

Trenco 818 Soundside Rd Edenton, NC 27932

Re: Master_Craftsman Mattamy; Redwood

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I48764253 thru I48764273

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



November 11,2021

Sevier, Scott

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.



| | | | | | | 33-1-0 | | | | | | | - |
|-------------------------|-----------------------|--|-----------------------|------------------|--------------|-------------------------------|----------------------|-----------------|----------------------|-------------------|--------------------------|------------------------|---|
| | | | I | | | 33-1-0 | | | | | | | |
| LOADING TCLL TCDL | (psf) 20.0 10.0 | SPACING- Plate Grip DOL Lumber DOL | 2-0-0 1.15 1.15 | CSI. TC BC | 0.09 0.05 | DEFL. Vert(LL) Vert(CT) | in -0.00 -0.00 | (loc) 1 1 | l/defl n/r n/r | L/d 120 120 | PLATES MT20 | GRIP 244/190 | |
| BCDL | 10.0 | Code IRC2015/TP | 12014 | Matrix | k-R | 11012(01) | 0.00 | 22 | n/a | 11/4 | Weight: 203 lb | FT = 20% | |
| LUMBER- | RD 2x4 SP No | 0.2 | | | | BRACING- TOP CHOF | RD | Structu | ral wood | sheathing dir | ectly applied or 6-0-0 o | oc purlins, | |

BOT CHORD

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

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

REACTIONS. All bearings 33-1-0.

(Ib) - Max Horz 41=76(LC 12)

 Max Uplift
 All uplift 100 lb or less at joint(s) 41, 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, 23

 except 40=-128(LC 12)

 Max Grav
 All reactions 250 lb or less at joint(s) 41, 22, 31, 32, 33, 35, 36, 37, 38, 39, 40, 30, 29, 27, 26,

Crav All reactions 250 ib or less at joint(s) 41, 22, 31, 32, 33, 36, 37, 38, 39, 40, 30, 29, 27, 26, 25, 24, 23

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 16-8-0, Exterior(2) 16-8-0 to 21-4-9, Interior(1) 21-4-9 to 32-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

7) Gable studs spaced at 2-0-0 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) 41, 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, 23 except (jt=lb) 40=128.



WARNING - 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 **MSIVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







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| MASTER_CRAFTSMAN | A02 | СОММОН | 7 | 1 | lab Deference (antional) | 148764254 |
|---|--|---|--------------------------|----------|--|-----------------------------|
| Builders FirstSource, Apex, NC 2 | 27523 | | | | 3.430 s Aug 16 2021 MiTek Industries, Inc. Thu | Nov 11 11:25:01 2021 Page 2 |
| | | | ID:x1XJJWVVBLqE?VC | Relagin | stymvxu-zhlotlqvxpiuyiOvHv57F0A0v | J36KWVKCU1XWgyKGgG |
| 2) Dead + 0.75 Roof Live (| balanced): Lumber Increase= | 1 15 Plate Increase=1 15 | | | | |
| Uniform Loads (plf) | | | | | | |
| Vert: 1-2=-50, 2 | 2-6=-50, 6-10=-50, 11-16=-20 ttic Without Storage: Lumber | , 17-18=-30 Increase-1 25, Plate Increase-1 25 | | | | |
| Uniform Loads (plf) | alo minour otorago. Lambor | moreade=1.20, 1 late moreade=1.20 | | | | |
| Vert: 1-2=-20, 2 4) Dead + 0.6 C-C Wind (F | 2-6=-20, 6-10=-20, 11-16=-40 | , 17-18=-40 Increase-1.60 Plate Increase-1.60 | | | | |
| Uniform Loads (plf) | os. Internaly Gase T. Euriber | | | | | |
| Vert: 1-2=42, 2- | -21=22, 6-21=12, 6-7=22, 7-1 | 0=12, 11-16=-12 | | | | |
| 5) Dead + 0.6 C-C Wind (F | Pos. Internal) Case 2: Lumber | Increase=1.60, Plate Increase=1.60 | | | | |
| Uniform Loads (plf) | -12 5 6-22 6 24-12 10 24 | -22 11 16- 12 | | | | |
| Horz: 2-16=-25 | , 1-2=-20, 2-5=-24, 5-6=-34, 6 | 6-24=24, 10-24=34, 10-11=-13 | | | | |
| 6) Dead + 0.6 C-C Wind (N | leg. Internal) Case 1: Lumber | r Increase=1.60, Plate Increase=1.60 | | | | |
| Vert: 1-2=-13, 2 | 2-6=-32, 6-10=-32, 11-16=-20 | | | | | |
| Horz: 2-16=-16 | , 1-2=-7, 2-6=12, 6-10=-12, 1 | 0-11=-22 | | | | |
| Uniform Loads (plf) | veg. Internal) Case 2. Lumber | increase=1.00, Flate increase=1.00 | | | | |
| Vert: 1-2=-27, 2 | 2-6=-32, 6-10=-32, 11-16=-20 | 11_16 | | | | |
| 8) Dead + 0.6 MWFRS Wir | nd (Pos. Internal) Left: Lumbe | er Increase=1.60, Plate Increase=1.60 | | | | |
| Uniform Loads (plf) | 6-10 6 10-9 11 16- 12 | | | | | |
| Horz: 2-16=13, | 1-2=-32, 2-6=-22, 6-10=20, 1 | 0-11=16 | | | | |
| 9) Dead + 0.6 MWFRS Wir | nd (Pos. Internal) Right: Lumi | per Increase=1.60, Plate Increase=1.6 | 0 | | | |
| Vert: 1-2=4, 2-6 | 5=8, 6-10=10, 11-16=-12 | | | | | |
| Horz: 2-16=-16 | , 1-2=-16, 2-6=-20, 6-10=22, /ind (Neg. Internal) Left: Lum! | 10-11=-13 ber Increase-1.60. Plate Increase-1.6 | SO. | | | |
| Uniform Loads (plf) | inia (Nog. momal) Eon. Ean | | | | | |
| Vert: 1-2=-2, 2 Horz: 2-16=21 | 2-6=-7, 6-10=-8, 11-16=-20 | 10-11=7 | | | | |
| 11) Dead + 0.6 MWFRS W | /ind (Neg. Internal) Right: Lur | nber Increase=1.60, Plate Increase=1 | .60 | | | |
| Uniform Loads (plf) Vert: 1-2=-4-2 | 2-6=-8 6-10=-7 11-16=-20 | | | | | |
| Horz: 2-16=-7 | , 1-2=-16, 2-6=-12, 6-10=13, | 10-11=-21 | | | | |
| 12) Dead + 0.6 MWFRS W | /ind (Pos. Internal) 1st Paralle | el: Lumber Increase=1.60, Plate Increa | ase=1.60 | | | |
| Vert: 1-2=14, 2 | 2-22=19, 6-22=9, 6-10=2, 11- | -16=-12 | | | | |
| Horz: 2-16=11 13) Dead + 0.6 MWFRS W | l, 1-2=-26, 2-22=-31, 6-22=-2 /ind (Pos_Internal) 2nd Parall | 1, 6-10=14, 10-11=12 el: Lumber Increase=1 60. Plate Incre | ase=1.60 | | | |
| Uniform Loads (plf) | | | | | | |
| Vert: 1-2=-3, 2 Horz: 2-16=-1 | 2-6=2, 6-23=9, 10-23=19, 11- 2, 1-2=-9, 2-6=-14, 6-23=21, | 16=-12 10-23=31, 10-11=-11 | | | | |
| 14) Dead + 0.6 MWFRS W | /ind (Pos. Internal) 3rd Paralle | el: Lumber Increase=1.60, Plate Increa | ase=1.60 | | | |
| Uniform Loads (plf) Vert: 1-2=5. 2- | -6=9. 6-10=2. 11-16=-12 | | | | | |
| Horz: 2-16=5, | 1-2=-17, 2-6=-21, 6-10=14, 1 | 0-11=12 | | | | |
| 15) Dead + 0.6 MWFRS W Uniform Loads (plf) | lind (Pos. Internal) 4th Paralle | el: Lumber Increase=1.60, Plate Increa | ase=1.60 | | | |
| Vert: 1-2=-3, 2 | 2-6=2, 6-10=9, 11-16=-12 | | | | | |
| 16) Dead + 0.6 MWFRS W | 2, 1-2=-9, 2-6=-14, 6-10=21, /ind (Neg. Internal) 1st Paralle | el: Lumber Increase=1.60, Plate Increa | ase=1.60 | | | |
| Uniform Loads (plf) | 22-2 6 22 7 6 10 15 11 | 16 - 20 | | | | |
| Horz: 2-16=19 |), 1-2=-26, 2-22=-22, 6-22=-1 | 3, 6-10=5, 10-11=3 | | | | |
| 17) Dead + 0.6 MWFRS W | /ind (Neg. Internal) 2nd Paral | lel: Lumber Increase=1.60, Plate Incre | ease=1.60 | | | |
| Vert: 1-2=-11, | 2-6=-15, 6-23=-7, 10-23=2, 2 | 11-16=-20 | | | | |
| Horz: 2-16=-3 | , 1-2=-9, 2-6=-5, 6-23=13, 10 | -23=22, 10-11=-19 | | | | |
| Uniform Loads (plf) | e=0.90, Flate Inclease=0.90 | | | | | |
| Vert: 1-2=-20, | 2-6=-20, 6-10=-20, 11-16=-2 | 0, 17-18=-40 | n Int) Loft): Lumbor I | noroaco- | -1.60 Plata | |
| Increase=1.60 | (bai.) + 0.75 Ommab. Auto C | | g. Int) Leit). Luinbei i | nciease= | 1.00, Flate | |
| Uniform Loads (plf) | 2-640 6-10- 41 11 16- 2 | 0 17-1830 | | | | |
| Horz: 2-16=16 | 6, 1-2=-13, 2-6=-10, 6-10=9, 1 | 10-11=6 | | | | |
| 20) Dead + 0.75 Roof Live | (bal.) + 0.75 Uninhab. Attic S | Storage + 0.75(0.6 MWFRS Wind (Neg | g. Int) Right): Lumber | Increase | ≥=1.60, Plate | |
| Uniform Loads (plf) | | | | | | |
| Vert: 1-2=-38, Horz: 2-16=-6 | 2-6=-41, 6-10=-40, 11-16=-2 , 1-2=-12, 2-6=-9, 6-10=10, 1 | 0, 17-18=-30 0-11=-16 | | | | |

Qty

Ply

Mattamy; Redwood

ntinued on page 3

Job

Truss

Truss Type

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| Job | Truss | Truss Type | Qty | Ply | Mattamy; Redwood |
|----------------------------------|-------|------------|-----|-----|---|
| | | | | | 148764254 |
| MASTER_CRAFTSMAN | A02 | COMMON | 7 | 1 | |
| | | | | | Job Reference (optional) |
| Builders FirstSource, Apex, NC 2 | 7523 | | | 8 | .430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 11 11:25:01 2021 Page 3 |

ID:x1XjjwWBLqE?VCReTaQN3tymvXu-zHLbtLQVXpluyIOVHV57F0Aovd36KWvKcu1xWgyKGgG

LOAD CASE(S)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-30, 2-22=-34, 6-22=-41, 6-10=-46, 11-16=-20, 17-18=-30

Horz: 2-16=15, 1-2=-20, 2-22=-16, 6-22=-9, 6-10=4, 10-11=2

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

- Uniform Loads (plf)
 - Vert: 1-2=-43, 2-6=-46, 6-23=-41, 10-23=-34, 11-16=-20, 17-18=-30 Horz: 2-16=-2, 1-2=-7, 2-6=-4, 6-23=9, 10-23=16, 10-11=-15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-6=-60, 6-10=-20, 11-16=-20

- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-20, 2-6=-20, 6-10=-60, 11-16=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-50, 2-6=-50, 6-10=-20, 11-16=-20, 17-18=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-20, 2-6=-20, 6-10=-50, 11-16=-20, 17-18=-30

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2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 16-8-0, Exterior(2) 16-8-0 to 21-4-9, Interior(1) 21-4-9 to 32-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Refer to girder(s) for truss to truss connections.



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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 16-8-0, Exterior(2) 16-8-0 to 21-4-9, Interior(1) 21-4-9 to 34-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



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| | | | 33-4-0 | | |
|--|---|--|--|--|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014 | CSI. TC 0.09 BC 0.04 WB 0.13 Matrix-R | DEFL. ir Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00 | n (loc) l/defl L/d 23 n/r 120 23 n/r 120 24 n/a n/a | PLATES GRIP MT20 244/190 Weight: 206 lb FT = 20% |
| LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF | 2 No.2 2 No.2 | | BRACING- TOP CHORD | Structural wood sheathing dire | ectly applied or 6-0-0 oc purlins, |

BOT CHORD

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

IOF CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3OTHERS2x4 SP No.3

REACTIONS. All bearings 33-4-0.

(lb) - Max Horz 44=71(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 44, 24, 35, 36, 38, 39, 40, 41, 42, 33, 32, 30, 29, 28, 27, 26, 25 except 43=-122(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 44, 24, 34, 35, 36, 38, 39, 40, 41, 42, 43, 33, 32, 30, 29, 28, 27, 26, 25

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-4-0, Interior(1) 2-4-0 to 16-8-0, Exterior(2) 16-8-0 to 21-4-9, Interior(1) 21-4-9 to 34-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

7) Gable studs spaced at 2-0-0 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) 44, 24, 35, 36, 38, 39, 40, 41, 42, 33, 32, 30, 29, 28, 27, 26, 25 except (jt=lb) 43=122.



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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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 1-9-0, Exterior(2) 1-9-0 to 5-9-0, Corner(3) 5-9-0 to 8-9-0, Exterior(2) 8-9-0 to 12-6-0 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.
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- 7) Gable studs spaced at 2-0-0 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) 16, 10, 14, 15, 12, 11.



WARNING - 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 sand truss system. 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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.



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| Job | Truss | Truss Type | Qty | Ply | Mattamy; Redwood | |
|-----------------------------|------------------------|------------|---------|-----------|---|-----------|
| | | | | | | 148764260 |
| MASTER_CRAFTSMAN | C02-2PL | COMMON | 1 | 2 | | |
| | | | | – | Job Reference (optional) | |
| Builders FirstSource (Apex, | NC), Apex, NC - 27523, | | 8. | 430 s Aug | 16 2021 MiTek Industries, Inc. Thu Nov 11 08:57:40 2021 | Page 2 |
| | | ID:x1Xjjw | WBLgE?V | CReTaQN | 3tymvXu-iVxQaTBYcmp1k5cC4MsU1dWwvmbJN k0dvvdi | cyKlqP |

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 9=-1290(B) 21=-1290(B) 22=-1290(B) 23=-1290(B) 24=-1290(B) 25=-1290(B) 26=-1290(B) 27=-1290(B) 28=-1290(B)

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| | 6-0-0 | | | 12-0-0 | | _ |
|--|---|--------------------------------|------------------------------------|--|---|-------------|
| Plate Offsets (X V) | 6-0-0 [2:0-0-0 0-1-6] [2:0-3-3 Edge] [4:0-0-0 | 0-1-6] [4·0-3-3 Edge] | | 6-0-0 | | • |
| | [2.0-0-0,0-1-0], [2.0-0-0,Luge], [4.0-0-0, | <u>0-1-0j, [4.0-3-3, Lugej</u> | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in | (loc) I/defl L/ | /d PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.39 | Vert(LL) -0.04 | 6-9 >999 36 | 60 MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.35 | Vert(CT) -0.07 | 6-9 >999 24 | 10 | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.10 | Horz(CI) 0.01 | 2 n/a n/ | | FT 000/ |
| BCDL 10.0 | Code IRC2015/1P12014 | Matrix-MS | VVINd(LL) 0.03 | 6-9 >999 24 | to vveight: 47 lb | FT = 20% |
| LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S WEDGE Left: 2x4 SP No.3 , R | SP No.2 SP No.2 SP No.3 ight: 2x4 SP No.3 | | BRACING- TOP CHORD BOT CHORD | Structural wood shea Rigid ceiling directly | athing directly applied or 6-0-0 applied or 10-0-0 oc bracing. | oc purlins. |
| REACTIONS. (si Max Max Max | ize) 2=0-3-0, 4=0-3-0 Horz 2=39(LC 12) Uplift 2=-32(LC 12), 4=-32(LC 13) Grav 2=540(LC 1), 4=540(LC 1) | | | | | |
| FORCES. (lb) - Max TOP CHORD 2-33 BOT CHORD 2-63 WEBS 3-63 | x. Comp./Max. Ten All forces 250 (lb) or =-686/77, 3-4=-686/77 =-1/578, 4-6=-1/578 =0/251 | less except when shown. | | | | |
| NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7 10: | ve loads have been considered for this de | sign. | II: Evp P: Epologodi I | | | |

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-12 to 4-0-0, Interior(1) 4-0-0 to 5-10-11, Exterior(2) 5-10-11 to 8-10-11, Interior(1) 8-10-11 to 11-0-10 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) 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.

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

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NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) 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.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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2x4 ⋍

2x4 🗢

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

| ⊢ −− | | | 3-9-6 3-9-6 | |
|--|---|--|--|--|
| Plate Offsets (X,Y) | [2:0-3-0,Edge] | | | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014 | CSI. TC 0.02 BC 0.06 WB 0.00 Matrix-P | DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Vert(CT) 0/a - n/a 999 Horz(CT) 0.00 3 n/a n/a | PLATES GRIP MT20 244/190 Weight: 9 lb FT = 20% |
| LUMBER- TOP CHORD 2x4 SP | No.2 | | BRACING- TOP CHORD Structural wood sheathi | ng directly applied or 3-9-6 oc purlins. |

BOT CHORD

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

REACTIONS. (size) 1=3-9-6, 3=3-9-6 Max Horz 1=-6(LC 17) Max Uplift 1=-3(LC 12), 3=-3(LC 13) Max Grav 1=93(LC 1), 3=93(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) Gable requires continuous bottom chord bearing.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5)

will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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| | 0-2-8 | 4-4-0 | | 8-5-8 | 8-8-0 |
|--|---|--|--|---|---|
| | 0-2-8 | 4-1-8 | 1 | 4-1-8 | 0-2-8 |
| Plate Offsets (X,Y) | [2:0-0-0,0-1-6], [2:0-1-12,0-5-6], | [4:0-0-0,0-1-6], [4:0-1-12,0-5-6] | | | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.11 Lumber DOL 1.11 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. 5 TC 0.16 5 BC 0.18 8 WB 0.06 Matrix-MS Matrix-MS | DEFL. in Vert(LL) -0.01 Vert(CT) -0.02 Horz(CT) 0.00 Wind(LL) 0.01 | (loc) l/defl L/d 6-12 >999 360 6-12 >999 240 4 n/a n/a 6-9 >999 240 | PLATES GRIP MT20 244/190 Weight: 35 lb FT = 20% |
| LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF WEDGE Left: 2x4 SP No.3 , Rig | P No.2 P No.2 P No.3 Iht: 2x4 SP No.3 | | BRACING- TOP CHORD BOT CHORD | Structural wood sheathing dir Rigid ceiling directly applied o | ectly applied or 6-0-0 oc purlins. or 10-0-0 oc bracing. |
| REACTIONS. (size | e) 2=0-3-0, 4=0-3-0 | | | | |

Max Horz 2=-32(LC 13) Max Uplift 2=-40(LC 8), 4=-40(LC 9) Max Grav 2=407(LC 1), 4=407(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-485/87, 3-4=-485/87 BOT CHORD 2-6=-19/420, 4-6=-19/420

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-4-0, Exterior(2) 4-4-0 to 8-8-0, Interior(1) 8-8-0 to 9-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

* 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 4) will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

WARNING - 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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

OTHERS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. All bearings 8-3-0.

Max Horz 2=27(LC 12) (lb) -Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 4-4-0, Corner(3) 4-4-0 to 7-4-0, Exterior(2) 7-4-0 to 9-8-0 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.

Gable studs spaced at 2-0-0 oc.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8. 8) Non Standard bearing condition. Review required.

WARNING - 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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

| | | Q-2-8 | | | 5-7-12 | | | | | | 8-8-0 | |
|------------|------------|---------------------------|-----------------|-----------|--------|----------|-------|-------|--------|-----|---------------|----------|
| | | d-2-8 | | | 5-5-4 | | | | | | 3-0-4 | |
| Plate Offs | sets (X,Y) | [2:0-3-8,Edge], [4:0-1-12 | ,0-5-6], [4:0-0 | -0,0-1-6] | | | | | | | | |
| | | | | | | | | | | | | |
| 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 | 0.21 | Vert(LL) | -0.02 | 5-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.23 | Vert(CT) | -0.04 | 5-11 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TI | PI2014 | Matri | k-MS | Wind(LL) | 0.01 | 5-11 | >999 | 240 | Weight: 34 lb | FT = 20% |

LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 WEDGE
 2x4 SP No.3

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 5=0-3-8, 4=Mechanical, 2=0-3-0

Max Horz 2=35(LC 12) Max Uplift 4=-31(LC 13), 2=-48(LC 8)

Max Grav 5=230(LC 1), 4=190(LC 1), 2=333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-276/110

NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-4-0, Exterior(2) 4-4-0 to 8-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

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

BRACING-TOP CHORDStructural woBOT CHORDRigid ceiling with the second sec

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

3x4 =ł

| Plate Offsets (X, Y) | [2:0-0-1,0-0-0], [4:Edge,0-2-0] | | | | | | |
|--|---|--|--|---|---------------------------------|----------------|------------------------------------|
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2015/TPI2014 | CSI. TC 0.59 BC 0.42 WB 0.00 Matrix-MS | DEFL. in Vert(LL) -0.06 Vert(CT) -0.15 Horz(CT) 0.02 Wind(LL) 0.05 | (loc) l/defl 4-7 >999 4-7 >536 2 n/a 4-7 >999 | L/d 360 240 n/a 240 | PLATES MT20 | GRIP 244/190 FT = 20% |
| | | IVIAUIX-IVIO | BRACING- | 4-1 2333 | 240 | | 11 - 2076 |

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=75(LC 11)

Max Uplift 2=-49(LC 8), 4=-26(LC 8)

Max Grav 2=339(LC 1), 4=270(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

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

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

except end verticals.

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Edenton, NC 27932

2x4 ⋍

2x4 ||

| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 10.0 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES | CSI. TC 0.16 BC 0.10 WB 0.00 Matrix B | DEFL. i Vert(LL) n/s Vert(CT) n/s Horz(CT) 0.00 | n (loc) l/defl L/d a - n/a 999 a - n/a 999) 3 n/a n/a | PLATES GRIP MT20 244/190 |
|--|---|---|--|---|--------------------------------------|
| LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP | No.2 No.2 | | BRACING- TOP CHORD | Structural wood sheathing di except end verticals. | rectly applied or 4-1-13 oc purlins, |

(size) 1=4-1-13, 3=4-1-13 Max Horz 1=29(LC 9) Max Uplift 1=-8(LC 8), 3=-12(LC 12) Max Grav 1=119(LC 1), 3=119(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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