

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0524-2981
Lot 132 Duncans Creek

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

Pages or sheets covered by this seal: I65757059 thru I65757080

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

North Carolina COA: C-0844



May 22, 2024

Gilbert, Eric

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

| | | | | | | |
|-------------------|----------------|------------------------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss A01GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757059 |
|-------------------|----------------|------------------------------------|----------|----------|---|-----------|

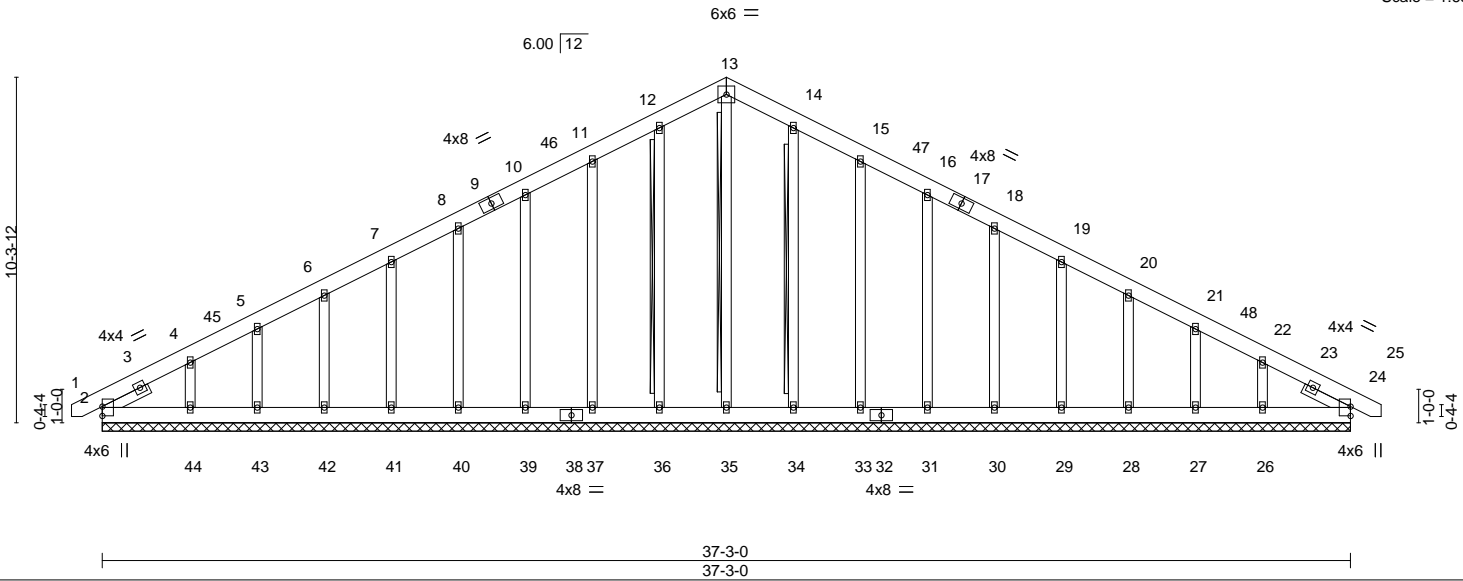
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:06 2024 Page 1

ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0 18-7-8 37-3-0 38-2-0
0-11-0 18-7-8 18-7-8 0-11-0

Scale = 1:68.8



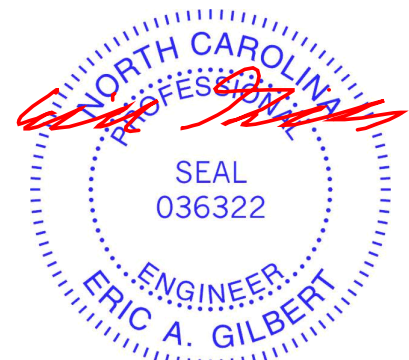
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.06 | Vert(LL) | 0.00 | 24 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.03 | Vert(CT) | 0.00 | 24 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.13 | Horz(CT) | 0.01 | 24 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 325 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.2 | WEBS T-Brace: 2x4 SPF No.2 - 13-35, 12-36, 14-34 |
| SLIDER Left 2x4 SP No.2 1-6-4, Right 2x4 SP No.2 1-6-4 | Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. |
| | Brace must cover 90% of web length. |

REACTIONS. All bearings 37-3-0.
 (lb) - Max Horz 2=196(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 37, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27 except 44=-158(LC 12), 26=-139(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, 29, 28, 27, 26, 24

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-264/89, 10-11=-102/287, 11-12=-124/350, 12-13=-138/387, 13-14=-138/386, 14-15=-124/349, 15-16=-102/286
 WEBS 4-44=-143/251, 22-26=-143/251

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 18-7-8, Corner(3) 18-7-8 to 23-0-5, Exterior(2) 23-0-5 to 38-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 36, 37, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27 except (jt=lb) 44=158, 26=139.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 24.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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.sbccomponents.com)

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

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|-------------------|--------------|----------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss A02 | Truss Type COMMON | Qty 7 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757060 |
|-------------------|--------------|----------------------|----------|----------|---|-----------|

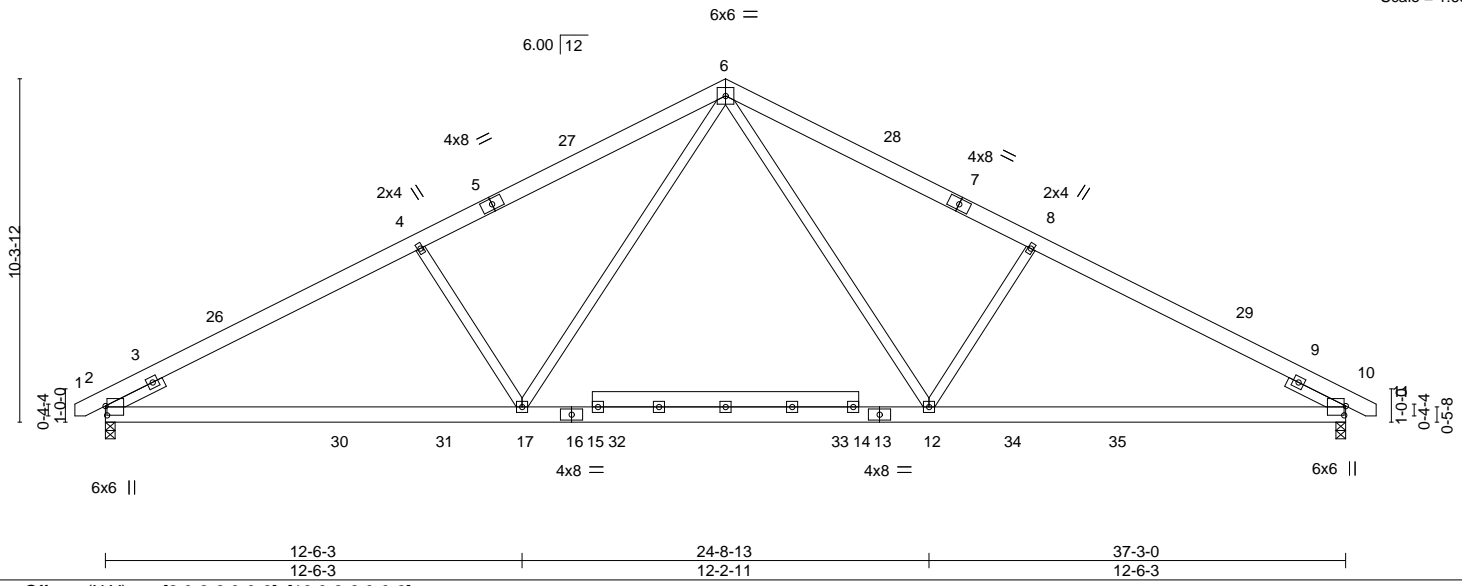
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ID:0JmVjnyAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

| | | | | | |
|-------------------|----------------|-----------------|-----------------|-----------------|------------------|
| -0-11-0 0-11-0 | 9-5-8 9-5-8 | 18-7-8 9-2-0 | 27-9-8 9-2-0 | 37-3-0 9-5-8 | 38-2-0 0-11-0 |
|-------------------|----------------|-----------------|-----------------|-----------------|------------------|

Scale = 1:69.2



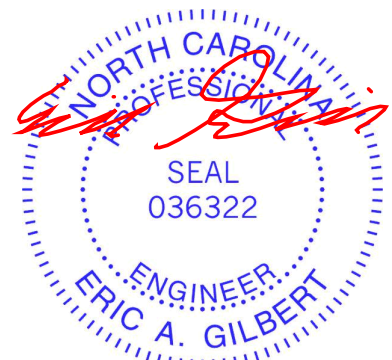
| | | | | | |
|------------------------|-----------------------------------|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X, Y)-- | [2:0-3-6,0-0-9], [10:0-3-6,0-0-9] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.27 | Vert(LL) -0.17 12-17 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.56 | Vert(CT) -0.26 12-17 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.31 | Horz(CT) 0.06 10 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-AS | Wind(LL) 0.06 12-17 >999 240 | Weight: 264 lb | FT = 20% |

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|--|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.2 | |
| SLIDER Left 2x4 SP No.2 1-11-0, Right 2x4 SP No.2 1-11-0 | |

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|-------------------|--|
| REACTIONS. | (size) 2=0-3-8, 10=0-3-8 |
| | Max Horz 2=-126(LC 10) |
| | Max Uplift 2=-99(LC 12), 10=-99(LC 13) |
| | Max Grav 2=1634(LC 2), 10=1634(LC 2) |

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|----------------|--|
| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 2-4=-2638/546, 4-6=-2428/571, 6-8=-2428/571, 8-10=-2638/546 |
| BOT CHORD | 2-17=-335/2327, 12-17=-125/1597, 10-12=-345/2276 |
| WEBS | 6-12=-123/980, 8-12=-501/297, 6-17=-123/980, 4-17=-501/297 |

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-7-8, Exterior(2) 18-7-8 to 23-0-5, Interior(1) 23-0-5 to 38-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 4x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>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/TPH 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)</p> | <p>818 Soundside Road Edenton, NC 27932</p> |
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|-------------------|---------------|----------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss A02A | Truss Type COMMON | Qty 2 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757061 |
|-------------------|---------------|----------------------|----------|----------|---|-----------|

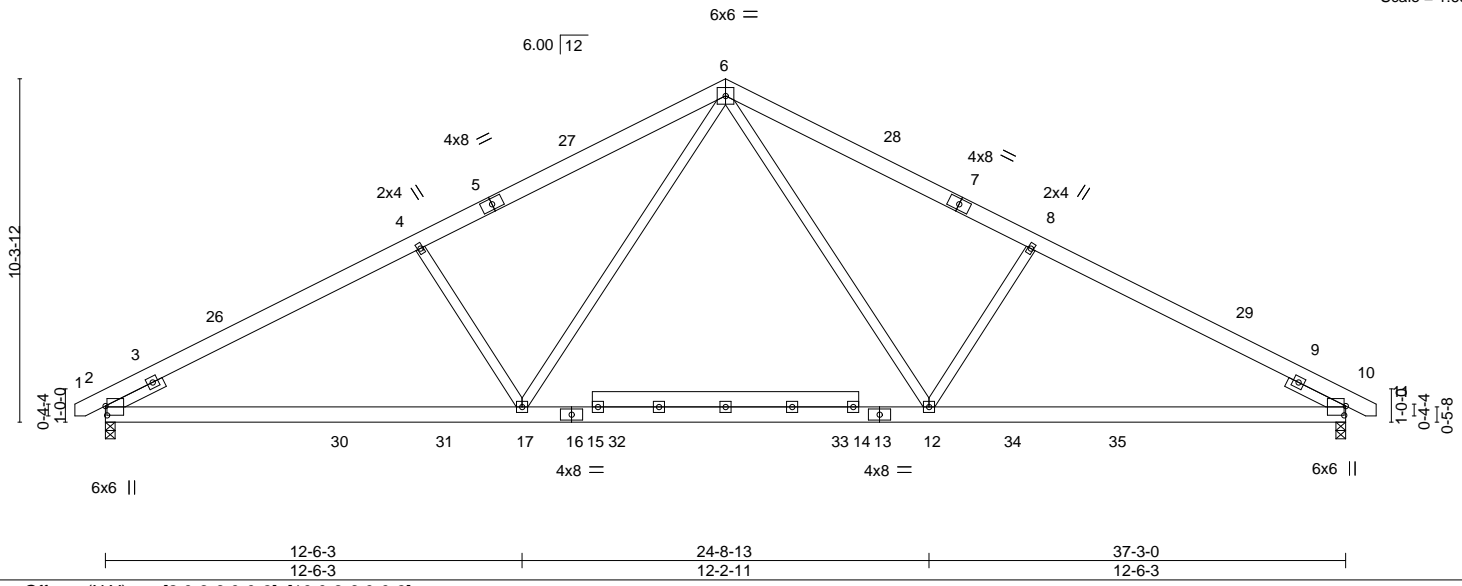
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| | | | | | |
|------------------|----------------|-----------------|-----------------|-----------------|------------------|
| 0-11-0 0-11-0 | 9-5-8 9-5-8 | 18-7-8 9-2-0 | 27-9-8 9-2-0 | 37-3-0 9-5-8 | 38-2-0 0-11-0 |
|------------------|----------------|-----------------|-----------------|-----------------|------------------|

Scale = 1:69.2



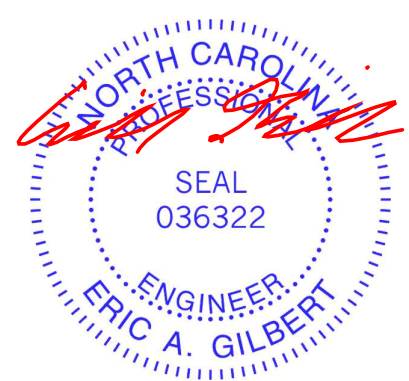
| | | | | | |
|-----------------------|-----------------------------------|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X,Y)-- | [2:0-3-6,0-0-9], [10:0-3-6,0-0-9] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.27 | Vert(LL) -0.17 12-17 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.56 | Vert(CT) -0.26 12-17 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.31 | Horz(CT) 0.06 10 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-AS | Wind(LL) 0.06 12-17 >999 240 | Weight: 264 lb | FT = 20% |

| | |
|--|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.2 | |
| SLIDER Left 2x4 SP No.2 1-11-0, Right 2x4 SP No.2 1-11-0 | |


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|-------------------|--|
| REACTIONS. | (size) 2=0-3-8, 10=0-3-8 |
| | Max Horz 2=-126(LC 10) |
| | Max Uplift 2=-99(LC 12), 10=-99(LC 13) |
| | Max Grav 2=1634(LC 2), 10=1634(LC 2) |

| | |
|----------------|--|
| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 2-4=-2638/546, 4-6=-2428/571, 6-8=-2428/571, 8-10=-2638/546 |
| BOT CHORD | 2-17=-335/2327, 12-17=-125/1597, 10-12=-345/2276 |
| WEBS | 6-12=-123/980, 8-12=-501/297, 6-17=-123/980, 4-17=-501/297 |

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-7-8, Exterior(2) 18-7-8 to 23-0-5, Interior(1) 23-0-5 to 38-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 4x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 22, 2024

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|-------------------|--------------|----------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss A03 | Truss Type COMMON | Qty 3 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757062 |
|-------------------|--------------|----------------------|----------|----------|---|-----------|

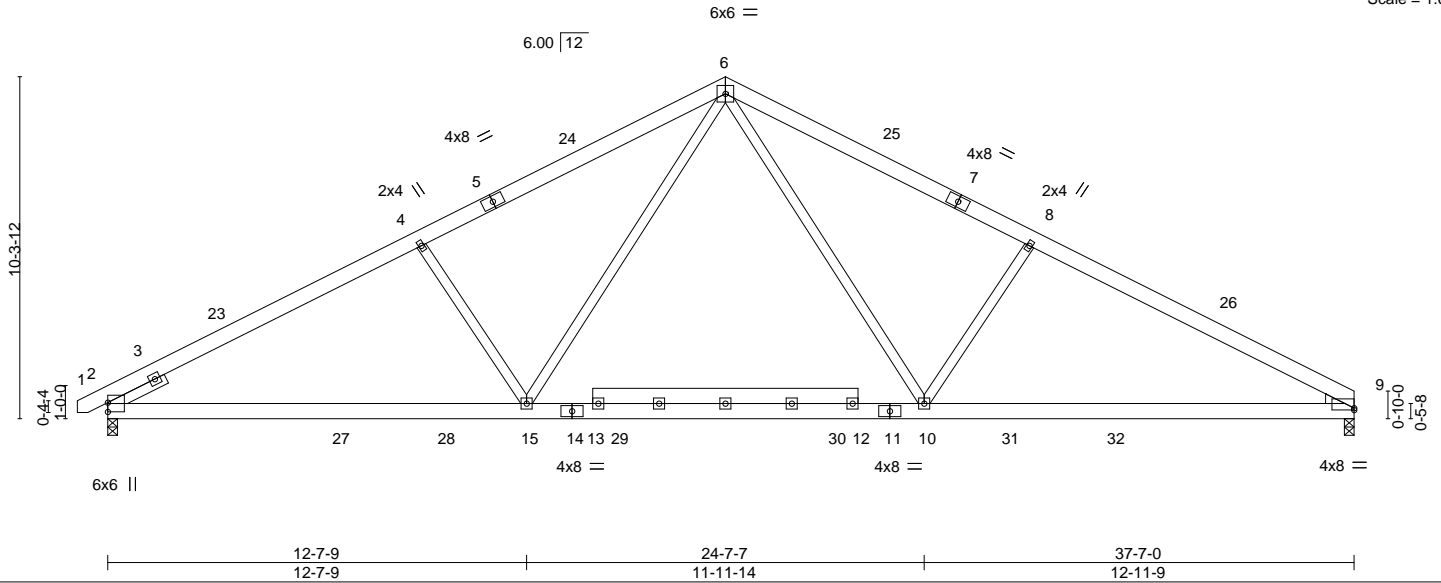
Comtech, Inc. Fayetteville, NC - 28314,

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Scale = 1:69.5



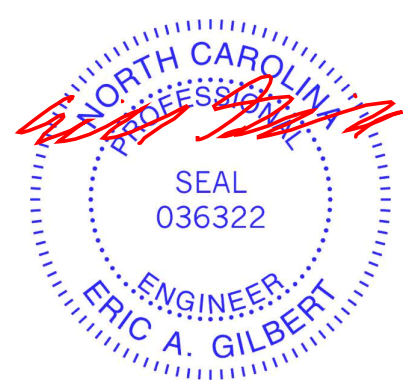
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|-----------------------|-----------------------|-------------|----------------------------------|---------------|-------------|-------------------------|
| Plate Offsets (X,Y)-- | [9:0-0-0,0-0-11] | | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP | |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.29 | Vert(LL) -0.16 10-15 >999 360 | MT20 | 244/190 | |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.60 | Vert(CT) -0.28 10-22 >999 240 | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.35 | Horz(CT) 0.06 9 n/a n/a | | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-AS | Wind(LL) 0.06 10-15 >999 240 | | | Weight: 262 lb FT = 20% |

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|--------------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied. |
| WEBS 2x4 SP No.2 | |
| WEDGE | |
| Right: 2x4 SP No.3 | |
| SLIDER Left 2x4 SP No.2 1-11-0 | |

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=128(LC 11)
 Max Uplift 2=-99(LC 12), 9=-91(LC 13)
 Max Grav 2=1647(LC 2), 9=1603(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2660/553, 4-6=-2443/573, 6-8=-2495/590, 8-9=-2749/571
 BOT CHORD 2-15=-359/2342, 10-15=-136/1621, 9-10=-371/2365
 WEBS 4-15=-503/298, 6-15=-121/962, 6-10=-135/1043, 8-10=-546/313

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-7-8, Exterior(2) 18-7-8 to 23-0-5, Interior(1) 23-0-5 to 37-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 4x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 22, 2024

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|-------------------|--------------|----------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss A04 | Truss Type COMMON | Qty 2 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757063 |
|-------------------|--------------|----------------------|----------|----------|---|-----------|

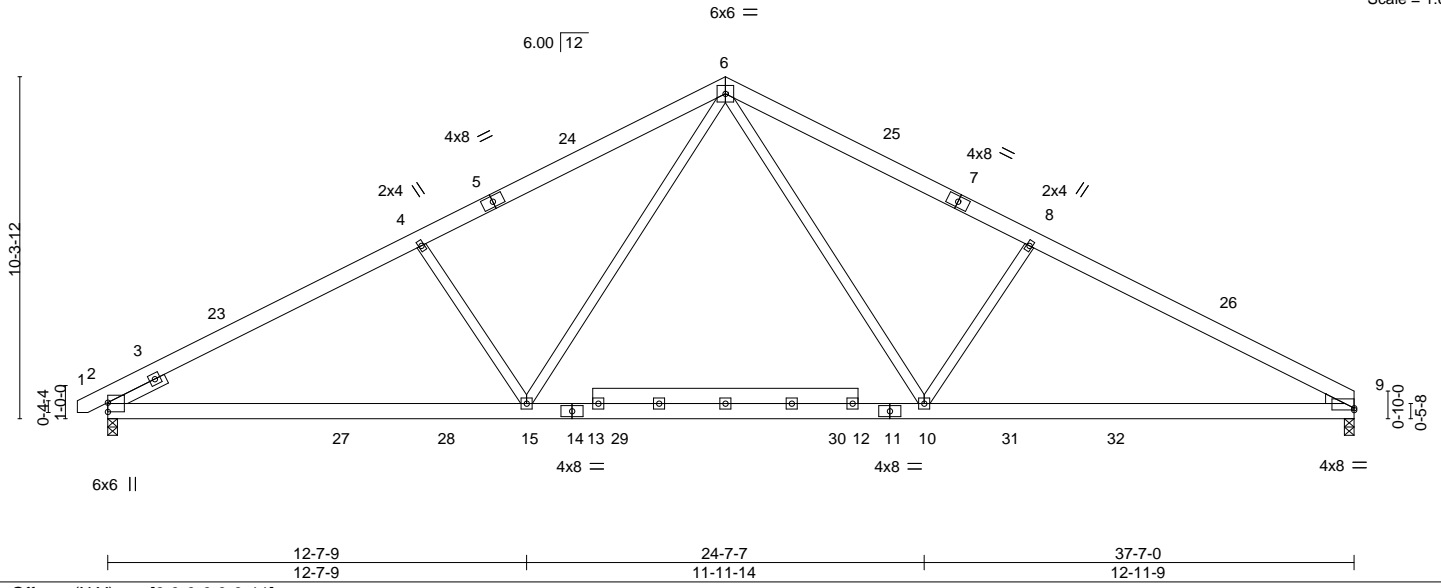
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Scale = 1:69.5



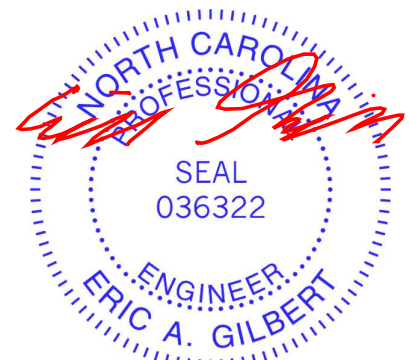
| | | | | | |
|-----------------------|-----------------------|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X,Y)-- | [9:0-0-0,0-0-11] | | | | |
| LOADING (psf) | SPACING- 2-1-8 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.51 | Vert(LL) -0.17 10-15 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.72 | Vert(CT) -0.31 10-22 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.37 | Horz(CT) 0.06 9 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TP12014 | Matrix-MS | Wind(LL) 0.06 10-15 >999 240 | Weight: 262 lb | FT = 20% |

| | |
|--------------------------------|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-3-13 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 | |
| WEDGE | |
| Right: 2x4 SP No.3 | |
| SLIDER Left 2x4 SP No.2 1-11-0 | |

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=136(LC 11)
 Max Uplift 2=-106(LC 12), 9=-96(LC 13)
 Max Grav 2=1750(LC 2), 9=1703(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2831/590, 4-6=-2600/611, 6-8=-2655/628, 8-9=-2926/610
 BOT CHORD 2-15=-385/2495, 10-15=-140/1715, 9-10=-397/2519
 WEBS 4-15=-546/325, 6-15=-135/1034, 6-10=-151/1121, 8-10=-588/340

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-7-8, Exterior(2) 18-7-8 to 23-0-5, Interior(1) 23-0-5 to 37-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 4x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=106.



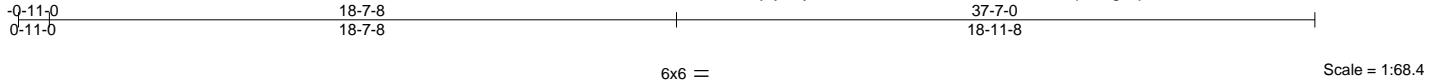
May 22, 2024

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|--|---|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>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 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)</p> | <p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MITEK Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|--|---|

| | | | | | | |
|-------------------|----------------|------------------------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss A05GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757064 |
|-------------------|----------------|------------------------------------|----------|----------|---|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:09 2024 Page 1
ID:0JmVjnyAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| LOADING (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 | 1 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.03 | Vert(CT) | 0.00 | 1 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.13 | Horz(CT) | 0.01 | 23 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 322 lb | FT = 20% |

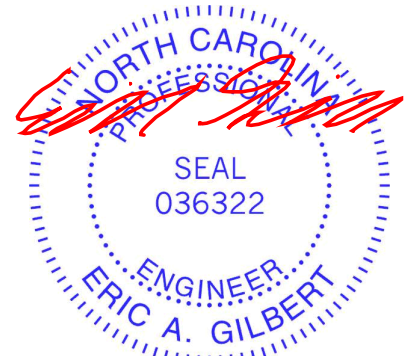
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 1-6-4

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 13-33, 12-34, 14-32
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS. All bearings 37-7-0.
 (lb) - Max Horz 2--201(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 32, 31, 29, 28, 27, 26, 25 except 42--159(LC 12), 24--128(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 33, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 24, 23

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4--264/90, 10-11--98/285, 11-12--121/348, 12-13--134/386, 13-14--134/388, 14-15--121/351, 15-16--98/288
 WEBS 4-42--143/252, 22-24--171/280

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 18-7-8, Corner(3) 18-7-8 to 23-0-5, Exterior(2) 23-0-5 to 37-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 32, 31, 29, 28, 27, 26, 25 except (jt=lb) 42=159, 24=128.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 23.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

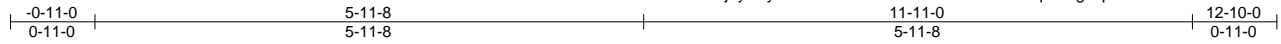


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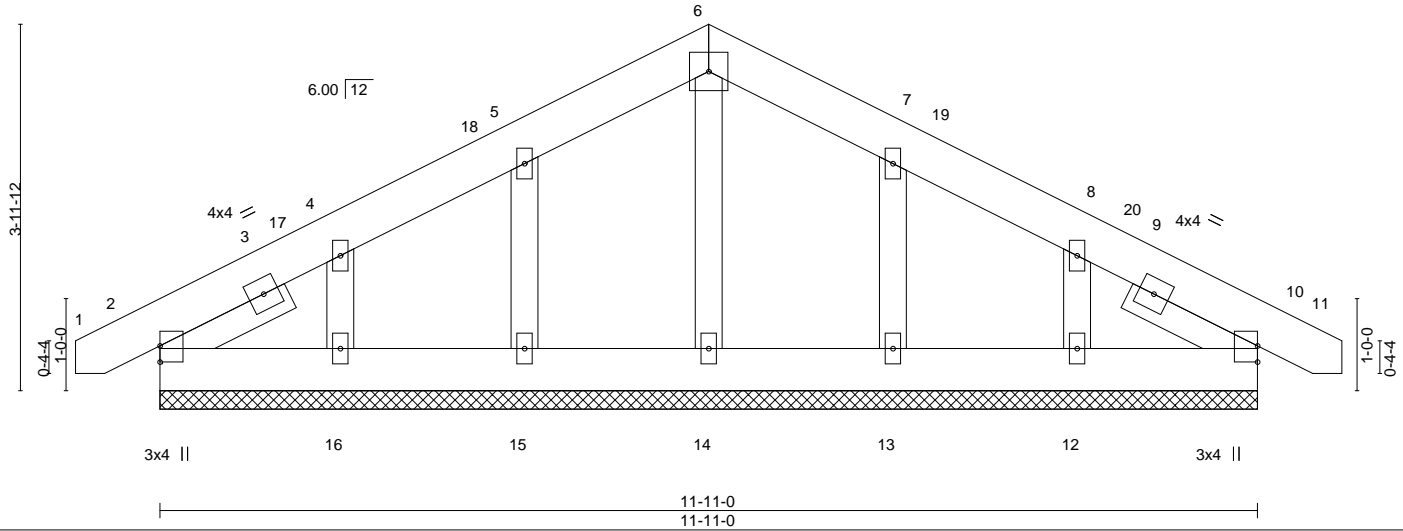
| | | | | | | |
|-------------------|----------------|---------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss B01GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757065 |
|-------------------|----------------|---------------------|----------|----------|---|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:10 2024 Page 1
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Scale = 1:25.0



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|--------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.03 | Vert(LL) | -0.00 | 10 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.01 | Vert(CT) | -0.00 | 10 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.04 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 83 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-4, Right 2x4 SP No.2 1-6-4

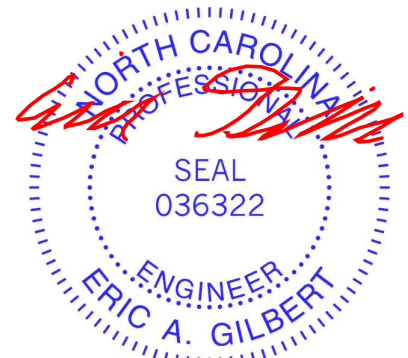
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-11-0.
(lb) - Max Horz 2=68(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 5-11-8, Corner(3) 5-11-8 to 10-4-5, Exterior(2) 10-4-5 to 12-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.



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

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



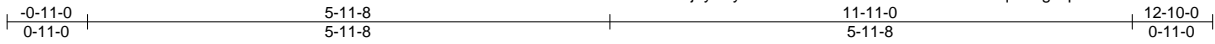
818 Soundside Road
Edenton, NC 27932

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|-------------------|--------------|----------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss B02 | Truss Type COMMON | Qty 2 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | I65757066 |
|-------------------|--------------|----------------------|----------|----------|---|-----------|

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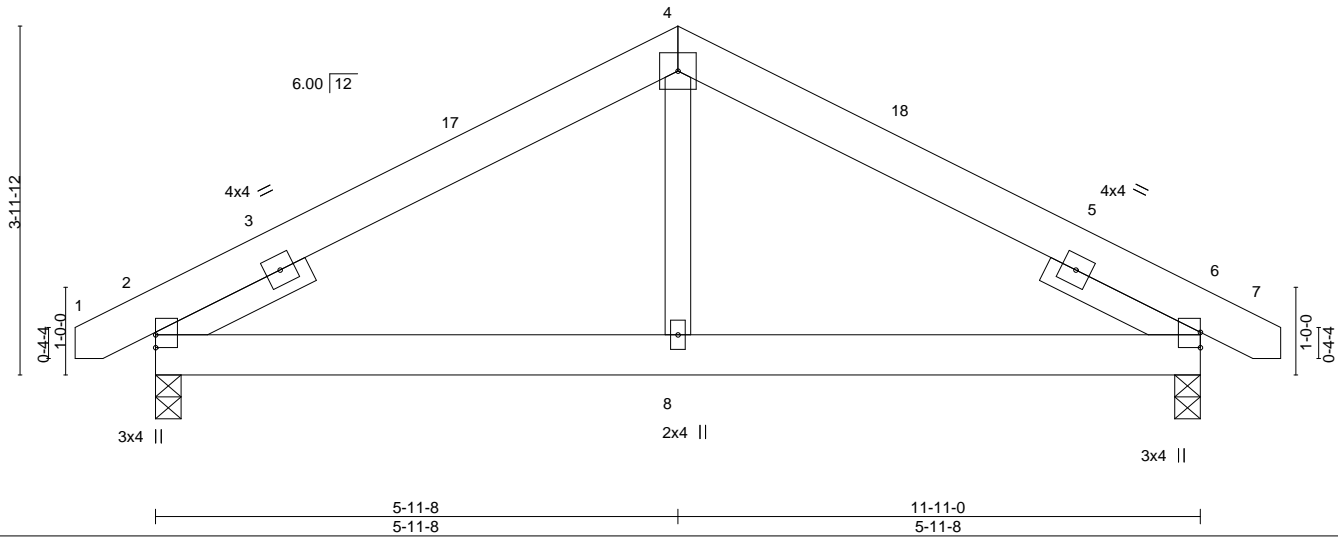
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:10 2024 Page 1

ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



5x5 =

Scale = 1:26.3



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|-----------|----------|------------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.10 | Vert(LL) | -0.01 8-15 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.10 | Vert(CT) | -0.01 8-15 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.05 | Horz(CT) | 0.00 6 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.01 8-11 | >999 | 240 | | |
| | | | | | | | | Weight: 75 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 1-11-0, Right 2x4 SP No.2 1-11-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-44(LC 10)
 Max Uplift 2=-38(LC 12), 6=-38(LC 13)
 Max Grav 2=522(LC 1), 6=522(LC 1)

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

TOP CHORD 2-4=-506/235, 4-6=-506/235
 BOT CHORD 2-8=-89/453, 6-8=-89/453

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 5-11-8, Exterior(2) 5-11-8 to 10-4-5, Interior(1) 10-4-5 to 12-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

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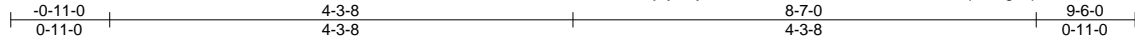


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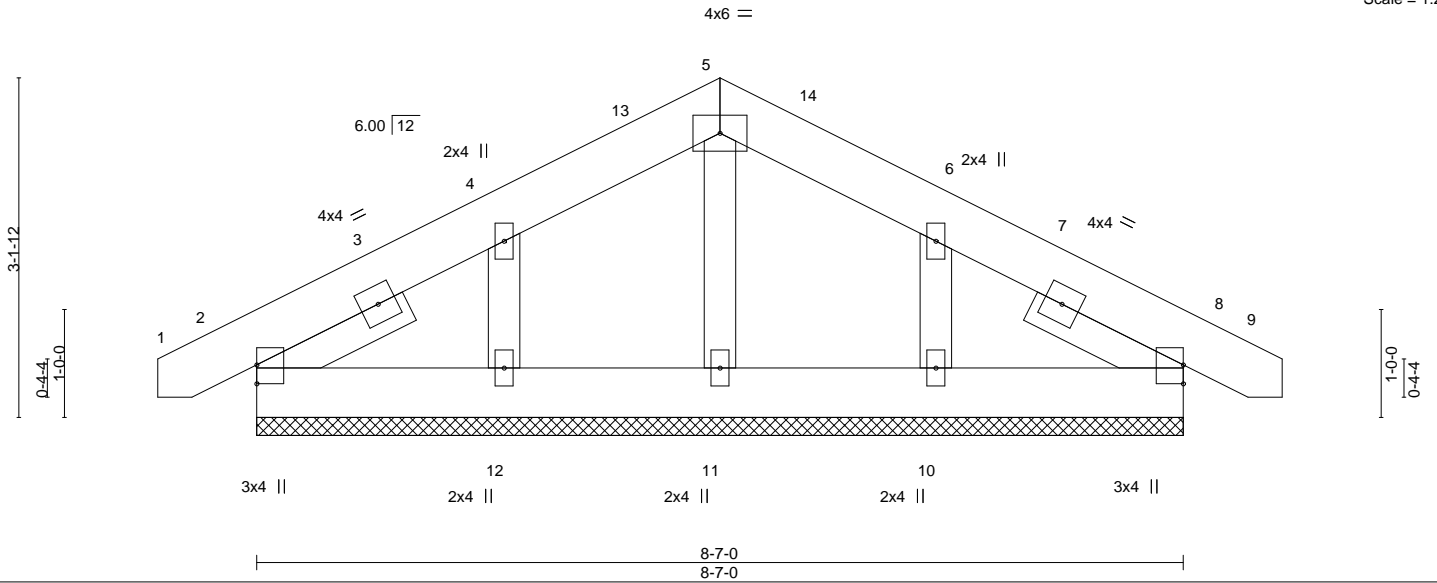
| | | | | | | |
|-------------------|----------------|------------------------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss C01GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757067 |
|-------------------|----------------|------------------------------------|----------|----------|---|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:11 2024 Page 1
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Scale = 1:21.3



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.04 | Vert(LL) | 0.00 | 8 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.01 | Vert(CT) | 0.00 | 8 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.05 | Horz(CT) | 0.00 | 8 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | Weight: 59 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-4, Right 2x4 SP No.2 1-6-4

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

REACTIONS. All bearings 8-7-0.
(lb) - Max Horz 2=-51(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 12, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-12=-139/277, 6-10=-139/275

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 4-3-8, Corner(3) 4-3-8 to 8-7-0, Exterior(2) 8-7-0 to 9-4-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 12, 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



May 22, 2024

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

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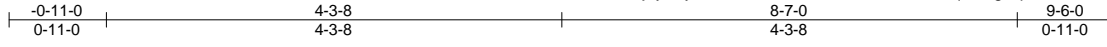


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|-------------------|--------------|----------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss C02 | Truss Type COMMON | Qty 3 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757068 |
|-------------------|--------------|----------------------|----------|----------|---|-----------|

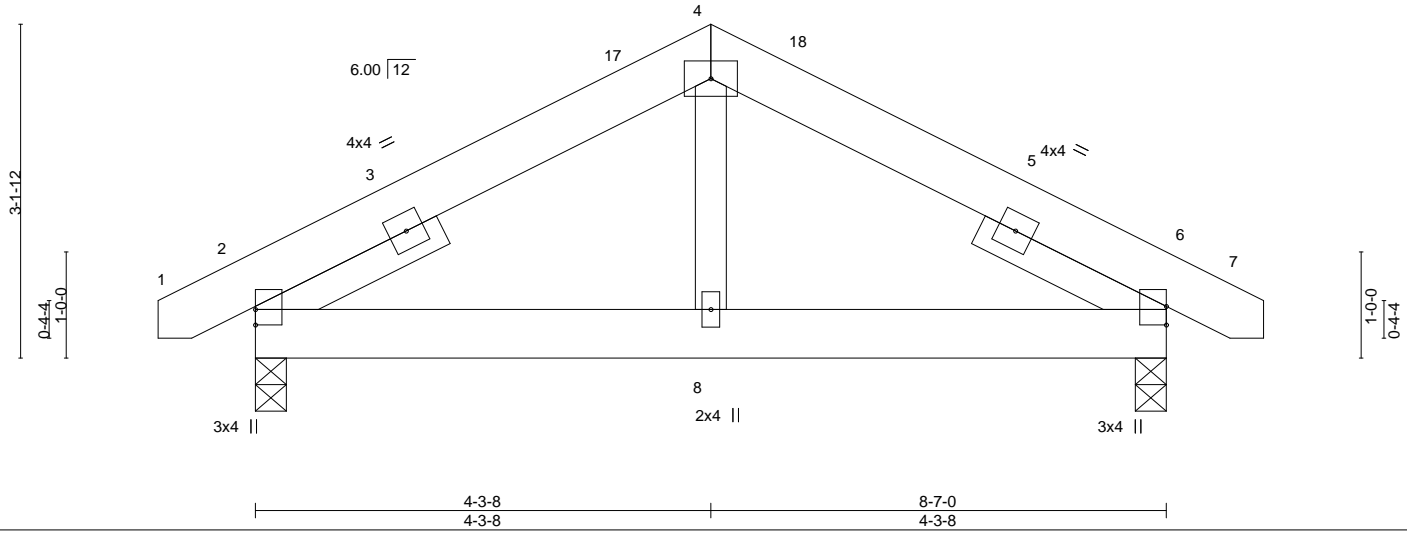
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:11 2024 Page 1
ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



4x6 =

Scale = 1:21.7



| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|------------|--------|-----|---------------|-------------|
| LOADING (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 8-11 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.06 | Vert(CT) | -0.00 8-11 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.04 | Horz(CT) | 0.00 2 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.00 15 | >999 | 240 | Weight: 57 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-11-0, Right 2x4 SP No.2 1-11-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-33(LC 10)
Max Uplift 2=-30(LC 12), 6=-30(LC 13)
Max Grav 2=389(LC 1), 6=389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-319/193, 4-6=-319/193
BOT CHORD 2-8=-62/285, 6-8=-62/285

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 4-3-8, Exterior(2) 4-3-8 to 8-7-0, Interior(1) 8-7-0 to 9-4-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 22, 2024

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

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818 Soundside Road
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| | | | | | | |
|-------------------|----------------|---------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss M01GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757069 |
|-------------------|----------------|---------------------|----------|----------|---|-----------|

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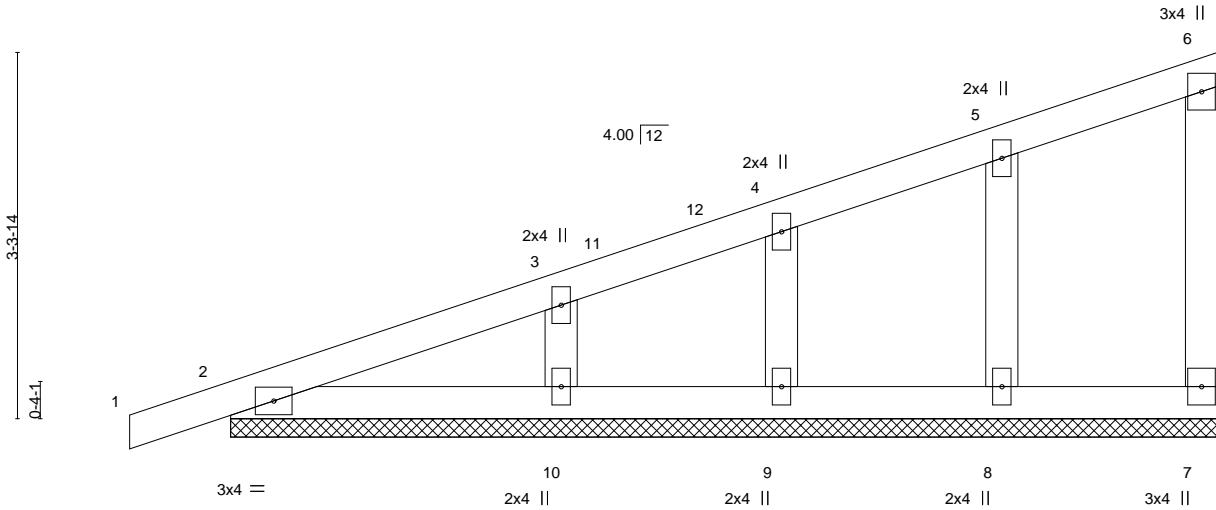
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:12 2024 Page 1

ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

8-11-8
8-11-8

-0-11-0
0-11-0

Scale = 1:20.9



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.07 | Vert(LL) | -0.00 | 1 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.05 | Vert(CT) | 0.00 | 1 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.04 | Horz(CT) | 0.00 | | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | Weight: 39 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

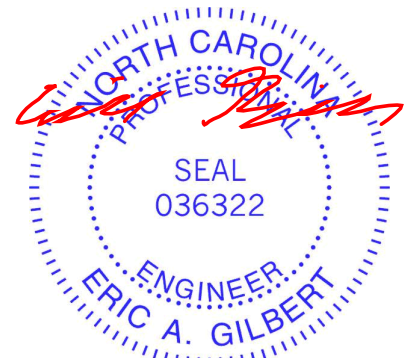
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-0-0.
 (lb) - Max Horz 2=156(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10
 Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9, 10

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-11-0 to 3-5-13, Exterior(2) 3-5-13 to 8-9-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9, 10.



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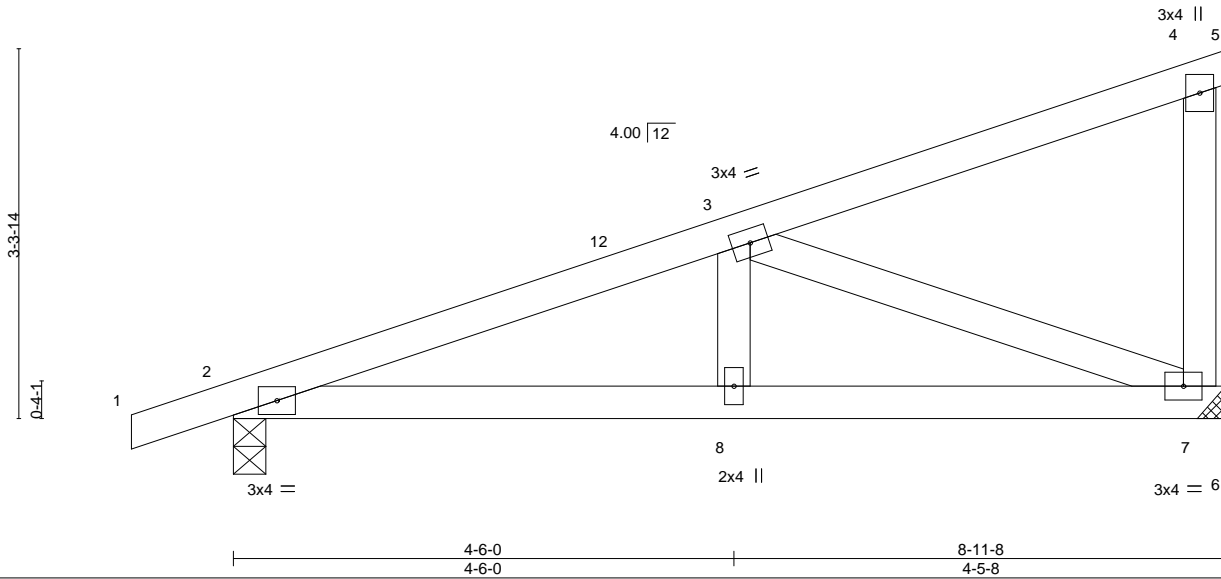
| | | | | | | |
|-------------------|--------------|------------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss M02 | Truss Type MONOPICH | Qty 9 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757070 |
|-------------------|--------------|------------------------|----------|----------|---|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:12 2024 Page 1
ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:20.7



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|-----------|----------|------------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.16 | Vert(LL) | -0.01 8-11 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.17 | Vert(CT) | -0.03 8-11 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.21 | Horz(CT) | 0.01 7 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.01 8-11 | >999 | 240 | | |
| | | | | | | | | Weight: 41 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=Mechanical
 Max Horz 2=111(LC 8)
 Max Uplift 2=-55(LC 8), 7=-54(LC 12)
 Max Grav 2=405(LC 1), 7=356(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-624/121
 BOT CHORD 2-8=-230/575, 7-8=-230/575
 WEBS 3-7=-612/246

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 8-11-8 zone; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 22, 2024

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

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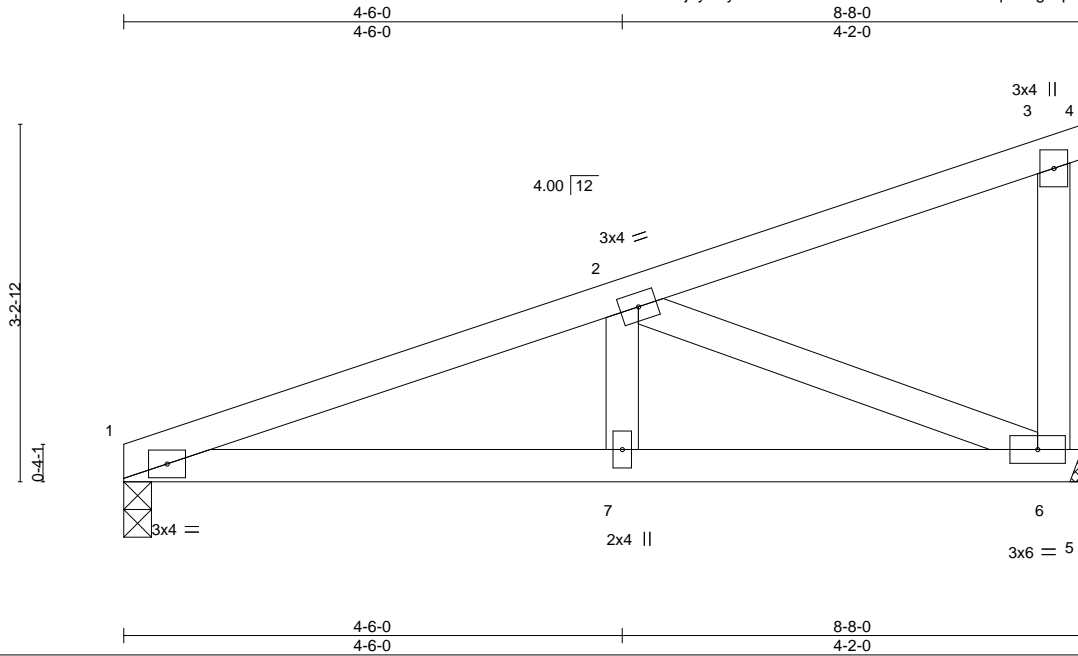
818 Soundside Road
 Edenton, NC 27932

| | | | | | |
|-------------------|--------------|-------------------------|----------|----------|------------------------------------|
| Job J0524-2981 | Truss M03 | Truss Type Monopitch | Qty 4 | Ply 1 | Lot 132 Duncans Creek 165757071 |
|-------------------|--------------|-------------------------|----------|----------|------------------------------------|

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ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:20.8

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|-----------|----------|------------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.17 | Vert(LL) | -0.01 7-10 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.18 | Vert(CT) | -0.03 7-10 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.18 | Horz(CT) | -0.01 6 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-AS | Wind(LL) | 0.04 7-10 | >999 | 240 | | |
| | | | | | | | | Weight: 38 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2

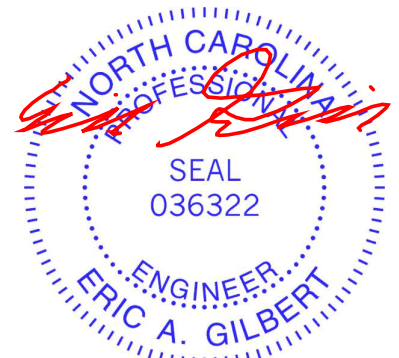
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=0-3-0, 6=Mechanical
 Max Horz 1=94(LC 8)
 Max Uplift 1=-113(LC 8), 6=-147(LC 8)
 Max Grav 1=336(LC 1), 6=347(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-594/599
 BOT CHORD 1-7=-662/547, 6-7=-662/547
 WEBS 2-6=-588/712, 2-7=-258/192

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-6-0, Interior(1) 4-6-0 to 8-8-0 zone; porch left 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=113, 6=147.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 22, 2024

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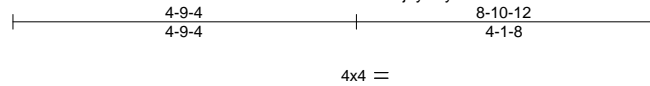


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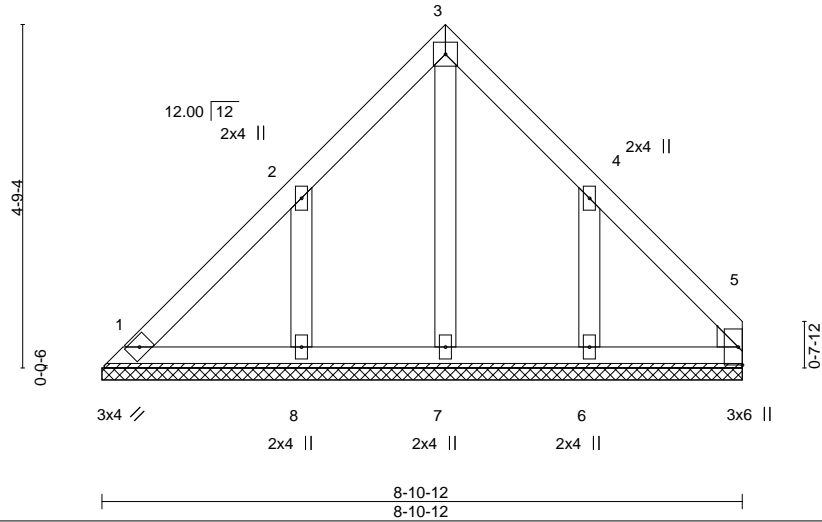
| | | | | | |
|-------------------|-------------|---------------------|----------|----------|------------------------------------|
| Job J0524-2981 | Truss V1 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 132 Duncans Creek 165757073 |
|-------------------|-------------|---------------------|----------|----------|------------------------------------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:13 2024 Page 1
ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale: 3/8"=1'



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.07 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.03 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.04 | Horz(CT) | 0.00 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | Weight: 45 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2
 WEDGE
 Right: 2x4 SP No.2

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

REACTIONS. All bearings 8-10-12.
 (lb) - Max Horz 1=132(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=193(LC 12), 6=198(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 5, 6 except 8=260(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=269/234, 4-6=262/234

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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=193, 6=198.



May 22, 2024

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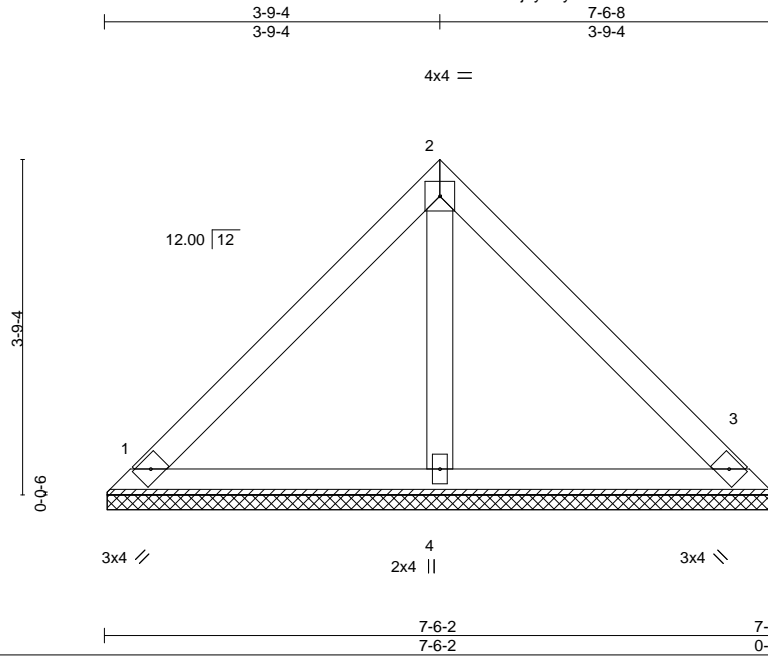


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| | | | | | |
|-------------------|-------------|----------------------|----------|----------|------------------------------------|
| Job J0524-2981 | Truss V2 | Truss Type Valley | Qty 1 | Ply 1 | Lot 132 Duncans Creek 165757074 |
|-------------------|-------------|----------------------|----------|----------|------------------------------------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:14 2024 Page 1
ID:0JmVjnyAyz5P3t7HPvK2hziFs2-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:25.9

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|--------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| BCDL 10.0 | Lumber DOL | 1.15 | BC 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | Weight: 30 lb | FT = 20% |

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

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

REACTIONS. (size) 1=7-5-12, 3=7-5-12, 4=7-5-12
Max Horz 1=82(LC 9)
Max Uplift 1=30(LC 13), 3=30(LC 13)
Max Grav 1=167(LC 1), 3=167(LC 1), 4=214(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



May 22, 2024

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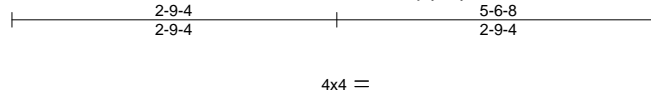
818 Soundside Road
Edenton, NC 27932

| | | | | | |
|-------------------|-------------|----------------------|----------|----------|------------------------------------|
| Job J0524-2981 | Truss V3 | Truss Type Valley | Qty 1 | Ply 1 | Lot 132 Duncans Creek 165757075 |
|-------------------|-------------|----------------------|----------|----------|------------------------------------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:14 2024 Page 1

ID:0JmVjnyAyz5P3t7HPvK2hziFs2-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:19.7

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.09 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.04 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.01 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | | Weight: 22 lb | FT = 20% |

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

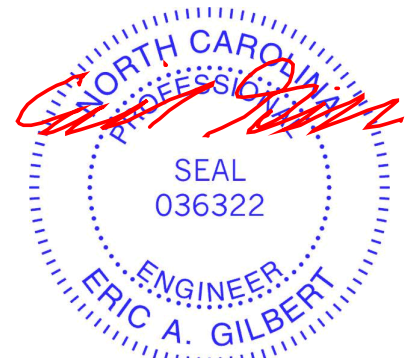
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-5-12, 3=5-5-12, 4=5-5-12
 Max Horz 1=-58(LC 10)
 Max Uplift 1=-21(LC 13), 3=-21(LC 13)
 Max Grav 1=118(LC 1), 3=118(LC 1), 4=151(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



May 22, 2024

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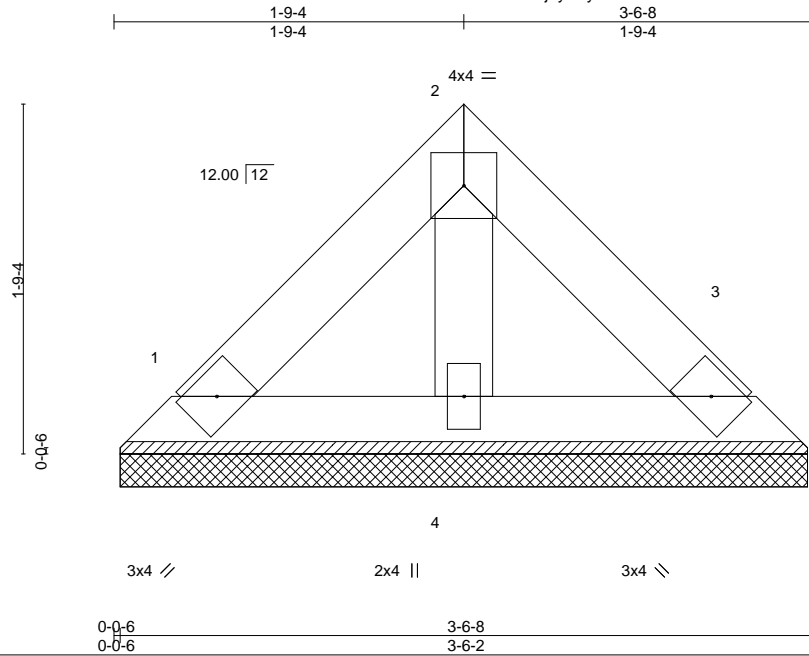
818 Soundside Road
 Edenton, NC 27932

| | | | | | |
|-------------------|-------------|----------------------|----------|----------|------------------------------------|
| Job J0524-2981 | Truss V4 | Truss Type Valley | Qty 1 | Ply 1 | Lot 132 Duncans Creek 165757076 |
|-------------------|-------------|----------------------|----------|----------|------------------------------------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:14 2024 Page 1

ID:0JmVjnyAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.03 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.02 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.01 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | Weight: 13 lb | FT = 20% |

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

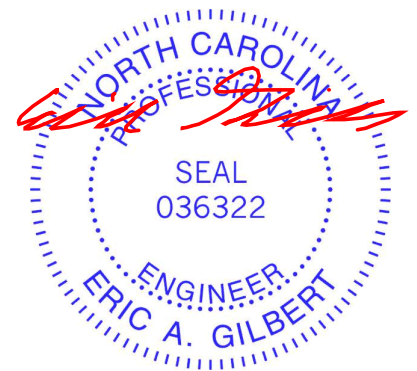
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-5-12, 3=3-5-12, 4=3-5-12
 Max Horz 1=-34(LC 8)
 Max Uplift 1=-12(LC 13), 3=-12(LC 13)
 Max Grav 1=69(LC 1), 3=69(LC 1), 4=89(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

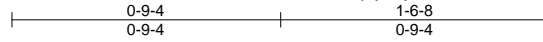


| | | | | | |
|-------------------|-------------|----------------------|----------|----------|------------------------------------|
| Job J0524-2981 | Truss V5 | Truss Type Valley | Qty 1 | Ply 1 | Lot 132 Duncans Creek 165757077 |
|-------------------|-------------|----------------------|----------|----------|------------------------------------|

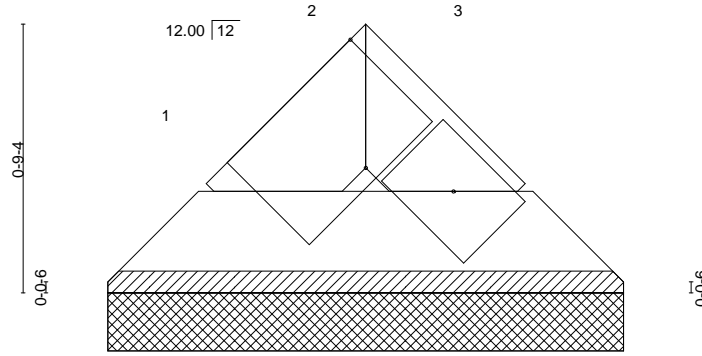
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:15 2024 Page 1

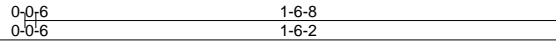
ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f



Scale = 1:6.6



4x6 // 3x4 //



| | | | | | | | |
|-----------------------|----------------------|-------|-------------|--------------|----------|--------|---------------|
| Plate Offsets (X,Y)-- | [1:0-2-12,Edge] | | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.00 | Vert(LL) | n/a | - | n/a 999 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.01 | Vert(CT) | n/a | - | n/a 999 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.00 | 3 | n/a n/a |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | |
| | | | | | | | PLATES |
| | | | | | | | MT20 |
| | | | | | | | 244/190 |
| | | | | | | | Weight: 4 lb |
| | | | | | | | FT = 20% |

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-5-12, 3=1-5-12
Max Horz 1=10(LC 9)
Max Uplift 1=-1(LC 13), 3=-1(LC 13)
Max Grav 1=34(LC 1), 3=34(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



May 22, 2024

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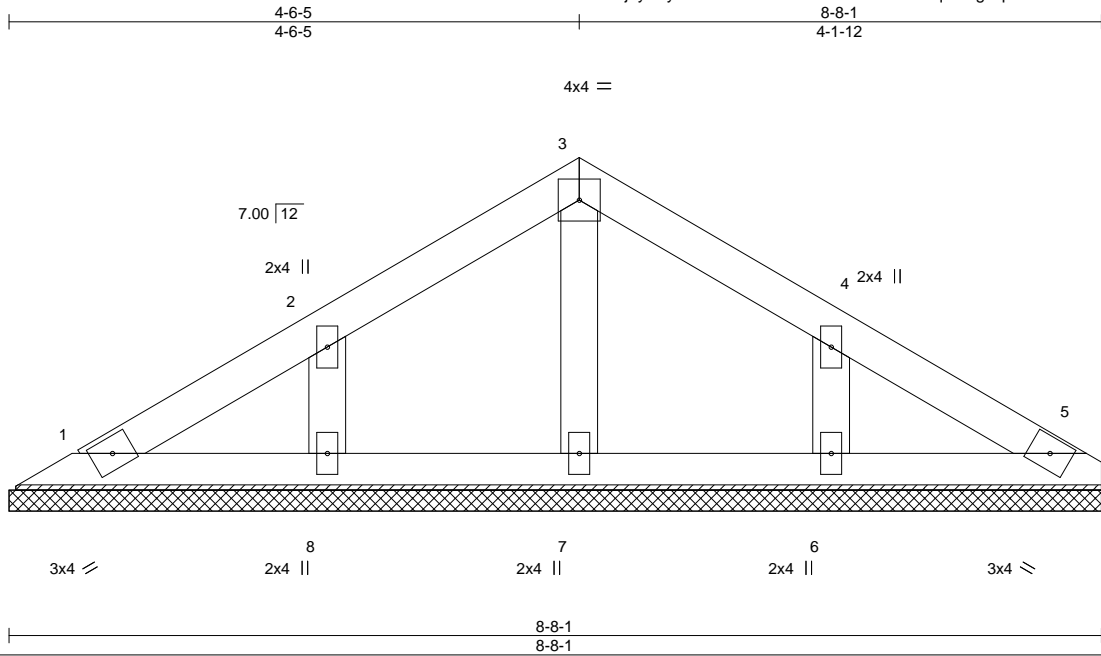


818 Soundside Road
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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss V6 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757078 |
|-------------------|-------------|---------------------|----------|----------|---|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:15 2024 Page 1
ID:0JmVjnyAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:18.3

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|--------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | Weight: 32 lb | FT = 20% |

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

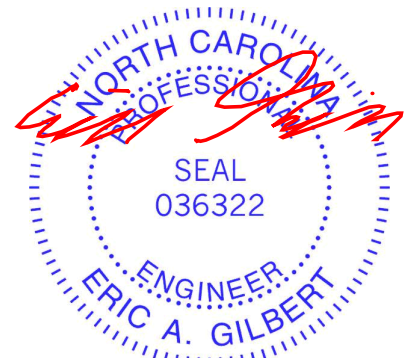
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-8-1.
(lb) - Max Horz 1=70(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.



May 22, 2024

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A MiTek Affiliate

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| | | | | | |
|-------------------|-------------|----------------------|----------|----------|------------------------------------|
| Job J0524-2981 | Truss V7 | Truss Type Valley | Qty 1 | Ply 1 | Lot 132 Duncans Creek 165757079 |
|-------------------|-------------|----------------------|----------|----------|------------------------------------|

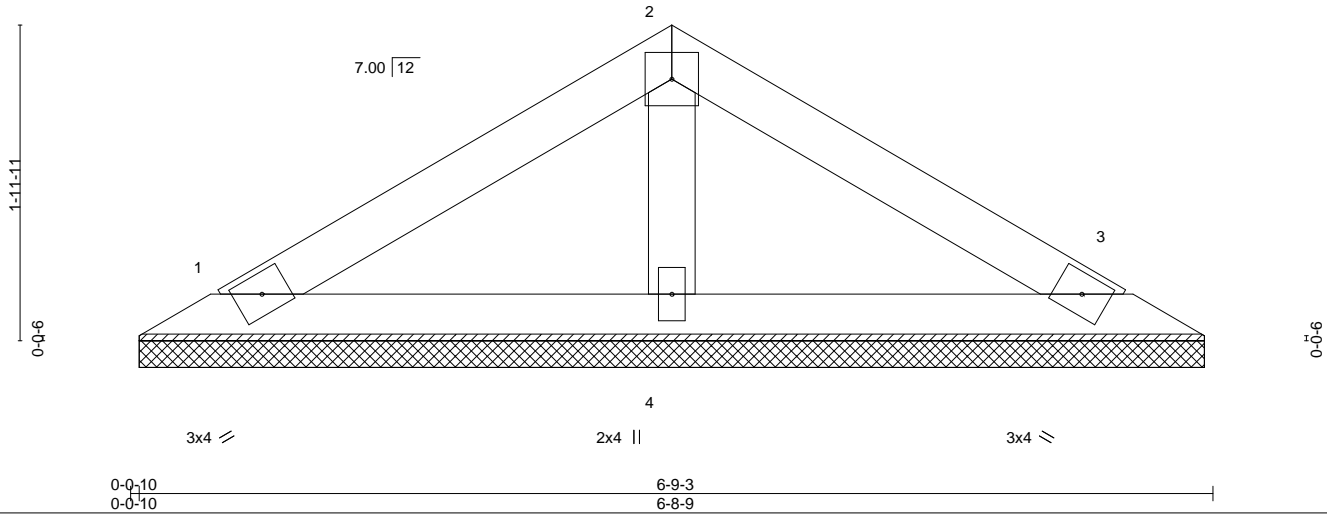
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:16 2024 Page 1
ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



4x4 =

Scale = 1:14.4



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|-----------------|-----------------|----------|----------|----------|--------|-----|--------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | Weight: 22 lb | FT = 20% |

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

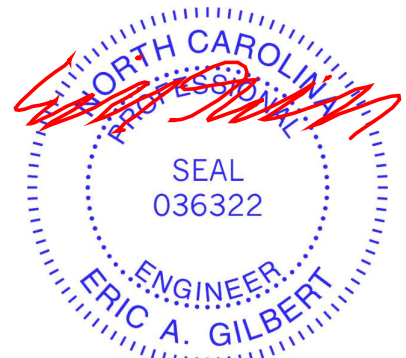
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-7-15, 3=6-7-15, 4=6-7-15
Max Horz 1=40(LC 8)
Max Uplift 1=-19(LC 12), 3=-23(LC 13)
Max Grav 1=119(LC 1), 3=119(LC 1), 4=214(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



May 22, 2024

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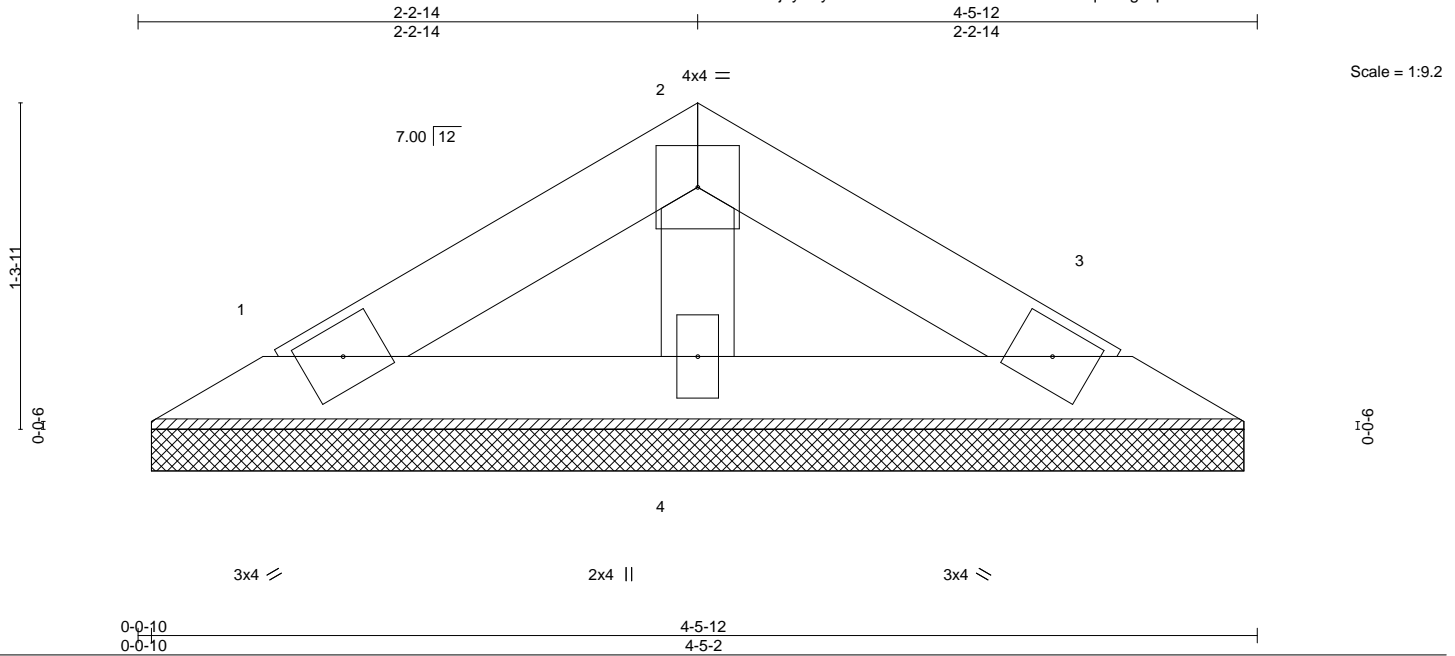


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| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|---|-----------|
| Job J0524-2981 | Truss V8 | Truss Type Valley | Qty 1 | Ply 1 | Lot 132 Duncans Creek Job Reference (optional) | 165757080 |
|-------------------|-------------|----------------------|----------|----------|---|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed May 22 09:47:16 2024 Page 1
ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.03 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.01 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | | | | | Weight: 13 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-5-12 oc purlins. |
| BOT CHORD 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.2 | |

REACTIONS. (size) 1=4-4-8, 3=4-4-8, 4=4-4-8
 Max Horz 1=24(LC 9)
 Max Uplift 1=11(LC 12), 3=14(LC 13)
 Max Grav 1=71(LC 1), 3=71(LC 1), 4=127(LC 1)

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

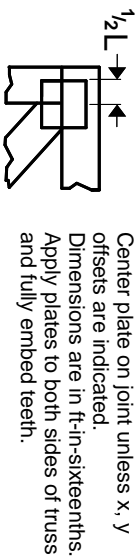
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



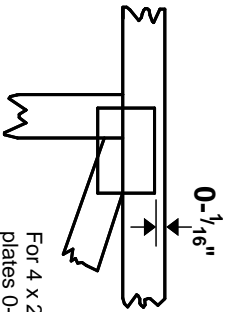
May 22, 2024

Symbols

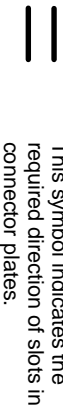
PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

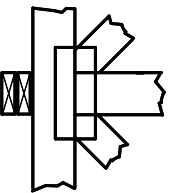
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

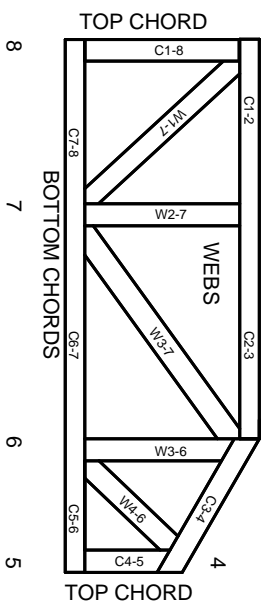
Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



1 TOP CHORDS
2 JOINT ID TYP.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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MITek

ENGINEERING BY
TRENGO
A MITek Affiliate

MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.