

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0923-5239
Southern Touch/44 West Pointe/Harnett

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: I60869497 thru I60869523

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

North Carolina COA: C-0844



September 20, 2023

Gilbert, Eric

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

| | | | | | | |
|------------|-------|----------------|-----|-----|---------------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett | 160869497 |
| J0923-5239 | A1 | PIGGYBACK BASE | 5 | 1 | | |

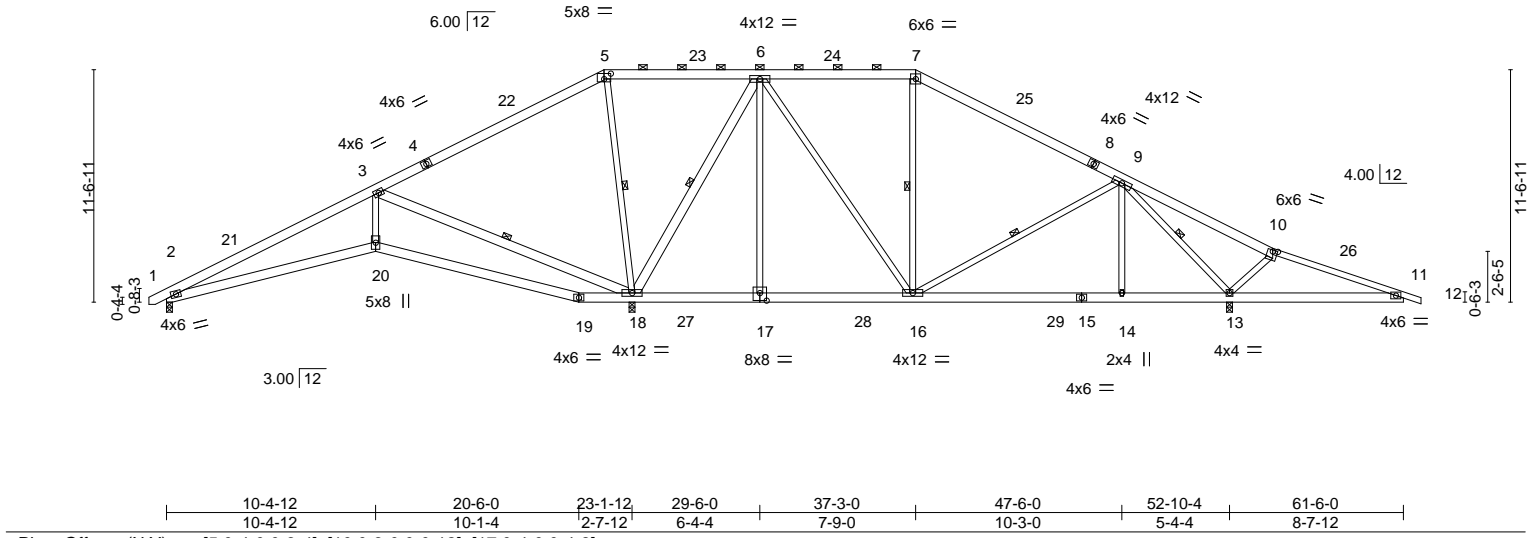
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:26:48 2023 Page 1

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Scale = 1:114.6



| | |
|------------------------|--|
| Plate Offsets (X, Y)-- | [5:0-4-0,0-3-4], [10:0-3-0,0-0-12], [17:0-4-0,0-4-8] |
|------------------------|--|

| 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 0.63 | Vert(LL) | -0.12 | 19-20 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.35 | Vert(CT) | -0.24 | 19-20 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.67 | Horz(CT) | 0.04 | 18 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.05 | 2-20 | >999 | | |
| | | | | | | | | Weight: 471 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|--|
| TOP CHORD 2x6 SP No.1 *Except* 10-12: 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 6-18,3-18: 2x6 SP No.1 | WEBS 1 Row at midpt 5-18, 6-18, 9-16, 7-16, 3-18, 9-13 |

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 13=0-3-8
 Max Horz 2=-149(LC 10)
 Max Uplift 2=-13(LC 13), 18=-237(LC 12), 13=-203(LC 13)
 Max Grav 2=495(LC 23), 18=2864(LC 1), 13=1867(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-623/0, 3-5=-195/1123, 5-6=-90/1009, 6-7=-456/253, 7-9=-637/247,
 9-10=-854/1241, 10-11=-844/958
 BOT CHORD 2-20=0/602, 19-20=0/601, 18-19=0/530, 17-18=-338/345, 16-17=-338/345,
 14-16=-10/496, 13-14=-10/496, 11-13=-846/853
 WEBS 5-18=-971/342, 6-18=-1481/300, 9-14=0/288, 6-17=0/365, 6-16=-117/779,
 7-16=-427/228, 3-18=-1394/284, 3-20=0/712, 9-13=-1997/730

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-9-0, Exterior(2) 21-9-0 to 26-1-13, Interior(1) 26-1-13 to 37-3-0, Exterior(2) 37-3-0 to 41-7-12, Interior(1) 41-7-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 18=237, 13=203.
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer on page 2.



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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/TPI 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)

ENGINEERING BY
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818 Soundside Road
 Edenton, NC 27932

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|-------------------|-------------|------------------------------|----------|----------|--|
| Job J0923-5239 | Truss A1 | Truss Type PIGGYBACK BASE | Qty 5 | Ply 1 | Southern Touch/44 West Pointe/Harnett I60869497 Job Reference (optional) |
|-------------------|-------------|------------------------------|----------|----------|--|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:26:48 2023 Page 2
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NOTES-

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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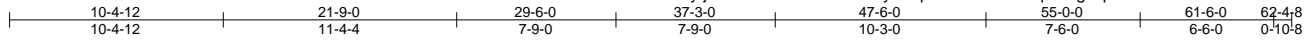
818 Soundside Road
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|------------|-------|----------------|-----|-----|---------------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett | 160869498 |
| J0923-5239 | A1A | PIGGYBACK BASE | 1 | 1 | | |

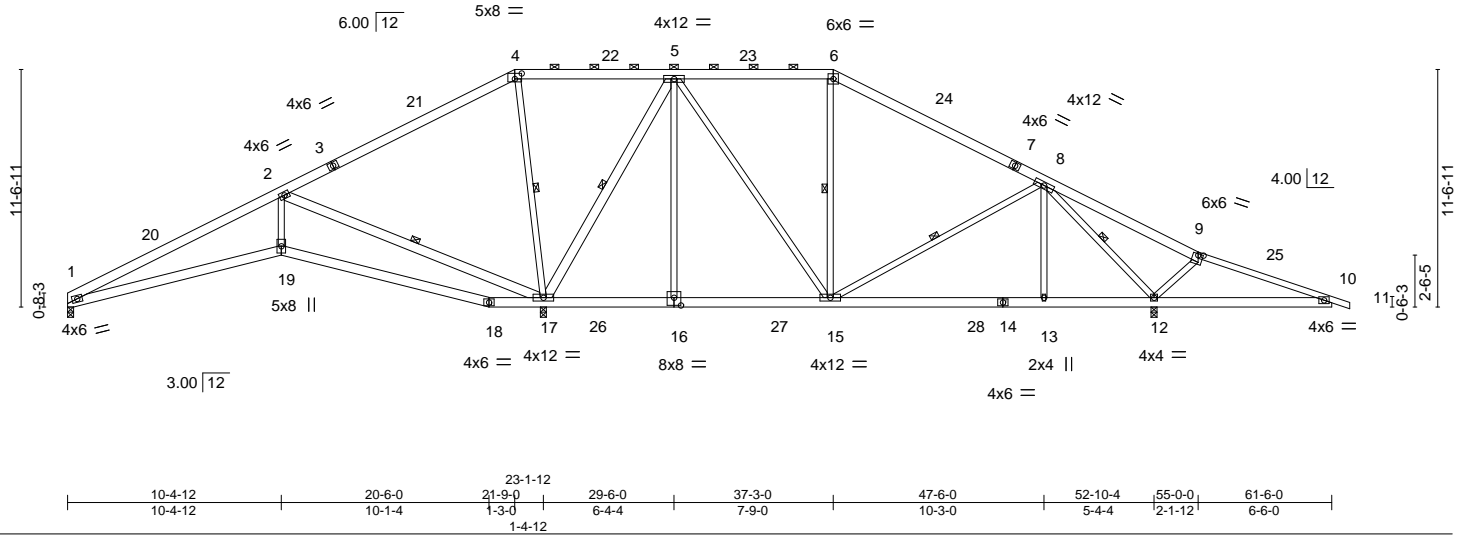
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:26:49 2023 Page 1

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Scale = 1:112.1



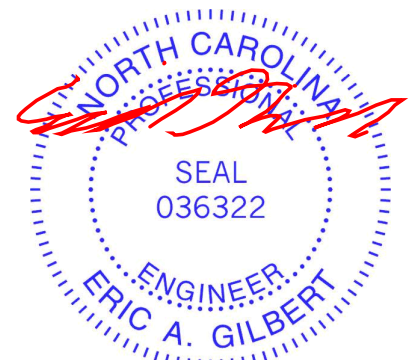
| | | | | | |
|------------------------|---|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X, Y)-- | [4:0-4-0,0-3-4], [9:0-3-0,0-0-12], [16:0-4-0,0-4-8] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.63 | Vert(LL) -0.12 18-19 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.36 | Vert(CT) -0.24 18-19 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.68 | Horz(CT) 0.04 17 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.05 1-19 >999 240 | Weight: 469 lb | FT = 20% |

| | |
|---|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 *Except* 9-11: 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 5-17,2-17: 2x6 SP No.1 | WEBS 1 Row at midpt 4-17, 5-17, 8-15, 6-15, 2-17, 8-12 |

REACTIONS. (size) 1=0-3-8, 17=0-3-8, 12=0-3-8
 Max Horz 1=-149(LC 10)
 Max Uplift 1=-12(LC 13), 17=-238(LC 12), 12=-203(LC 13)
 Max Grav 1=440(LC 23), 17=2868(LC 1), 12=1866(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-622/0, 2-4=-195/1126, 4-5=-91/1012, 5-6=-455/252, 6-8=-637/246, 8-9=-854/1241, 9-10=-844/958
 BOT CHORD 1-19=0/601, 18-19=0/600, 17-18=0/529, 16-17=-340/345, 15-16=-340/345, 13-15=-10/496, 12-13=-10/496, 10-12=-846/853
 WEBS 4-17=-971/341, 5-17=-1482/307, 8-13=0/288, 5-16=0/365, 5-15=-122/780, 6-15=-428/231, 2-17=-1399/287, 2-19=0/714, 8-12=-1997/730

- 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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 21-9-0, Exterior(2) 21-9-0 to 26-1-13, Interior(1) 26-1-13 to 37-3-0, Exterior(2) 37-3-0 to 41-7-12, Interior(1) 41-7-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 17=238, 12=203.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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|------------|-------|------------|-----|-----|---------------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett | 160869499 |
| J0923-5239 | A1GE | GABLE | 1 | 1 | | |

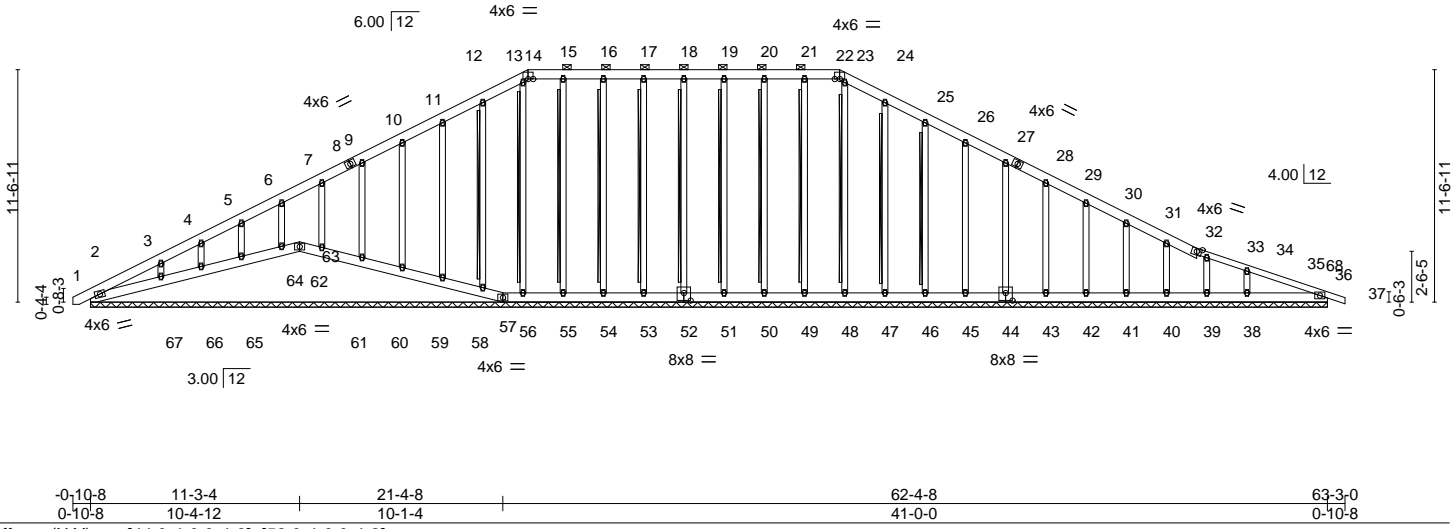
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:26:53 2023 Page 1

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| | | | | | |
|--------|--------|---------|---------|--------|--------|
| 0-10-8 | 22-7-8 | 38-1-8 | 55-10-8 | 62-4-8 | 63-3-0 |
| 0-10-8 | 21-9-0 | 15-5-15 | 17-9-0 | 6-6-0 | 0-10-8 |

Scale = 1:114.6



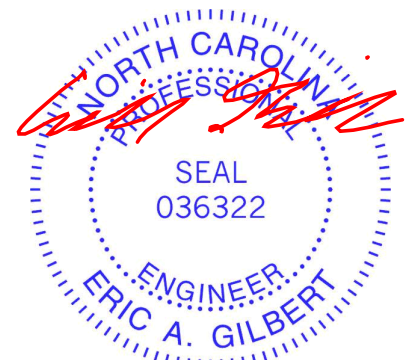
| | | | | | |
|-----------------------|------------------------------------|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X,Y)-- | [44:0-4-0,0-4-8], [52:0-4-0,0-4-8] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.11 | Vert(LL) 0.00 37 n/r 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.05 | Vert(CT) 0.00 37 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.14 | Horz(CT) 0.01 36 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TP12014 | Matrix-S | | Weight: 574 lb | FT = 20% |

| | |
|--|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 *Except* 33-37: 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 14-22. |
| 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 - 18-52, 17-53, 16-54, 15-55, 13-56, 12-58, 19-51, 20-50, 21-49, 23-48, 24-47, 25-46 |
| | 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 61-6-0.
 (lb) - Max Horz 2=228(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 57, 52, 53, 54, 55, 58, 59, 60, 61, 62, 64, 65, 66, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 36 except 67=142(LC 12), 38=117(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 63, 57, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 64, 65, 66, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 36 except 67=274(LC 23), 38=316(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-308/128, 9-10=-90/270, 10-11=-110/328, 11-12=-131/388, 12-13=-150/441, 13-14=-141/400, 14-15=-138/425, 15-16=-138/425, 16-17=-138/425, 17-18=-138/425, 18-19=-138/425, 19-20=-138/425, 20-21=-138/425, 21-22=-138/425, 22-23=-141/400, 23-24=-150/429, 24-25=-131/376, 25-26=-110/316, 26-27=-90/258
 WEBS 3-67=-194/267

- 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) gable end zone and C-C Corner(3) -0-8-10 to 3-6-0, Exterior(2) 3-6-0 to 21-9-0, Corner(3) 21-9-0 to 26-1-13, Exterior(2) 26-1-13 to 37-3-0, Corner(3) 37-3-0 to 41-6-0, Exterior(2) 41-6-0 to 62-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TP1 1.
 - 4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 5) Provide adequate drainage to prevent water ponding.



September 20, 2023

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ENGINEERING BY
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| | | | | | |
|------------|-------|------------|-----|-----|---------------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett |
| J0923-5239 | A1GE | GABLE | 1 | 1 | I60869499 |
| | | | | | Job Reference (optional) |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:26:53 2023 Page 2
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NOTES-

- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 57, 52, 53, 54, 55, 58, 59, 60, 61, 62, 64, 65, 66, 51, 50, 49, 47, 46, 45, 44, 43, 42, 41, 40, 39, 36 except (jt=lb) 67=142, 38=117.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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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 Edenton, NC 27932

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|-------------------|-------------|------------------------------|----------|----------|--|
| Job J0923-5239 | Truss A2 | Truss Type PIGGYBACK BASE | Qty 3 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869500 |
|-------------------|-------------|------------------------------|----------|----------|--|

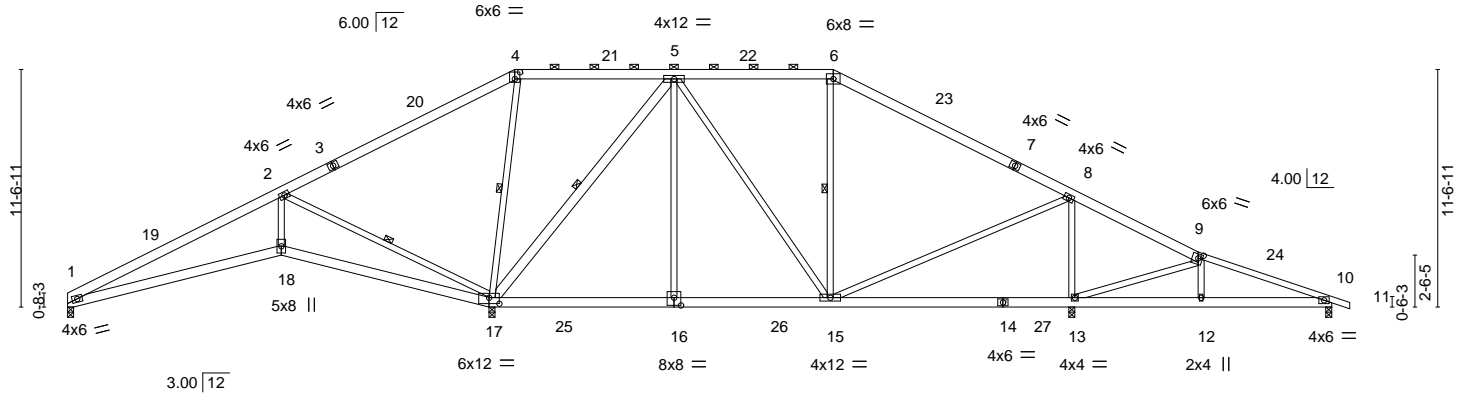
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:26:55 2023 Page 1

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| | | | | | | | |
|---------|--------|--------|--------|---------|--------|--------|--------|
| 10-4-12 | 21-9-0 | 29-6-0 | 37-3-0 | 48-10-4 | 55-0-0 | 61-6-0 | 62-4-8 |
| 10-4-12 | 11-4-4 | 7-9-0 | 7-9-0 | 11-7-4 | 6-1-12 | 6-6-0 | 0-10-8 |

Scale = 1:112.1



| | | | | | | | |
|---------|--------|---------|--------|--------|---------|--------|--------|
| 10-4-12 | 20-6-0 | 20-7-12 | 29-6-0 | 37-3-0 | 48-10-4 | 55-0-0 | 61-6-0 |
| 10-4-12 | 10-1-4 | 0-1-12 | 8-10-4 | 7-9-0 | 11-7-4 | 6-1-12 | 6-6-0 |

Plate Offsets (X, Y)-- [4:0-3-0,0-4-0], [9:0-2-8,0-2-8], [16:0-4-0,0-4-8], [17:0-6-0,0-3-8]

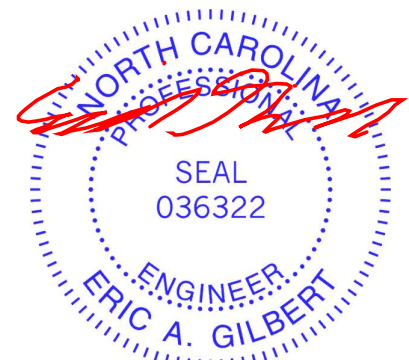
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|------------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.63 | Vert(LL) | -0.10 1-18 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.33 | Vert(CT) | -0.21 1-18 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.69 | Horz(CT) | 0.03 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.04 1-18 | >999 | 240 | Weight: 455 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|--|
| TOP CHORD 2x6 SP No.1 *Except* 9-11: 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 5-17: 2x6 SP No.1 | WEBS 1 Row at midpt 4-17, 5-17, 6-15, 2-17 |

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 1=-149(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 10 except 17=-172(LC 12), 13=-161(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 1=366(LC 23), 17=2672(LC 1), 13=1624(LC 24), 10=446(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-261/110, 2-4=-105/1120, 4-5=0/774, 5-6=-506/333, 6-8=-710/264, 8-9=0/303, 9-10=-515/100
 BOT CHORD 16-17=-88/387, 15-16=-88/387, 12-13=-13/413, 10-12=-10/421
 WEBS 4-17=-971/305, 5-17=-1386/264, 5-15=-92/461, 8-15=-6/654, 8-13=-1220/387, 5-16=0/485, 6-15=-393/196, 2-17=-1160/324, 2-18=0/455, 9-13=-560/150

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) 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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 21-9-0, Exterior(2) 21-9-0 to 26-1-13, Interior(1) 26-1-13 to 37-3-0, Exterior(2) 37-3-0 to 41-7-12, Interior(1) 41-7-12 to 62-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10 except (jt=lb) 17=172, 13=161.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

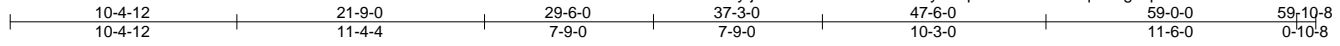


| | | | | | |
|-------------------|-------------|------------------------------|----------|----------|--|
| Job J0923-5239 | Truss A3 | Truss Type PIGGYBACK BASE | Qty 4 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869501 |
|-------------------|-------------|------------------------------|----------|----------|--|

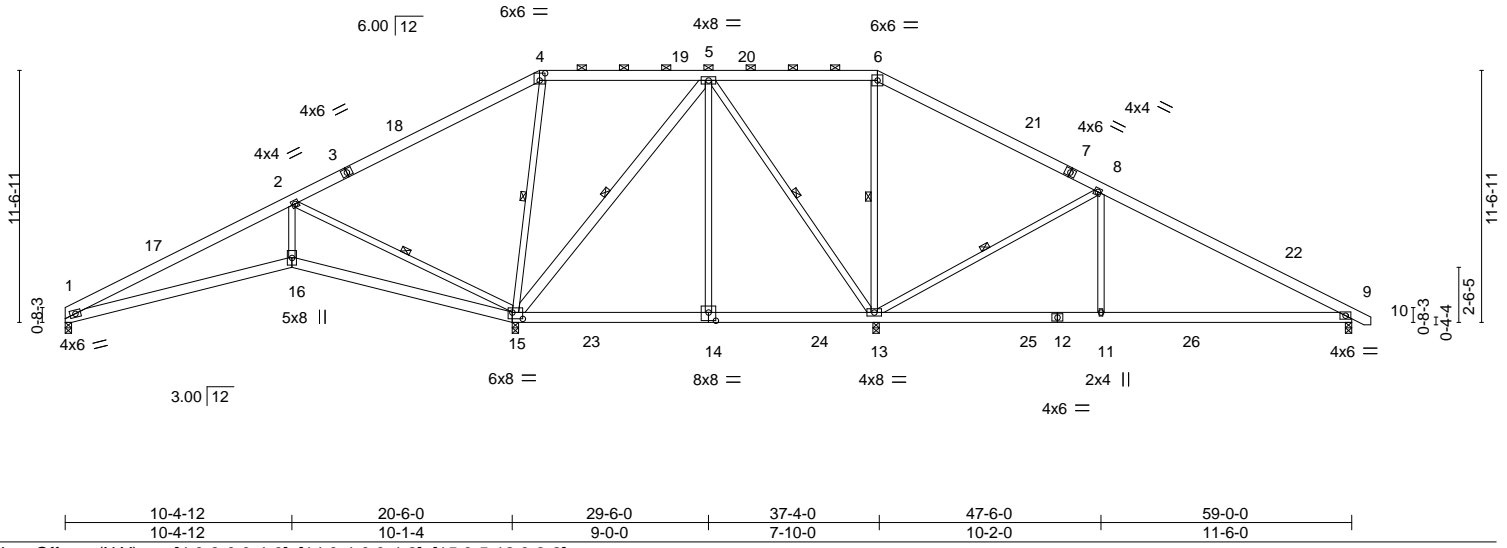
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:26:56 2023 Page 1

ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:105.7



| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [4:0-3-0,0-4-0], [14:0-4-0,0-4-8], [15:0-5-12,0-3-8] |
|-----------------------|--|

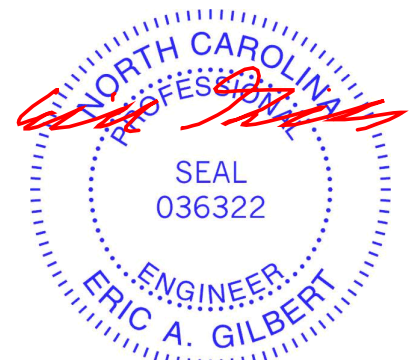
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.63 | Vert(LL) | -0.10 | 9-11 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.39 | Vert(CT) | -0.23 | 9-11 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.77 | Horz(CT) | 0.03 | 9 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.06 | 9-11 | >999 | | |
| | | | | | | | | Weight: 437 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 4-6. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 5-15: 2x6 SP No.1 | WEBS 1 Row at midpt 2-15, 4-15, 5-15, 5-13, 6-13, 8-13 |

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 1=147(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 15=223(LC 12), 13=123(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 1=376(LC 23), 15=2235(LC 23), 13=1860(LC 26), 9=709(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=300/85, 2-4=109/1101, 4-5=0/759, 5-6=0/521, 6-8=0/650, 8-9=785/180
 BOT CHORD 14-15=-378/257, 13-14=-378/257, 11-13=-22/598, 9-11=-22/598
 WEBS 2-16=0/468, 2-15=-1178/351, 4-15=-957/324, 5-15=-770/120, 5-14=0/495,
 5-13=-576/143, 6-13=-703/247, 8-13=-1214/355, 8-11=0/523

- 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) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 21-9-0, Exterior(2) 21-9-0 to 27-11-11, Interior(1) 27-11-11 to 37-3-0, Exterior(2) 37-3-0 to 43-5-10, Interior(1) 43-5-10 to 59-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 15=223, 13=123.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 20,2023

| | |
|---|---|
| <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/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)</p> | <p>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p> |
|---|---|

| | | | | | |
|-------------------|-------------|------------------------------|----------|----------|--|
| Job J0923-5239 | Truss A4 | Truss Type PIGGYBACK BASE | Qty 2 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869502 |
|-------------------|-------------|------------------------------|----------|----------|--|

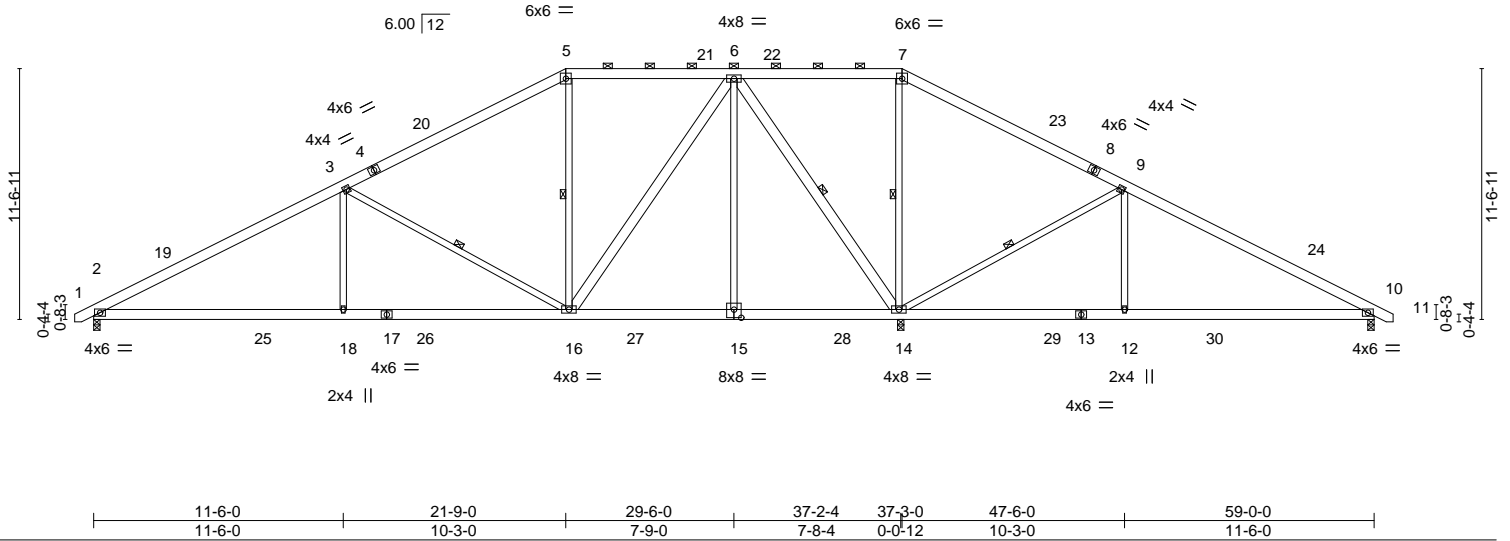
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:26:58 2023 Page 1

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Scale = 1:106.2



| | |
|-----------------------|------------------|
| Plate Offsets (X,Y)-- | [15:0-4-0,0-4-8] |
|-----------------------|------------------|

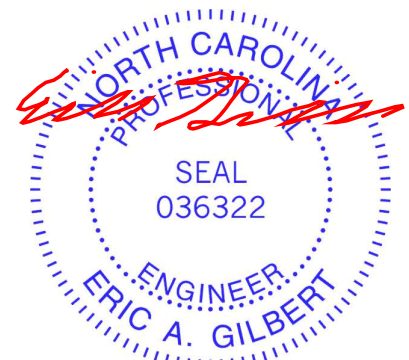
| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.63 | Vert(LL) | -0.11 | 2-18 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.49 | Vert(CT) | -0.26 | 2-18 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.88 | Horz(CT) | 0.04 | 14 | n/a | | |
| BCDL 10.0 | Code IRC2015/TP12014 | | Matrix-S | Wind(LL) | 0.08 | 2-18 | >999 | | |
| | | | | | | | | Weight: 452 lb | FT = 20% |

| | |
|--|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-7-15 oc purlins, except |
| BOT CHORD 2x6 SP No.1 *Except* 13-15: 2x6 SP 2400F 2.0E | 2-0-0 oc purlins (6-0-0 max.): 5-7. |
| WEBS 2x4 SP No.2 *Except* 6-16,6-14: 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| | WEBS 1 Row at midpt 3-16, 5-16, 6-14, 7-14, 9-14 |

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 10=0-3-8
 Max Horz 2=-146(LC 10)
 Max Uplift 2=-105(LC 12), 14=-16(LC 12), 10=-106(LC 13)
 Max Grav 2=1291(LC 23), 14=3308(LC 2), 10=546(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2032/437, 3-5=-1001/360, 5-6=-749/410, 6-7=0/1011, 7-9=-78/1211,
 9-10=-417/394
 BOT CHORD 2-18=-267/1726, 16-18=-267/1726, 12-14=-293/251, 10-12=-293/251
 WEBS 3-18=0/520, 3-16=-1182/350, 6-16=-229/1041, 6-15=0/422, 6-14=-1950/432,
 7-14=-925/297, 9-14=-1222/360, 9-12=0/519

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-9-0, Exterior(2) 21-9-0 to 27-11-11, Interior(1) 27-11-11 to 37-3-0, Exterior(2) 37-3-0 to 43-5-10, Interior(1) 43-5-10 to 59-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 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) 14 except (jt=lb) 2=105, 10=106.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 20, 2023

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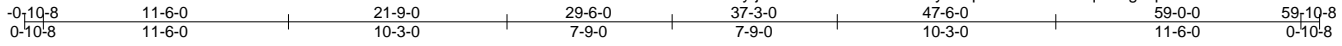
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|----------------|-----|-----|---------------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett | 160869503 |
| J0923-5239 | A4A | PIGGYBACK BASE | 5 | 1 | Job Reference (optional) | |

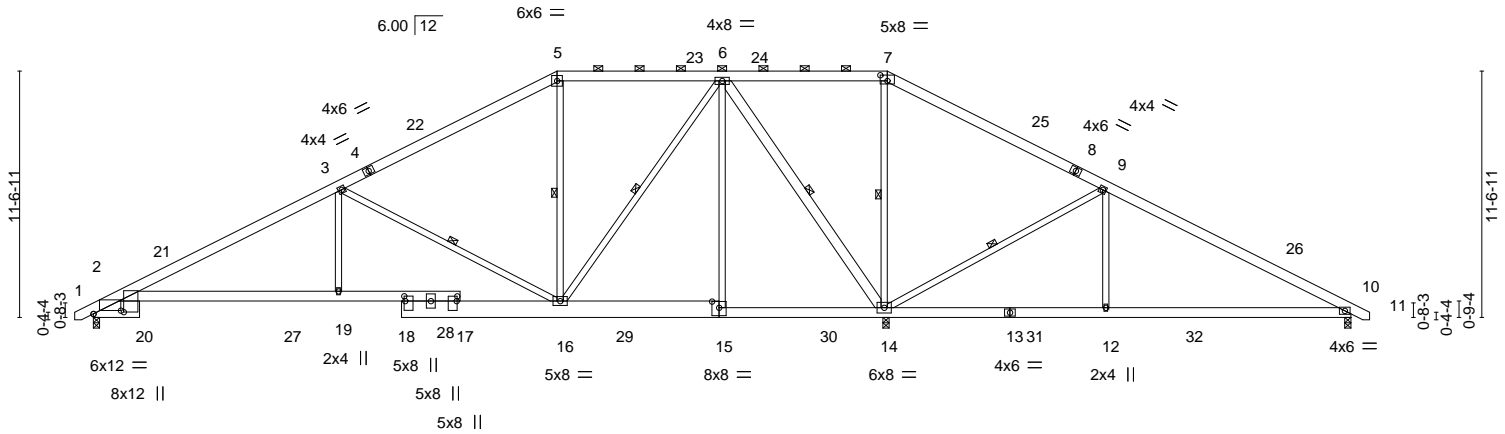
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:00 2023 Page 1

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Scale = 1:108.1



| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [2:0-1-0,1-5-1], [2:1-3-7,0-1-14], [7:0-4-0,0-3-4], [15:0-4-0,0-3-8], [17:0-2-11,0-0-5], [18:0-2-12,0-0-9] |
|-----------------------|--|

| 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 0.69 | Vert(LL) | -0.19 | 2-19 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.61 | Vert(CT) | -0.40 | 2-19 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.94 | Horz(CT) | 0.10 | 14 | n/a | | |
| BCDL 10.0 | Code IRC2015/TP12014 | | Matrix-S | Wind(LL) | 0.15 | 2-19 | >999 | | |
| | | | | | | | | Weight: 474 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins, except |
| BOT CHORD 2x6 SP 2400F 2.0E *Except* 2-20,15-18; 2x10 SP No.1 | 2-0-0 oc purlins (6-0-0 max.): 5-7. |
| WEBS 2x4 SP No.2 *Except* 6-14: 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| | WEBS 1 Row at midpt 3-16, 5-16, 6-16, 6-14, 7-14, 9-14 |

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 10=0-3-8
 Max Horz 2=148(LC 11)
 Max Uplift 2=-90(LC 12), 14=-57(LC 12), 10=-226(LC 23)
 Max Grav 2=1131(LC 23), 14=3662(LC 2), 10=402(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1905/437, 3-5=-636/300, 5-6=-421/358, 6-7=-45/1494, 7-9=-172/1731, 9-10=-173/976
 BOT CHORD 2-19=-281/1609, 16-19=-263/1609, 15-16=-379/255, 14-15=-381/254, 12-14=-809/202, 10-12=-809/202
 WEBS 3-19=0/635, 3-16=-1395/403, 5-16=-294/156, 6-16=-250/1159, 6-15=0/444, 6-14=-2089/461, 7-14=-1175/339, 9-14=-1232/361, 9-12=0/522

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-9-0, Exterior(2) 21-9-0 to 27-11-11, Interior(1) 27-11-11 to 37-3-0, Exterior(2) 37-3-0 to 43-5-10, Interior(1) 43-5-10 to 59-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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 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, 14 except (jt=lb) 10=226.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 20, 2023

| | |
|---|--|
| <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.sbccomponents.com)</p> | <p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|---|--|

| | | | | | | |
|------------|-------|------------|-----|-----|---------------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett | 160869504 |
| J0923-5239 | A4GE | GABLE | 1 | 1 | Job Reference (optional) | |

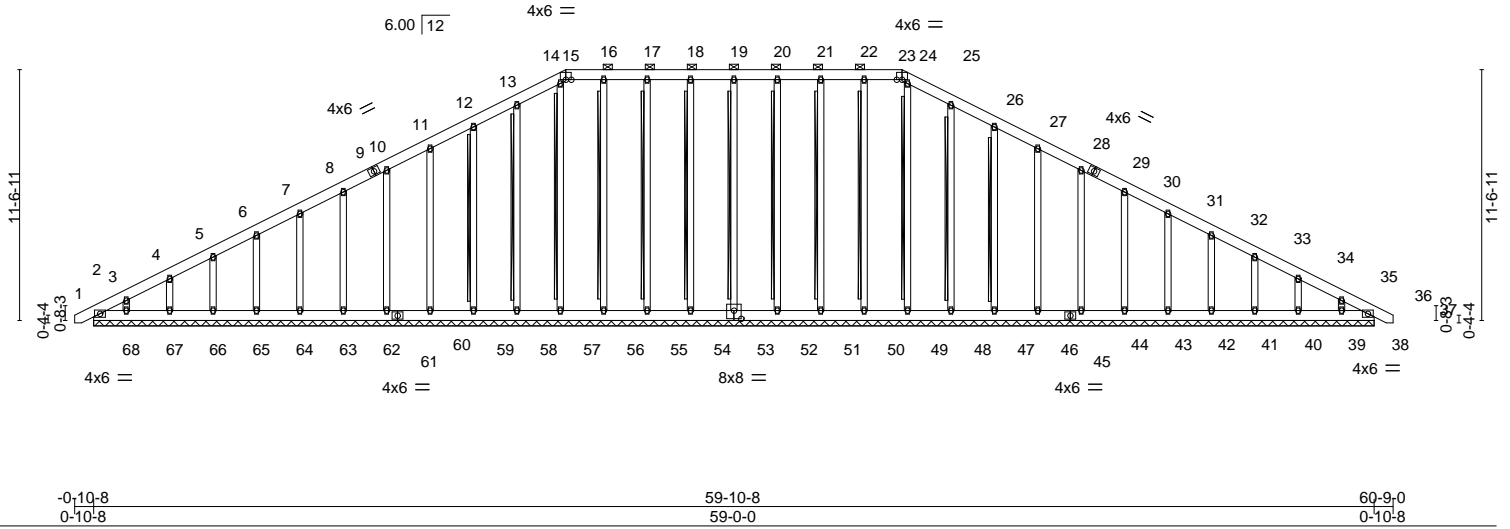
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:04 2023 Page 1

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| | | | | |
|---------|--------|---------|---------|--------|
| -0-10-8 | 22-7-8 | 38-1-8 | 59-10-8 | 60-9-0 |
| 0-10-8 | 21-9-0 | 15-5-15 | 21-9-0 | 0-10-8 |

Scale = 1:106.2



| | | | | | | | | | |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|----------------|----------|
| 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 | 36 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.02 | Vert(CT) | 0.00 | 36 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.13 | Horz(CT) | 0.01 | 36 | n/a | | |
| BCDL 10.0 | Code IRC2015/TP12014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 585 lb | FT = 20% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 15-23.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 19-53, 18-54, 17-55, 16-56, 14-57, 13-58, 12-59, 20-52, 21-51, 22-50, 24-49, 25-48, 26-47
 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 59-0-0.
 (lb) - Max Horz 2=228(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 53, 54, 55, 56, 58, 59, 60, 62, 63, 64, 65, 66, 67, 68, 52, 51, 50, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38
 Max Grav All reactions 250 lb or less at joint(s) 2, 36, 53, 54, 55, 56, 57, 58, 59, 60, 62, 63, 64, 65, 66, 67, 68, 52, 51, 50, 49, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-338/109, 3-4=-272/105, 10-11=-86/256, 11-12=-107/314, 12-13=-128/374, 13-14=-146/427, 14-15=-138/389, 15-16=-135/413, 16-17=-135/413, 17-18=-135/413, 18-19=-135/413, 19-20=-135/413, 20-21=-135/413, 21-22=-135/413, 22-23=-135/413, 23-24=-138/389, 24-25=-146/430, 25-26=-128/377, 26-27=-107/317, 27-28=-86/259

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) gable end zone and C-C Corner(3) -0-8-10 to 3-6-0, Exterior(2) 3-6-0 to 21-9-0, Corner(3) 21-9-0 to 26-1-13, Exterior(2) 26-1-13 to 37-3-0, Corner(3) 37-3-0 to 41-6-0, Exterior(2) 41-6-0 to 59-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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) 2, 53, 54, 55, 56, 58, 59, 60, 62, 63, 64, 65, 66, 67, 68, 52, 51, 50, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38.

Continued on page 2



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/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)



818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|---------------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett | I60869504 |
| J0923-5239 | A4GE | GABLE | 1 | 1 | Job Reference (optional) | |

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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:04 2023 Page 2
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NOTES-

- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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/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)



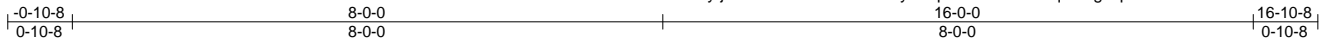
818 Soundside Road
 Edenton, NC 27932

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|-------------------|-------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss P1 | Truss Type COMMON | Qty 4 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869505 |
|-------------------|-------------|----------------------|----------|----------|--|

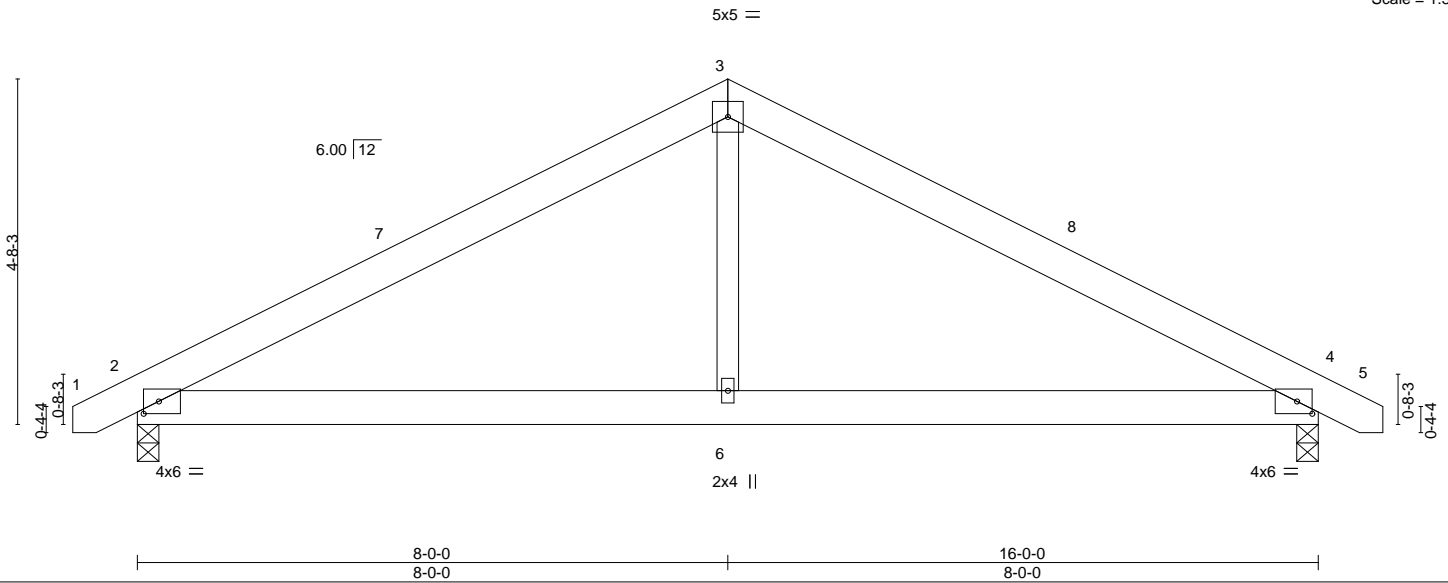
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:05 2023 Page 1

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Scale = 1:31.2



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

| 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 0.29 | Vert(LL) | 0.06 | 4-6 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.24 | Vert(CT) | -0.05 | 4-6 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.13 | Horz(CT) | 0.01 | 4 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 90 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 9-5-12 oc bracing. |
| WEBS 2x4 SP No.2 | |

| REACTIONS. | (size) |
|------------|---------------------------------------|
| | 2=0-3-8, 4=0-3-8 |
| | Max Horz 2=-57(LC 10) |
| | Max Uplift 2=-142(LC 9), 4=-142(LC 8) |
| | Max Grav 2=680(LC 1), 4=680(LC 1) |

| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
|-----------|--|
| TOP CHORD | 2-3=-876/845, 3-4=-876/843 |
| BOT CHORD | 2-6=-619/679, 4-6=-619/679 |
| WEBS | 3-6=-478/381 |

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-8-10 zone; porch left and right exposed; 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=142, 4=142.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 20, 2023

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|--|---|

| | | | | | |
|------------|-------|------------|-----|-----|---------------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett |
| J0923-5239 | P1GE | GABLE | 1 | 1 | I60869506 |
| | | | | | Job Reference (optional) |

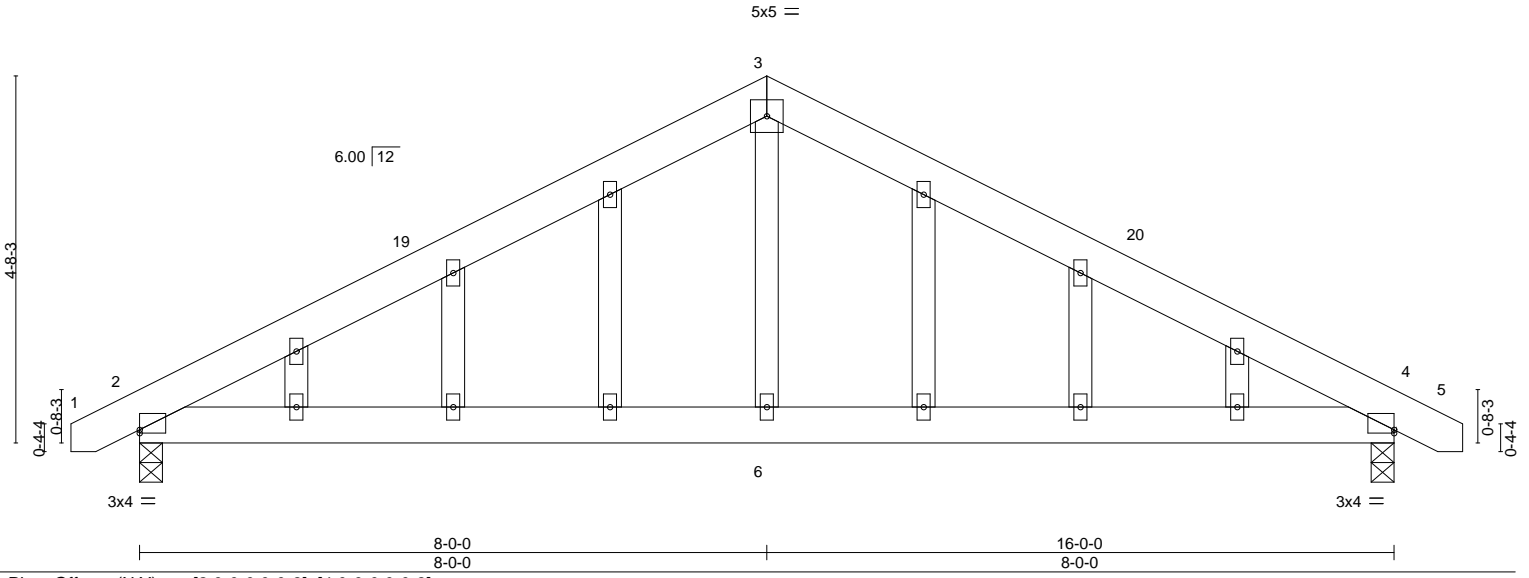
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:06 2023 Page 1

ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:29.4



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-----------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.29 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.24 | Vert(LL) -0.02 4-6 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.09 | Vert(CT) -0.05 4-6 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 4 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.03 2-6 >999 240 | Weight: 106 lb | FT = 20% |

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

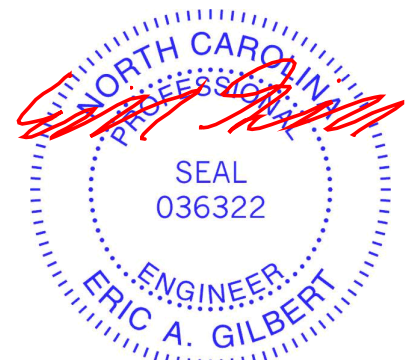
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=-88(LC 13)
 Max Uplift 2=-153(LC 12), 4=-153(LC 13)
 Max Grav 2=680(LC 1), 4=680(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-876/238, 3-4=-876/237
 BOT CHORD 2-6=-78/679, 4-6=-78/679
 WEBS 3-6=0/381

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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=153, 4=153.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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| | | | | | |
|------------|-------|------------|-----|-----|---------------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett |
| J0923-5239 | PB1 | PIGGYBACK | 20 | 1 | 160869507 |
| | | | | | Job Reference (optional) |

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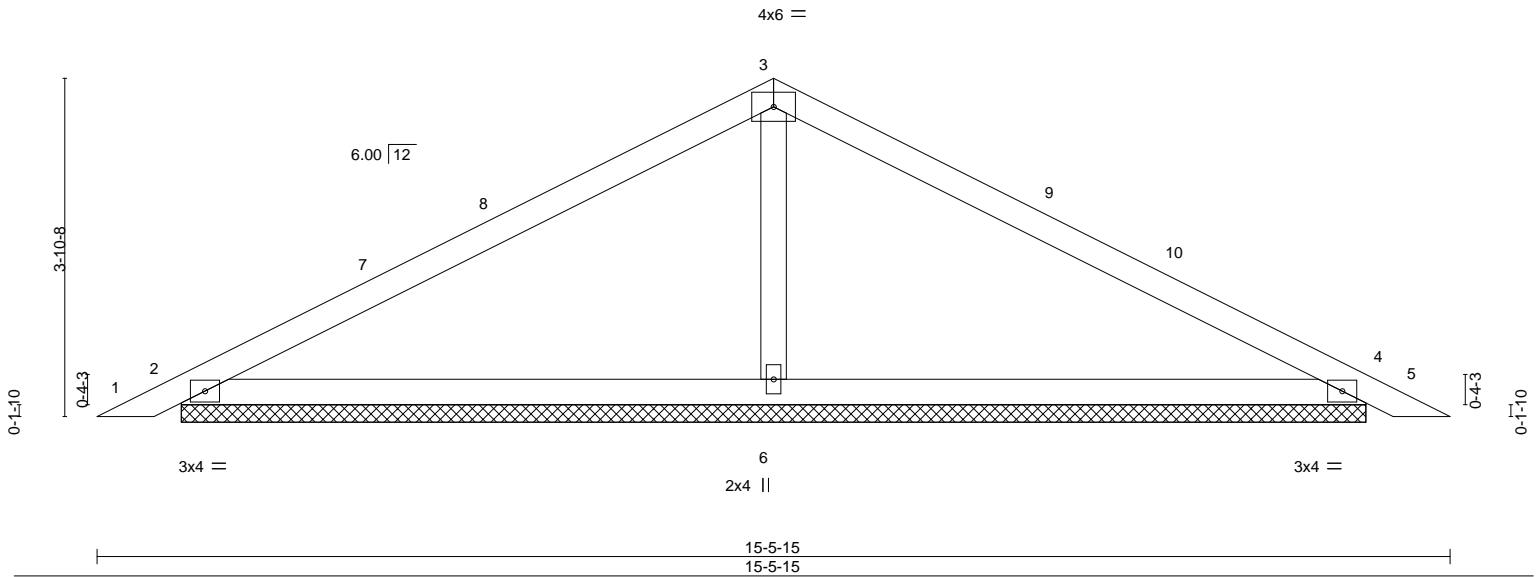
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:07 2023 Page 1

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7-9-0
7-9-0

15-5-15
7-8-15

Scale = 1:26.4



| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.48 | Vert(LL) | 0.03 | 5 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.33 | Vert(CT) | 0.05 | 5 | n/r | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.08 | Horz(CT) | 0.00 | 4 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 51 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

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

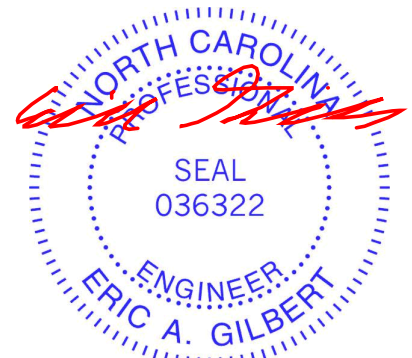
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=13-6-13, 4=13-6-13, 6=13-6-13
 Max Horz 2=-48(LC 10)
 Max Uplift 2=-42(LC 12), 4=-51(LC 13)
 Max Grav 2=291(LC 23), 4=291(LC 24), 6=586(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-379/187

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) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 7-9-0, Exterior(2) 7-9-0 to 12-1-12, Interior(1) 12-1-12 to 15-2-0 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 20, 2023

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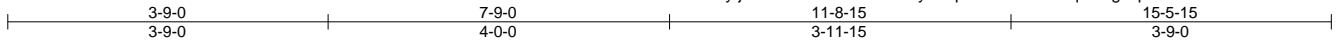
818 Soundside Road
 Edenton, NC 27932

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|------------|-------|------------|-----|-----|---------------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett | 160869508 |
| J0923-5239 | PB1GE | GABLE | 2 | 1 | Job Reference (optional) | |

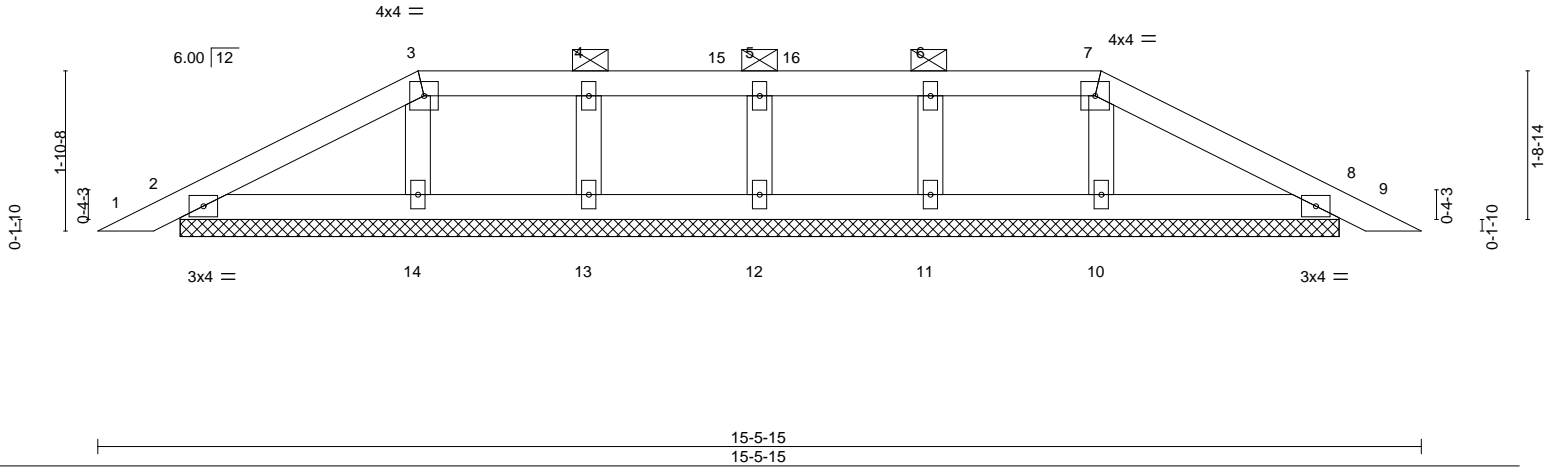
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:09 2023 Page 1

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Scale = 1:27.0



| 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 0.08 | Vert(LL) | 0.00 | 9 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.04 | Vert(CT) | 0.00 | 9 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 53 lb | FT = 20% |

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

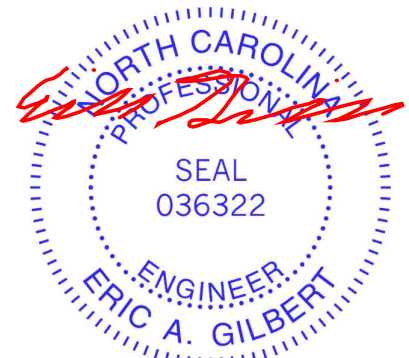
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-6-13.
 (lb) - Max Horz 2=35(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 8-2-3, Exterior(2) 8-2-3 to 11-8-8, Corner(3) 11-8-8 to 15-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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) 2, 8, 12, 13, 14, 11, 10.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 20, 2023

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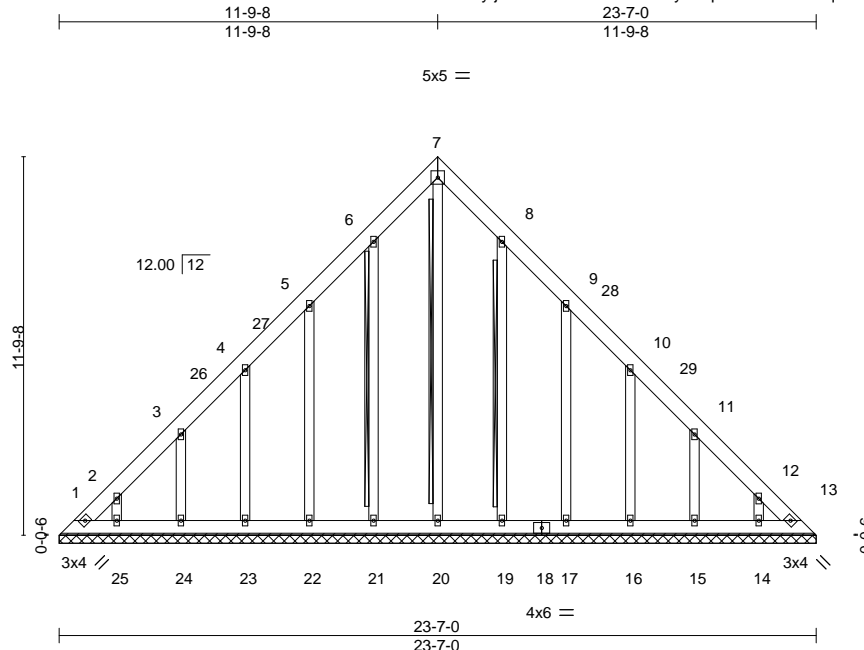
818 Soundside Road
 Edenton, NC 27932

| | | | | | |
|-------------------|--------------|---------------------|----------|----------|--|
| Job J0923-5239 | Truss VA1 | Truss Type GABLE | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869509 |
|-------------------|--------------|---------------------|----------|----------|--|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:10 2023 Page 1

ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:71.8

Plate Offsets (X, Y)-- [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-0-0,0-0-0]

| 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 0.04 | 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 0.17 | Horz(CT) | 0.01 | 13 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 217 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 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.
 WEBS T-Brace: 2x4 SPF No.2 - 7-20, 6-21, 8-19
 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 23-7-0.
 (lb) - Max Horz 1=337(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 19 except 1=-164(LC 10), 13=-114(LC 11), 21=-103(LC 12), 22=-154(LC 12), 23=-138(LC 12), 24=-140(LC 12), 25=-125(LC 12), 17=-157(LC 13), 16=-138(LC 13), 15=-140(LC 13), 14=-125(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 23, 24, 25, 19, 17, 16, 15, 14 except 1=335(LC 12), 13=301(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-483/291, 2-3=-378/237, 11-12=-330/208, 12-13=-436/291
 BOT CHORD 1-25=-215/330, 24-25=-217/331, 23-24=-218/331, 22-23=-219/331, 21-22=-219/332, 20-21=-219/332, 19-20=-219/332, 17-19=-219/331, 16-17=-219/331, 15-16=-218/331, 14-15=-217/330, 13-14=-215/328

- 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 Exterior(2) 0-6-10 to 4-11-7, Interior(1) 4-11-7 to 11-9-8, Exterior(2) 11-9-8 to 16-2-5, Interior(1) 16-2-5 to 23-0-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 1=164, 13=114, 21=103, 22=154, 23=138, 24=140, 25=125, 17=157, 16=138, 15=140, 14=125.
 - 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/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)



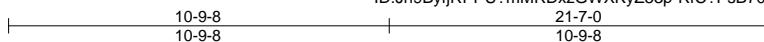
818 Soundside Road
 Edenton, NC 27932

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|-------------------|--------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VA2 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869510 |
|-------------------|--------------|----------------------|----------|----------|--|

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4x4 =

Scale = 1:65.3

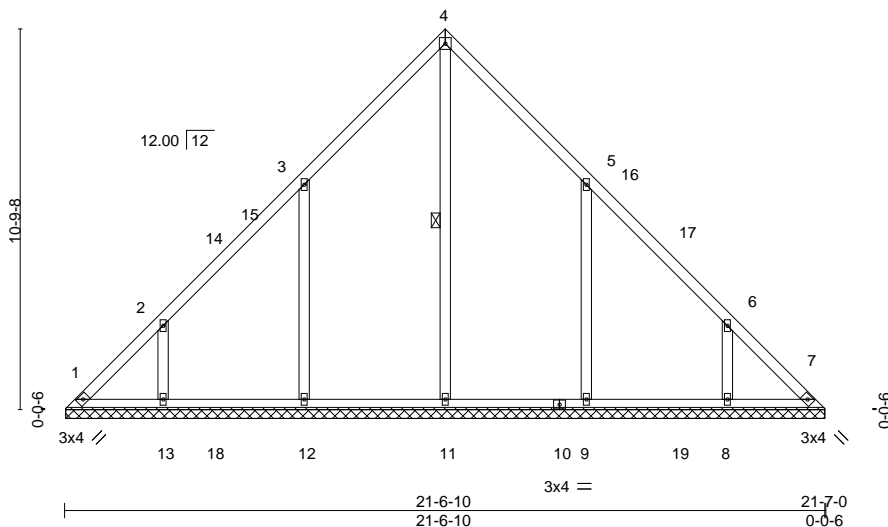


Plate Offsets (X, Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

| 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 0.16 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.12 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.29 | Horz(CT) | 0.01 | 7 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 116 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.
 WEBS 1 Row at midpt 4-11

REACTIONS.

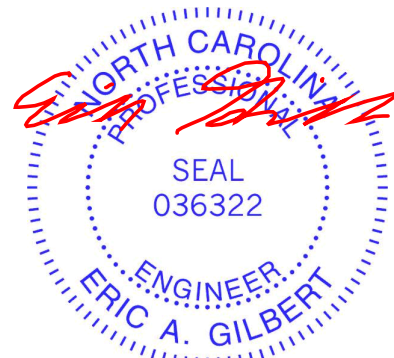
All bearings 21-6-4.
 (lb) - Max Horz 1=250(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=183(LC 12), 13=144(LC 12), 9=183(LC 13), 8=144(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=362(LC 22), 12=518(LC 19), 13=347(LC 19), 9=518(LC 20), 8=347(LC 20)

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

TOP CHORD 1-2=-273/217, 6-7=-250/217
 WEBS 3-12=-403/307, 2-13=-326/262, 5-9=-403/307, 6-8=-326/262

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 10-9-8, Exterior(2) 10-9-8 to 15-2-5, Interior(1) 15-2-5 to 21-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=183, 13=144, 9=183, 8=144.



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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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|-------------------|--------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VA3 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett I60869511 |
|-------------------|--------------|----------------------|----------|----------|--|

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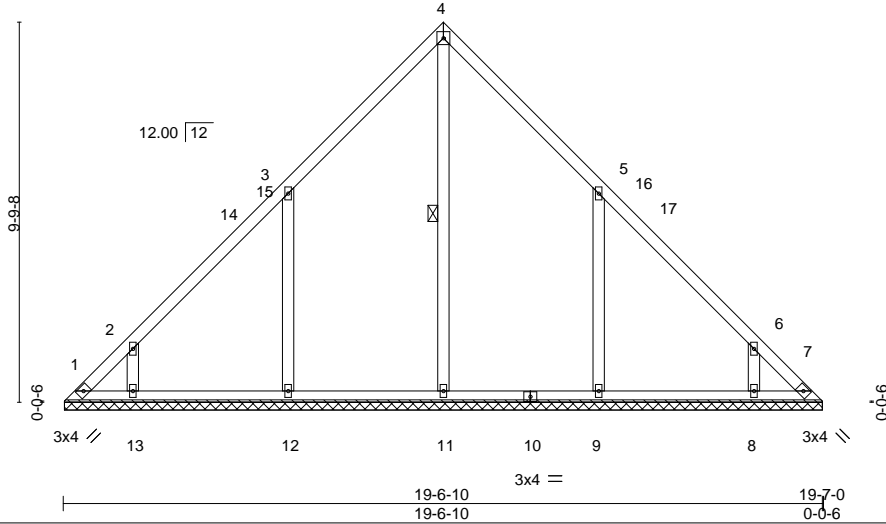
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:15 2023 Page 1

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4x4 =

Scale = 1:59.3



| | |
|-----------------------|----------------------------------|
| Plate Offsets (X,Y)-- | [5:0-0-0,0-0-0], [6:0-0-0,0-0-0] |
|-----------------------|----------------------------------|

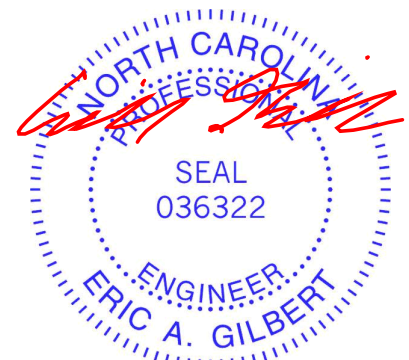
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.16 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.14 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.20 | Horz(CT) | 0.00 | 7 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 102 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 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 | WEBS 1 Row at midpt 4-11 |

REACTIONS. All bearings 19-6-4.
 (lb) - Max Horz 1=-226(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-125(LC 10), 12=-185(LC 12), 13=-132(LC 12), 9=-185(LC 13), 8=-132(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=368(LC 22), 12=461(LC 19), 13=286(LC 19), 9=460(LC 20), 8=286(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-267/225, 6-7=-259/225
 WEBS 3-12=-406/309, 2-13=-307/258, 5-9=-406/309, 6-8=-307/259

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-9-8, Exterior(2) 9-9-8 to 14-2-5, Interior(1) 14-2-5 to 19-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=125, 12=185, 13=132, 9=185, 8=132.



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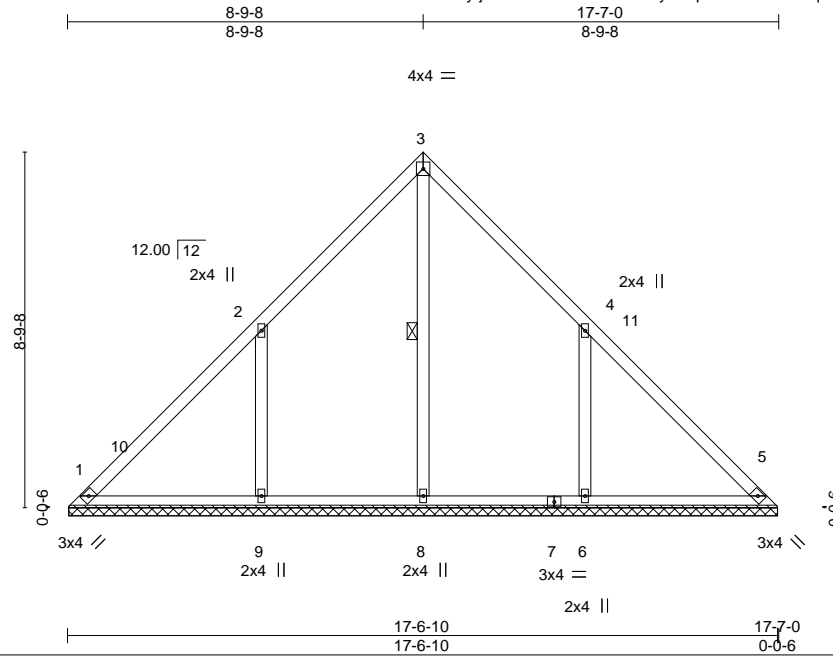
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| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for 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 J0923-5239 | Truss VA4 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869512 |
|-------------------|--------------|----------------------|----------|----------|--|

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Scale = 1:57.0

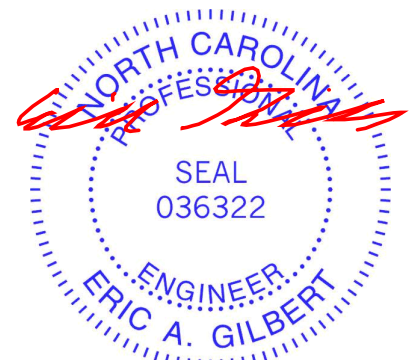
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|-----------------------|-----------------------|-------------|----------------------------------|---------------|-------------|
| Plate Offsets (X,Y)-- | [4:0-0-0,0-0-0] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.22 | Vert(LL) n/a - n/a 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.13 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.15 | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 86 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 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 | WEBS 1 Row at midpt 3-8 |

REACTIONS. All bearings 17-6-4.
 (lb) - Max Horz 1=-202(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-213(LC 12), 6=-213(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=345(LC 22), 9=523(LC 19), 6=522(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-9=-457/338, 4-6=-457/338

- 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) and C-C Exterior(2) 0-4-4 to 4-9-8, Interior(1) 4-9-8 to 8-9-8, Exterior(2) 8-9-8 to 13-2-5, Interior(1) 13-2-5 to 17-2-12 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 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=213, 6=213.



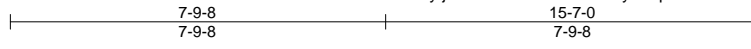
September 20, 2023

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|-------------------|--------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VA5 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869513 |
|-------------------|--------------|----------------------|----------|----------|--|

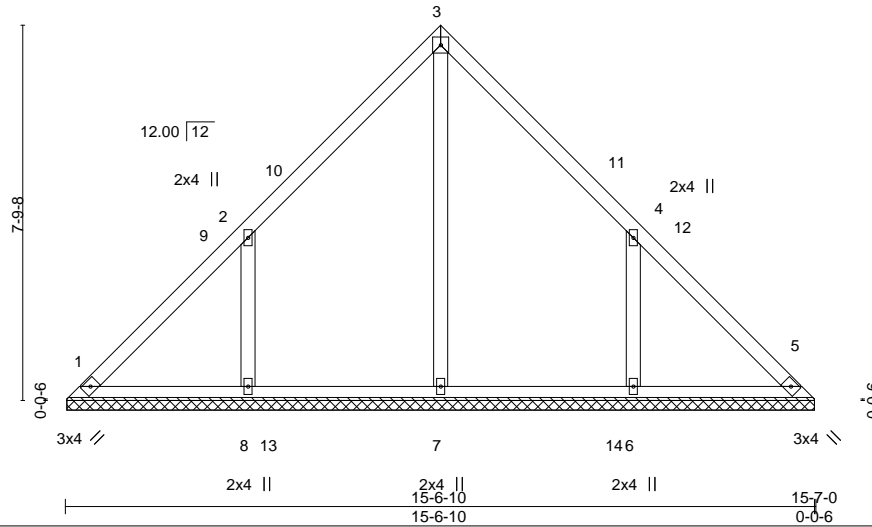
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:18 2023 Page 1
ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



4x4 =

Scale: 1/4"=1'



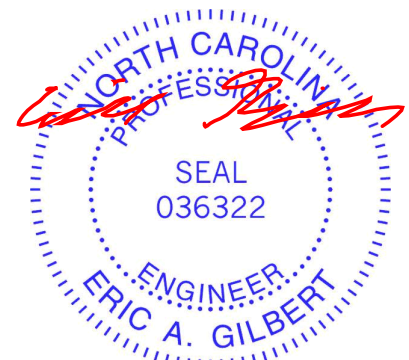
| | | | | | |
|-----------------------|-----------------------|-------------|----------------------------------|---------------|-------------|
| Plate Offsets (X,Y)-- | [4:0-0-0,0-0-0] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.16 | Vert(LL) n/a - n/a 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.14 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.13 | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 75 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 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. All bearings 15-6-4.
 (lb) - Max Horz 1=178(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=186(LC 12), 6=186(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=348(LC 22), 8=449(LC 19), 6=449(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-403/309, 4-6=-403/309

- 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) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-9-8, Exterior(2) 7-9-8 to 12-2-5, Interior(1) 12-2-5 to 15-2-12 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=186, 6=186.



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|------------|-------|------------|-----|-----|---------------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Southern Touch/44 West Pointe/Harnett |
| J0923-5239 | VA6 | VALLEY | 1 | 1 | I60869514 |
| | | | | | Job Reference (optional) |

Comtech, Inc. Fayetteville, NC - 28314,

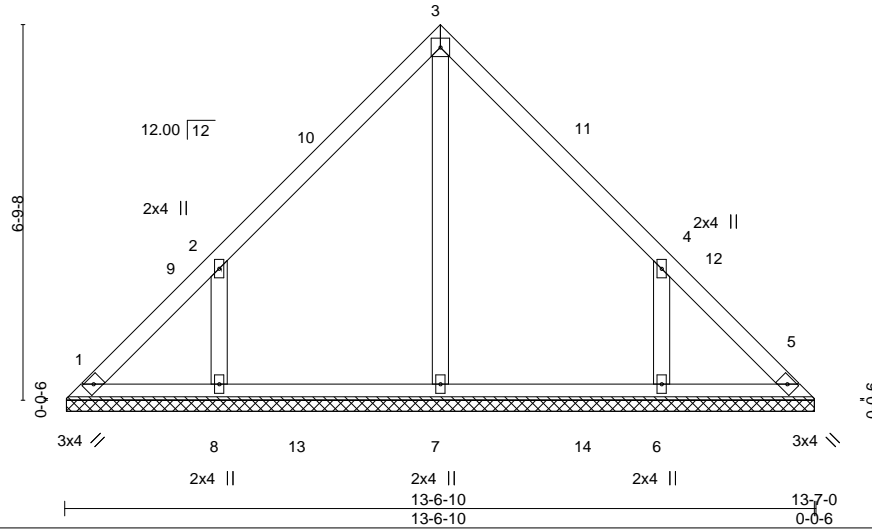
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:19 2023 Page 1

ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



4x4 =

Scale = 1:41.7



| | |
|-----------------------|-----------------|
| Plate Offsets (X,Y)-- | [4:0-0-0,0-0-0] |
|-----------------------|-----------------|

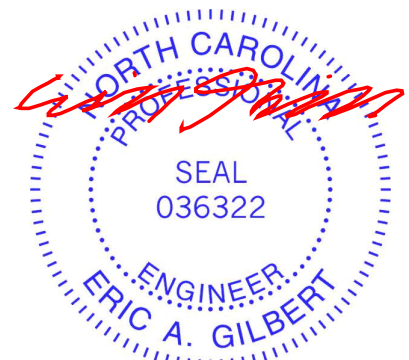
| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.14 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.12 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.10 | Horz(CT) | 0.00 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 63 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 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. All bearings 13-6-4.
 (lb) - Max Horz 1=-154(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-166(LC 12), 6=-166(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=335(LC 19), 8=379(LC 19), 6=379(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-364/291, 4-6=-364/292

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-9-8, Exterior(2) 6-9-8 to 11-2-5, Interior(1) 11-2-5 to 13-2-12 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=166, 6=166.



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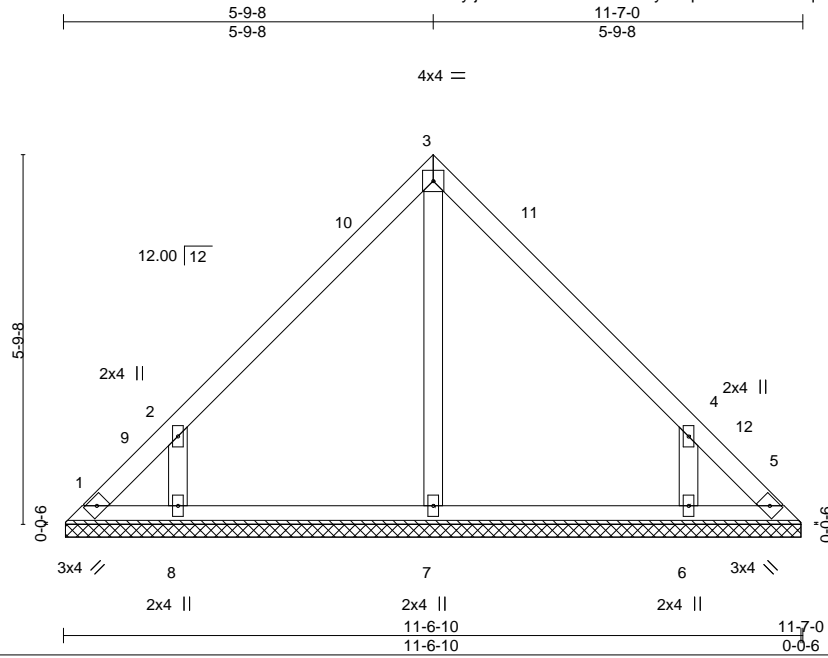
| | |
|--|---|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not 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>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|--|---|

| | | | | | |
|-------------------|--------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VA7 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869515 |
|-------------------|--------------|----------------------|----------|----------|--|

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Scale = 1:36.1

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

| 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 0.14 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.09 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.07 | Horz(CT) | 0.00 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 51 lb | FT = 20% |

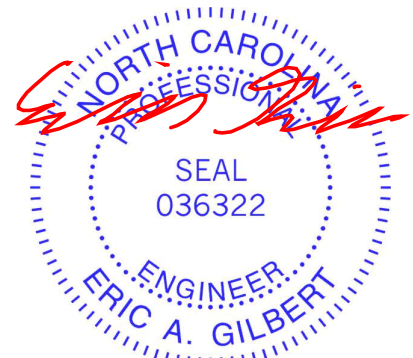
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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 11-6-4.
 (lb) - Max Horz 1=130(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=162(LC 12), 6=161(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=339(LC 19), 6=339(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-361/303, 4-6=-361/303

- 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) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-9-8, Exterior(2) 5-9-8 to 10-2-5, Interior(1) 10-2-5 to 11-2-12 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 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, 5 except (jt=lb) 8=162, 6=161.



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|-------------------|--------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VA8 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett I60869516 |
|-------------------|--------------|----------------------|----------|----------|--|

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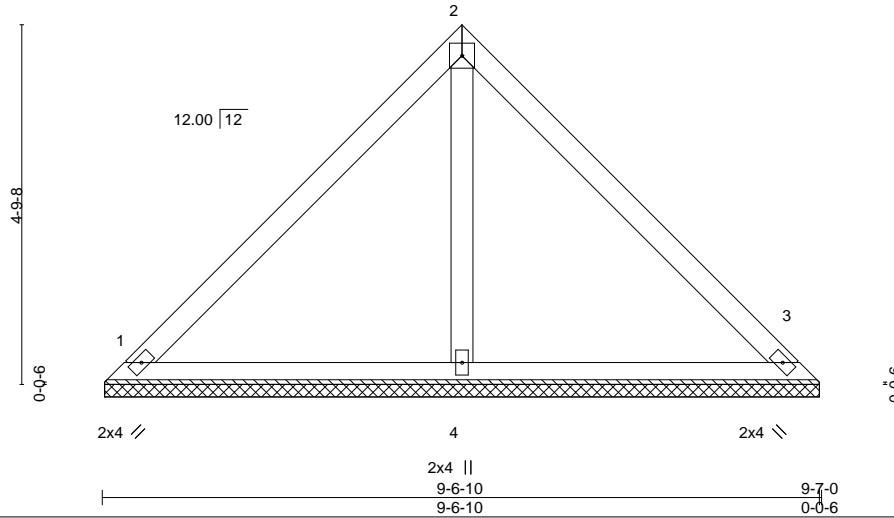
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:21 2023 Page 1

ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



4x4 =

Scale = 1:30.7



| 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 0.22 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.15 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.06 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 39 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=9-6-4, 3=9-6-4, 4=9-6-4
 Max Horz 1=-106(LC 8)
 Max Uplift 1=-26(LC 13), 3=-26(LC 13)
 Max Grav 1=201(LC 1), 3=201(LC 1), 4=308(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 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.



September 20, 2023

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|-------------------|--------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VA9 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett I60869517 |
|-------------------|--------------|----------------------|----------|----------|--|

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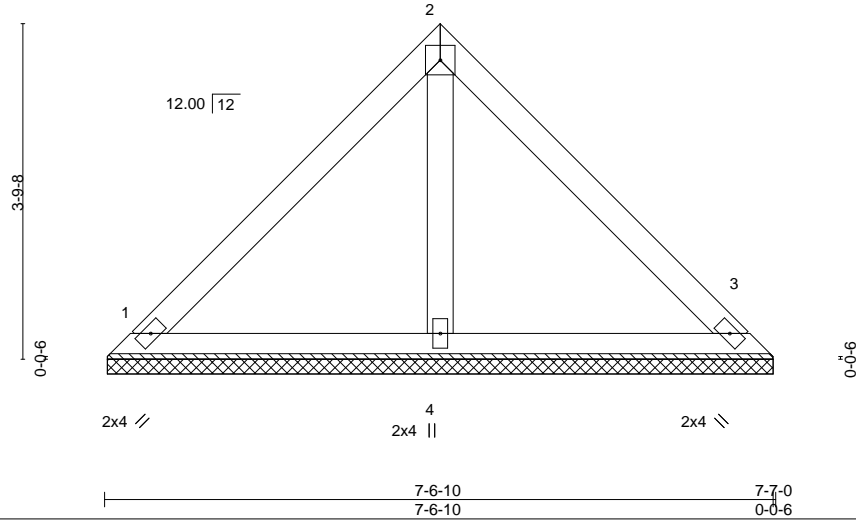
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:22 2023 Page 1

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4x4 =

Scale = 1:26.0



| 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 0.20 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.09 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | 0.00 | 3 | 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

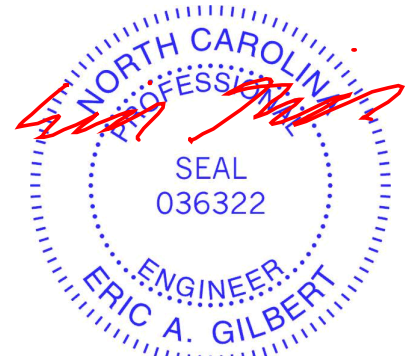
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-6-4, 3=7-6-4, 4=7-6-4
 Max Horz 1=82(LC 9)
 Max Uplift 1=30(LC 13), 3=30(LC 13)
 Max Grav 1=168(LC 1), 3=168(LC 1), 4=215(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 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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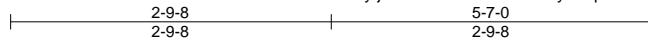
818 Soundside Road
 Edenton, NC 27932

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|-------------------|---------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VA10 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett I60869518 |
|-------------------|---------------|----------------------|----------|----------|--|

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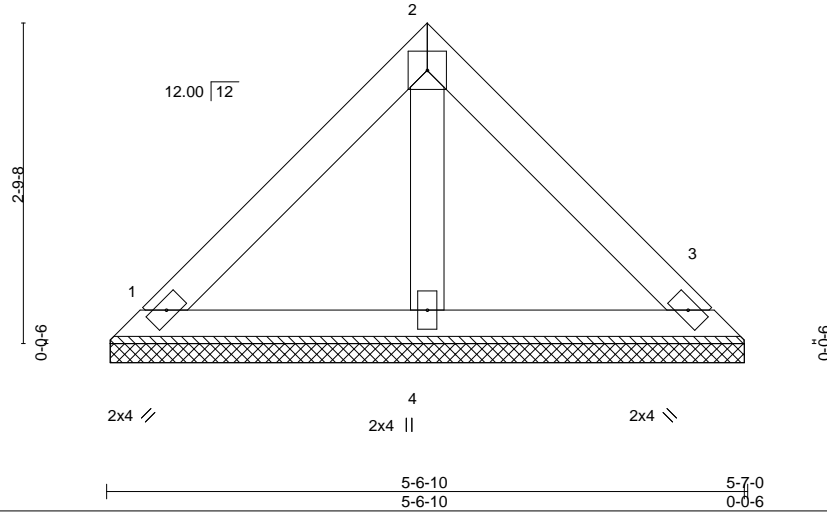
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:12 2023 Page 1

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4x4 =

Scale = 1:20.1



| 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 0.10 | 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% |

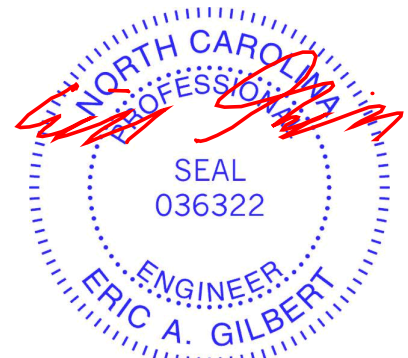
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-6-4, 3=5-6-4, 4=5-6-4
 Max Horz 1=-58(LC 8)
 Max Uplift 1=-21(LC 13), 3=-21(LC 13)
 Max Grav 1=119(LC 1), 3=119(LC 1), 4=153(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=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 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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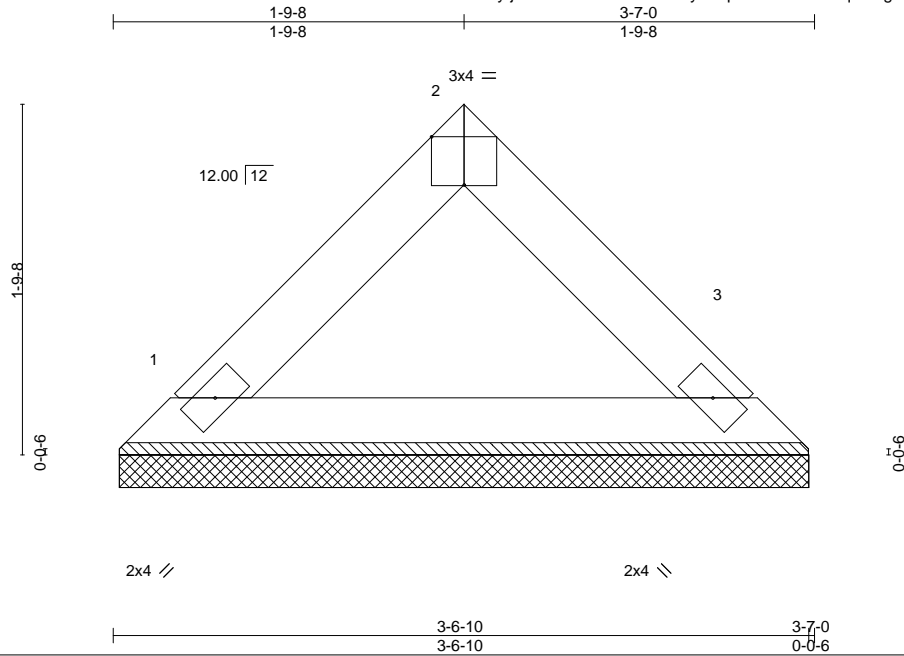
818 Soundside Road
 Edenton, NC 27932

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|-------------------|---------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VA11 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett I60869519 |
|-------------------|---------------|----------------------|----------|----------|--|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:13 2023 Page 1

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Scale = 1:11.8

| Plate Offsets (X,Y)-- [2:0-2-0,Edge] | | CSI. | | DEFL. | | | | PLATES | GRIP |
|--------------------------------------|-----------------|-----------------|----------|----------|-------|--------|-----|---------------|----------|
| LOADING (psf) | SPACING- | 2-0-0 | TC | in | (loc) | l/defl | L/d | MT20 | 244/190 |
| TCLL 20.0 | Plate Grip DOL | 1.15 | 0.03 | Vert(LL) | n/a | - | n/a | | |
| TCDL 10.0 | Lumber DOL | 1.15 | 0.07 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | 0.00 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | Weight: 11 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 3-7-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-6-4, 3=3-6-4
 Max Horz 1=35(LC 11)
 Max Uplift 1=4(LC 12), 3=4(LC 12)
 Max Grav 1=115(LC 1), 3=115(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; TCCL=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 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.



September 20, 2023

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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/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)



818 Soundside Road
 Edenton, NC 27932

| | | | | | |
|-------------------|--------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VP1 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869520 |
|-------------------|--------------|----------------------|----------|----------|--|

Comtech, Inc. Fayetteville, NC - 28314,

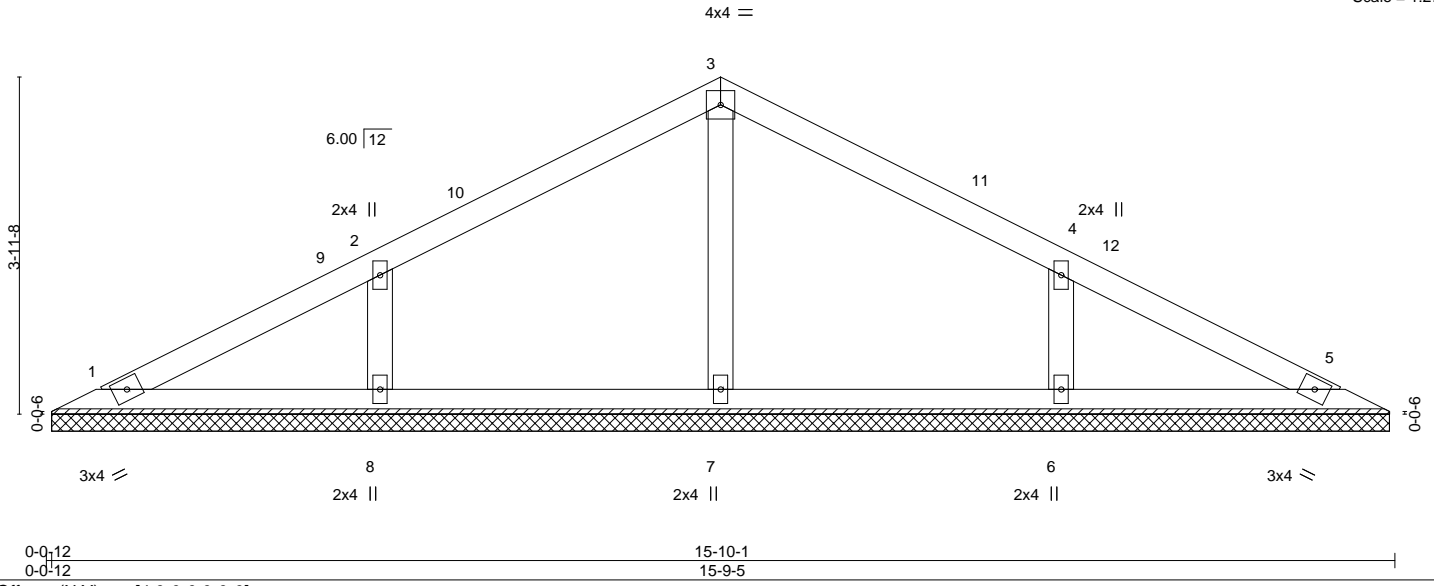
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:23 2023 Page 1

ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Job Reference (optional)

7-11-0
7-11-0
15-10-1
7-11-1

Scale = 1:27.1



| | | | | | | | | | |
|------------------------|----------------------|-------|-------------|---------------|----------|--------|-----|---------------|-------------|
| Plate Offsets (X, Y)-- | [4:0-0-0,0-0-0] | | | | | | | | |
| 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 0.15 | Vert(LL) n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | | BC 0.08 | Vert(CT) n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | | WB 0.05 | Horz(CT) 0.00 | 5 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 57 lb | FT = 20% |

| | | | |
|-----------------------|--|-----------------|---|
| LUMBER- | | BRACING- | |
| TOP CHORD 2x4 SP No.1 | | TOP CHORD | Structural wood sheathing directly applied or 6-0-0 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. All bearings 15-8-9.
 (lb) - Max Horz 1=48(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=272(LC 1), 8=344(LC 23), 6=344(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-260/202, 4-6=-260/202

- 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) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 7-11-0, Exterior(2) 7-11-0 to 12-3-13, Interior(1) 12-3-13 to 15-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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, 8, 6.
 - 6) N/A

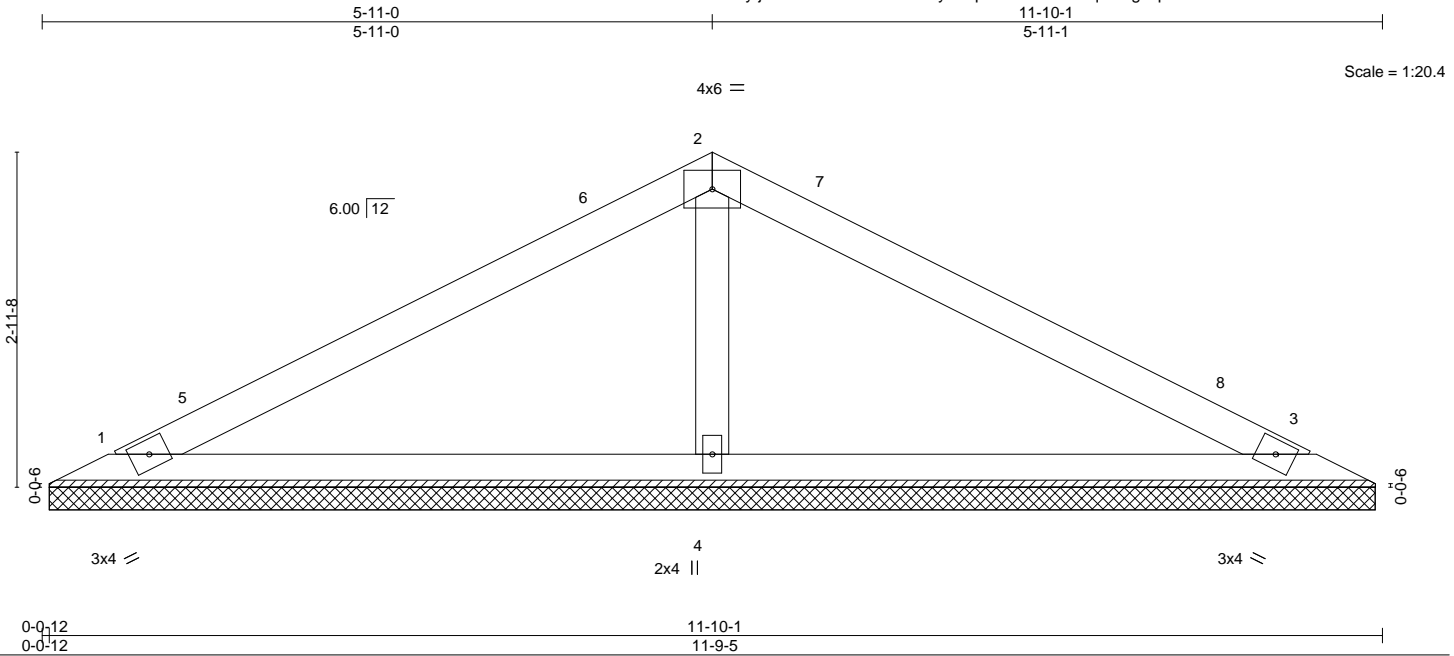


September 20, 2023

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|--|--|
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|--|--|

| | | | | | |
|---|--------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VP2 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett I60869521 |
| Comtech, Inc. Fayetteville, NC - 28314, | | | | | Job Reference (optional) |

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:25 2023 Page 1
 ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f



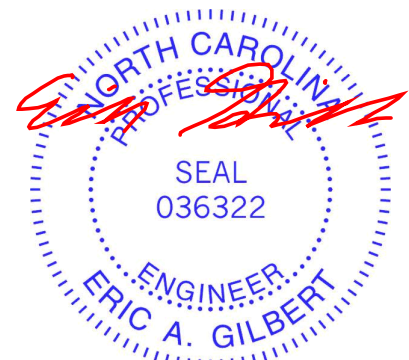
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.29 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.20 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.05 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 38 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 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=11-8-9, 3=11-8-9, 4=11-8-9
 Max Horz 1=-35(LC 10)
 Max Uplift 1=-26(LC 12), 3=-32(LC 13)
 Max Grav 1=195(LC 23), 3=195(LC 24), 4=456(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-302/187

- 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) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 5-11-0, Exterior(2) 5-11-0 to 10-3-13, Interior(1) 10-3-13 to 11-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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.
 - 6) N/A



September 20, 2023

| | | | | | |
|-------------------|--------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VP3 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869522 |
|-------------------|--------------|----------------------|----------|----------|--|

Comtech, Inc. Fayetteville, NC - 28314,

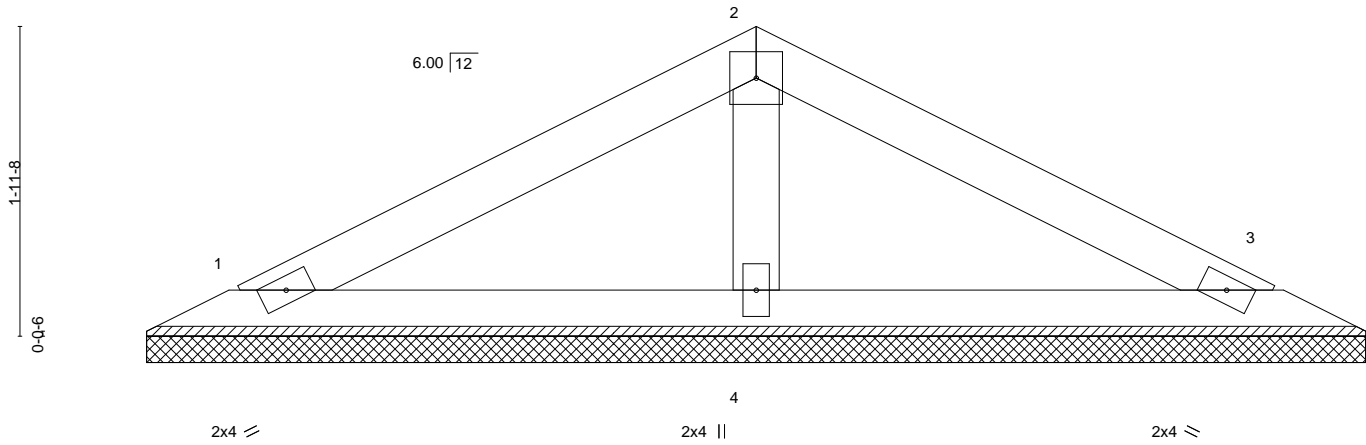
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:26 2023 Page 1

ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwrcDoi7J4zJC?f



Scale = 1:14.6

4x4 =



0-0-12
0-0-12

7-10-1
7-9-5

| 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 0.14 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| BCDL 10.0 | Lumber DOL | 1.15 | BC 0.08 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | Weight: 24 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=7-8-9, 3=7-8-9, 4=7-8-9
Max Horz 1=-21(LC 8)
Max Uplift 1=-21(LC 12), 3=-25(LC 13)
Max Grav 1=133(LC 1), 3=133(LC 1), 4=256(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 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) 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.
- 6) N/A



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Edenton, NC 27932

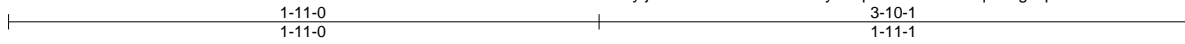
| | | | | | |
|-------------------|--------------|----------------------|----------|----------|--|
| Job J0923-5239 | Truss VP4 | Truss Type VALLEY | Qty 1 | Ply 1 | Southern Touch/44 West Pointe/Harnett 160869523 |
|-------------------|--------------|----------------------|----------|----------|--|

Comtech, Inc. Fayetteville, NC - 28314,

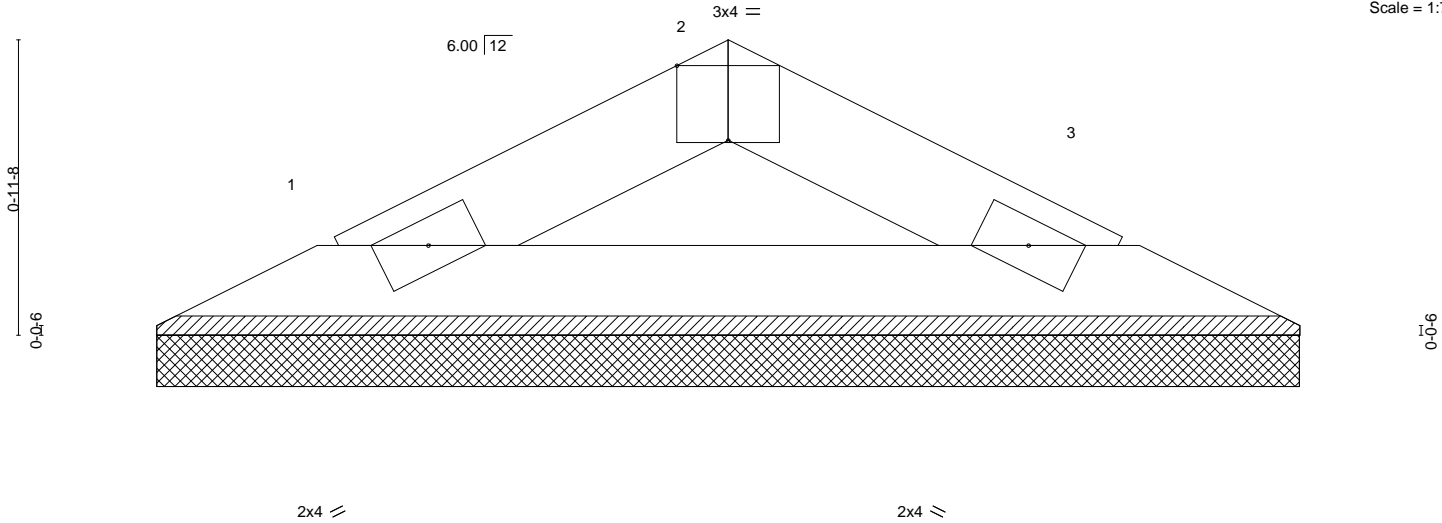
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 19 10:27:27 2023 Page 1

ID:Jh9ByfjRPPU?mMRDxzGWXKyZ53p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Job Reference (optional)



Scale = 1:7.5



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.03 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.06 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 10 lb | FT = 20% |

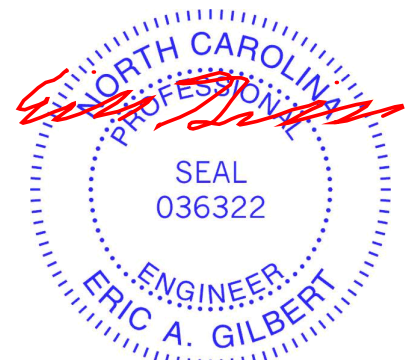
| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 3-10-1 oc purlins. |
| BOT CHORD 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 1=3-8-9, 3=3-8-9
 Max Horz 1=8(LC 9)
 Max Uplift 1=6(LC 12), 3=6(LC 13)
 Max Grav 1=101(LC 1), 3=101(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) 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.
- 6) N/A

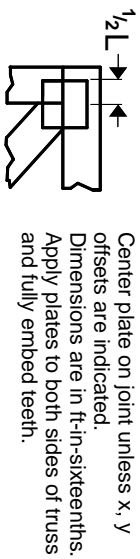


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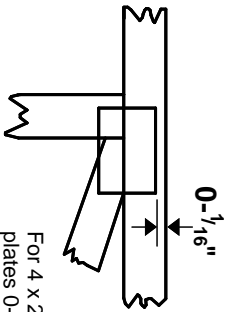
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|--|--|
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|--|--|

Symbols

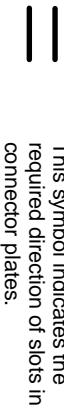
PLATE LOCATION AND ORIENTATION



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.



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

PLATE SIZE

4 X 4

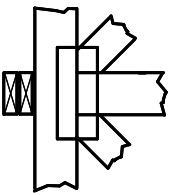
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

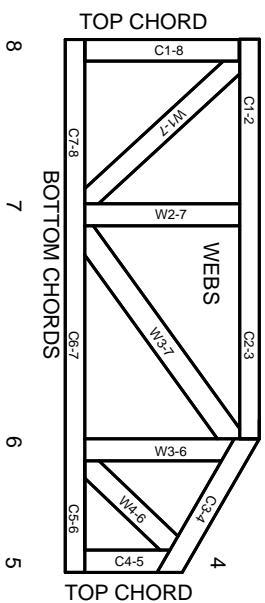
Industry Standards:

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
3 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 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.