=-326/304, 6-8=0/329

**WEBS** 3-10=-1023/474, 3-8=-52/547, 4-8=-93/265, 5-8=-373/271

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 9-11-8, Exterior(2) 9-11-8 to 14-4-5, Interior(1) 14-4-5 to 20-8-10 zone; cantilever left 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.
- \* This truss has been designed for a live load of 30.0psf 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) 10, 6.



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

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Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166946 COMMON GIRDER J0823-4379 B03-GR 3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:17:01 2023 Page 1 ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-0-0 9-11-8 5-0-0 4-11-8 4-11-8 5-0-0

> Scale = 1:67.6 5x5 =

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

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

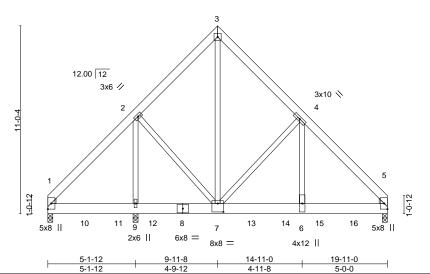


Plate Offsets (X,Y)-- [7:0-4-0,0-6-0] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. I/def L/d (loc) 244/190 **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.30 Vert(LL) -0.03 6-7 >999 360 MT20 TCDL Lumber DOL вс Vert(CT) 10.0 1.15 0.23 -0.06 6-7 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.35 Horz(CT) 0.01 5 n/a n/a Code IRC2015/TPI2014 6-7 Weight: 540 lb FT = 20%**BCDL** 10.0 Matrix-S Wind(LL) 0.02 >999 240

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x8 SP 2400F 2.0E **WEBS** 2x4 SP No.2

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. (size) 9=0-3-8, 1=0-3-8, 5=0-3-8

Max Horz 1=-249(LC 6)

Max Uplift 9=-686(LC 8), 1=-49(LC 4), 5=-348(LC 9) Max Grav 9=9195(LC 1), 1=1127(LC 1), 5=5613(LC 1)

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

TOP CHORD 1-2=-307/80, 2-3=-2968/324, 3-4=-2959/303, 4-5=-6053/410

BOT CHORD 6-7=-208/4006, 5-6=-208/3993

**WEBS** 2-9=-4367/410, 2-7=-195/2909, 3-7=-344/3747, 4-7=-2938/364, 4-6=-235/4287

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 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.
- Unbalanced roof live loads have been considered for this design
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left 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.
- \* This truss has been designed for a live load of 30.0psf 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) 1 except (jt=lb) 9=686, 5=348,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1596 lb down and 117 lb up at 2-0-12, 1596 lb down and 117 lb up at 4-0-12, 1596 lb down and 117 lb up at 6-0-12, 1596 lb down and 117 lb up at 8-0-12, 1596 lb down and 117 lb up at 9-10-4, 1596 lb down and 117 lb up at 11-10-4, 1596 lb down and 117 lb up at 13-10-4, and 1596 lb down and 117 lb up at 15-10-4, and 1596 lb down and 117 lb up at 17-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



August 15,2023

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Lot 112 Duncan's Creek Job Truss Truss Type Qty Ply 160166946 COMMON GIRDER J0823-4379 B03-GR

Comtech, Inc, Fayetteville, NC - 28314,

### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)

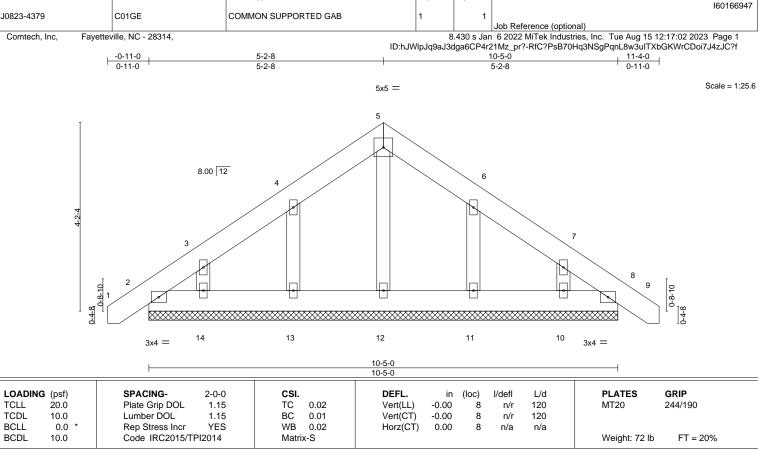
Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 8=-1596(B) 7=-1596(B) 10=-1596(B) 11=-1596(B) 12=-1596(B) 13=-1596(B) 14=-1596(B) 15=-1596(B) 16=-1596(B)



818 Soundside Road Edenton, NC 27932



Qty

Ply

Lot 112 Duncan's Creek

LUMBER-

Job

Truss

Truss Type

2x6 SP No.1 TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 OTHERS

**BRACING-**

TOP CHORD **BOT CHORD** 

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

REACTIONS. All bearings 10-5-0.

(lb) -Max Horz 2=-120(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-7 to 3-7-6, Exterior(2) 3-7-6 to 5-2-8, Corner(3) 5-2-8 to 9-7-5, Exterior(2) 9-7-5 to 11-2-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 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.
- \* This truss has been designed for a live load of 30.0psf 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, 8, 13, 14, 11,
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.

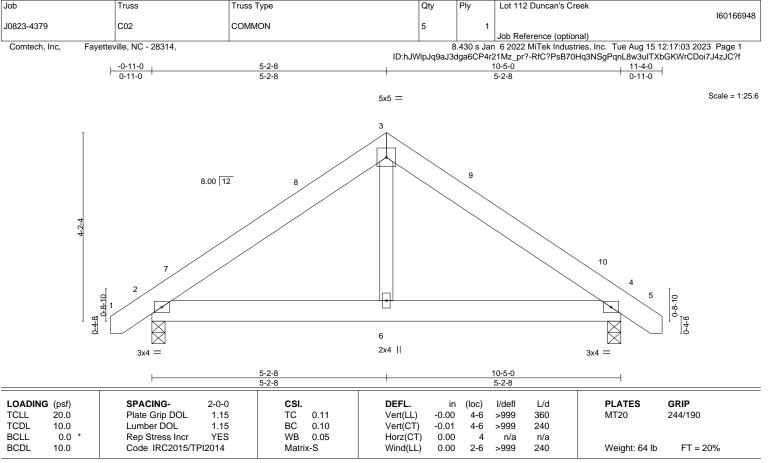


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**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

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

Max Horz 2=-96(LC 10)

Max Uplift 2=-34(LC 12), 4=-34(LC 13) Max Grav 2=461(LC 1), 4=461(LC 1)

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

TOP CHORD 2-3=-474/134, 3-4=-474/134 BOT CHORD 2-6=0/317, 4-6=0/317

### NOTES-

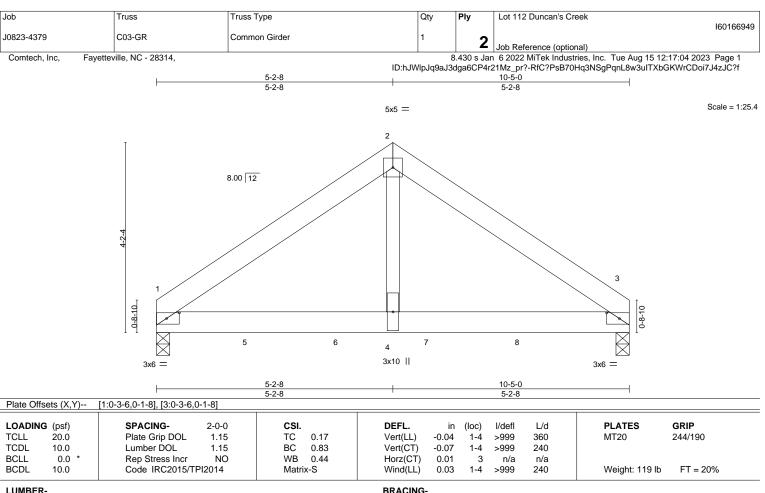
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 5-2-8, Exterior(2) 5-2-8 to 9-7-5, Interior(1) 9-7-5 to 11-2-7 zone; 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.
- 4) \* This truss has been designed for a live load of 30.0psf 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.



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

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





TOP CHORD

**BOT CHORD** 

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD WEBS** 2x4 SP No.2

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

Max Horz 1=-88(LC 23)

Max Uplift 1=-349(LC 8), 3=-357(LC 9) Max Grav 1=3076(LC 1), 3=3953(LC 1)

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

1-2=-3456/336, 2-3=-3460/336 TOP CHORD BOT CHORD 1-4=-224/2772, 3-4=-224/2772

**WEBS** 2-4=-274/3589

### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 195 lb down and 94 lb up at 0-1-12, 1203 lb down and 124 lb up at 2-0-12, 1203 lb down and 124 lb up at 4-0-12, 1203 lb down and 124 lb up at 6-0-12, and 1203 lb down and 124 lb up at 8-0-12, and 1211 lb down and 116 lb up at 10-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-2=-60, 2-3=-60, 1-3=-20

Continued on page 2



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

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

Lot 112 Duncan's Creek Job Truss Type Truss Qty Ply 160166949 J0823-4379 C03-GR Common Girder

Fayetteville, NC - 28314, Comtech, Inc,

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-195 3=-1211(F) 5=-1203(F) 6=-1203(F) 7=-1203(F) 8=-1203(F)

Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166950 D01GE COMMON SUPPORTED GAB J0823-4379 Job Reference (optional)

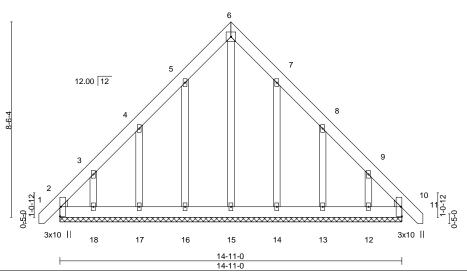
Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:17:06 2023 Page 1 ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-5-8 1<sub>1</sub>5-10-ρ 7-5-8 7-5-8

> Scale = 1:50.3 5x5 =

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

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



| LOADING (psf)<br>TCLL 20.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15 | <b>CSI.</b><br>TC 0.03 | <b>DEFL.</b> in (loc) I/defl L/d<br>Vert(LL) -0.00 10 n/r 120 | PLATES GRIP<br>MT20 244/190 |
|----------------------------|---------------------------------------|------------------------|---|-----------------------------|
| TCDL 10.0                  | Lumber DOL 1.15                       | BC 0.03                | Vert(CT) -0.00 10 n/r 120                                     |                             |
| BCLL 0.0 *                 | Rep Stress Incr YES                   | WB 0.15                | Horz(CT) 0.00 10 n/a n/a                                      |                             |
| BCDL 10.0                  | Code IRC2015/TPI2014                  | Matrix-S               |   | Weight: 135 lb FT = 20%     |

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 **OTHERS** 

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. All bearings 14-11-0.

Max Horz 2=-248(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 16=-119(LC 12), 17=-153(LC 12), 18=-200(LC 12),

14=-114(LC 13), 13=-155(LC 13), 12=-192(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-335/203, 9-10=-298/191

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-10 to 3-5-5, Exterior(2) 3-5-5 to 7-5-8, Corner(3) 7-5-8 to 11-10-5, Exterior(2) 11-10-5 to 15-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 16=119, 17=153, 18=200, 14=114, 13=155, 12=192.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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

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Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166951 VR1 J0823-4379 Valley Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:17:07 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-5-4 Scale = 1:57.2 12.00 12 5 3 9-0-0 3x4 // 3x4 12 10 9 11 8 3x4 = 18-10-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP Plate Grip DOL Vert(LL) MT20 244/190 **TCLL** 20.0 1.15 TC 0.16 n/a n/a 999 **TCDL** 10.0 Lumber DOL 1.15 BC 0.19 Vert(CT) n/a n/a 999 **BCLL** WB 0.18 Horz(CT) 0.0 Rep Stress Incr YES 0.00 n/a n/a

LUMBER-

**BCDL** 

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

10.0

BRACING-

TOP CHORD **BOT CHORD WEBS** 

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

Weight: 96 lb

FT = 20%

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 4-11

REACTIONS. All bearings 18-9-12.

(lb) -Max Horz 1=218(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-149(LC 10), 7=-113(LC 11), 12=-185(LC 12),

13=-134(LC 12), 9=-184(LC 13), 8=-135(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=432(LC 22), 12=490(LC 19), 13=284(LC 19),

Matrix-S

9=489(LC 20), 8=284(LC 20)

Code IRC2015/TPI2014

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

TOP CHORD 1-2=-275/239. 6-7=-278/239

**WEBS** 3-12=-405/313, 2-13=-318/272, 5-9=-405/309, 6-8=-318/273

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-5-4, Exterior(2) 9-5-4 to 13-10-1, Interior(1) 13-10-1 to 18-6-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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 149 lb uplift at joint 1, 113 lb uplift at joint 7, 185 lb uplift at joint 12, 134 lb uplift at joint 13, 184 lb uplift at joint 9 and 135 lb uplift at joint 8.



August 15,2023

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Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166952 VB2 J0823-4379 Valley Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:17:08 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 8-5-4 Scale = 1:52.7 12 12.00 12 2x4 || 2x4 II 2 13

|                         | 0-0-6                                       |                        | 16-10-2               | 2.4 11                       |            |                             |
|-------------------------|---|------------------------|-----------------------|------------------------------|------------|-----------------------------|
| LOADING (psf) TCLL 20.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15       | <b>CSI.</b><br>TC 0.19 | <b>DEFL.</b> Vert(LL) | in (loc) I/defl<br>n/a - n/a | L/d<br>999 | PLATES GRIP<br>MT20 244/190 |
| TCDL 10.0               | Lumber DOL 1.15                             | BC 0.18                | Vert(CT)              | n/a - n/a                    | 999        | W120 244/190                |
| BCLL 0.0 *<br>BCDL 10.0 | Rep Stress Incr YES<br>Code IRC2015/TPI2014 | WB 0.16<br>Matrix-S    | Horz(CT)              | 0.00 5 n/a                   | n/a        | Weight: 82 lb FT = 20%      |

8

2x4 || 16-10-8

LUMBER-

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

**BRACING-**

7 6 3x4 =

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.

3x4 🚿

REACTIONS. All bearings 16-9-12.

(lb) -Max Horz 1=-194(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-203(LC 12), 6=-203(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=416(LC 22), 9=527(LC 19), 6=527(LC 20)

2x4 ||

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

3x4 //

0-0-6

**WEBS** 2-9=-437/327, 4-6=-437/327

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 8-5-4, Exterior(2) 8-5-4 to 12-10-1, Interior(1) 12-10-1 to 16-6-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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) 1 except (jt=lb) 9=203, 6=203.





Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166953 J0823-4379 VB3 Valley Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:17:09 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-5-4 7-5-4 Scale = 1:45.4 12.00 12 2x4 || 2x4 || 12 <del>.</del> 3x4 📏 3x4 // 8 13 7 14 6 2x4 || 2x4 || 2x4 || 14-10-2 14-10-8 0-0-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** Plate Grip DOL TC Vert(LL) MT20 244/190 20.0 1.15 0.15 n/a n/a 999 **TCDL** 10.0 Lumber DOL 1.15 BC 0.18 Vert(CT) n/a n/a 999 **BCLL** WB 0.12 Horz(CT) 0.0 Rep Stress Incr YES 0.00 5 n/a n/a

LUMBER-

**BCDL** 

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

10.0

**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.

Weight: 71 lb

FT = 20%

REACTIONS. All bearings 14-9-12.

Max Horz 1=-170(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-178(LC 12), 6=-178(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=411(LC 22), 8=440(LC 19), 6=440(LC 20)

Matrix-S

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

Code IRC2015/TPI2014

**WEBS** 2-8=-387/301, 4-6=-387/301

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-5-4, Exterior(2) 7-5-4 to 11-10-1, Interior(1) 11-10-1 to 14-6-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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) 1, 5 except (jt=lb) 8=178, 6=178.





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Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166954 VB4 J0823-4379 Valley Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:17:10 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-5-4 6-5-4 Scale = 1:39.6 12.00 12 2x4 II 2x4 ||

|               | 0-0-6                |          | 12-10-2         |           |                        |
|---------------|----------------------|----------|-----------------|-----------|------------------------|
| LOADING (psf) | SPACING- 2-0-0       | CSI.     | <b>DEFL.</b> in | ( /       | PLATES GRIP            |
| TCLL 20.0     | Plate Grip DOL 1.15  | TC 0.14  | Vert(LL) n/a    | - n/a 999 | MT20 244/190           |
| TCDL 10.0     | Lumber DOL 1.15      | BC 0.15  | Vert(CT) n/a    | - n/a 999 |                        |
| BCLL 0.0 *    | Rep Stress Incr YES  | WB 0.09  | Horz(CT) 0.00   | 5 n/a n/a |                        |
| BCDL 10.0     | Code IRC2015/TPI2014 | Matrix-S |                 |           | Weight: 59 lb FT = 20% |

7

2x4 ||

12-10-8

LUMBER-

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

**BRACING-**

14

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.

3x4 📏

12

6

2x4 ||

REACTIONS. All bearings 12-9-12.

Max Horz 1=146(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-162(LC 12), 6=-162(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=381(LC 19), 8=370(LC 19), 6=370(LC 20)

8

2x4 ||

13

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

3x4 //

0-9-6

**WEBS** 2-8=-357/290, 4-6=-357/290

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-5-4, Exterior(2) 6-5-4 to 10-10-1, Interior(1) 10-10-1 to 12-6-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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) 1, 5 except (jt=lb) 8=162, 6=162.





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Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166955 VB5 J0823-4379 Valley Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:17:12 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-5-4 5-5-4 Scale = 1:34.0 3 11 12.00 12 2x4 || 2x4 || 12 7 6 8 2x4 || 2x4 || 2x4 ||

| LOADIN | G (psf) | SPACING-        | 2-0-0 | CSI.  |      | DEFL.    | in   | (loc) | l/defl | L/d | PLATES        | GRIP     |
|--------|---------|-----------------|-------|-------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL   | 20.0    | Plate Grip DOL  | 1.15  | TC    | 0.15 | Vert(LL) | n/a  | -     | n/a    | 999 | MT20          | 244/190  |
| TCDL   | 10.0    | Lumber DOL      | 1.15  | BC    | 0.09 | Vert(CT) | n/a  | -     | n/a    | 999 |               |          |
| BCLL   | 0.0 *   | Rep Stress Incr | YES   | WB    | 0.06 | Horz(CT) | 0.00 | 5     | n/a    | n/a |               |          |
| BCDL   | 10.0    | Code IRC2015/TP | 12014 | Matri | x-S  |          |      |       |        |     | Weight: 47 lb | FT = 20% |

10-10-8 10-10-2

### LUMBER-

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

### **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 10-9-12.

Max Horz 1=122(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-106(LC 10), 8=-170(LC 12), 6=-170(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=354(LC 19), 6=354(LC 20)

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

0-0-6 0-0-6

**WEBS** 2-8=-383/327, 4-6=-383/327

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-5-4, Exterior(2) 5-5-4 to 9-10-1, Interior(1) 9-10-1 to 10-6-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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) 5 except (jt=lb) 1=106, 8=170, 6=170.



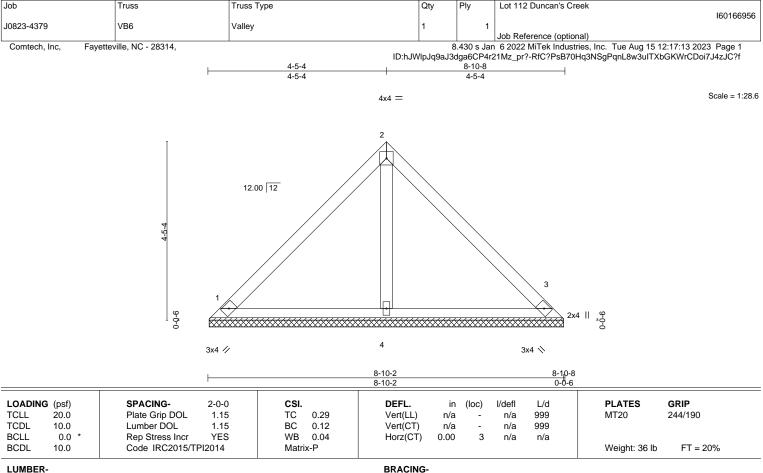




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TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. 1=8-9-12, 3=8-9-12, 4=8-9-12 (size)

Max Horz 1=98(LC 9)

Max Uplift 1=-35(LC 13), 3=-35(LC 13)

Max Grav 1=199(LC 1), 3=199(LC 1), 4=256(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf 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) 1, 3.



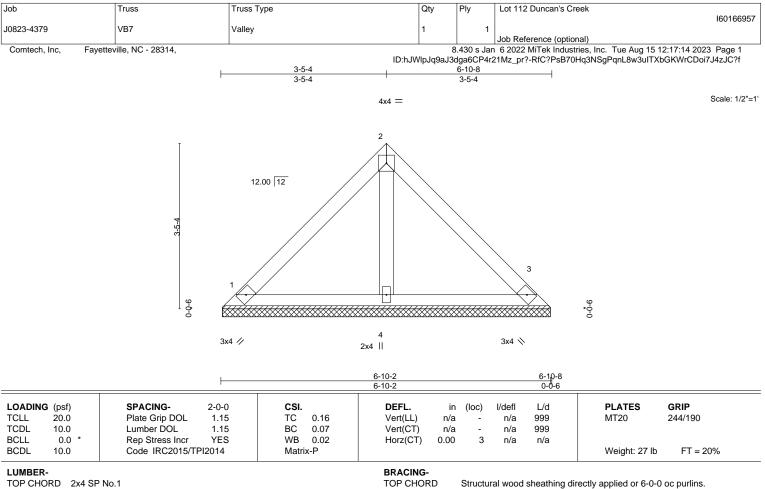
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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

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**BOT CHORD** 

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

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

REACTIONS. 1=6-9-12, 3=6-9-12, 4=6-9-12 (size)

Max Horz 1=-74(LC 8)

Max Uplift 1=-27(LC 13), 3=-27(LC 13)

Max Grav 1=150(LC 1), 3=150(LC 1), 4=193(LC 1)

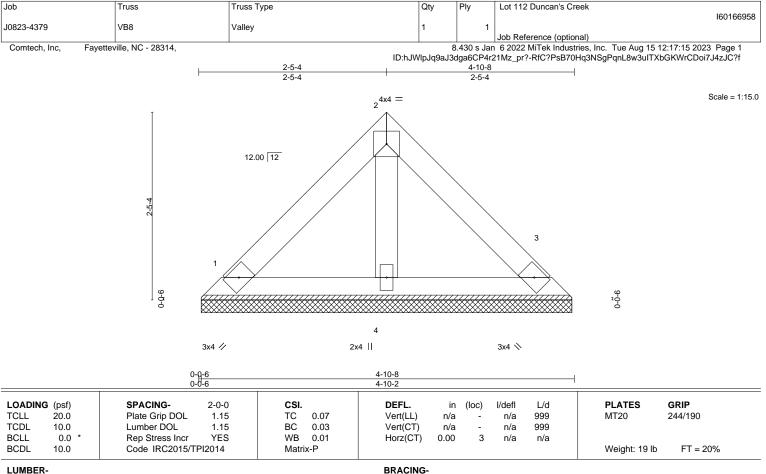
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf 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) 1, 3.







TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. 1=4-9-12, 3=4-9-12, 4=4-9-12 (size)

Max Horz 1=-50(LC 8)

Max Uplift 1=-18(LC 13), 3=-18(LC 13)

Max Grav 1=102(LC 1), 3=102(LC 1), 4=131(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf 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) 1, 3.



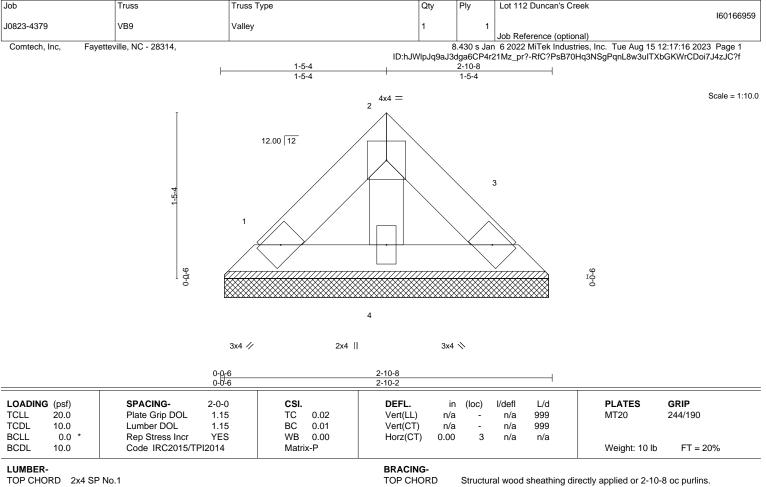
Structural wood sheathing directly applied or 4-10-8 oc purlins.

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

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**BOT CHORD** 

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

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

REACTIONS. 1=2-9-12, 3=2-9-12, 4=2-9-12 (size)

Max Horz 1=26(LC 9)

Max Uplift 1=-9(LC 13), 3=-9(LC 13)

Max Grav 1=53(LC 1), 3=53(LC 1), 4=68(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf 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) 1, 3.

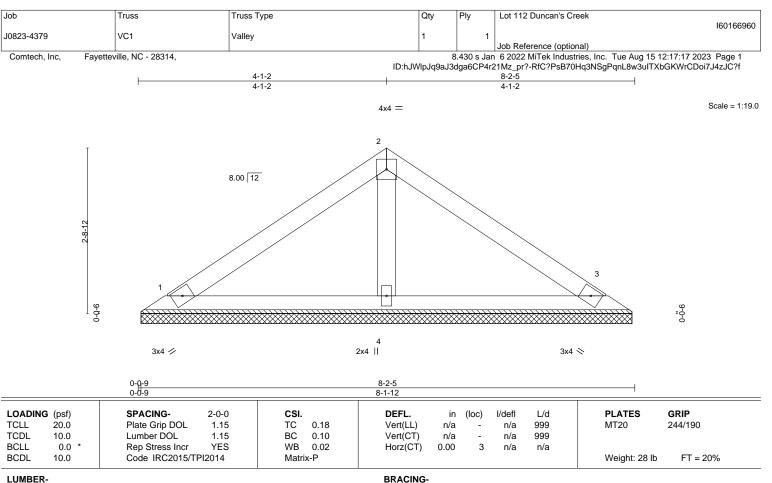


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TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 1=8-1-3, 3=8-1-3, 4=8-1-3

Max Horz 1=-58(LC 8)

Max Uplift 1=-25(LC 12), 3=-30(LC 13)

Max Grav 1=157(LC 1), 3=157(LC 1), 4=263(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf 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) 1, 3.



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

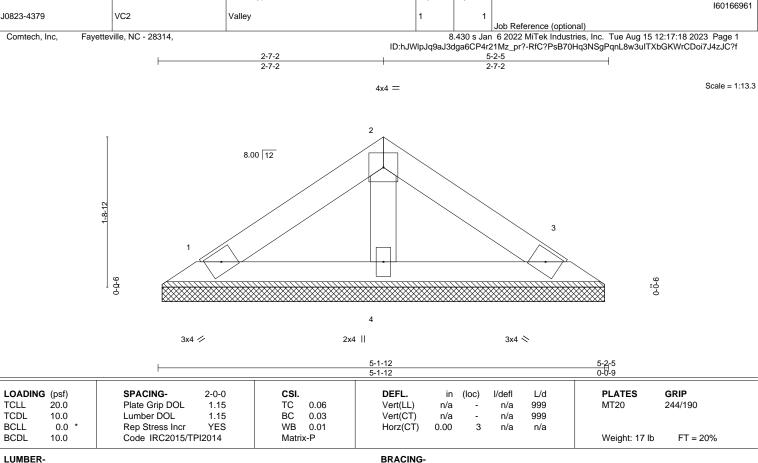
Rigid ceiling directly applied or 10-0-0 oc bracing.

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TOP CHORD

BOT CHORD

Qty

Ply

Lot 112 Duncan's Creek

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

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

Job

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

REACTIONS. (size) 1=5-1-3, 3=5-1-3, 4=5-1-3

Truss

Truss Type

Max Horz 1=34(LC 11)

Max Uplift 1=-14(LC 12), 3=-18(LC 13)

Max Grav 1=91(LC 1), 3=91(LC 1), 4=153(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf 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) 1, 3.



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Job Truss Truss Type Qty Ply Lot 112 Duncan's Creek 160166962 VC3 J0823-4379 Valley Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Aug 15 12:17:19 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:hJWlpJq9aJ3dga6CP4r21Mz\_pr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-1-2 1-1-2 1-1-2 Scale = 1:6.4 3 8.00 12 9-0-0 9-0-0 3x4 🖊 3x4 ≫ 0-0-9 2-2-5 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-DEFL. **PLATES** 2-0-0 CSI. I/defI L/d (loc) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.01 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL вс Vert(CT) 10.0 1.15 0.01 n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3

**BRACING-**

TOP CHORD

**BOT CHORD** 

n/a

n/a

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

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

LUMBER-

**BCDL** 

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

10.0

REACTIONS. (size) 1=2-1-3, 3=2-1-3 Max Horz 1=10(LC 11)

Max Uplift 1=-3(LC 12), 3=-3(LC 13) Max Grav 1=48(LC 1), 3=48(LC 1)

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

Code IRC2015/TPI2014

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-P

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf 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) 1, 3.



FT = 20%

Weight: 5 lb

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### Symbols

## PLATE LOCATION AND ORIENTATION



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



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

₹

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

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

### PLATE SIZE

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

## LATERAL BRACING LOCATION



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

### **BEARING**



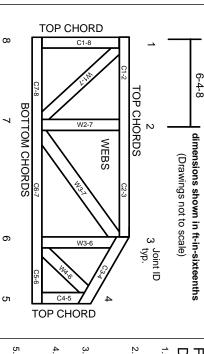
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

## Numbering System



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

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

## Product Code Approvals

ICC-ES Reports:

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

## Design General Notes

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

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

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### MiTek



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

# General Safety Notes

### Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.