

Trenco 818 Soundside Rd Edenton, NC 27932

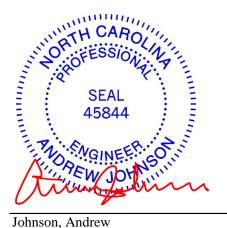
Re: 24021000 BCTH-42

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I63996894 thru I63996904

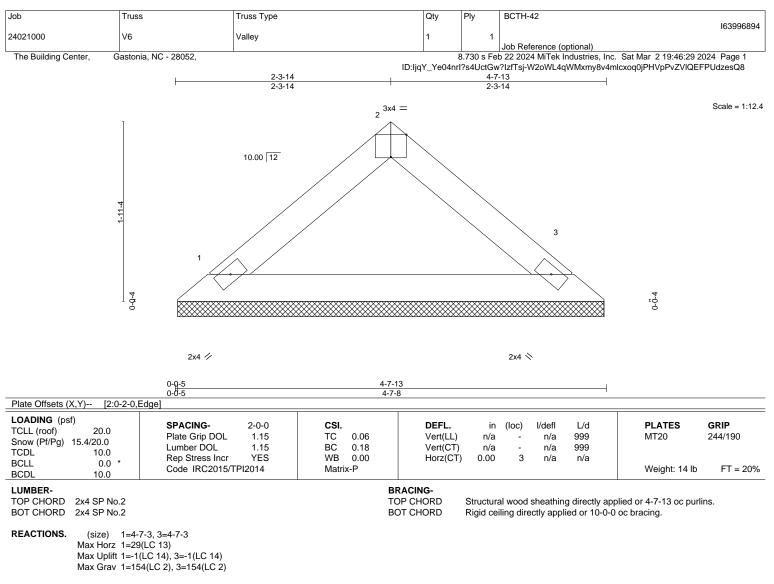
My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



March 4,2024

**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.



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

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.

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

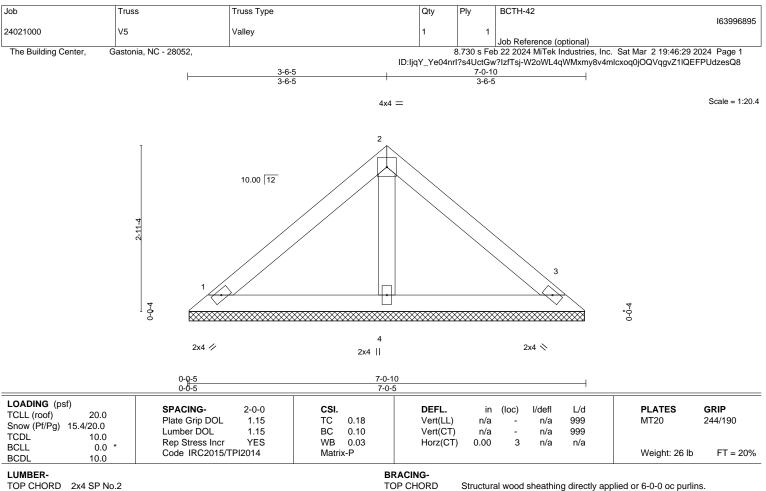
6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) 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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**TRENCO** A MITEK Affiliate



BOT CHORD

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

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

REACTIONS. (size) 1=7-0-0, 3=7-0-0, 4=7-0-0 Max Horz 1=47(LC 13) Max Ubliff 1=-17(LC 14) 3=-17(LC 1

Max Uplift 1=-17(LC 14), 3=-17(LC 14) Max Grav 1=143(LC 2), 3=143(LC 2), 4=213(LC 2)

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

# NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

4) Gable requires continuous bottom chord bearing.

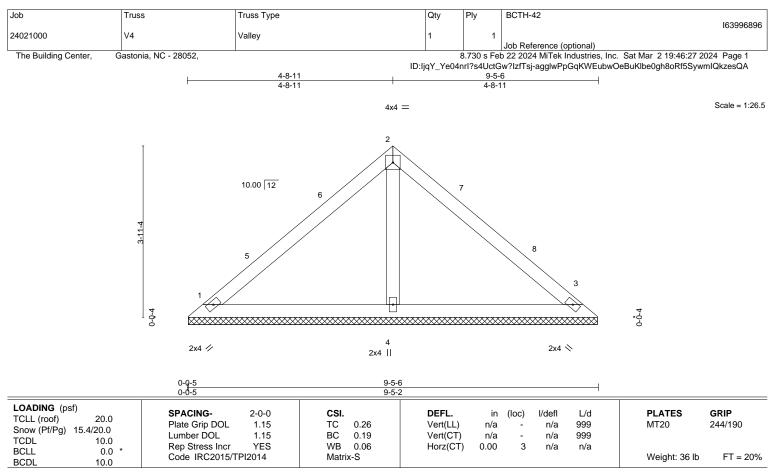
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) 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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### LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

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. (size) 1=9-4-13, 3=9-4-13, 4=9-4-13 Max Horz 1=-65(LC 12) Max Uplift 1=-15(LC 14), 3=-15(LC 14) Max Grav 1=183(LC 2), 3=183(LC 2), 4=325(LC 2)

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

# NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B;

Enclosed; MWFRS (directional) and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-8-11, Exterior(2) 4-8-11 to 7-8-11, Interior(1) 7-8-11 to 9-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

4) Gable requires continuous bottom chord bearing.

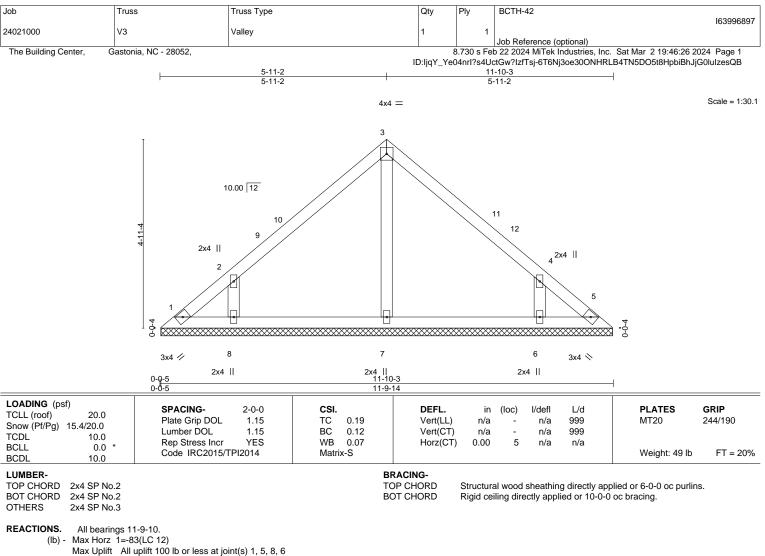
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) 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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Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=301(LC 23), 6=301(LC 24)

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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B;

Enclosed; MWFRS (directional) and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-11-2, Exterior(2) 5-11-2 to 8-11-2, Interior(1) 8-11-2 to 11-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

4) Gable requires continuous bottom chord bearing.

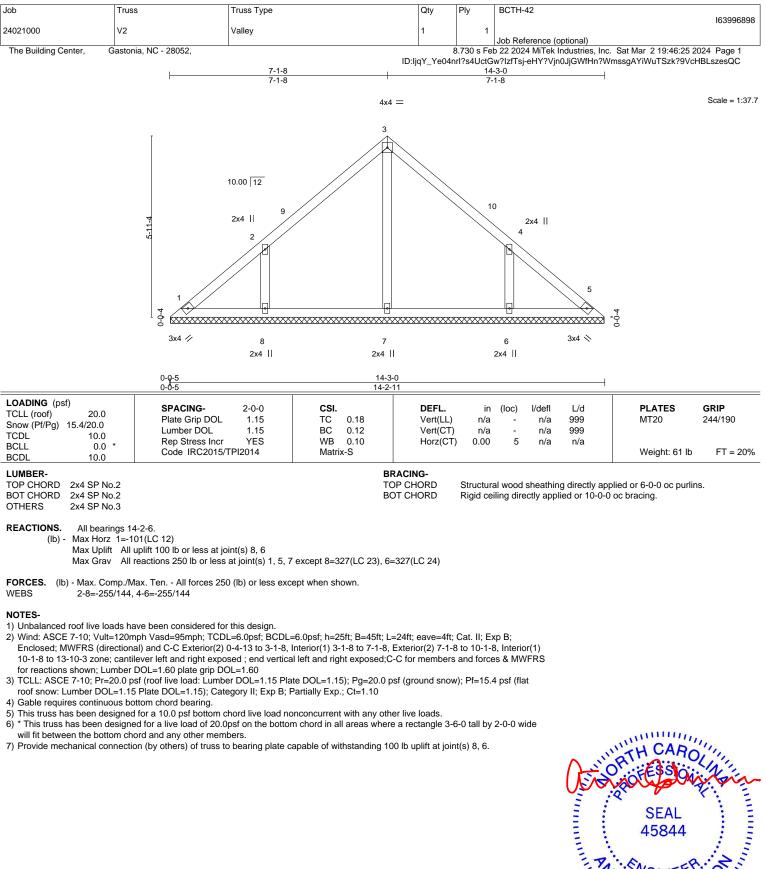
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.



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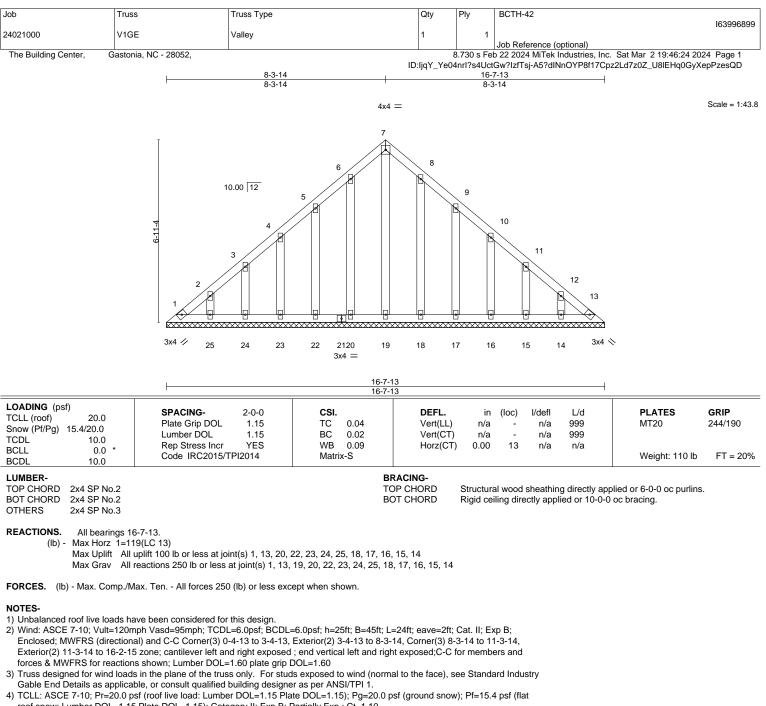


Summer of the mm March 4,2024

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818 Soundside Road

Edenton, NC 27932



- roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 9) will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 20, 22, 23, 24, 25, 18, 17, 16, 15, 14.

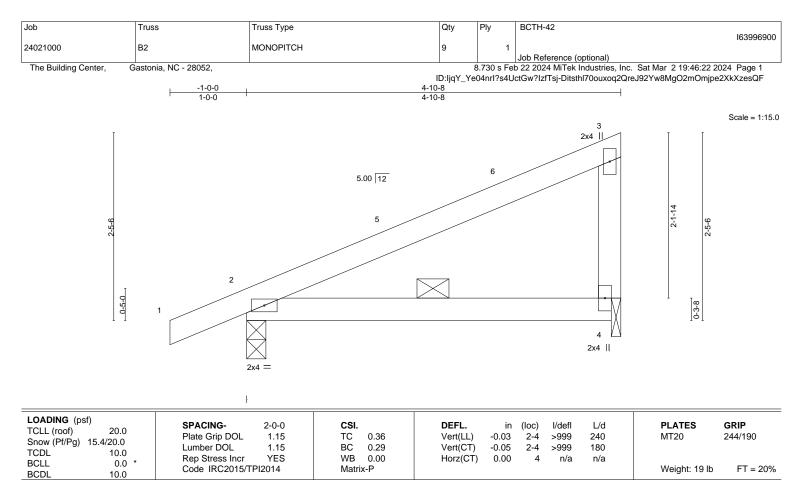


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818 Soundside Road

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BRACING-

TOP CHORD

BOT CHORD

| LUMBER- |  |
|---------|--|
|---------|--|

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=66(LC 13) Max Uplift 2=-31(LC 16) Max Grav 2=260(LC 2), 4=176(LC 2)

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

### NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design. 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



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

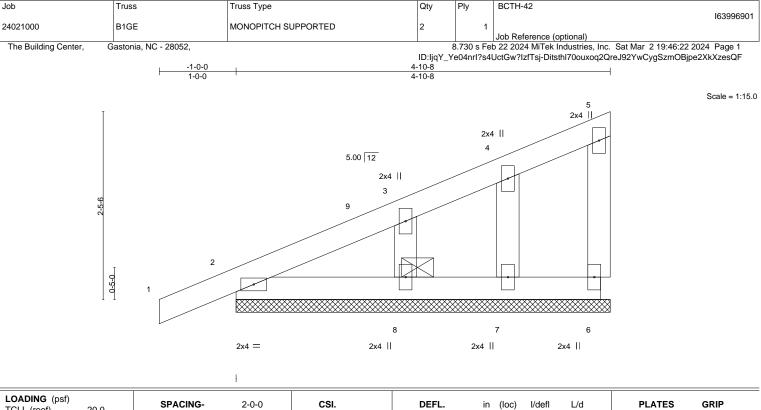
except end verticals.

3-0-0 oc bracing.

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| LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014 | <b>CSI.</b><br>TC 0.07<br>BC 0.04<br>WB 0.04<br>Matrix-P | Vert(CT) -C | in (loc)<br>0.00 1<br>0.00 1<br>0.00 6 | l/defl<br>n/r<br>n/r<br>n/a | L/d<br>120<br>120<br>n/a | PLATES<br>MT20<br>Weight: 23 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
|--|---|--|-------------|--|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER- BRACING-   |   |  |             |  |                             |                          |                                 |                                    |

TOP CHORD

BOT CHORD

# LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

REACTIONS. All bearings 4-10-8.

Max Horz 2=66(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

## NOTES-

1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -1-0-0 to 2-2-8, Exterior(2) 2-2-8 to 4-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7.

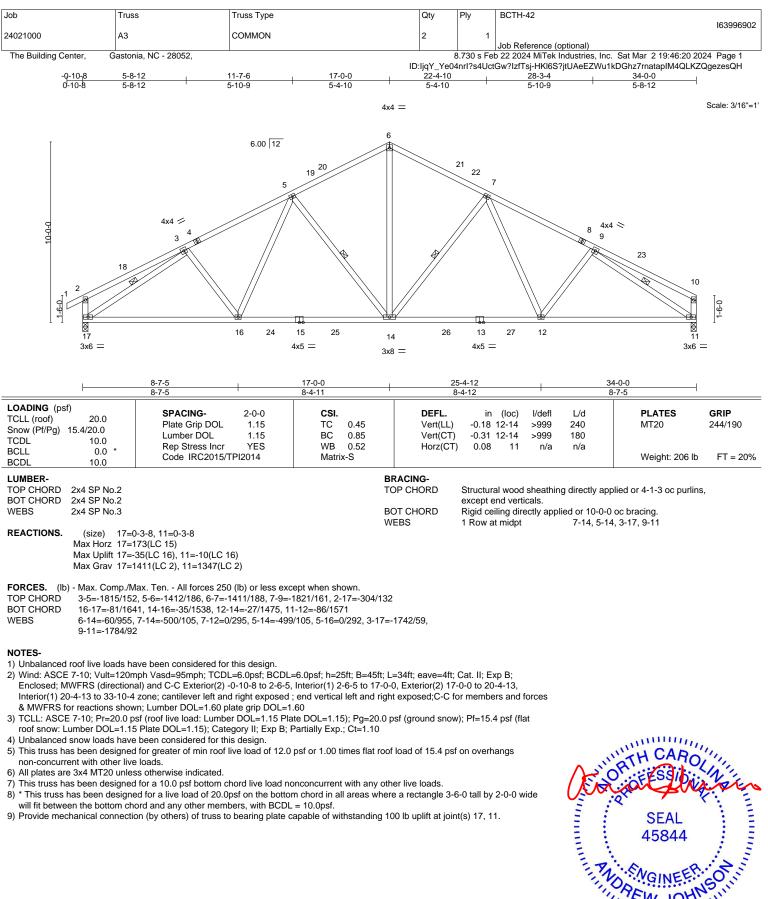


Structural wood sheathing directly applied or 4-10-8 oc purlins,

except end verticals.

3-0-0 oc bracing.

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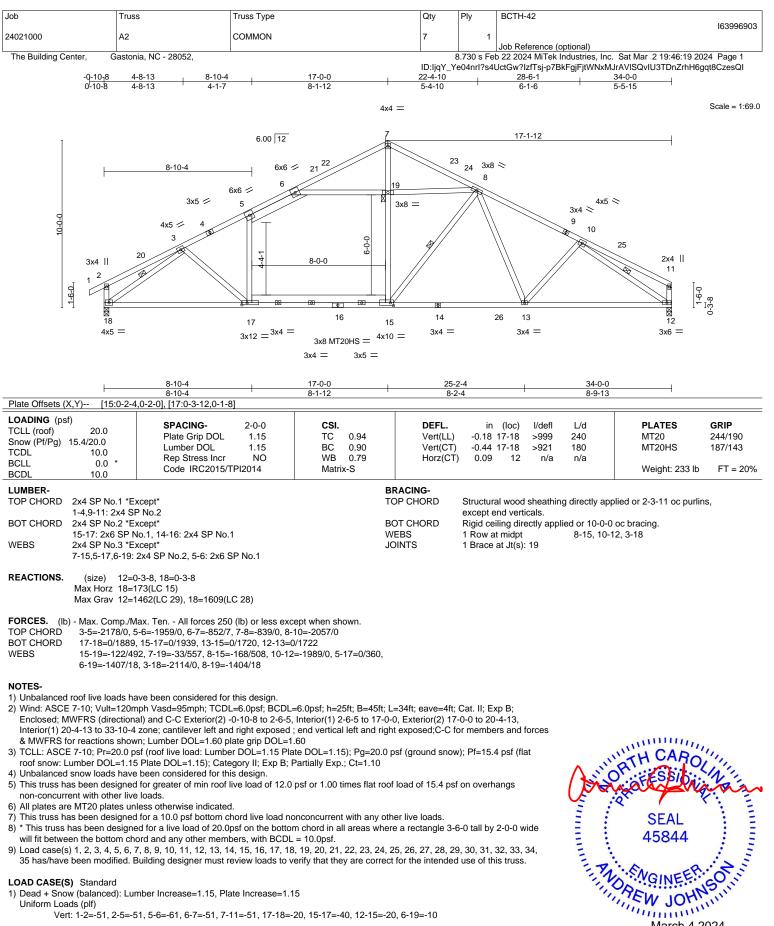
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 11.



104 minin

45844

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Vert: 1-2=-51, 2-5=-51, 5-6=-61, 6-7=-51, 7-11=-51, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10

## Continued on page 2

ᄊ 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 bilding 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 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)

March 4,2024

| Iob     Truss     Truss Type     Qty     Ply     BCTH-42       24021000     A2     COMMON     7     1     Iob Reference (optional)       The Building Center,     Gastonia, NC - 28052,     8.730 s Feb 22 2024 MiTek Industries, Inc. Sat Mar 2 19:46:19 2024 Page 2       ID:ljqY_Ye04nrl?s4UctGw?lzfTsj-p7BkFgjFjtWNxMJrAVISQvIU3TDnZrhH6gqt8CzesQ |
|---|
| The Building Center,     Gastonia, NC - 28052,       Based     3.730 s Feb 22 2024 MiTek Industries, Inc. Sat Mar 2 19:46:19 2024 Page 2  |
| The Building Center,         Gastonia, NC - 28052,         8.730 s Feb 22 2024 MiTek Industries, Inc. Sat Mar 2 19:46:19 2024 Page 2  |
|   |
| LOAD CASE(S) Standard   |
| 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15   |
| Uniform Loads (plf)<br>Vert: 1-2=-60, 2-5=-60, 5-6=-70, 6-7=-60, 7-11=-60, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10  |
| <ol> <li>Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)</li> </ol>   |
| Vert: 1-2=-50, 2-5=-50, 5-6=-60, 6-7=-50, 7-11=-50, 17-18=-20, 15-17=-70, 14-15=-20, 14-26=-50, 12-26=-20, 6-19=-10<br>4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  |
| Uniform Loads (plf)<br>Vert: 1-2=-43, 2-5=-43, 5-6=-53, 6-7=-43, 7-11=-43, 17-18=-20, 15-17=-70, 14-15=-20, 14-26=-50, 12-26=-20, 6-19=-10  |
| 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  |
| Uniform Loads (plf)<br>Vert: 1-2=-43, 2-5=-43, 5-6=-53, 6-21=-43, 7-21=-62, 7-11=-27, 17-18=-20, 15-17=-70, 14-15=-20, 14-26=-50, 12-26=-20, 6-19=-10   |
| <ol> <li>Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)</li> </ol>  |
| Vert: 1-2=-27, 2-5=-27, 5-6=-37, 6-7=-27, 7-24=-63, 11-24=-43, 17-18=-20, 15-17=-70, 14-15=-20, 14-26=-50, 12-26=-20, 6-19=-10<br>7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  |
| Uniform Loads (plf)<br>Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-20, 17-18=-40, 15-17=-60, 12-15=-40, 6-19=-10  |
| 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  |
| Uniform Loads (plf)<br>Vert: 1-2=46, 2-20=24, 5-20=14, 5-6=4, 6-7=14, 7-23=24, 11-23=14, 17-18=-12, 15-17=-32, 12-15=-12, 6-19=-10  |
| Horz: 1-2=-58, 2-20=-36, 7-20=-26, 7-23=36, 11-23=26, 2-18=14, 11-12=26<br>9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60   |
| Uniform Loads (plf)<br>Vert: 1-2=9, 2-5=14, 5-6=4, 6-22=14, 7-22=24, 7-25=14, 11-25=24, 17-18=-12, 15-17=-32, 12-15=-12, 6-19=-10   |
| Horz: 1-2=-21, 2-22=-26, 7-22=-36, 7-25=26, 11-25=36, 2-18=-26, 11-12=-14<br>10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  |
| Uniform Loads (plf)<br>Vert: 1-2=-12, 2-5=-33, 5-6=-43, 6-7=-33, 7-11=-33, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10  |
| Horz: 1-2=-8, 2-7=13, 7-11=-13, 2-18=-17, 11-12=-24   |
| 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60<br>Uniform Loads (plf)  |
| Vert: 1-2=-28, 2-5=-33, 5-6=-43, 6-7=-33, 7-11=-33, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10<br>Horz: 1-2=8, 2-7=13, 7-11=-13, 2-18=24, 11-12=17   |
| 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60<br>Uniform Loads (plf)  |
| Vert: 1-2=12, 2-5=-0, 5-6=-10, 6-7=-0, 7-11=5, 17-18=-12, 15-17=-32, 12-15=-12, 6-19=-10<br>Horz: 1-2=-24, 2-7=-12, 7-11=17, 2-18=13, 11-12=15  |
| 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  |
| Uniform Loads (plf)<br>Vert: 1-2=1, 2-5=5, 5-6=-5, 6-7=5, 7-11=-0, 17-18=-12, 15-17=-32, 12-15=-12, 6-19=-10  |
| Horz: 1-2=-13, 2-7=-17, 7-11=12, 2-18=-15, 11-12=-13<br>14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60   |
| Uniform Loads (plf)<br>Vert: 1-2=-23, 2-5=-27, 5-6=-37, 6-7=-27, 7-11=-12, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10  |
| Horz: 1-2=3, 2-7=7, 7-11=8, 2-18=22, 11-12=6<br>15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  |
| Uniform Loads (plf)<br>Vert: 1-2=-7, 2-5=-12, 5-6=-22, 6-7=-12, 7-11=-27, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10   |
| Horz: 1-2=-13, 2-7=-8, 7-11=-7, 2-18=-6, 11-12=-22  |
| <ol> <li>Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)</li> </ol>   |
| Vert: 1-2=25, 2-5=13, 5-6=3, 6-7=13, 7-11=13, 17-18=-12, 15-17=-32, 12-15=-12, 6-19=-10<br>Horz: 1-2=-37, 2-7=-25, 7-11=25, 2-18=-19, 11-12=19  |
| 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60<br>Uniform Loads (plf)  |
| Vert: 1-2=16, 2-5=4, 5-6=-6, 6-7=4, 7-11=4, 17-18=-12, 15-17=-32, 12-15=-12, 6-19=-10<br>Horz: 1-2=-28, 2-7=-16, 7-11=16, 2-18=-19, 11-12=19  |
| 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60   |
| Uniform Loads (plf)<br>Vert: 1-2=-16, 2-5=-21, 5-6=-31, 6-7=-21, 7-11=-21, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10  |
| Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-18=-10, 11-12=10<br>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60   |
| Uniform Loads (plf)<br>Vert: 1-2=-16, 2-5=-21, 5-6=-31, 6-7=-21, 7-11=-21, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10  |
| Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-18=-10, 11-12=10<br>20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15   |
| Uniform Loads (plf)<br>Vert: 1-2=-51, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-20, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10  |
| 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  |
| Uniform Loads (plf)<br>Vert: 1-2=-51, 2-5=-51, 5-6=-61, 6-21=-51, 7-21=-76, 7-11=-29, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10   |
| 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15<br>Uniform Loads (plf)  |
| Vert: 1-2=-29, 2-5=-29, 5-6=-39, 6-7=-29, 7-24=-77, 11-24=-51, 17-18=-20, 15-17=-40, 12-15=-20, 6-19=-10  |

# Continued on page 3

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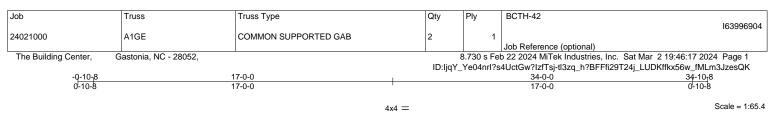


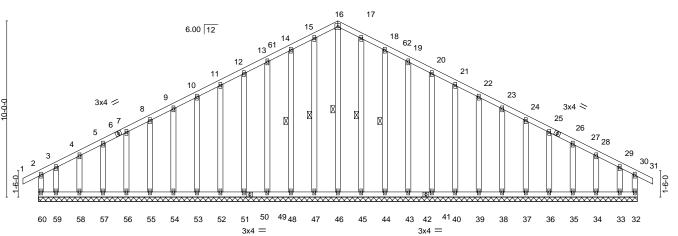
| Job                  | Truss   | Truss Type   | Qty                        | Ply         | BCTH-42  | 10000000       |
|----------------------|---|--|----------------------------|-------------|--|----------------|
| 24021000             | A2  | COMMON   | 7                          | 1           |  | 163996903      |
|                      |   |  |                            |             | Job Reference (optional)                           |                |
| The Building Center, | Gastonia, NC - 28052                                      | ,<br>,   |                            |             | eb 22 2024 MiTek Industries, Inc. Sat Mar 2 19:46: |                |
|                      |   |  | ID:IjqY                    | _Ye04nrl?s4 | 4UctGw?lzfTsj-p7BkFgjFjtWNxMJrAVISQvIU3TDnZ        | rhH6gqt8CzesQI |
| LOAD CASE(S) St      | andard  |  |                            |             |  |                |
|                      |   | per Increase=1.25, Plate Increase=1.25                   |                            |             |  |                |
| Uniform Loads (      | plf)  | ,  |                            |             |  |                |
|                      | , , , ,   | 6-7=-20, 7-11=-20, 17-18=-20, 15-17=-80,                 | ,                          | ,           |  |                |
|                      |   | Attic Storage + 0.75(0.6 MWFRS Wind (Ne                  | eg. Int) Left): Lumber I   | ncrease=1.  | .60, Plate Increase=1.60                           |                |
| Uniform Loads (      |   |  |                            |             |  |                |
|                      |   | 6-7=-49, 7-11=-37, 17-18=-20, 15-17=-70,                 | 14-15=-20, 14-26=-50       | , 12-26=-20 | 0, 6-19=-10  |                |
|                      | -2=2, 2-7=6, 7-11=6, 2-18                                 | = 16, 11-12=5<br>Attic Storage + 0.75(0.6 MWFRS Wind (No | og Int) Pight): Lumbor     | Incroaco-   | 1.60 Plate Increase-1.60                           |                |
| Uniform Loads (      |   | Alle Stolage + 0.75(0.0 MWI KS Wild (W                   | eg. Int/ Kight). Lumber    | increase=   | 1.00, 1 late increase=1.00                         |                |
|                      | . /   | 6-7=-37, 7-11=-49, 17-18=-20, 15-17=-70,                 | 14-15=-20, 14-26=-50       | . 12-26=-20 | 0. 6-19=-10  |                |
|                      | -2=-10, 2-7=-6, 7-11=-6, 2                                |  |                            | ,           | -,   |                |
| 26) Dead + 0.75 Sn   | ow (bal.) + 0.75 Uninhab.                                 | Attic Storage + 0.75(0.6 MWFRS Wind (Ne                  | eg. Int) 1st Parallel): Li | umber Incre | ease=1.60, Plate Increase=1.60                     |                |
| Uniform Loads (      |   |  |                            |             |  |                |
|                      |   | 6-7=-44, 7-11=-44, 17-18=-20, 15-17=-70,                 | 14-15=-20, 14-26=-50       | , 12-26=-20 | 0, 6-19=-10  |                |
|                      | -2=-3, 2-7=1, 7-11=-1, 2-1                                |  |                            |             |  |                |
| Uniform Loads (      |   | Attic Storage + 0.75(0.6 MWFRS Wind (Ne                  | eg. Int) 2nd Parallel): L  | umber Inci  | ease=1.60, Plate Increase=1.60                     |                |
|                      | . /   | 6-7=-44, 7-11=-44, 17-18=-20, 15-17=-70,                 | 14-1520 14-2650            | 12-262      | 0 6-1910   |                |
|                      | -2=-3, 2-7=1, 7-11=-1, 2-1                                |  | 14 10- 20, 14 20- 00       | , 12 20- 20 | 5, 0 15- 10  |                |
|                      | , , ,   | ab. Attic Storage + 0.75(0.6 MWFRS Wind                  | d (Neg. Int) Left): Lumb   | per Increas | e=1.60, Plate Increase=1.60                        |                |
| Uniform Loads (      | plf)  | ũ (  |                            |             |  |                |
|                      |   | 6-7=-56, 7-11=-44, 17-18=-20, 15-17=-70,                 | 14-15=-20, 14-26=-50       | , 12-26=-2  | 0, 6-19=-10  |                |
|                      | -2=2, 2-7=6, 7-11=6, 2-18                                 |  |                            |             |  |                |
|                      |   | ab. Attic Storage + 0.75(0.6 MWFRS Wind                  | d (Neg. Int) Right): Lun   | nber Increa | se=1.60, Plate Increase=1.60                       |                |
| Uniform Loads (      | . /   | 6-7=-44, 7-11=-56, 17-18=-20, 15-17=-70,                 | 14 15- 20 14 26- 50        | 12 26- 20   | 0 6 10- 10   |                |
|                      | -2=-40, 2-5=-44, 5-6=-54, 0<br>-2=-10, 2-7=-6, 7-11=-6, 2 |  | 14-15=-20, 14-20=-50       | , 12-20=-20 | 5, 6-19=-10  |                |
|                      |   | ab. Attic Storage + 0.75(0.6 MWFRS Wind                  | d (Neg. Int) 1st Parallel  | I): Lumber  | Increase=1.60. Plate Increase=1.60                 |                |
| Uniform Loads (      |   |  | - (····g····) ····         | ,           |  |                |
| Vert: 1-             | 2=-47, 2-5=-51, 5-6=-61, 0                                | 6-7=-51, 7-11=-51, 17-18=-20, 15-17=-70,                 | 14-15=-20, 14-26=-50       | , 12-26=-20 | 0, 6-19=-10  |                |
|                      | -2=-3, 2-7=1, 7-11=-1, 2-1                                |  |                            |             |  |                |
|                      |   | ab. Attic Storage + 0.75(0.6 MWFRS Wind                  | d (Neg. Int) 2nd Paralle   | el): Lumber | Increase=1.60, Plate Increase=1.60                 |                |
| Uniform Loads (      | . /   |  | 44.45 00 44.00 50          | 40.00       |  |                |
|                      | 2=-47, 2-5=-51, 5-6=-61, 0<br>-2=-3, 2-7=1, 7-11=-1, 2-1  | 6-7=-51, 7-11=-51, 17-18=-20, 15-17=-70,                 | 14-15=-20, 14-26=-50       | , 12-26=-20 | 0, 6-19=-10  |                |
|                      |   | per Increase=1.15, Plate Increase=1.15                   |                            |             |  |                |
| Uniform Loads (      | · · · · ·   |  |                            |             |  |                |
|                      |   | 6-7=-60, 7-11=-20, 17-18=-20, 15-17=-40,                 | 12-15=-20, 6-19=-10        |             |  |                |
| ,                    | · · · · · · · · · · · · · · · · · · ·                     | ber Increase=1.15, Plate Increase=1.15                   |                            |             |  |                |
| Uniform Loads (      |   |  |                            |             |  |                |
|                      | , , , ,   | 6-7=-20, 7-11=-60, 17-18=-20, 15-17=-40,                 | ,                          |             |  |                |
|                      |   | 0.75 Uninhab. Attic Storage: Lumber Incr                 | ease=1.15, Plate Incre     | ease=1.15   |  |                |
| Uniform Loads (      |   | 6-7=-50, 7-11=-20, 17-18=-20, 15-17=-70,                 | 14-1520 14-2650            | 12-262      | 0 6-1910   |                |
|                      |   | - 0.75 Uninhab. Attic Storage: Lumber Incr               |                            |             | , o 13- 10   |                |
| Uniform Loads (      |   | en e en mabi / tille eterage. Editiber iner              |                            |             |  |                |
|                      |   |  |                            | 10.00       | 0.0.40 40  |                |

Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-50, 17-18=-20, 15-17=-70, 14-15=-20, 14-26=-50, 12-26=-20, 6-19=-10

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|  |  | <u> </u>  |   |                  |                         |                             |                          |                                  |                                    |
|--|--|---|---|------------------|-------------------------|-----------------------------|--------------------------|----------------------------------|------------------------------------|
| LOADING (psf)           TCLL (roof)         20.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014   | CSI.<br>TC 0.17<br>BC 0.09<br>WB 0.10<br>Matrix-R | DEFL.<br>Vert(LL)<br>Vert(CT<br>Horz(CT | -0.00<br>) -0.00 | (loc)<br>31<br>31<br>32 | l/defl<br>n/r<br>n/r<br>n/a | L/d<br>120<br>120<br>n/a | PLATES<br>MT20<br>Weight: 310 lb | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 SP No.2<br>BOT CHORD 2x4 SP No.2<br>WEBS 2x4 SP No.3<br>OTHERS 2x4 SP No.3  | BRACING-<br>TOP CHORDStructural wood sheathing directly applied or 6-0-0 oc purlins,<br>except end verticals.BOT CHORDRigid ceiling directly applied or 6-0-0 oc bracing.WEBS1 Row at midpt16-46, 15-47, 14-48, 17-45, 18-44 |   |   |                  |                         |                             |                          |                                  |                                    |

**REACTIONS.** All bearings 34-0-0.

(lb) - Max Horz 60=-175(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33 except 60=-135(LC 14), 59=-136(LC 15) Max Grav All reactions 250 lb or less at joint(s) 60, 32, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 45, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33

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

TOP CHORD 12-13=-85/272, 13-14=-95/299, 14-15=-106/330, 15-16=-109/341, 16-17=-109/336,

17-18=-106/325, 18-19=-95/293, 19-20=-85/266

# NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-4-0, Exterior(2) 2-4-0 to 17-0-0, Corner(3) 17-0-0 to 20-4-13, Exterior(2) 20-4-13 to 34-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

7) All plates are 2x4 MT20 unless otherwise indicated.

- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 1-4-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33 except (jt=lb) 60=135, 59=136.



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