

 Job
 Truss
 Truss Type
 Qty
 Ply
 10\_Southeast
 I49147390

 ORDERS
 SE-14544
 COMN
 1
 1
 1
 Job Reference (optional)

4x6 =

6-0-0

6-0-0

6-0-0

6-0-0

Matrix-S

NVR. Frederick, MD - 21703.

0-11-4

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:24 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz\_-drnYGGrXdjjPOJLLzFf6lUyAJmzsf3dn5?sstyBF8z 12-0-0 12-11-4 6-0-0 0-11-4

12-0-0

6-0-0

>999

240

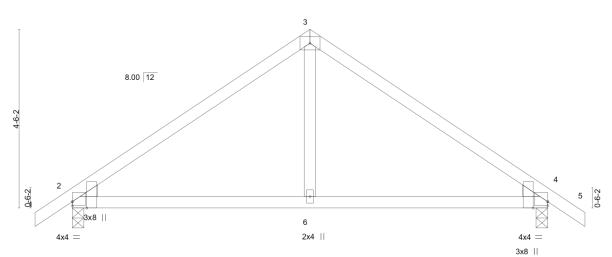
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

Weight: 50 lb

FT = 5%

Scale = 1:29.1



[2:0-0-0,0-1-3], [2:0-1-15,Edge], [4:0-0-0,0-1-3], [4:0-1-15,Edge] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES GRIP** in (loc) 20.0 Plate Grip DOL 1.15 TC 0.49 Vert(LL) -0.032-6 >999 360 197/144 TCLL MT20 TCDL 10.0 1.15 BC 0.38 -0.06 2-6 >999 240 Lumber DOL Vert(CT) **BCLL** 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.01 4 n/a n/a

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

0.03

2-6

LUMBER-

10.0

BCDL

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3 or 2x4 SPF Stud

WEDGE

Left: 2x4 SP or SPF No.3 or Stud , Right: 2x4 SP or SPF No.3 or Stud

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

Max Horz 2=118(LC 9)

Max Uplift 2=-79(LC 10), 4=-79(LC 11) Max Grav 2=533(LC 1), 4=533(LC 1)

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

Code IBC2021/TPI2014

TOP CHORD 2-3=-558/86, 3-4=-558/86 BOT CHORD 2-6=-1/377, 4-6=-1/377

WEBS 3-6=0/286

## **NOTES-** (6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 2 and 79 lb uplift at joint 4.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
   7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of
- 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.

  8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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/TPIQ Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Type Qty 10 Southeast Truss 149147391 **ORDERS** SE-14545 COMN Job Reference (optional)

4x6 ||

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8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:25 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz\_-51O9lcHTHwra1YuXvgnuey19Tj4zb5Hm0llPOJyBF8y

10-0-0 14-10-13 20-0-0 20-11-4 4-10-13 0-11-4

Scale = 1:44 6

Structural wood sheathing directly applied or 5-2-15 oc purlins.

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

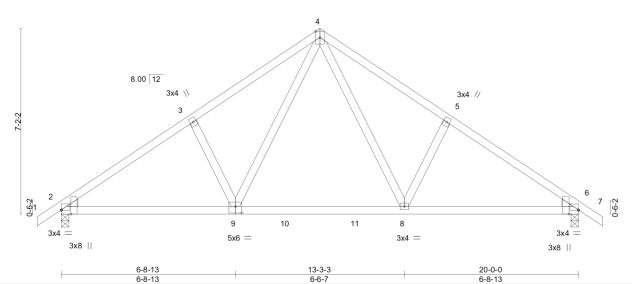


Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [2:0-1-15,Edge], [6:0-1-15,Edge], [6:0-0-0,0-0-3], [9:0-3-0,0-3-0]

5-1-3 5-1-3

| LOADIN       | VI /         | SPACING- 2-0-0                         | CSI.               |                              | in (loc) |                    | /d | PLATES         | GRIP    |
|--------------|--------------|--|--------------------|------------------------------|----------|--------------------|----|----------------|---------|
| TCLL<br>TCDL | 20.0<br>10.0 | Plate Grip DOL 1.15<br>Lumber DOL 1.15 | TC 0.33<br>BC 0.46 | Vert(LL) -0.<br>Vert(CT) -0. |          | >999 36<br>>999 24 |    | MT20           | 197/144 |
| BCLL         | 0.0 *        | Rep Stress Incr YES                    | WB 0.18            | \ /                          | 02 6     |                    | /a |                |         |
| BCDL         | 10.0         | Code IBC2021/TPI2014                   | Matrix-S           | Wind(LL) 0.                  | 03 2-9   | >999 24            | 10 | Weight: 103 lb | FT = 5% |

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 **WEBS** 2x4 SP No.3 or 2x4 SPF Stud

WEDGE

Left: 2x4 SP or SPF No.3 or Stud, Right: 2x4 SP or SPF No.3 or Stud

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-185(LC 8)

Max Uplift 2=-117(LC 10), 6=-117(LC 11) Max Grav 2=853(LC 1), 6=853(LC 1)

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

TOP CHORD 2-3=-1113/140, 3-4=-979/207, 4-5=-979/207, 5-6=-1113/140 BOT CHORD 2-9=-145/940, 8-9=-2/616, 6-8=-38/842

WEBS 3-9=-270/210, 4-9=-122/482, 4-8=-123/482, 5-8=-270/210

NOTES-(6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2 and 117 lb uplift at joint 6.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.





Truss Type Qty Job Truss 11 Southeast-Girder-Int 149147402 **ORDERS** SE-14546 COMN Job Reference (optional)

6-0-0

2-9-5

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-0-11-4

0-11-4

3-2-11

4-1-13

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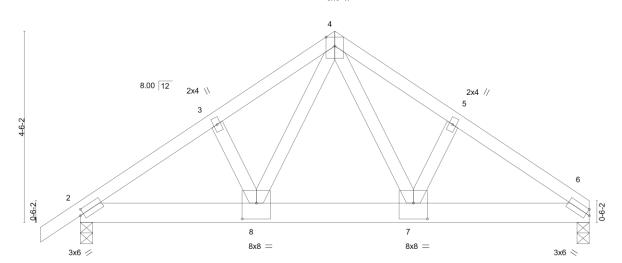
Scale = 1:27.2 5x6 ||

12-0-0

4-1-13

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

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



7-10-3

3-8-7

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y)-- [2:0-1-0,0-1-8], [7:0-4-0,0-4-8], [8:0-4-0,0-4-8]

| LOADIN | VI /  | SPACING- 2-0-0       | CSI.     | DEFL.    |       | (loc) | l/defl | L/d | PLATES         | GRIP    |
|--------|-------|----------------------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL   | 20.0  | Plate Grip DOL 1.15  | TC 0.37  | Vert(LL) | -0.05 | 7-8   | >999   | 360 | MT20           | 197/144 |
| TCDL   | 10.0  | Lumber DOL 1.15      | BC 1.00  | Vert(CT) | -0.09 | 7-8   | >999   | 240 |                |         |
| BCLL   | 0.0 * | Rep Stress Incr NO   | WB 0.69  | Horz(CT) | 0.02  | 6     | n/a    | n/a |                |         |
| BCDL   | 10.0  | Code IBC2021/TPI2014 | Matrix-S | Wind(LL) | 0.03  | 7-8   | >999   | 240 | Weight: 140 lb | FT = 5% |

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x6 SP No.2

**WEBS** 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=91(LC 7)

Max Uplift 2=-201(LC 8), 6=-189(LC 9) Max Grav 2=4787(LC 15), 6=4722(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-5667/237, 3-4=-5565/268, 4-5=-5576/271, 5-6=-5682/239

**BOT CHORD** 2-8=-195/4614, 7-8=-102/3296, 6-7=-162/4562

WEBS 4-8=-159/3286, 4-7=-163/3309

NOTES-(9-11)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=201, 6=189.
- 8) Girder carries tie-in span(s): 38-0-0 from 0-0-0 to 12-0-0
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 11) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.

LOAD CASE(S) Standard

# H CAP TH CARO

## Continued on page 2

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ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply 11\_Southeast-Girder-Int 149147402 **ORDERS** SE-14546 COMN Job Reference (optional)

NVR. Frederick, MD - 21703, 8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:58 2021 Page 2 ID:?RrLVUNcBotMPeFP6cfGVKyEIz\_dNuehugAW3?uUdwtK6sdUvuoU0ClqvQdcOFf3uyBF8R

LOAD CASE(S) Standard

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

Vert: 2-6=-734(B=-714), 1-4=-60, 4-6=-60



 Job
 Truss
 Truss Type
 Qty
 Ply
 11\_Southeast-Girder-Int

 ORDERS
 SE-14547
 COMN
 1
 2

 Job Reference (optional)

10-0-0

4-9-5

NVR. Frederick, MD - 21703.

5-2-11

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:59 2021 Page 1 ID:?RrLVUNcBottMPeFP6cfGVKyEIz\_-5aS0uEhoHN7l6nV3upOs07R?XQhHZSanq2\_DbLyBF8Q 14-9-5 20-0-0 20-11-4 4-9-5 5-2-11 0-11-4

4x6 || Scale = 1:41.6

3 8.00 12 2x4 \\ 2x4 // 4 2 0-6-2 10 11 8 13 15 16 7 17 18 19 12 14 3x4 3x4 8x8 = 3x4 = 6-9-13 13-2-3 20-0-0 6-4-7 6-9-13 Plate Offsets (X,Y)--[8:0-4-0,0-4-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** in (loc) I/defl

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

-0.04

-0.08

0.02

0.03

1-8

1-8

1-8

5

>999

>999

>999

n/a

360

240

n/a

240

LUMBER-

TCLL

TCDL

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x6 SP No.2

20.0

10.0

10.0

0.0

WEBS 2x4 SP No.3 or 2x4 SPF Stud

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

Max Horz 1=-145(LC 4)

Max Uplift 1=-39(LC 8), 5=-51(LC 9) Max Grav 1=1678(LC 1), 5=1746(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IBC2021/TPI2014

Lumber DOL

1.15

1.15

NO

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

TOP CHORD 1-2=-2319/78, 2-3=-2200/132, 3-4=-2194/130, 4-5=-2314/77

BOT CHORD 1-8=-67/1913, 7-8=0/1292, 5-7=-3/1845

WEBS 3-8=-78/1216, 3-7=-77/1207

# **NOTES-** (9-11)

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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.

TC

BC

WB

Matrix-S

0.22

0.44

0.25

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 198 lb down and 9 lb up at 2-0-0, 198 lb down and 9 lb up at 4-0-0, 198 lb down and 9 lb up at 6-0-0, 198 lb down and 9 lb up at 8-0-0, 198 lb down and 9 lb up at 10-0-0, 198 lb down and 9 lb up at 12-0-0, 198 lb down and 9 lb up at 14-0-0, and 198 lb down and 9 lb up at 18-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 11) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



197/144

FT = 5%

MT20

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

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

Weight: 233 lb

January 12,2022

# (LOADICASE(S)geStandard

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Job Truss Truss Type Qty Ply 11\_Southeast-Girder-Int 149147403 **ORDERS** SE-14547 COMN Job Reference (optional)

NVR.

Frederick, MD - 21703,

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:59 2021 Page 2 ID:?RrLVUNcBotMPeFP6cfGVKyElz\_-5aS0uEhoHN7l6nV3upOs07R?XQhHZSanq2\_DbLyBF8Q

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-20, 1-3=-60, 3-6=-60

Concentrated Loads (lb)

Vert: 9=-198(F) 10=-198(F) 11=-198(F) 12=-198(F) 14=-198(F) 16=-198(F) 17=-198(F) 18=-198(F) 19=-198(F)

Truss Type Qty 10 Southeast Job Truss 149147393 **ORDERS** SE-14549 COMN Job Reference (optional)

4x6 =

NVR. Frederick, MD - 21703

0-11-4

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:28 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyElz\_-Vc4lOeJMarD9u0d6apKbGbeluwCRoULDijz4?eyBF8v 12-11-4 12-0-0 0-11-4

Scale = 1:29 1

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

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

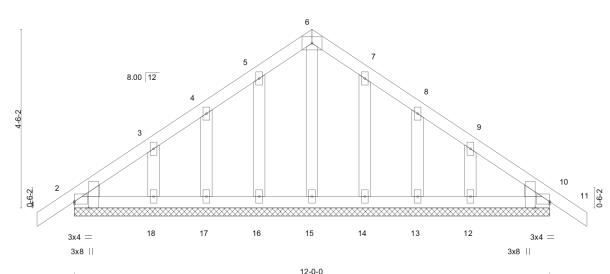


Plate Offsets (X,Y)-- [2:0-0-0,0-0-11], [2:0-1-15,Edge], [10:0-0-0,0-0-11], [10:0-1-15,Edge]

| 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    | 0.06 | Vert(LL) | -0.00 | 10    | n/r    | 120 | MT20          | 197/144 |
| TCDL   | 10.0    | Lumber DOL        | 1.15  | BC    | 0.03 | Vert(CT) | -0.00 | 11    | n/r    | 120 |               |         |
| BCLL   | 0.0 *   | Rep Stress Incr   | YES   | WB    | 0.03 | Horz(CT) | 0.00  | 10    | n/a    | n/a |               |         |
| BCDL   | 10.0    | Code IBC2021/TPI2 | 2014  | Matri | x-S  |          |       |       |        |     | Weight: 70 lb | FT = 5% |

12-0-0

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 **OTHERS** 2x4 SP No.3 or 2x4 SPF Stud

WEDGE

Left: 2x4 SP or SPF No.3 or Stud, Right: 2x4 SP or SPF No.3 or Stud

REACTIONS. All bearings 12-0-0.

(lb) - Max Horz 2=-118(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12 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.

NOTES-(10-12)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

6-0-0

6-0-0

- 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 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 18, 14. 13. 12.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 11) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 12) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



Truss Type Qty 10 Southeast Job Truss 149194685 **ORDERS** SE-18452 COMN Job Reference (optional) NVR. Frederick, MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:44 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz\_-SwlKQZYs72hTNujDT3N8rC2Z7bfLLjws39s8P8yAar9 25-1-14 31-3-13 38-0-0 38-11-4 19-0-0 12-10-2 6-8-3 6-8-3 6-1-14 6-8-3 0-11-4 Scale = 1:65.0 5x6 = 6.00 12 5x6 < 5x6 < 5 3x4 \ 3x4 // 2 0-4-4 11 12 13 14 15 9 3x6 10 6x8 = 6x8 = 6x8 = 9-9-3 19-0-0 28-2-13 38-0-0 9-2-13 9-2-13 9-9-3 Plate Offsets (X,Y)--[3:0-2-12,0-3-0], [5:0-3-0,0-3-4], [7:0-2-5,0-1-8], [10:0-3-12,0-3-0]

| LOADING (psf)<br>TCLL 20.0 | SPACING- 2-0-0<br>Plate Grip DOL 1.15       | <b>CSI.</b><br>TC 0.96 | <b>DEFL.</b> ir Vert(LL) -0.26 | () | l/defl L/d<br>>999 360 | <b>PLATES GRIP</b> MT20 197/144 |
|----------------------------|---|------------------------|--------------------------------|----|------------------------|---------------------------------|
| TCDL 10.0                  | Lumber DOL 1.15                             | BC 0.94                | Vert(CT) -0.51                 |    | >897 240               | W1120 1977144                   |
| BCLL 0.0 *<br>BCDL 10.0    | Rep Stress Incr YES<br>Code IBC2021/TPI2014 | WB 0.52<br>Matrix-S    | Horz(CT) 0.12<br>Wind(LL) 0.13 |    | n/a n/a<br>>999 240    | Weight: 194 lb FT = 5%          |

**BRACING-**

**WEBS** 

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

1 Row at midpt

Rigid ceiling directly applied or 2-2-0 oc bracing.

3-10, 5-10

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 \*Except\*

1-3: 2x4 SP No.2D **BOT CHORD** 2x4 SP No.2D \*Except\*

7-9,1-11: 2x4 SP No.1

WEBS 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS. (size) 7=0-3-8, 1=Mechanical

Max Horz 1=-178(LC 11)

Max Uplift 7=-219(LC 11), 1=-195(LC 10)

Max Grav 7=1577(LC 1), 1=1511(LC 1)

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

TOP CHORD 1-2=-2848/387, 2-3=-2585/356, 3-4=-1783/288, 4-5=-1791/289, 5-6=-2570/352, 6-7=-2820/378

required maximum reaction.

**BOT CHORD** 1-11=-424/2485, 10-11=-240/1999, 9-10=-96/1991, 7-9=-242/2452

WEBS 2-11=-370/234, 3-11=-56/569, 3-10=-709/267, 4-10=-127/1208, 5-10=-694/266,

5-9=-54/555, 6-9=-347/224

#### NOTES-(7-9)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) 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) except (jt=lb) 7=219, 1=195.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph. 9) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the



January 12,2022

TH CARO

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Qty 10 Southeast Job <sub>SE-18453-</sub> Cond1 149194686 COMN **ORDERS** Job Reference (optional)

NVR Frederick MD - 21703

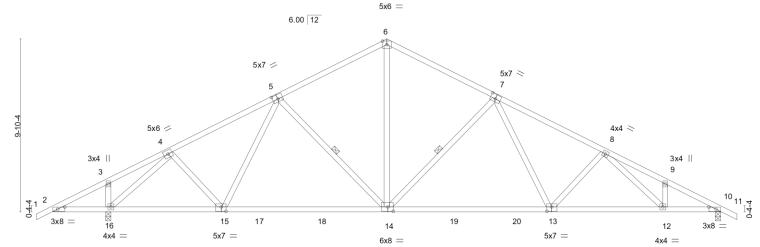
12-10-2

19-0-0

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:46 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyElz\_-PIQ5rEZ6fgyBdCtbaUPcwd70cPLvpW89WTLFT0yAar7 31-3-13 34-10-4 38-0-0 25-1-14 38-11-4 3-6-7 3-1-12 0-11-4

Scale = 1:65.6

[MCT]



| 3-0-0               | 3-1 <sub>1</sub> 12 | 9-9-3 | 19-0-0 | 28-2-13 | 34-10-4 | 38-0-0 |
|---------------------|---------------------|-------|--------|---------|---------|--------|
| 3-0-0               | 0-1-12              | 6-7-7 | 9-2-13 | 9-2-13  | 6-7-7   | 3-1-12 |
| Plate Offsets (X,Y) | 3-0]                |       |        |         |         |        |

**BRACING-**

**WEBS** 

TOP CHORD

**BOT CHORD** 

| LOADIN | <b>G</b> (psf) | SPACING-        | CSI.   |          |
|--------|----------------|-----------------|--------|----------|
| TCLL   | 20.0           | Plate Grip DOL  | 1.15   | TC 0.52  |
| TCDL   | 10.0           | Lumber DOL      | 1.15   | BC 0.94  |
| BCLL   | 0.0 *          | Rep Stress Incr | YES    | WB 0.99  |
| BCDL   | 10.0           | Code IBC2021/TI | PI2014 | Matrix-S |

DEFL. **PLATES GRIP** in (loc) I/defl L/d Vert(LL) -0.20 13-14 >999 360 197/144 MT20 -0.40 13-14 >999 240 Vert(CT) Horz(CT) 0.08 10 n/a n/a Wind(LL) 0.09 13 >999 240 Weight: 213 lb FT = 5%

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

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

5-14, 7-14

LUMBER-TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2D \*Except\*

10-13: 2x4 SP 2250F 1.9E or 2x4 SPF 2100F 1.8E

2-15: 2x4 SP No.2 or 2x4 SPF No.2

WEBS 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS. (size) 10=0-3-8, 16=0-3-8 Max Horz 16=171(LC 10)

Max Uplift 10=-212(LC 11), 16=-237(LC 10)

Max Grav 10=1437(LC 1), 16=1712(LC 1)

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

TOP CHORD 2-3=-111/370, 3-4=-55/371, 4-5=-1644/226, 5-6=-1481/271, 6-7=-1486/249, 7-8=-2237/335, 8-9=-2565/393, 9-10=-2643/335

**BOT CHORD** 2-16=-285/136, 15-16=-218/1188, 14-15=-169/1455, 13-14=-60/1715, 12-13=-210/2167,

10-12=-239/2280

**WEBS** 4-15=0/393, 5-14=-362/222, 6-14=-115/960, 7-14=-691/274, 7-13=-50/514,

8-13=-355/194, 4-16=-2001/255

#### NOTES-(6-8)

0-11-4

3-1-12

3-6-7

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=212, 16=237
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



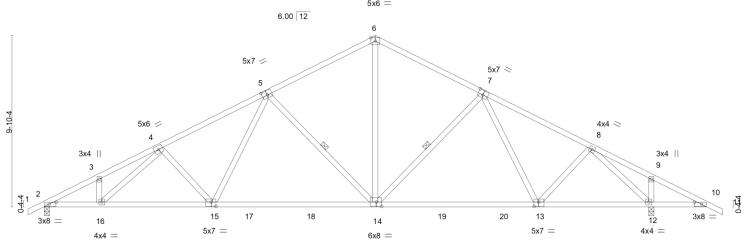
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Type Qty 10 Southeast 149194686 SE-18453- Cond2 COMN **ORDERS** Job Reference (optional) Frederick MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:47 2021 Page 1 NVR ID:?RrLVUNcBotMPeFP6cfGVKyEIz\_-tV\_T2aakQz42EMSo8BwrSrgBMph3YzQJJ74o?TyAar6 25-1-14 31-3-13 34-10-4 38-0-0 38-11-4 12-10-2 19-0-0 6-8-30-11-4 3-1-12 3-6-7 6-1-14 6-1-14 3-6-7 3-1-12 0-11-4 Scale = 1:66.2 5x6 = 6.00 12 6



3-0-0 3-1-12 9-9-3 19-0-0 28-2-13 34-10-4 38-0-0 3-0-0 0-1-12 9-2-13 9-2-13 3-1-12 Plate Offsets (X,Y)--[2:0-4-13,0-1-8], [5:0-3-8,0-3-0], [7:0-3-8,0-3-0], [10:0-4-13,0-1-8], [13:0-3-4,0-3-0], [14:0-3-12,0-3-0], [15:0-3-4,0-3-0]LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** GRIP in (loc) I/defl L/d 20.0 Plate Grip DOL 1.15 TC 0.52 Vert(LL) -0.21 14-15 >999 360 197/144 TCLL MT20 TCDL 10.0 1.15 ВС 0.94 -0.42 14-15 >990 240 Lumber DOL Vert(CT) **BCLL** 0.0 Rep Stress Incr YES WB 0.98 Horz(CT) 0.0912 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.10 15 >999 240 Weight: 213 lb FT = 5%

**BRACING-**

**WEBS** 

TOP CHORD

**BOT CHORD** 

**LUMBER-**TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x4 SP No.2D \*Except\*

10-13: 2x4 SP 2250F 1.9E or 2x4 SPF 2100F 1.8E

2-15: 2x4 SP No.2 or 2x4 SPF No.2

WEBS 2x4 SP No.3 or 2x4 SPF Stud

**REACTIONS.** (size) 2=0-3-8, 12=0-3-8

Max Horz 2=-171(LC 15)

Max Uplift 2=-212(LC 10), 12=-237(LC 11) Max Grav 2=1437(LC 1), 12=1712(LC 1)

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

TOP CHORD 2-3=-2649/334, 3-4=-2571/392, 4-5=-2231/333, 5-6=-1478/247, 6-7=-1485/271,

7-8=-1641/226, 8-9=-54/370, 9-10=-109/367 BOT CHORD 2-16=-409/2285, 15-16=-381/2167, 14-15=-228/1715, 13-14=-71/1455, 12-13=-58/1156,

10-12=-284/135 WEBS 4-15=-358/194, 5-15=-48/513, 5-14=-694/274, 6-14=-114/958, 7-14=-359/222,

8-13=0/392, 8-12=-2000/253

## NOTES- (6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=212, 12=237.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



[MCT]

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

5-14, 7-14

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

Truss Type Qty 10 Southeast Job Truss 149194687 **ORDERS** SE-18454 COMN Job Reference (optional) NVR. Frederick, MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:48 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz\_-LhYrFwbMBHCvsV1\_ivR4?2CJXD0PHWmS\_nqLYvyAar5 12-10-2 19-0-0 31-3-13 38-0-0 25-1-14 38-11-4 6 - 8 - 36-1-14 0-11-4 Scale = 1:66.2 5x6 = 6.00 12 5x6 / 5x6 < 5 3 3x4 // 5x6 /

| 1               | 3-0-0  | 9-9-3                             | 19-0-0  | 28-2-13 | 38-0-0 |
|-----------------|--------|-----------------------------------|---|---------|--------|
|                 | 3-0-0  | 6-9-3                             | 9-2-13  | 9-2-13  | 9-9-3  |
| Plate Offsets ( | X.Y) I | [3:0-3-0.0-3-4], [5:0-3-0.0-3-4], | [9:0-3-12.0-3-4], [10:0-3-12.Edge], [11:0-3-8.0-3 | -41     |        |

10

6x8 =

14

15

16

1 Row at midpt

9

6x8 =

Structural wood sheathing directly applied or 2-4-0 oc purlins.

3-10, 5-10, 2-12

Rigid ceiling directly applied or 2-2-0 oc bracing.

| LOADIN | G (psf) | SPACING- 2-0-0       | CSI.     | DEFL.         | n (loc) | l/defl | L/d | PLATES         | GRIP    |
|--------|---------|----------------------|----------|---------------|---------|--------|-----|----------------|---------|
| TCLL   | 20.0    | Plate Grip DOL 1.15  | TC 0.75  | Vert(LL) -0.2 | 9-10    | >999   | 360 | MT20           | 197/144 |
| TCDL   | 10.0    | Lumber DOL 1.15      | BC 1.00  | Vert(CT) -0.4 | 7-9     | >920   | 240 |                |         |
| BCLL   | 0.0 *   | Rep Stress Incr YES  | WB 0.59  | Horz(CT) 0.0  | 9 7     | n/a    | n/a |                |         |
| BCDL   | 10.0    | Code IBC2021/TPI2014 | Matrix-S | Wind(LL) 0.1  | 7-9     | >999   | 240 | Weight: 201 lb | FT = 5% |

**BOT CHORD** 

WEBS

LUMBER-**BRACING-**TOP CHORD

11

5x7 =

13

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD

2x4 SP No.2 or 2x4 SPF No.2 \*Except\*

2

7-9: 2x4 SP No.2D

4x4 //

12

**WEBS** 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS. All bearings 3-3-8 except (jt=length) 7=0-3-8.

(lb) - Max Horz 1=-178(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) except 7=-214(LC 11), 1=-168(LC 26), 12=-219(LC 10) Max Grav All reactions 250 lb or less at joint(s) 1 except 7=1436(LC 1), 12=1785(LC 1), 12=1785(LC 1)

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

TOP CHORD 1-2=-133/701, 2-3=-1658/251, 3-4=-1475/277, 4-5=-1481/254, 5-6=-2261/343,

**BOT CHORD** 1-12=-540/196, 11-12=-259/1183, 10-11=-175/1446, 9-10=-62/1714, 7-9=-233/2179 **WEBS** 

2-11=0/385, 3-10=-372/222, 4-10=-116/944, 5-10=-694/267, 5-9=-56/552, 6-9=-350/224,

2-12=-2367/367

### NOTES-

044

3x6

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 7, 168 lb uplift at joint 1 and 219 lb uplift at joint 12
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.





6

3 46

Truss Type Qty 10 Southeast Job SE-18455- Cond1 149194688 COMN **ORDERS** Job Reference (optional) Frederick, MD - 21703 NVR 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:51 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz\_-IGD\_uydFUCaUjzmZN1?ndhqsrQ4hUuwugi208EyAar2 19-0-0 25-1-14 31-3-13 38-0-0 38-11-4 6-8-3 12-10-2 6-8-3 6-1-14 Scale = 1:65.0 5x6 = 6.00 12 6 4x8 3x4 3x6 / 5 7 3x6 < 3x4 || 3x4 📏 3x4 // 2 10 11 4 10 ⊠ 14 16 17 18 12 3x8 =15 13 6x8 = 3x4 || 5x10 = 6x8 = 9-9-3 13-1-0 19-0-0 28-2-13 38-0-0 3-3-13 9-9-3 5-11-0 9-2-13 Plate Offsets (X,Y)--[1:0-4-13,0-1-8], [10:0-2-13,0-1-8], [15:0-4-12,0-3-0]

| LOADING | 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    | 0.61 | Vert(LL) | -0.24 | 1-15  | >654   | 360 | MT20           | 197/144 |
| TCDL    | 10.0    | Lumber DOL      | 1.15   | BC    | 0.77 | Vert(CT) | -0.51 | 1-15  | >311   | 240 |                |         |
| BCLL    | 0.0 *   | Rep Stress Incr | YES    | WB    | 0.57 | Horz(CT) | 0.02  | 10    | n/a    | n/a |                |         |
| BCDL    | 10.0    | Code IBC2021/TF | PI2014 | Matri | x-S  | Wind(LL) | 0.07  | 10-12 | >999   | 240 | Weight: 210 lb | FT = 5% |

**BRACING-**

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 \*Except\*

10-12: 2x4 SP No.1, 12-13: 2x4 SP No.2D

**WEBS** 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS. (size) 10=0-3-8, 1=Mechanical, 14=0-3-8

Max Horz 1=-178(LC 11)

Max Uplift 10=-178(LC 11), 1=-43(LC 10), 14=-234(LC 10) Max Grav 10=936(LC 1), 1=379(LC 23), 14=1842(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 1-2=-359/138, 5-6=-360/200, 6-7=-366/176, 7-9=-1176/263, 9-10=-1432/289

BOT CHORD 1-15=-122/270, 14-15=-398/234, 13-14=-398/234, 12-13=0/732, 10-12=-163/1220 2-15=-385/222, 5-15=-115/591, 5-13=-58/984, 7-13=-710/266, 7-12=-53/581,

9-12=-364/226, 5-14=-1800/253

#### NOTES-(7-9)

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 10, 43 lb uplift at joint 1 and 234 lb uplift at joint 14
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 9) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



Structural wood sheathing directly applied or 3-10-14 oc purlins.

6-13, 7-13, 5-14

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

1 Row at midpt

[MCT]

Job Truss Type Qty 10 Southeast SE-18455- Cond2 149194688 COMN **ORDERS** Job Reference (optional) Frederick MD - 21703 NVR 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:51 2021 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz\_-IGD\_uydFUCaUjzmZN1?ndhqrWQ4xUuVugl208EyAar2 31-3-13 19-0-0 38-0-0 12-10-2 25-1-14 38-11-4 6 - 8 - 36-8-3 6-1-14 6-1-14 Scale = 1:63.3 5x6 = 6.00 12 6 4x8 / 3x4 > 3x6 / 5 3x6 < 3x4 || 8 9-10-4 3x4 \\ 3x4 / 2 9 10 11 4 04.4 15 17 16 18 12 14 13 3x8 3x6 6x8 = 5x10 = 3x4 || 6x8 = 9-9-3 13-1-0 19-0-0 28-2-13 38-0-0 9-9-3 3-3-13 9-2-13 9-9-3 5-11-0 Plate Offsets (X,Y)--[1:0-4-13,0-1-8], [10:0-2-13,0-1-8], [15:0-4-12,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP in (loc) I/defl 20.0 Plate Grip DOL 1.15 TC 0.70 Vert(LL) -0.231-15 >501 360 197/144 TCLL MT20 TCDL 10.0 1.15 BC 0.82 -0.47 >243 240 Lumber DOL Vert(CT) 1-15 0.53 **BCLL** 0.0 Rep Stress Incr YES WB Horz(CT) 0.03 10 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.08 10-12 >999 240 Weight: 210 lb FT = 5%**BRACING-**[MCT] TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins. BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-15.

**WEBS** 

1 Row at midpt

LUMBER-

10-12: 2x4 SP No.1, 12-13: 2x4 SP No.2D

**WEBS** 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS. (size) 15=0-3-8, 10=0-3-8, 1=Mechanical Max Horz 1=-178(LC 11)

Max Uplift 15=-250(LC 10), 10=-192(LC 11), 1=-26(LC 24) Max Grav 15=1863(LC 1), 10=1104(LC 1), 1=205(LC 23)

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

TOP CHORD 1-2=-59/377, 2-3=-76/524, 3-5=-41/602, 5-6=-731/229, 6-7=-740/206, 7-9=-1542/292,

1-15=-301/192, 14-15=0/307, 13-14=0/307, 12-13=-14/1062, 10-12=-189/1543

**BOT CHORD WEBS** 2-15=-378/221, 5-15=-1472/162, 5-13=-24/559, 6-13=-74/330, 7-13=-705/265,

7-12=-52/575, 9-12=-358/225

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 15, 192 lb uplift at joint 10 and 26 lb uplift at joint 1.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 9) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



5-15, 7-13

Job Truss Type Qty 10 Southeast SE-18455- Cond3 149194688 COMN **ORDERS** Job Reference (optional) Frederick MD - 21703 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 20:38:52 2021 Page 1 NVR ID:?RrLVUNcBotMPeFP6cfGVKyElz\_-DSnM5letFWiKL7KlxlW09uN\_XqO6DMF2uPoZhgyAar1 19-0-0 25-1-14 31-3-13 38-0-0 12-10-2 38-11-4 6 - 8 - 36-8-3 6-1-14 6-8-3 0-11-4 Scale: 3/16"=1" 5x6 =6.00 12 6 4x8 < 3x4 < 3x6 < 5 7 3x6 < 3x4 || 8 3x4 \\ 3x4 / 2 9 17 18 19 12 15 14 3x6 13 6x8 = 5x10 = 6x8 = 3x4 || 9-9-3 13-1-0 19-0-0 28-2-13 38-0-0 3-3-13 9-2-13 5-11-0 9-9-3 Plate Offsets (X,Y)--[1:0-4-13,0-1-8], [10:0-2-13,0-1-8], [15:0-4-12,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) L/d **PLATES** GRIP in I/defl 20.0 Plate Grip DOL 1.15 TC 0.81 Vert(LL) -0.30 12-13 >999 360 197/144 TCLL MT20 TCDL 10.0 1.15 BC 0.95 -0.54 12-13 >776 240 Lumber DOL Vert(CT) 0.50 **BCLL** 0.0 Rep Stress Incr YES WB Horz(CT) 0.1210 n/a n/a BCDL 10.0 Code IBC2021/TPI2014 Matrix-S Wind(LL) 0.14 14-15 >999 240 Weight: 210 lb FT = 5% LUMBER-**BRACING-**[MCT] TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins. 2x4 SP No.2 or 2x4 SPF No.2 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc bracing. **WEBS** 1 Row at midpt 5-13, 7-13

BOT CHORD

10-12: 2x4 SP No.1, 12-13: 2x4 SP No.2D

**WEBS** 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS.

(size) 10=0-3-8, 1=3-0-0, 16=0-3-8

Max Horz 1=-178(LC 15)

Max Uplift 10=-224(LC 11), 1=-228(LC 10)

Max Grav 10=1561(LC 1), 1=1307(LC 1), 16=296(LC 3)

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

TOP CHORD 1-2=-2696/414, 2-3=-2435/375, 3-5=-2383/411, 5-6=-1740/300, 6-7=-1749/298, 7-9=-2537/362, 9-10=-2787/387

1-16=-447/2326, 15-16=-447/2326, 14-15=-233/1913, 13-14=-233/1913, 12-13=-103/1959,

10-12=-250/2422 WEBS 2-15=-330/221, 5-15=-144/433, 5-13=-668/258, 6-13=-140/1156, 7-13=-699/264,

7-12=-51/566, 9-12=-347/224

#### NOTES-(6-8)

**BOT CHORD** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 10 and 228 lb uplift at joint 1.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.

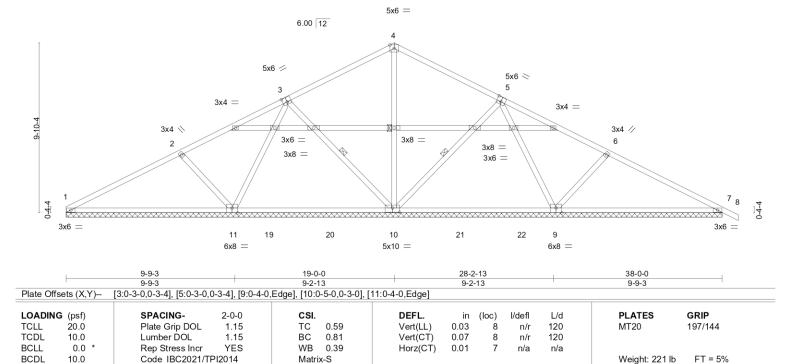


Job Truss Type Qty Truss Plates added 155156609 **ORDERS** SE-18456 COMN Job Reference (optional)

Frederick, MD - 21703 NVR.

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Nov 8 10:21:37 2022 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz\_-J4kpIns0MXaNNMv2KZSS3nLMZ69R25XSwdbdInyLGti 25-1-14 31-3-13 38-0-0 38-11-4 12-10-2 19-0-0 6-8-3 6-1-14 6-1-14 6-1-14

Scale = 1:66.7



LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 **BOT CHORD** 2x4 SP No.2 or 2x4 SPF No.2 **WEBS** 2x4 SP No.3 or 2x4 SPF Stud **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, Except:

6-0-0 oc bracing: 10-11.

**WEBS** 1 Row at midpt 3-10, 4-10, 5-10

REACTIONS. All bearings 38-0-0.

(lb) - Max Horz 1=-178(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 10, 7, 1 except 11=-175(LC 10), 9=-158(LC 11)

Max Grav All reactions 250 lb or less at joint(s) except 11=834(LC 23), 10=764(LC 2), 9=837(LC 24), 7=380(LC

24), 1=320(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 2-11=-402/239, 3-11=-359/131, 4-10=-386/50, 5-9=-364/116, 6-9=-397/233

#### NOTES-(7-9)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2) zone; cantilever left and right exposed ;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 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) 10, 7, 1 except (jt=lb) 11=175, 9=158.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 9) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



November 9,2022

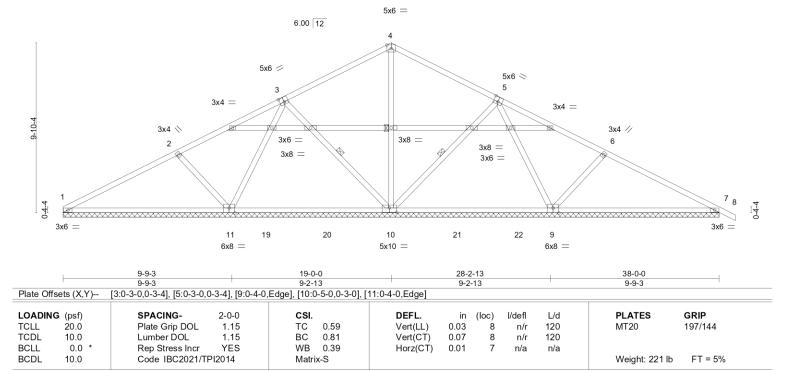


Job Truss Type Qty Truss Ply Plates added 155156610 **ORDERS** SE-18457 COMN Job Reference (optional)

Frederick, MD - 21703 NVR.

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Nov 8 10:21:38 2022 Page 1 ID:?RrLVUNcBotMPeFP6cfGVKyEIz\_-nGICV7te7riE?WUEuH\_hc?uWJWVgnYmb9HLArDyLGth 12-10-2 19-0-0 25-1-14 31-3-13 38-0-0 6-8-3 38-11-4 6-1-14 0-11-4

Scale = 1:66.7



TOP CHORD **BOT CHORD** 

LUMBER-

**WEBS** 

2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.3 or 2x4 SPF Stud **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:

3-10, 4-10, 5-10

6-0-0 oc bracing: 10-11. 1 Row at midpt

REACTIONS. All bearings 38-0-0.

(lb) - Max Horz 1=-178(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 10, 7, 1 except 11=-175(LC 10), 9=-158(LC 11)

Max Grav All reactions 250 lb or less at joint(s) except 11=834(LC 23), 10=764(LC 2), 9=837(LC 24), 7=380(LC

24), 1=320(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 2-11=-402/239, 3-11=-359/131, 4-10=-386/50, 5-9=-364/116, 6-9=-397/233

#### NOTES-(7-10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2) zone; cantilever left and right exposed ;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 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) 10, 7, 1 except (jt=lb) 11=175, 9=158.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 9) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.
- 10) Framing and bracing of the gable end frame shall be provided by the building designer.



November 9,2022



Job Truss Type Qty 10 Southeast Truss 149194932 **ORDERS** SE-19192 COMN Job Reference (optional)

10-0-0

10-0-0

NVR. Frederick, MD - 21703

0-11-4

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 22:01:31 2021 Page 1  $ID:?RrLVUNcBotMPeFP6cfGVKyElz\_-XUw3txfUO9UinDxqxj\_wefGdmq6YdFKzDQYSDkyAZdYNdSydFUQYSDkyAZdYNdSydYndSydYndSydYNdSydYNdSydYNdSydYNdSydYNdSydYNdSydYndSydYndSydYndSydYndSydYndSydYNdSydYNdSydYndSydYNdSydYNdSydY$ 20-11-4 20-0-0 10-0-0

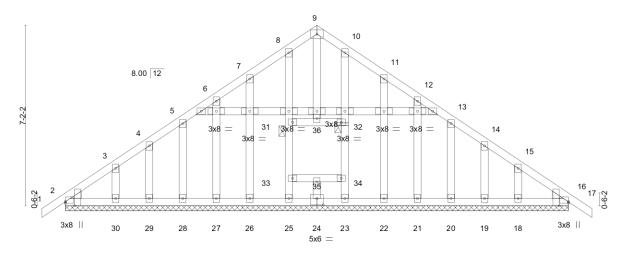
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

1 Brace at Jt(s): 31, 32

4x6 =

Scale = 1:45.8



10-0-0 20-0-0 10-0-0 10-0-0 Plate Offsets (X Y)-- [2:0-0-0 0-0-11] [2:0-1-15 Edge] [16:0-0-0 0-0-11] [16:0-1-15 Edge] [24:0-3-0 0-3-0]

| - Flate Of | rate Offsets (A, 1)=== [2.0-0-0,0-0-11], [2.0-1-10,Euge], [10.0-0-0,0-0-11], [10.0-1-10,Euge], [24.0-0-0,0-0-0] |                 |        |       |      |          |       |       |        |     |                |         |  |
|------------|---|-----------------|--------|-------|------|----------|-------|-------|--------|-----|----------------|---------|--|
| 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    | 0.06 | Vert(LL) | -0.00 | 16    | n/r    | 120 | MT20           | 197/144 |  |
| TCDL       | 10.0  | Lumber DOL      | 1.15   | BC    | 0.04 | Vert(CT) | -0.00 | 17    | n/r    | 120 |                |         |  |
| BCLL       | 0.0 *   | Rep Stress Incr | YES    | WB    | 0.09 | Horz(CT) | 0.01  | 16    | n/a    | n/a |                |         |  |
| BCDL       | 10.0  | Code IBC2021/TF | PI2014 | Matri | x-S  | , ,      |       |       |        |     | Weight: 157 lb | FT = 5% |  |

**BRACING-**

**JOINTS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 **WEBS** 2x4 SP No.2 or 2x4 SPF No.2 \*Except\*

31-32,33-34,24-35,9-36: 2x4 SP No.3 or 2x4 SPF Stud

OTHERS 2x4 SP No.3 or 2x4 SPF Stud

WEDGE

Left: 2x4 SP or SPF No.3 or Stud , Right: 2x4 SP or SPF No.3 or Stud

REACTIONS. All bearings 20-0-0

(lb) - Max Horz 2=185(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 22, 21,

20, 19, 18

All reactions 250 lb or less at joint(s) 2, 16, 25, 23, 26, 27, 28, 29, 30,

22, 21, 20, 19, 18, 24

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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 3x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 28, 29, 30, 22, 21, 20, 19, 18.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 11) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 12) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty 02\_Valley 154705066 **ORDERS** VT-00861 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:37 2022 Page 1 ID:lwgfHqLuldM7W6Kxo5rjJByUXxn-tI0UVwpW5nlQcYlxzK5McV9S1Qbd2s7Y0umzOByTqEK Frederick, MD - 21703, NVR. 1-6-0 3-0-0 1-6-0 Scale = 1:7.7 3x4 =2 8.00 12 3x4 / 3x4 < 3-0-0 3-0-0 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP in (loc) I/defl **TCLL** 30.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) 999 197/144 n/a n/a MT20 (Roof Snow=30.0) BC Lumber DOL 1.15 0.08 Vert(CT) 999 n/a n/a TCDL 10.0 3 Rep Stress Incr Horz(CT) 0.00 n/a n/a

0.0 10.0

YES WR 0.00 Code IBC2021/TPI2014 Matrix-P

**BRACING-**TOP CHORD **BOT CHORD** 

Structural wood sheathing directly applied or 3-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 8 lb

FT = 5%

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud

(size) 1=3-0-0, 3=3-0-0

Max Horz 1=23(LC 11)

Max Uplift 1=-22(LC 12), 3=-22(LC 13) Max Grav 1=108(LC 18), 3=108(LC 19)

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

## NOTES-

REACTIONS.

**BCLL** 

BCDL LUMBER-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 13,2022





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty 02 Valley 154705067 **ORDERS** VT-00862 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:38 2022 Page 1 ID:D6E1UAMWWxU\_8Gv8MpMysOyUXxm-LVatjFp8s4tHDiH7X2cb9ihYkpqYnJNiFYVWwdyTqEJ NVR. Frederick, MD - 21703 3-0-0 6-0-0 3-0-0 Scale = 1:14 7 3x4 =2 8.00 12 3x4 / 3x4 < 6-0-0 6-0-0 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** in (loc) I/defl **TCLL** 30.0 Plate Grip DOL 1.15 TC 0.41 Vert(LL) 999 197/144 n/a n/a MT20 (Roof Snow=30.0) BC 1.15 0.55 Vert(CT) 999 Lumber DOL n/a n/a TCDL 10.0 3 Rep Stress Incr YES WR 0.00 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IBC2021/TPI2014 Matrix-P Weight: 18 lb FT = 5% 10.0 BCDL LUMBER-**BRACING-**TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud 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.

BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud

(size) 1=6-0-0, 3=6-0-0

Max Horz 1=58(LC 9) Max Uplift 1=-54(LC 12), 3=-54(LC 13)

Max Grav 1=292(LC 18), 3=292(LC 19)

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

## NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 13,2022



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty 02 Valley 154705068 **ORDERS** VT-00863 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:39 2022 Page 1 ID:hJoPiVN8HEcrmQUKwWtBOcyUXxl-ph8FwbqmdO?8rsrK5l7rhwEfiDE1WlarUCF3T3yTqEI Frederick, MD - 21703 NVR. 4-6-0 9-0-0 4-6-0 4-6-0 Scale = 1:20 1 4x6 = 2 8.00 12 4 3x4 / 3x4 <> 3x4 Ш 9-0-0 9-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP in I/defl (loc) TCLL 30.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) 999 MT20 197/144 n/a n/a (Roof Snow=30.0) 1.15 BC 0.28 Vert(CT) 999 Lumber DOL n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 3 n/a n/a BCLL 0.0 Code IBC2021/TPI2014 FT = 5% Matrix-S Weight: 31 lb **BCDL** 10.0

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud

**OTHERS** 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS. (size) 1=9-0-0, 3=9-0-0, 4=9-0-0

Max Horz 1=-92(LC 8)

Max Uplift 1=-73(LC 12), 3=-86(LC 13), 4=-27(LC 12) Max Grav 1=312(LC 18), 3=312(LC 19), 4=364(LC 18)

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

**WEBS** 2-4=-264/218

## NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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

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

October 13,2022



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty 02 Valley 154705069 **ORDERS** VT-00864 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MITek Industries, Inc. Thu Oct 13 12:35:40 2022 Page 1 ID:9VMovrOm2YkhOZ3WUEOQxpyUXxk-Hthd8xrPOi7?T0QWeTe4E7nqadbLFCu?is\_d?WyTqEH NVR. Frederick, MD - 21703 12-0-0 6-0-0 6-0-0 Scale = 1:25.3 4x6 = 3 10 8.00 12 4-0-0 3x4 || 4 3x4 || 2 12 3x4 < 3x4 < 3x4 || 3x4 || 3x4 || 12-0-0 12-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP in I/defl (loc) TCLL 30.0 Plate Grip DOL 1.15 TC 0.64 Vert(LL) 999 MT20 197/144 n/a n/a (Roof Snow=30.0) Lumber DOL 1.15 BC 0.21 Vert(CT) 999 n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 5 n/a n/a BCLL 0.0 Code IBC2021/TPI2014 FT = 5% Matrix-S Weight: 45 lb **BCDL** 10.0

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud 2x4 SP No.3 or 2x4 SPF Stud

BOT CHORD **OTHERS** 2x4 SP No.3 or 2x4 SPF Stud 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 12-0-0.

(lb) - Max Horz 1=-127(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-210(LC 12), 6=-209(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=341(LC 19), 8=561(LC 18), 6=561(LC 19)

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

**WEBS** 3-7=-255/83, 2-8=-507/413, 4-6=-507/413

## NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-5-12 to 4-10-8, Corner(3R) 4-10-8 to 7-1-8, Corner(3E) 7-1-8 to 11-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) 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=210, 6=209.



October 13,2022



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty 02 Valley 154705070 **ORDERS** VT-00865 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:41 2022 Page 1 ID:dhwA6BPOpssY?jdj1xvfT1yUXxj-l4F?LHs19?Fs4A?iCA9JnLJ?D1yq\_fD8xWkAXyyTqEG 15-0-0 NVR. Frederick, MD - 21703 7-6-0 7-6-0 Scale = 1:31.4 4x6 = 3 8.00 12 12 11 3x4 3x4 || 4 2 13 10 3x4 < 9 87 6 3x4 || 4x4 = 3x4 || 15-0-0 15-0-0 Plate Offsets (X,Y)--[8:0-2-0,0-1-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** in (loc) I/defl **TCLL** 30.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) 999 197/144 n/a n/a MT20 (Roof Snow=30.0) BC 1.15 0.19 999 Lumber DOL Vert(CT) n/a n/a TCDL 10.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.00 5 n/a n/a **BCLL** Code IBC2021/TPI2014 Matrix-S Weight: 59 lb FT = 5%BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 or 2x4 SPF Stud OTHERS REACTIONS. All bearings 15-0-0. (lb) - Max Horz 1=-161(LC 8) Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-230(LC 12), 6=-230(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=334(LC 18), 9=592(LC 18), 6=592(LC 19) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 3-7=-254/22, 2-9=-512/383, 4-6=-512/383 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-5-12 to 4-10-8, Corner(3R) 4-10-8 to 10-1-8, Corner(3E) 10-1-8 to 14-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 3) Unbalanced snow loads have been considered for this design. 4) Gable requires continuous bottom chord bearing. 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=230, 6=230.

SEAL
28228 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

October 13,2022



Job Truss Truss Type Qty 02 Valley 154705071 **ORDERS** VT-00866 VCOM Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Oct 13 12:35:42 2022 Page 1 NVR. Frederick, MD - 21703 ID: dhwA6BPOpssY?jdj1xvfT1yUXxj-DGpNZdsfwJNjiKaumtgYJYs8ERGlj5tHAATk4OyTqEFulled for the control of the contr18-0-0 9-0-0 9-0-0 Scale = 1:37.9 4x6 = 3 8.00 12 3x4 || 3x4 || 2 10 5 3x4 / 3x4 < 9 87 6 4x4 = 3x4 || 3x4 || 18-0-0 18-0-0 Plate Offsets (X,Y)--[8:0-2-0,0-1-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** in (loc) I/defl **TCLL** 30.0 Plate Grip DOL 1.15 TC 0.82 Vert(LL) 999 197/144 n/a n/a MT20 (Roof Snow=30.0) 1.15 вс 0.28 999 Lumber DOL Vert(CT) n/a n/a TCDL 10.0 Rep Stress Incr YES WR 0.16 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IBC2021/TPI2014 Matrix-S Weight: 74 lb FT = 5%BCDL 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 or 2x4 SPF Stud OTHERS REACTIONS. All bearings 18-0-0. (lb) - Max Horz 1=195(LC 11) Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-281(LC 12), 6=-281(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=300(LC 18), 9=686(LC 18), 6=686(LC 19) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 2-9=-576/406, 4-6=-576/406 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-5-12 to 5-0-0, Corner(3R) 5-0-0 to 13-0-0, Corner(3E) 13-0-0 to 17-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 3) Unbalanced snow loads have been considered for this design. 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) 9=281, 6=281.

SEAL
28228 4) Gable requires continuous bottom chord bearing.