

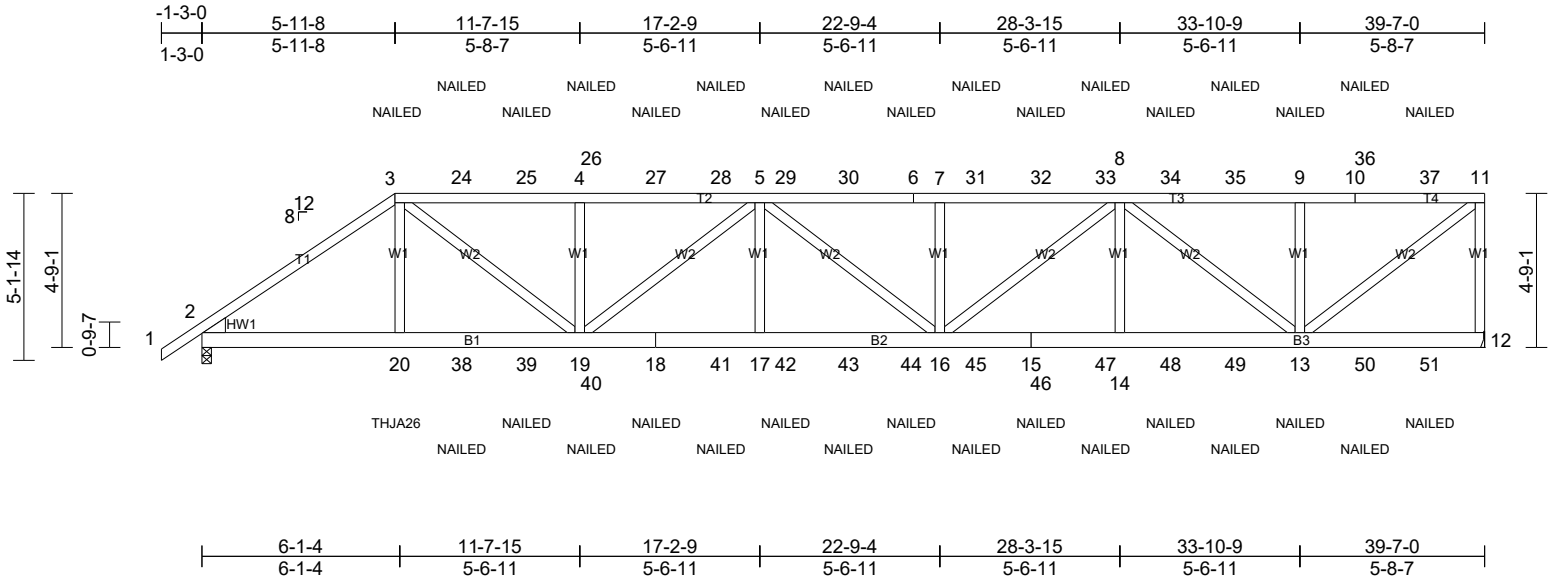
| | | | | | |
|----------|-------|-----------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | |
| 25111115 | A1L | Half Hip Girder | 1 | 2 | Job Reference (optional) |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:05

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| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.82 | Vert(LL) | 0.28 | 16-17 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.44 | 16-17 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.52 | Horz(CT) | 0.09 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 516 lb | FT = 20% |

| | | | | |
|---------------|-------------------|-------------|---|---|
| LUMBER | | WEBS | 3-20=0/382, 3-19=998/2876, 4-19=659/449, 5-19=1253/426, 5-17=0/416, 7-16=600/408, 8-16=478/1438, 8-14=0/421, 8-13=2821/934, 9-13=641/439, 11-13=1378/4238 | 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 5-11-14 from the left end to connect truss(es) to front face of bottom chord. |
| TOP CHORD | 2x4 SP No.2 | | | |
| BOT CHORD | 2x6 SP No.2 | | | |
| WEBS | 2x4 SP No.2 | | | |
| WEDGE | Left: 2x6 SP No.2 | | | 13) Fill all nail holes where hanger is in contact with lumber. |

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|----------------|--|--------------|--|--|
| BRACING | | NOTES | 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 3) Unbalanced roof live loads have been considered for this design. 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 5) Provide adequate drainage to prevent water ponding. 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 8) Refer to girder(s) for truss to truss connections. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 969 lb uplift at joint 12 and 837 lb uplift at joint 2. 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. | 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines. |
|----------------|--|--------------|--|--|

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|---------------------|----------|
| LOAD CASE(S) | Standard |
|---------------------|----------|

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| 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-60, 3-11=-60, 12-21=-20 Concentrated Loads (lb) Vert: 3=-95 (F), 6=-95 (F), 18=-45 (F), 20=-343 (F), 9=-95 (F), 13=-45 (F), 24=-95 (F), 25=-95 (F), 26=-95 (F), 27=-95 (F), 28=-95 (F), 29=-95 (F), 30=-95 (F), 31=-95 (F), 32=-95 (F), 33=-95 (F), 34=-95 (F), 35=-95 (F), 36=-95 (F), 37=-95 (F), 38=-45 (F), 39=-45 (F), 40=-45 (F), 41=-45 (F), 42=-45 (F), 43=-45 (F), 44=-45 (F), 45=-45 (F), 46=-45 (F), 47=-45 (F), 48=-45 (F), 49=-45 (F), 50=-45 (F), 51=-45 (F) |
|---|

| | | |
|------------------|-----------|---|
| REACTIONS | (lb/size) | 2=2960/0-3-8, (min. 0-1-12), 12=2946/ Mechanical Max Horiz 2=175 (LC 7) Max Uplift 2=-837 (LC 5), 12=-969 (LC 5) Max Grav 2=2960 (LC 1), 12=2965 (LC 18) |
|------------------|-----------|---|

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

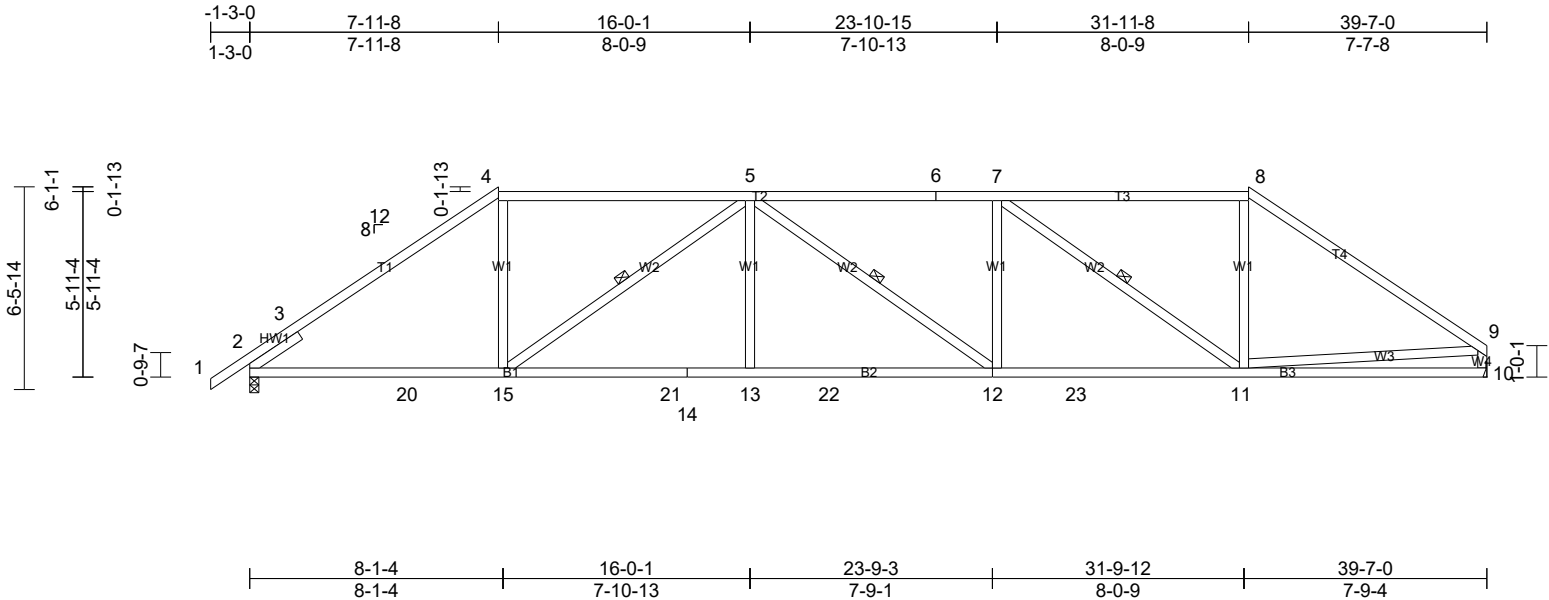
| | |
|-----------|---|
| TOP CHORD | 2-3=-4418/1379, 3-24=-5846/1904, 24-25=-5846/1904, 4-25=-5846/1904, 4-26=-5846/1904, 26-27=-5846/1904, 27-28=-5846/1904, 5-28=-5846/1904, 5-29=-6748/2175, 29-30=-6748/2175, 6-30=-6748/2175, 6-7=-6748/2175, 7-31=-6748/2175, 31-32=-6748/2175, 32-33=-6748/2175, 8-33=-6748/2175, 8-34=-3404/1116, 34-35=-3404/1116, 9-35=-3404/1116, 9-10=-3404/1116, 10-36=-3404/1116, 36-37=-3404/1116, 11-37=-3404/1116, 11-12=-2853/1001 |
|-----------|---|

| | |
|-----------|---|
| BOT CHORD | 2-20=-1234/3567, 20-38=-1232/3577, 38-39=-1232/3577, 19-39=-1232/3577, 19-40=-2281/6793, 18-40=-2281/6793, 18-41=-2281/6793, 17-41=-2281/6793, 17-42=-2281/6793, 42-43=-2281/6793, 43-44=-2281/6793, 16-44=-2281/6793, 16-45=-1869/5587, 15-45=-1869/5587, 15-46=-1869/5587, 46-47=-1869/5587, 14-47=-1869/5587, 14-48=-1869/5587, 48-49=-1869/5587, 13-49=-1869/5587 |
|-----------|---|

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A2 | Hip | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.20 | 13-15 | >999 | 240 | M18AHS 186/179 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.94 | Vert(CT) | -0.40 | 13-15 | >999 | 180 | MT20 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.54 | Horz(CT) | 0.13 | 10 | n/a | n/a | MT18HS 244/190 |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 213 lb FT = 20% |

| | | |
|------------------|--|--|
| LUMBER | | |
| TOP CHORD | 2x4 SP SS *Except* 4-6,6-8:2x4 SP No.1 | |
| BOT CHORD | 2x4 SP No.2 *Except* 2-14:2x4 SP No.1 | |
| WEBS | 2x4 SP No.2 | |
| SLIDER | Left 2x4 SP No.2 -- 1-11-0 | |
| BRACING | | |
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-8. | |
| BOT CHORD | Rigid ceiling directly applied or 2-2-0 oc bracing. | |
| WEBS | 1 Row at midpt 5-15, 5-12, 7-11 | |
| REACTIONS | (lb/size) 2=1654/0-3-8, (min. 0-1-15), 10=1576/ Mechanical | |
| | Max Horiz 2=160 (LC 9) | |
| | Max Uplift 2=-135 (LC 7), 10=-132 (LC 6) | |
| FORCES | | |
| | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | |
| TOP CHORD | 2-3=-785/108, 3-4=-2280/444, 4-5=-1842/435, 5-6=-2709/611, 6-7=-2709/611, 7-8=-1766/423, 8-9=-2194/424, 9-10=-1503/323 | |
| BOT CHORD | 2-20=-282/1818, 15-20=-282/1818, 15-21=-423/2781, 14-21=-423/2781, 13-14=-423/2781, 13-22=-423/2781, 12-22=-423/2781, 12-23=-412/2701, 11-23=-412/2701, 10-11=-131/334 | |
| WEBS | 4-15=-50/903, 5-15=-1215/301, 5-13=0/331, 7-12=0/321, 7-11=-1257/289, 8-11=-44/775, 9-11=-248/1411 | |

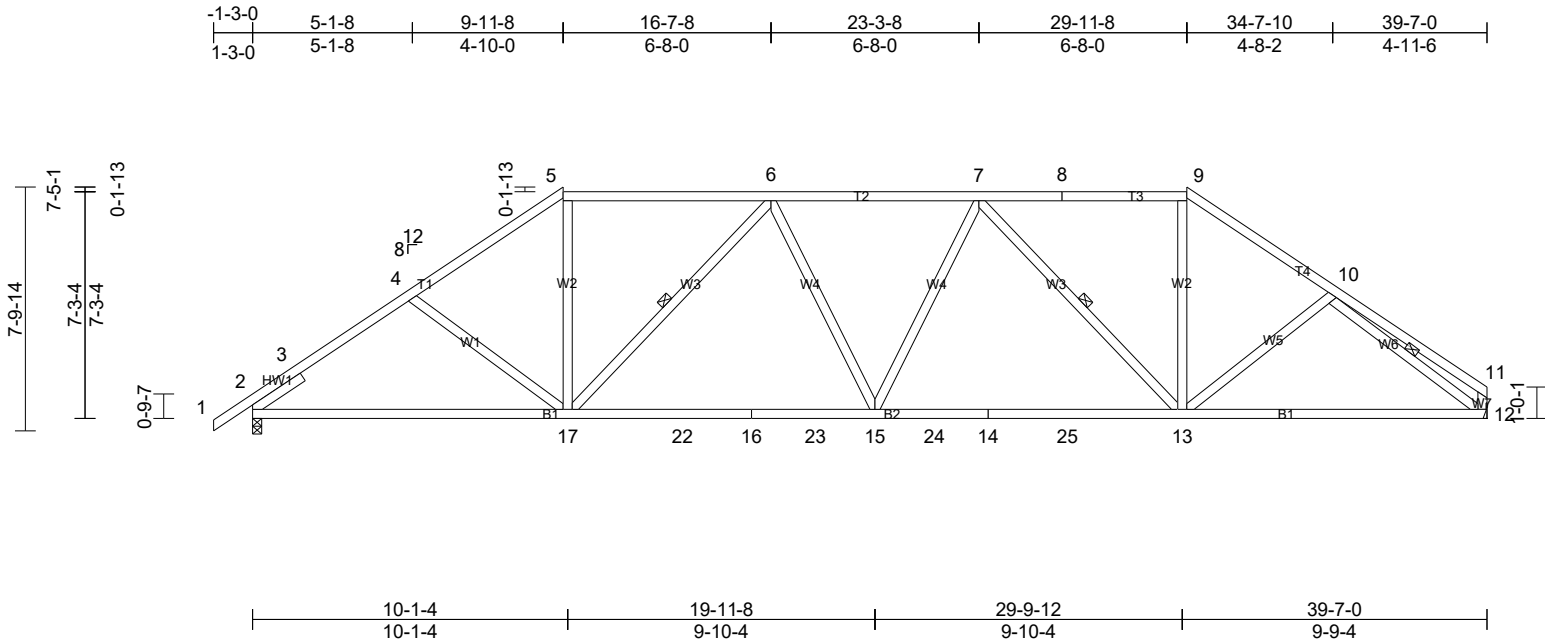
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 2 and 132 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A3 | Hip | 1 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham
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| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | -0.30 | 15-17 | >999 | 240 | M18AHS 186/179 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.93 | Vert(CT) | -0.54 | 15-17 | >875 | 180 | MT20 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.37 | Horz(CT) | 0.11 | 12 | n/a | n/a | MT18HS 244/190 |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 226 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.1

WEBS 2x4 SP No.2

SLIDER Left 2x4 SP No.2 -- 1-11-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-1-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-1 max.): 5-9.

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

WEBS 1 Row at midpt 6-17, 7-13, 10-12

REACTIONS (lb/size) 2=1654/0-3-8, (min. 0-1-15), 12=1576/ Mechanical

Max Horiz 2=193 (LC 9)

Max Uplift 2=-121 (LC 10), 12=-89 (LC 11)

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

TOP CHORD 2-3=-890/0, 3-4=-2256/462, 4-5=-2076/446, 5-6=-1713/421, 6-7=-2274/518, 7-8=-1666/412, 8-9=-1666/413, 9-10=-2047/444, 10-11=-365/91, 11-12=-298/92

BOT CHORD 2-17=-280/1793, 17-22=-307/2192, 16-22=-307/2192, 16-23=-307/2192, 15-23=-307/2192, 15-24=-295/2180, 14-24=-295/2180, 14-25=-295/2180, 13-25=-295/2180, 12-13=-268/1666

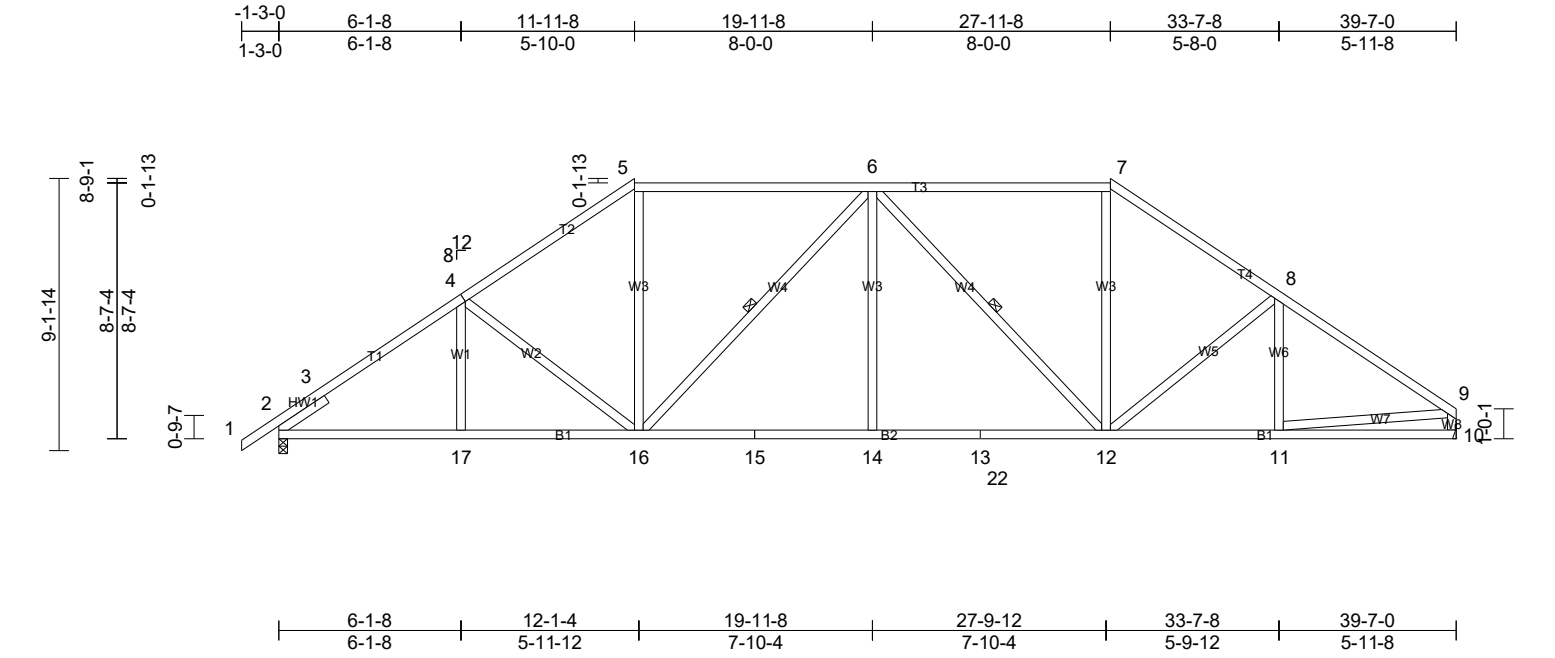
WEBS 5-17=-92/800, 6-17=-784/245, 7-15=0/261, 7-13=-827/246, 9-13=-101/803, 10-12=-1857/367

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 2 and 89 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A4 | Hip | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.95 | Vert(LL) | -0.16 | 12-14 | >999 | 240 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.91 | Vert(CT) | -0.33 | 12-14 | >999 | 180 | M18AHS 186/179 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.40 | Horz(CT) | 0.09 | 10 | n/a | n/a | MT18HS 244/190 |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 242 lb FT = 20% |

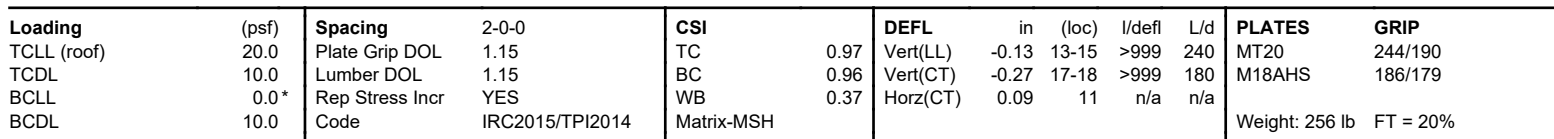
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|--|---|
| LUMBER | |
| TOP CHORD | 2x4 SP No.2 *Except* 1-4:2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 *Except* 15-13:2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.2 -- 1-11-0 |
| BRACING | |
| TOP CHORD | Structural wood sheathing directly applied or 2-8-14 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-7. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 6-16, 6-12 |
| REACTIONS (lb/size) 2=1654/0-3-8, (min. 0-1-15), 10=1576/ Mechanical | |
| | Max Horiz 2=226 (LC 9) |
| | Max Uplift 2=-141 (LC 10), 10=-109 (LC 11) |
| FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | |
| TOP CHORD | 2-3=-668/0, 3-4=-2258/425, 4-5=-1993/456, 5-6=-1606/432, 6-7=-1569/427, 7-8=-1956/454, 8-9=-2158/404, 9-10=-1513/300 |
| BOT CHORD | 2-17=-244/1794, 16-17=-245/1794, 15-16=-204/1961, 14-15=-204/1961, 13-14=-204/1961, 13-22=-204/1961, 12-22=-204/1961, 11-12=-232/1722 |
| WEBS | 4-16=-350/200, 5-16=-81/707, 6-16=-628/198, 6-14=0/431, 6-12=-670/196, 7-12=-85/707, 8-12=-303/188, 9-11=-189/1531 |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 2 and 109 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:11 Page: 1
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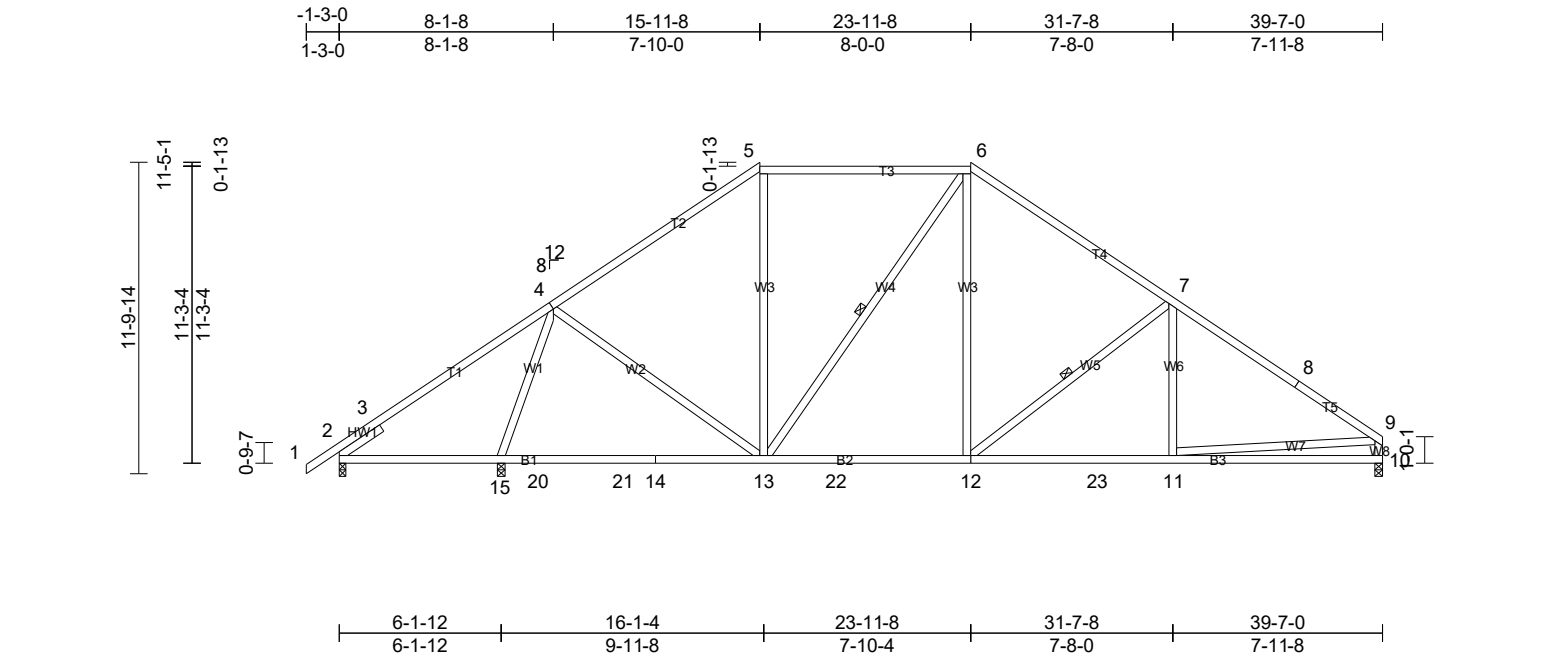
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 2 and 127 lb uplift at joint 11.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCE and Truss Plate Institute.



| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A6 | Hip | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | 0.06 | 15-18 | >999 | 240 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.37 | 13-15 | >999 | 180 | M18AHS 186/179 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.86 | Horz(CT) | 0.05 | 10 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 242 lb FT = 20% |

| | | |
|--|--|--|
| LUMBER | | |
| TOP CHORD | 2x4 SP No.2 *Except* 5-6:2x4 SP No.1 | |
| BOT CHORD | 2x4 SP No.2 | |
| WEBS | 2x4 SP No.2 | |
| SLIDER | Left 2x4 SP No.2 -- 1-11-0 | |
| BRACING | | |
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-1 max.): 5-6. | |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-15. | |
| WEBS | 1 Row at midpt 6-13, 7-12 | |
| REACTIONS (lb/size) | | |
| | 2=469/0-3-0, (min. 0-1-8), 10=1360/0-3-8, (min. 0-1-10), 15=1401/0-3-8, (min. 0-1-12) | |
| | Max Horiz 2=292 (LC 9) | |
| | Max Uplift 2=-244 (LC 10), 10=-156 (LC 11) | |
| | Max Grav 2=503 (LC 21), 10=1360 (LC 1), 15=1506 (LC 2) | |
| FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | | |
| TOP CHORD | 2-3=-259/457, 3-4=-377/321, 4-5=-1252/413, 5-6=-938/410, 6-7=-1412/428, 7-8=-1733/381, 8-9=-1849/350, 9-10=-1286/290 | |
| BOT CHORD | 2-15=-338/440, 15-20=-314/729, 20-21=-314/729, 14-21=-314/729, 13-14=-314/729, 13-22=-22/1070, 12-22=-22/1070, 12-23=-186/1442, 11-23=-186/1442, 10-11=-97/291 | |
| WEBS | 4-15=-1277/152, 4-13=-85/590, 5-13=-43/281, 6-13=-369/123, 6-12=-70/638, 7-12=-592/251, 9-11=-108/1182 | |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 244 lb uplift at joint 2 and 156 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

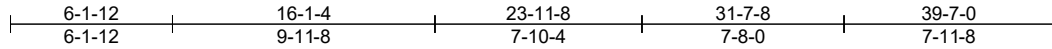
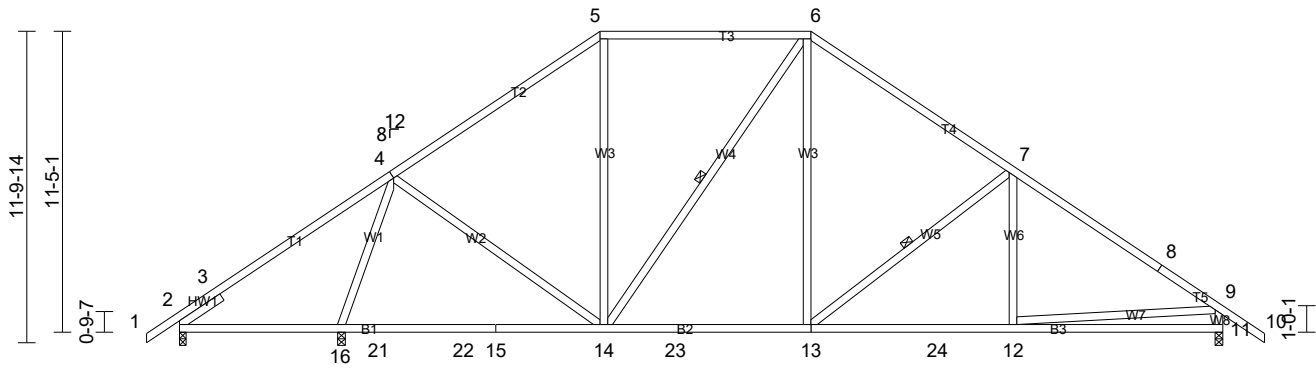
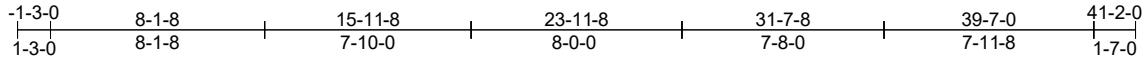
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|----------|-------|----------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A7 | Piggyback Base | 3 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.88 | Vert(LL) | 0.06 | 16-19 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.37 | 14-16 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.86 | Horz(CT) | 0.05 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 245 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 1-11-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-0 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-16.

WEBS 1 Row at midpt 6-14, 7-13

REACTIONS (lb/size) 2=471/0-3-0, (min. 0-1-8),
11=1467/0-3-8, (min. 0-1-12),
16=1396/0-3-8, (min. 0-1-12)
Max Horiz 2=304 (LC 9)
Max Uplift 2=-246 (LC 10), 11=-194 (LC 11)
Max Grav 2=504 (LC 21), 11=1467 (LC 1),
16=1503 (LC 2)

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

TOP CHORD 2-3=-255/457, 3-4=-369/333, 4-5=-1247/417,
5-6=-931/413, 6-7=-1403/428,
7-8=-1704/380, 8-9=-1840/334,
9-11=-1392/369

BOT CHORD 2-16=-323/452, 16-21=-299/742,
21-22=-299/742, 15-22=-299/742,
14-15=-299/742, 14-23=-2/1058,
13-23=-2/1058, 13-24=-115/1425,
12-24=-115/1425, 11-12=-127/442

WEBS 4-16=-1274/137, 4-14=-82/583,
5-14=-47/288, 6-14=-366/123, 6-13=-68/635,
7-13=-588/248, 9-12=-60/1126

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

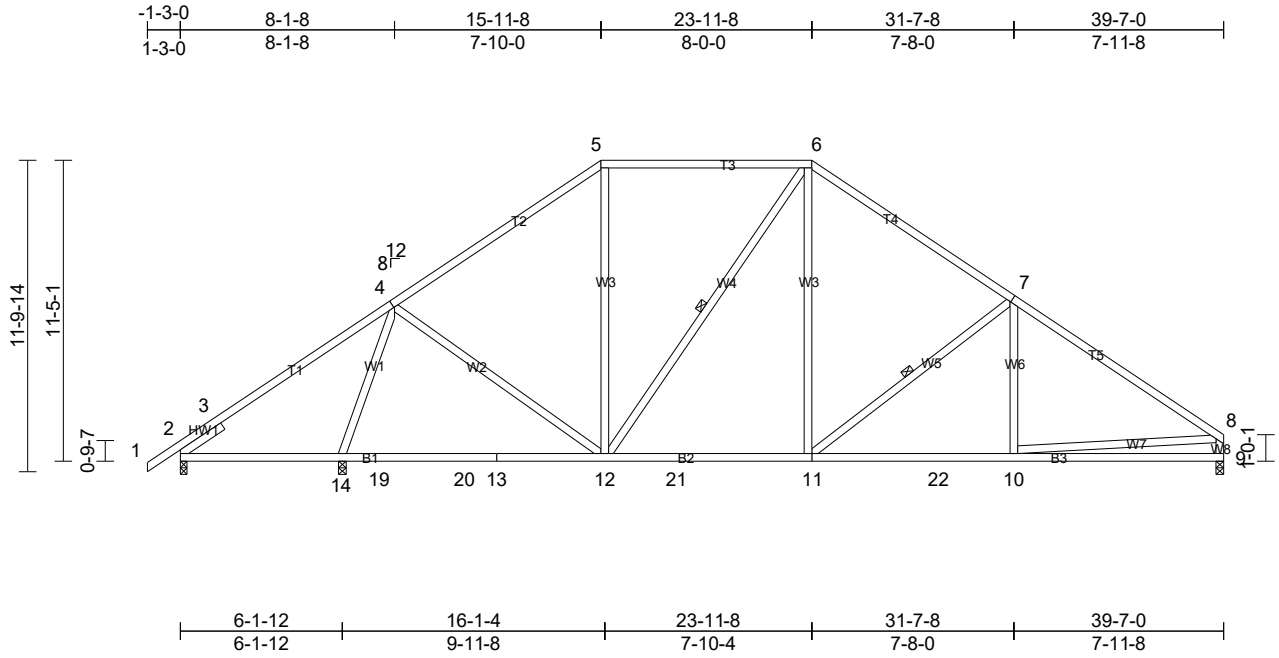
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 246 lb uplift at joint 2 and 194 lb uplift at joint 11.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



| | | | | | |
|----------|-------|----------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A8 | Piggyback Base | 6 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.95 | Vert(LL) | 0.06 | 14-17 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.37 | 12-14 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.86 | Horz(CT) | 0.05 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 242 lb | FT = 20% |

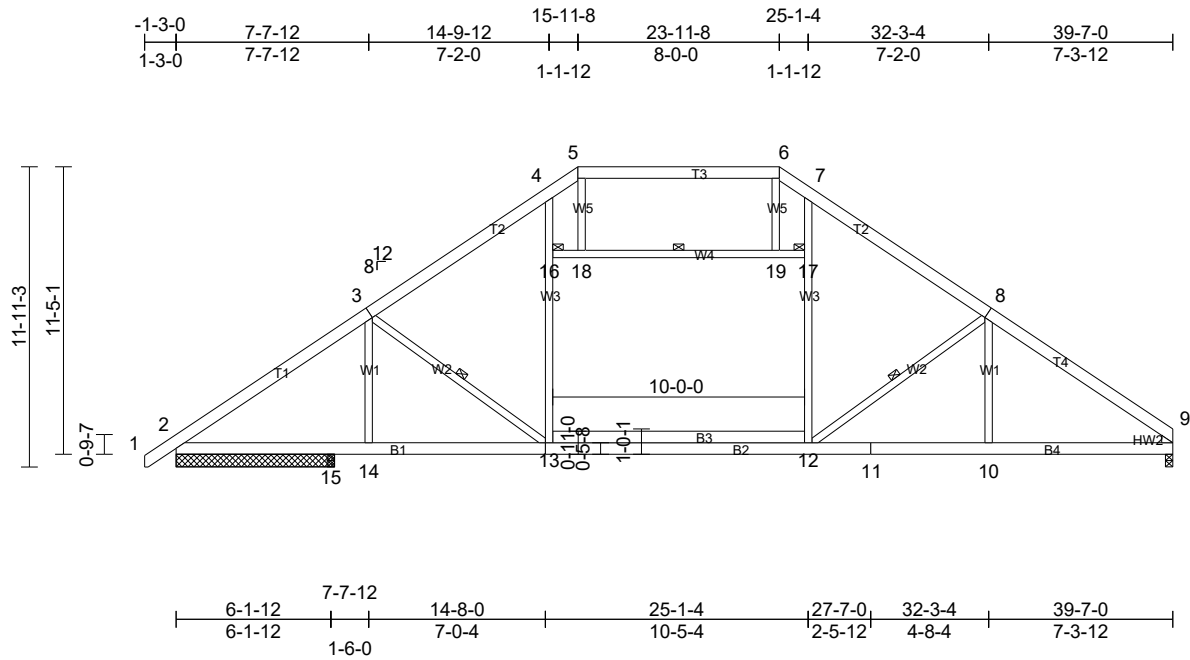
| | | |
|--|---|--|
| LUMBER | | |
| TOP CHORD | 2x4 SP No.2 *Except* 5-6:2x4 SP No.1 | |
| BOT CHORD | 2x4 SP No.2 | |
| WEBS | 2x4 SP No.2 | |
| SLIDER | Left 2x4 SP No.2 -- 1-11-0 | |
| BRACING | | |
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-4-4 max.): 5-6. | |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-14. | |
| WEBS | 1 Row at midpt 7-11, 6-12 | |
| REACTIONS (lb/size) | | |
| | 2=465/0-3-0, (min. 0-1-8), 9=1359/0-3-8, (min. 0-1-10), 14=1405/0-3-8, (min. 0-1-13) | |
| | Max Horiz 2=294 (LC 9) | |
| | Max Uplift 2=-239 (LC 10), 9=-155 (LC 11) | |
| | Max Grav 2=499 (LC 21), 9=1359 (LC 1), 14=1511 (LC 2) | |
| FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | | |
| TOP CHORD | 2-3=-254/451, 3-4=-368/313, 4-5=-1248/411, 5-6=-931/409, 6-7=-1408/428, 7-8=-1846/380, 8-9=-1285/289 | |
| BOT CHORD | 2-14=-335/437, 14-19=-312/723, 19-20=-312/723, 13-20=-312/723, 12-13=-312/723, 12-21=-17/1060, 11-21=-17/1060, 11-22=-185/1439, 10-22=-185/1439, 9-10=-99/294 | |
| WEBS | 4-14=-1281/158, 4-12=-84/587, 7-11=-603/255, 8-10=-105/1177, 5-12=-44/286, 6-11=-73/647, 6-12=-369/123 | |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-06-00 tall by 2-00-00 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 155 lb uplift at joint 9 and 239 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A9 | Attic | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.26 | 10-12 | >999 | 240 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.98 | Vert(CT) | -0.43 | 10-12 | >938 | 180 | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.41 | Horz(CT) | 0.05 | 9 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | Attic | -0.17 | 12-13 | >745 | 360 | Weight: 321 lb FT = 20% |

| | | | | | |
|--|---|--|--|--|--|
| LUMBER | | | 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) | | |
| TOP CHORD | 2x6 SP No.2 | | Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. | | |
| BOT CHORD | 2x6 SP No.2 | | II; Exp B; Enclosed; MWFRS (envelope) exterior zone | | |
| WEBS | 2x4 SP No.2 | | and C-C Exterior (2) zone; cantilever left and right | | |
| WEDGE | Right: 2x4 SP No.2 | | exposed ; end vertical left and right exposed;C-C for | | |
| BRACING | | | members and forces & MWFRS for reactions shown; | | |
| TOP CHORD | Structural wood sheathing directly applied or | | Lumber DOL=1.60 plate grip DOL=1.60 | | |
| | 3-7-9 oc purlins, except | | 3) Provide adequate drainage to prevent water ponding. | | |
| | 2-0-0 oc purlins (5-7-8 max.): 5-6. | | 4) This truss has been designed for a 10.0 psf bottom | | |
| BOT CHORD | Rigid ceiling directly applied or 2-2-0 oc | | chord live load nonconcurrent with any other live loads. | | |
| | bracing. | | 5) * This truss has been designed for a live load of 20.0psf | | |
| WEBS | 1 Row at midpt 3-13, 8-12, 16-17 | | on the bottom chord in all areas where a rectangle | | |
| JOINTS | 1 Brace at Jt(s): 16, | | 3-06-00 tall by 2-00-00 wide will fit between the bottom | | |
| | 17 | | chord and any other members. | | |
| REACTIONS (lb/size) | | | 6) Ceiling dead load (5.0 psf) on member(s). 16-18, 18-19, | | |
| | 2=1131/6-3-8, (min. 0-1-8), | | 17-19 | | |
| | 9=1529/0-3-8, (min. 0-1-14), | | 7) Bottom chord live load (30.0 psf) and additional bottom | | |
| | 15=681/0-3-8, (min. 0-1-8) | | chord dead load (0.0 psf) applied only to room. 12-13 | | |
| | Max Horiz 2=277 (LC 7) | | 8) Provide mechanical connection (by others) of truss to | | |
| | Max Uplift 2=-195 (LC 11), 9=-146 (LC 11), | | bearing plate capable of withstanding 195 lb uplift at joint | | |
| | 15=-297 (LC 10) | | 2, 146 lb uplift at joint 9 and 297 lb uplift at joint 15. | | |
| | Max Grav 2=1194 (LC 19), 9=1591 (LC 19), | | 9) This truss is designed in accordance with the 2015 | | |
| | 15=1036 (LC 18) | | International Residential Code sections R502.11.1 and | | |
| FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 | | | R802.10.2 and referenced standard ANSI/TPI 1. | | |
| | (lb) or less except when shown. | | 10) Graphical purlin representation does not depict the size | | |
| TOP CHORD | 2-3=-1784/317, 3-4=-1881/342, | | or the orientation of the purlin along the top and/or | | |
| | 4-5=-1425/350, 5-6=-1438/364, | | bottom chord. | | |
| | 6-7=-1372/339, 7-8=-1898/346, | | 11) Attic room checked for L/360 deflection. | | |
| | 8-9=-2310/345 | | LOAD CASE(S) Standard | | |
| BOT CHORD | 2-15=-184/1253, 14-15=-101/1253, | | | | |
| | 13-14=-103/1263, 12-13=0/1463, | | | | |
| | 11-12=-182/1817, 10-11=-182/1817, | | | | |
| | 9-10=-181/1817 | | | | |
| WEBS | 3-14=-899/307, 3-13=-96/348, | | | | |
| | 13-16=-61/636, 4-16=-38/487, | | | | |
| | 12-17=-18/650, 7-17=-38/599, | | | | |
| | 8-12=-626/315, 8-10=0/268 | | | | |

NOTES

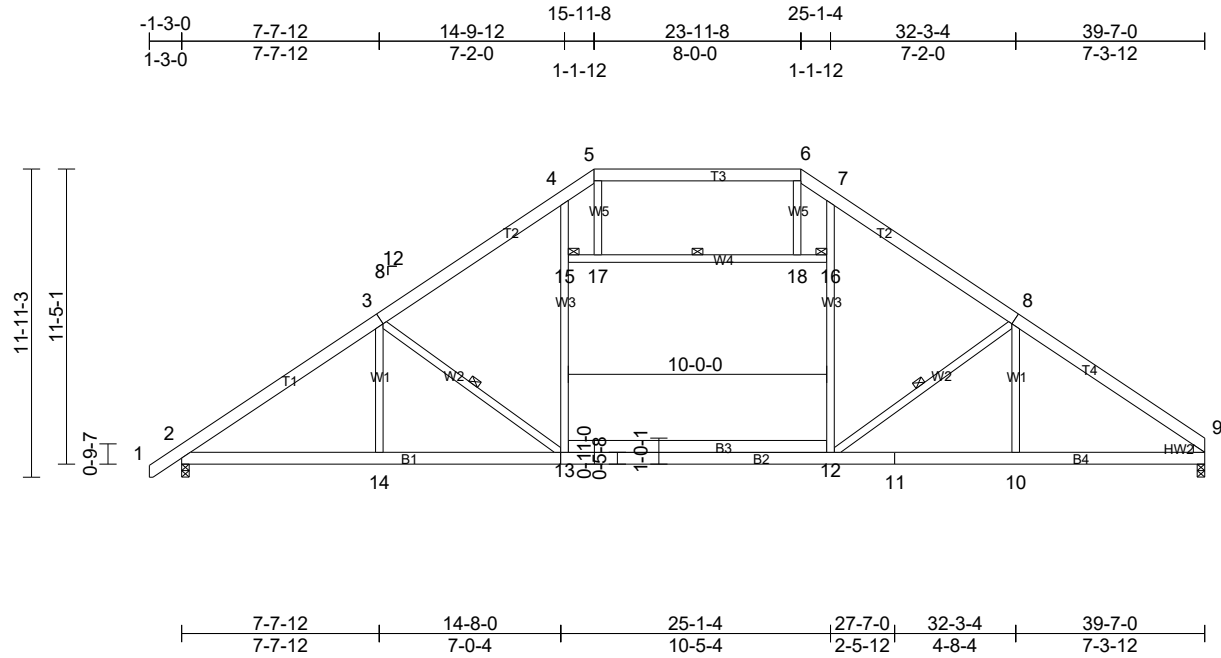
1) Unbalanced roof live loads have been considered for this design.

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A10 | Attic | 5 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Page: 1



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.38 | 13-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.94 | Vert(CT) | -0.56 | 13-14 | >848 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.33 | Horz(CT) | 0.09 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | Attic | -0.28 | 12-13 | >448 | 360 | Weight: 321 lb | FT = 20% |

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-5-6 oc purlins, except 2-0-0 oc purlins (5-1-1 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 10-12.
WEBS 1 Row at midpt 3-13, 8-12, 15-16
JOINTS 1 Brace at Jt(s): 15, 16

REACTIONS (lb/size) 2=1706/0-3-8, (min. 0-2-1), 9=1634/0-3-8, (min. 0-2-0)
Max Horiz 2=277 (LC 7)
Max Uplift 2=-141 (LC 10), 9=-112 (LC 11)
Max Grav 2=1731 (LC 18), 9=1670 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2556/373, 3-4=-2166/380, 4-5=-1554/368, 5-6=-1648/392, 6-7=-1599/369, 7-8=-2145/379, 8-9=-2440/367
BOT CHORD 2-14=-250/2199, 13-14=-231/2200, 12-13=-20/1673, 11-12=-200/1943, 10-11=-200/1943, 9-10=-199/1943
WEBS 3-14=-23/250, 3-13=-683/338, 13-15=-33/778, 4-15=-32/731, 12-16=-29/712, 7-16=-31/615, 8-12=-568/342

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 15-17, 17-18, 16-18
- Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-13
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 2 and 112 lb uplift at joint 9.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

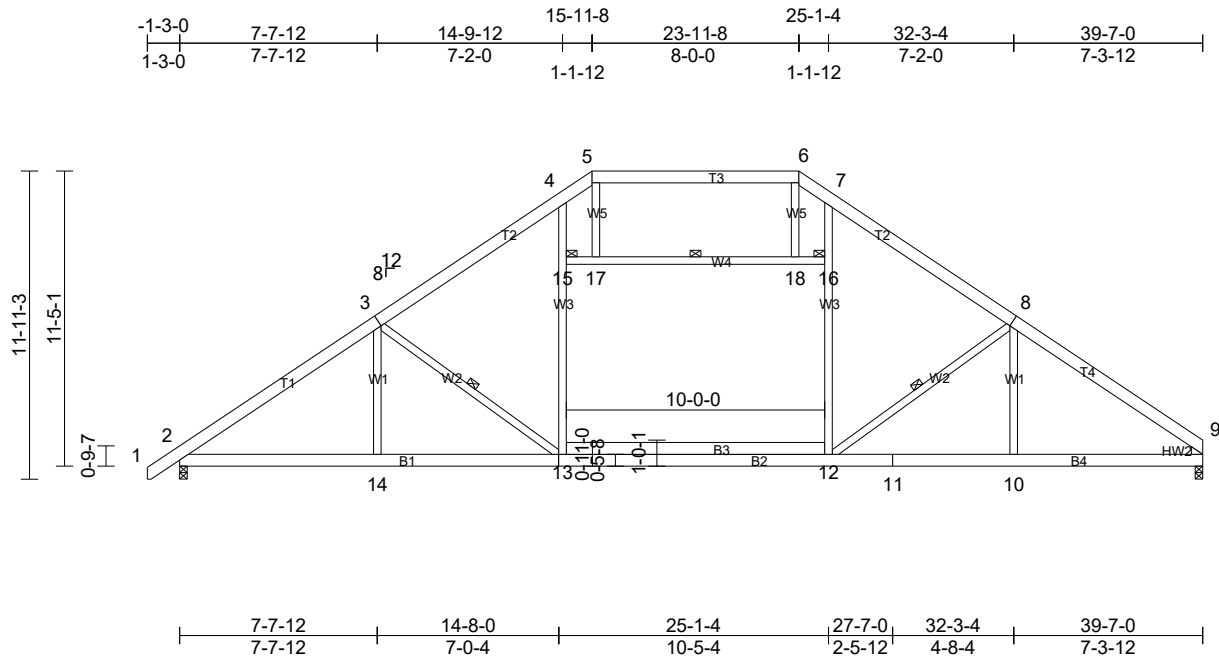


| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A11 | Attic | 4 | 1 | |

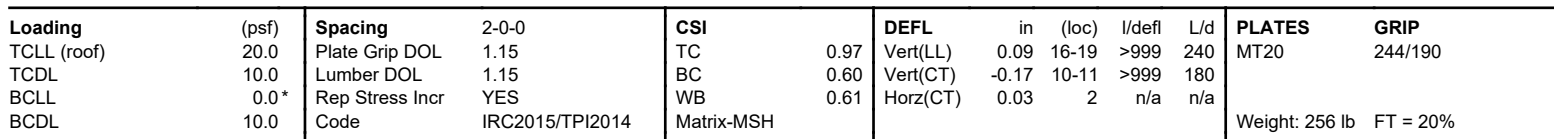
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Page: 1



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:17 Page: 1
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- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 2, 20 lb uplift at joint 13 and 131 lb uplift at joint 10.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

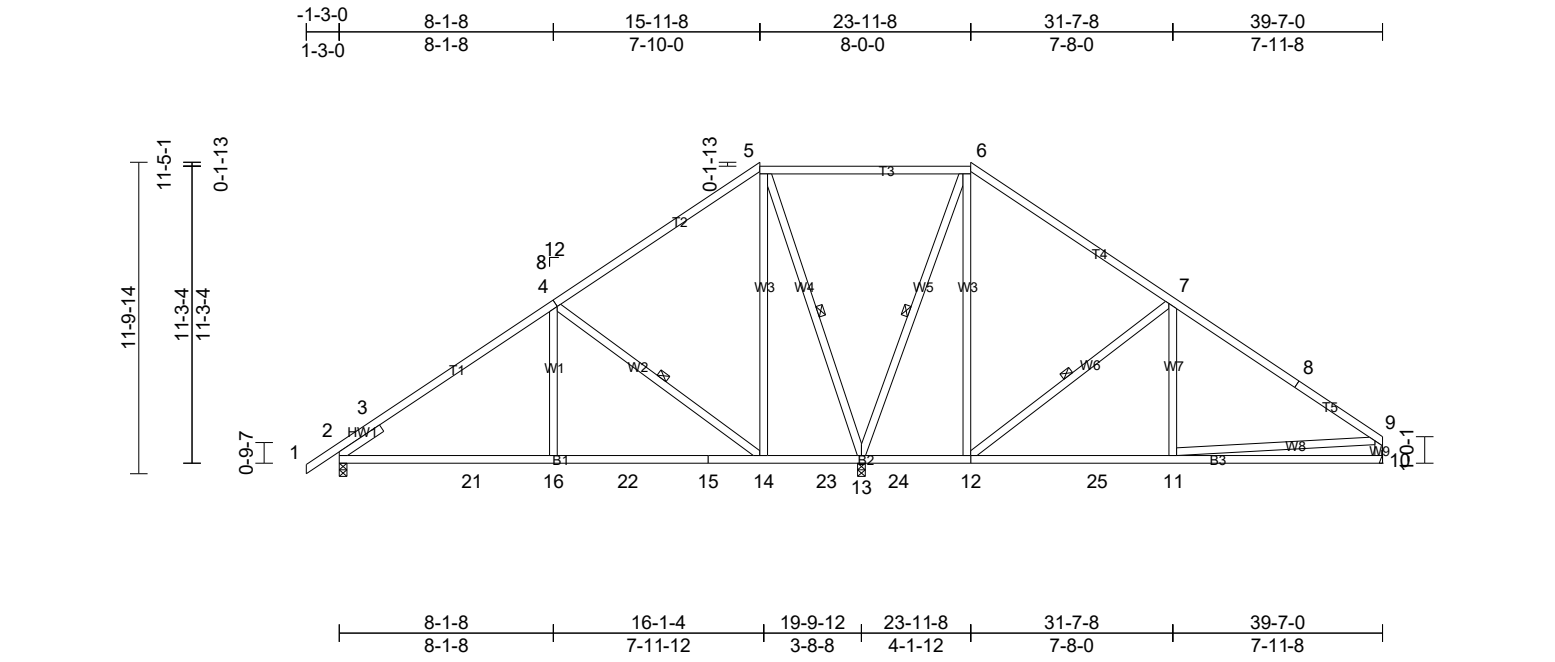
| | |
|------------------|---|
| FORCES | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 2-3=-379/34, 3-4=-702/237, 4-5=-335/258, 5-6=-88/308, 6-7=-354/264, 7-8=-711/227, 8-9=-826/196, 9-10=-635/191 |
| BOT CHORD | 2-21=-339/837, 16-21=-230/837, 16-22=-230/833, 15-22=-230/833, 14-15=-230/833, 12-25=-58/592, 11-25=-58/592, 10-11=-96/258 |
| WEBS | 4-16=0/384, 4-14=-803/271, 5-14=-74/649, 5-13=-978/123, 6-13=-941/124, 6-12=-81/619, 7-12=-691/257, 7-11=0/318, 9-11=0/335 |

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A13 | Hip | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.97 | Vert(LL) | 0.09 | 16-19 | >999 | 240 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.60 | Vert(CT) | -0.17 | 10-11 | >999 | 180 | M18AHS 186/179 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.59 | Horz(CT) | 0.03 | 2 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 256 lb FT = 20% |

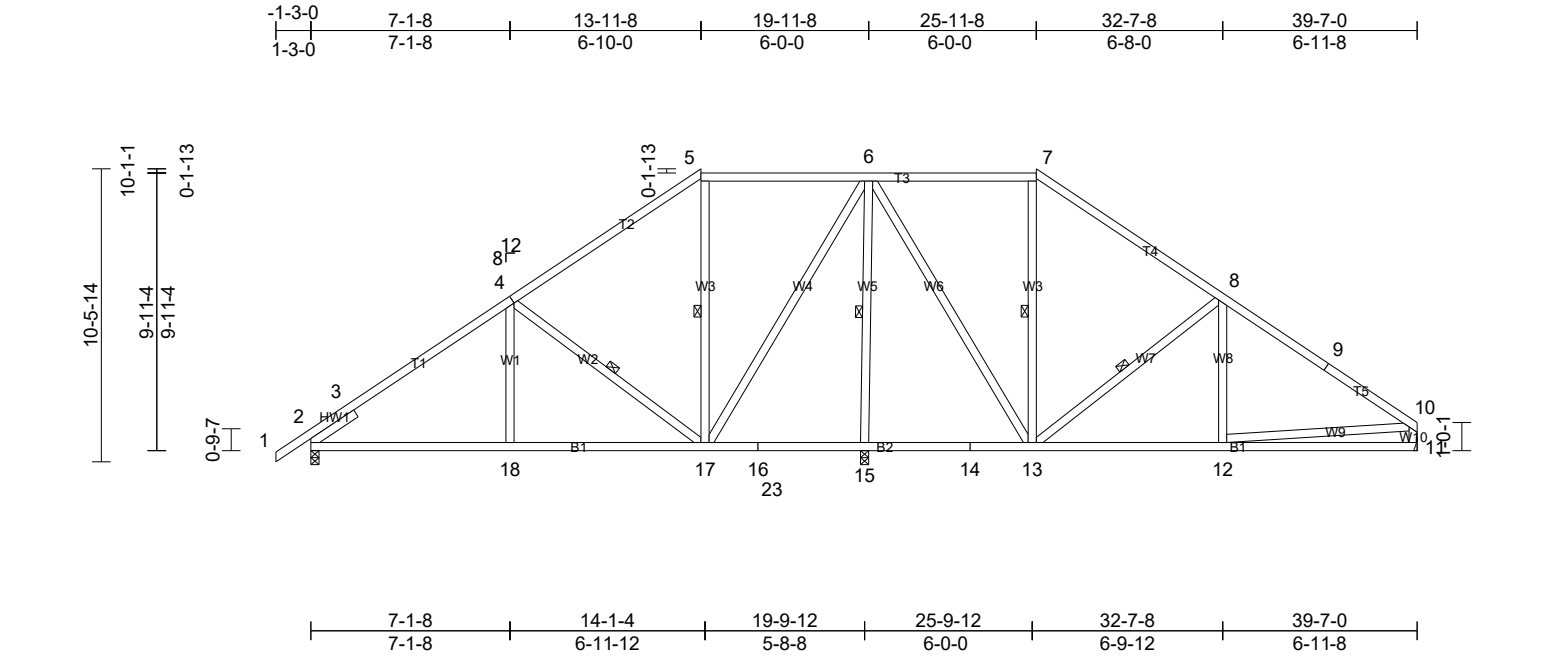
| | | |
|------------------|--|--|
| LUMBER | | |
| TOP CHORD | 2x4 SP No.2 | |
| BOT CHORD | 2x4 SP No.2 | |
| WEBS | 2x4 SP No.2 | |
| SLIDER | Left 2x4 SP No.2 -- 1-11-0 | |
| BRACING | | |
| TOP CHORD | Structural wood sheathing directly applied or 4-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-6. | |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. | |
| WEBS | 1 Row at midpt | 4-14, 5-13, 6-13, 7-12 |
| REACTIONS | (lb/size) | 2=779/0-3-8, (min. 0-1-8), 10=693/ Mechanical, 13=1758/0-3-8, (min. 0-2-3) |
| | Max Horiz | 2=292 (LC 9) |
| | Max Uplift | 2=-174 (LC 10), 10=-132 (LC 11), 13=-19 (LC 11) |
| | Max Grav | 2=826 (LC 17), 10=706 (LC 22), 13=1861 (LC 2) |
| FORCES | | |
| | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | |
| TOP CHORD | 2-3=-379/34, 3-4=-704/238, 4-5=-337/258, 5-6=-88/309, 6-7=-355/265, 7-8=-712/229, 8-9=-827/197, 9-10=-636/192 | |
| BOT CHORD | 2-21=-339/837, 16-21=-229/837, 16-22=-230/833, 15-22=-230/833, 14-15=-230/833, 12-25=-59/592, 11-25=-59/592, 10-11=-97/258 | |
| WEBS | 4-16=0/384, 4-14=-802/268, 5-14=-72/648, 5-13=-977/122, 6-13=-941/123, 6-12=-79/618, 7-12=-690/254, 7-11=0/318, 9-11=0/336 | |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.

- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 2, 19 lb uplift at joint 13 and 132 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A14 | Hip | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.60 | Vert(LL) | -0.05 | 11-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.45 | Vert(CT) | -0.11 | 11-12 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.67 | Horz(CT) | 0.02 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 256 lb | FT = 20% |

LUMBER

| | |
|-----------|----------------------------|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.2 -- 1-11-0 |

BRACING

| | |
|-----------|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | 1 Row at midpt 4-17, 5-17, 6-15, 7-13, 8-13 |

| | | |
|-----------|------------|---|
| REACTIONS | (lb/size) | 2=827/0-3-8, (min. 0-1-8), 11=741/ Mechanical, 15=1662/0-3-8, (min. 0-1-15) |
| | Max Horiz | 2=259 (LC 9) |
| | Max Uplift | 2=-157 (LC 10), 11=-130 (LC 11), 15=-2 (LC 10) |
| | Max Grav | 2=843 (LC 21), 11=751 (LC 22), 15=1662 (LC 1) |

FORCES

| | |
|-----------|---|
| | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 2-3=-367/0, 3-4=-766/236, 4-5=-492/255, 5-6=-404/267, 6-7=-408/268, 7-8=-490/259, 8-9=-814/226, 9-10=-917/201, 10-11=-688/186 |
| BOT CHORD | 2-18=-278/788, 17-18=-201/786, 12-13=-71/681 |
| WEBS | 4-18=0/290, 4-17=-562/233, 6-17=-79/679, 6-15=-1540/291, 6-13=-70/649, 8-13=-520/219, 8-12=0/256, 10-12=-18/484 |

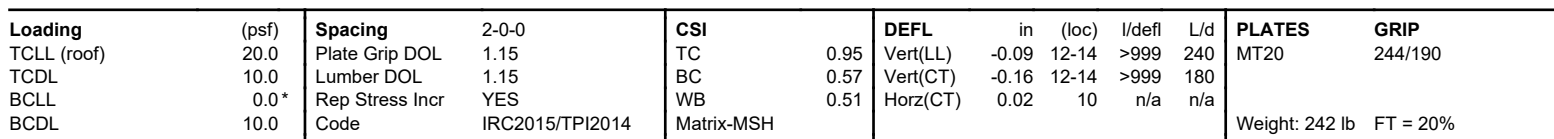
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 2, 2 lb uplift at joint 15 and 130 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:19 Page: 1
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- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 2, 68 lb uplift at joint 14 and 121 lb uplift at joint 10.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- ### NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBGA and Truss Plate Institute.



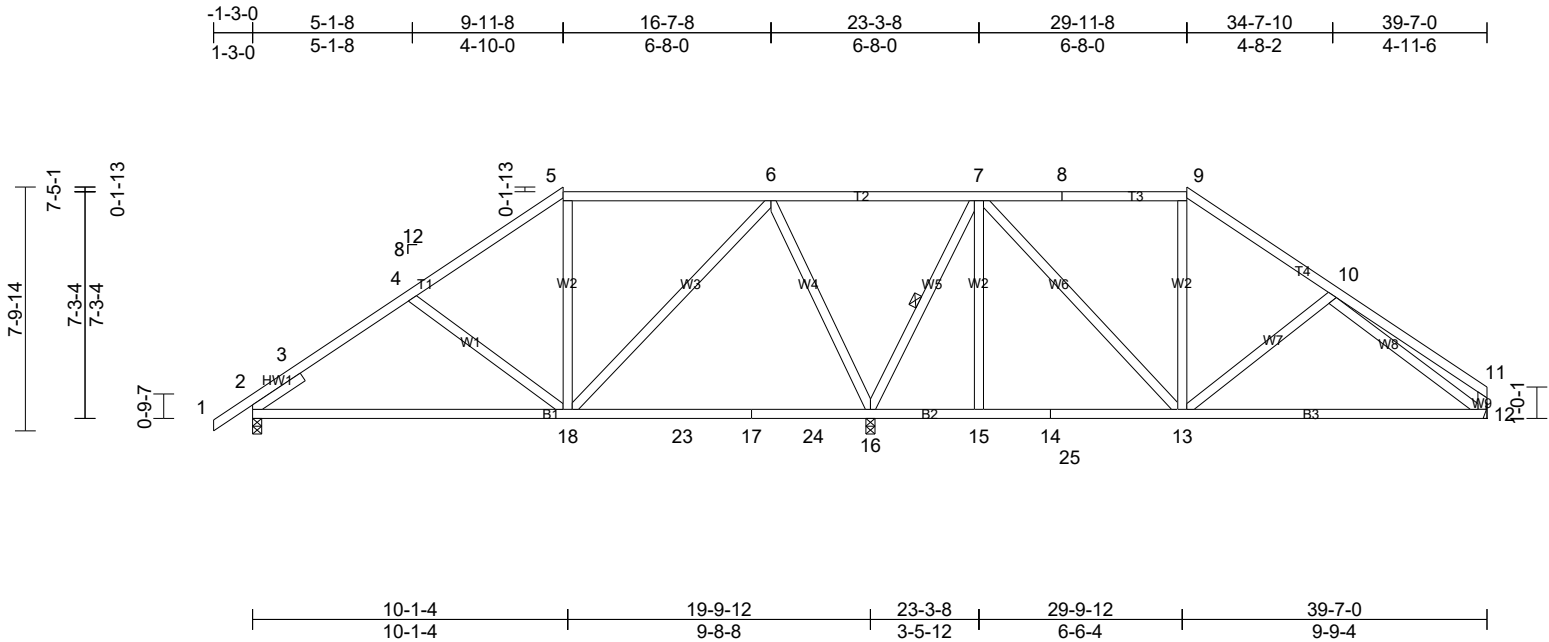
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|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A16 | Hip | 1 | 1 | |

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| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.63 | Vert(LL) | -0.28 | 16-18 | >847 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.42 | 16-18 | >567 | 180 | MT18HS | 244/190 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.02 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 236 lb | FT = 20% |

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 16-18.
WEBS 1 Row at midpt 7-16

REACTIONS (lb/size) 2=730/0-3-8, (min. 0-1-8), 12=644/
Mechanical, 16=1856/0-3-8, (min. 0-2-3)
Max Horiz 2=193 (LC 9)
Max Uplift 2=-102 (LC 10), 12=-84 (LC 11), 16=-205 (LC 7)
Max Grav 2=747 (LC 21), 12=670 (LC 22), 16=1856 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-784/0, 3-4=-680/172, 4-5=-578/147, 5-6=-440/165, 6-7=-58/391, 7-8=-429/168, 8-9=-430/169, 9-10=-586/157, 10-11=-308/68, 11-12=-257/78
BOT CHORD 2-18=-225/648, 12-13=-64/582
WEBS 4-18=-305/194, 6-18=-58/593, 6-16=-930/260, 7-16=-948/240, 7-13=-66/518, 10-13=-253/195, 10-12=-514/112

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.

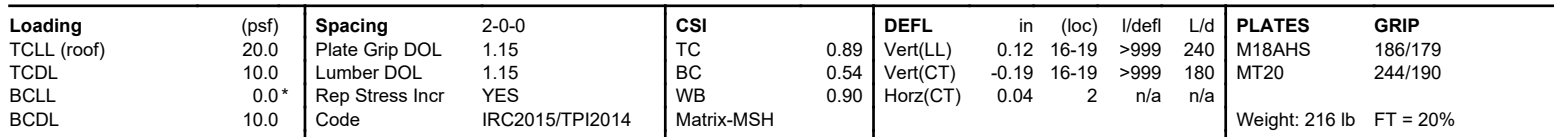
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2, 205 lb uplift at joint 16 and 84 lb uplift at joint 12.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:21 Page: 1
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- 4) All plates are MT20 plates unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 2, 293 lb uplift at joint 13 and 101 lb uplift at joint 9.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



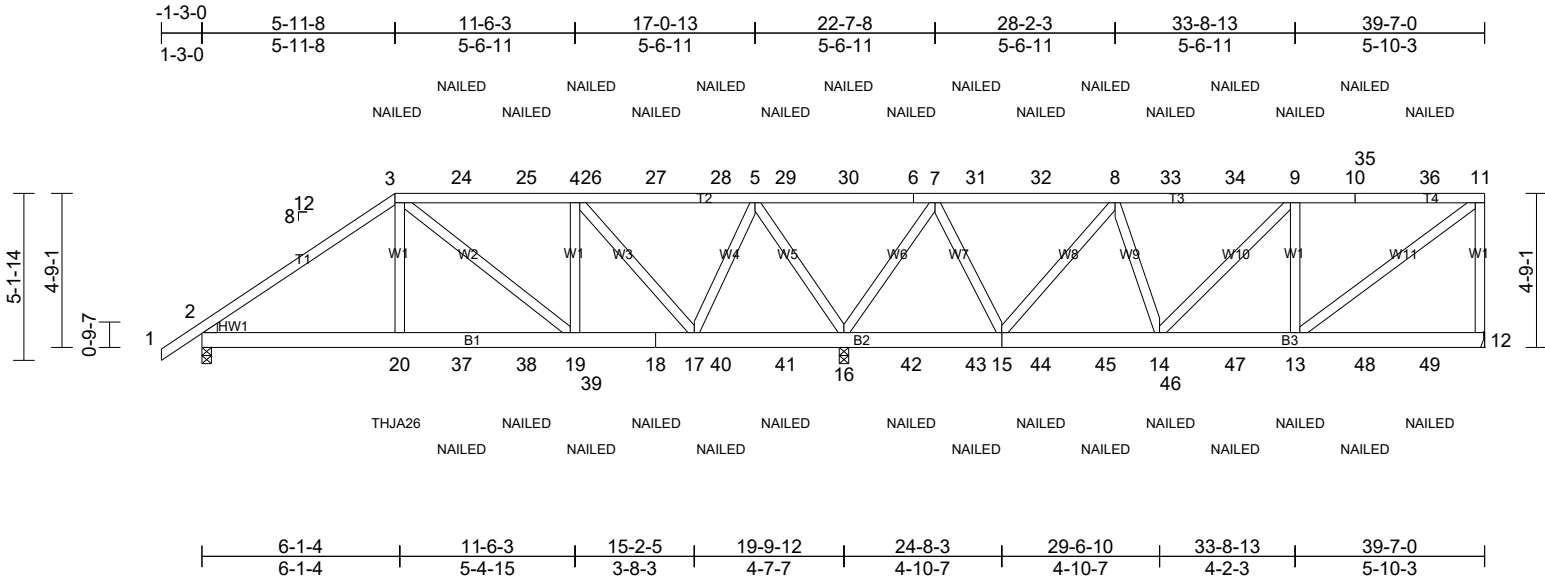
| | | | | | |
|----------|-------|-----------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | A18 | Half Hip Girder | 1 | 2 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|---------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.53 | Vert(LL) | 0.02 | 19-20 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.04 | 19-20 | >999 | 180 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.22 | Horz(CT) | 0.01 | 12 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | |
| Weight: 516 lb FT = 20% | | | | | | | | | | | |

| | | | | | | | |
|----------------|--|--|--|--|--|--|--|
| LUMBER | | WEBS | | 3-20=-27/538, 3-19=-279/100, 4-19=0/492, 4-17=-1319/487, 5-17=-294/1236, 5-16=-2036/787, 7-16=-2006/768, 7-15=-263/1196, 8-15=-1145/467, 8-14=0/398, 9-13=-548/397, 11-13=-413/1274 | | 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. | |
| TOP CHORD | 2x4 SP No.2 | | | | | 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 5-11-14 from the left end to connect truss(es) to back face of bottom chord. | |
| BOT CHORD | 2x6 SP No.2 | | | | | 13) Fill all nail holes where hanger is in contact with lumber. | |
| WEBS | 2x4 SP No.2 | | | | | 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines. | |
| WEDGE | Left: 2x4 SP No.2 | | | | | LOAD CASE(S) Standard | |
| BRACING | | NOTES | | 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc. | | 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-60, 3-11=-60, 12-21=-20 Concentrated Loads (lb) Vert: 3=-95 (B), 6=-95 (B), 18=-45 (B), 20=-343 (B), 8=-95 (B), 9=-95 (B), 13=-45 (B), 24=-95 (B), 25=-95 (B), 26=-95 (B), 27=-95 (B), 28=-95 (B), 29=-95 (B), 30=-95 (B), 31=-95 (B), 32=-95 (B), 33=-95 (B), 34=-95 (B), 35=-95 (B), 36=-95 (B), 37=-45 (B), 38=-45 (B), 39=-45 (B), 40=-45 (B), 41=-45 (B), 42=-45 (B), 43=-45 (B), 44=-45 (B), 45=-45 (B), 46=-45 (B), 47=-45 (B), 48=-45 (B), 49=-45 (B) | |
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-11. | 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. | | 3) Unbalanced roof live loads have been considered for this design. | | | |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17, 15-16. | 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 | | 5) Provide adequate drainage to prevent water ponding. | | | |
| REACTIONS | (lb/size) 2=1141/0-3-8, (min. 0-1-8), 12=1110/ Mechanical, 16=3610/0-3-8, (min. 0-2-2) Max Horiz 2=175 (LC 7) Max Uplift 2=-315 (LC 8), 12=-360 (LC 5), 16=-1234 (LC 5) Max Grav 2=1143 (LC 15), 12=1111 (LC 17), 16=3647 (LC 18) | 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. | | | |
| FORCES | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | 8) Refer to girder(s) for truss to truss connections. | | 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 360 lb uplift at joint 12, 315 lb uplift at joint 2 and 1234 lb uplift at joint 16. | | | |
| TOP CHORD | 2-3=-1472/442, 3-24=-975/341, 24-25=-975/341, 4-25=-975/341, 5-29=-534/1480, 29-30=-534/1480, 6-30=-534/1480, 6-7=-534/1480, 8-33=-964/318, 33-34=-964/318, 9-34=-964/318, 9-10=-1080/380, 10-35=-1080/380, 35-36=-1080/380, 11-36=-1080/380, 11-12=-1006/401 | 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. | | | | | |
| BOT CHORD | 2-20=-431/1200, 20-37=-431/1216, 37-38=-431/1216, 19-38=-431/1216, 19-39=-381/997, 18-39=-381/997, 17-18=-381/997, 17-40=-440/189, 40-41=-440/189, 16-41=-440/189, 16-42=-437/166, 42-43=-437/166, 15-43=-437/166, 15-44=-338/846, 44-45=-338/846, 14-45=-338/846, 14-46=-379/1056, 46-47=-379/1056, 13-47=-379/1056 | | | | | | |

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



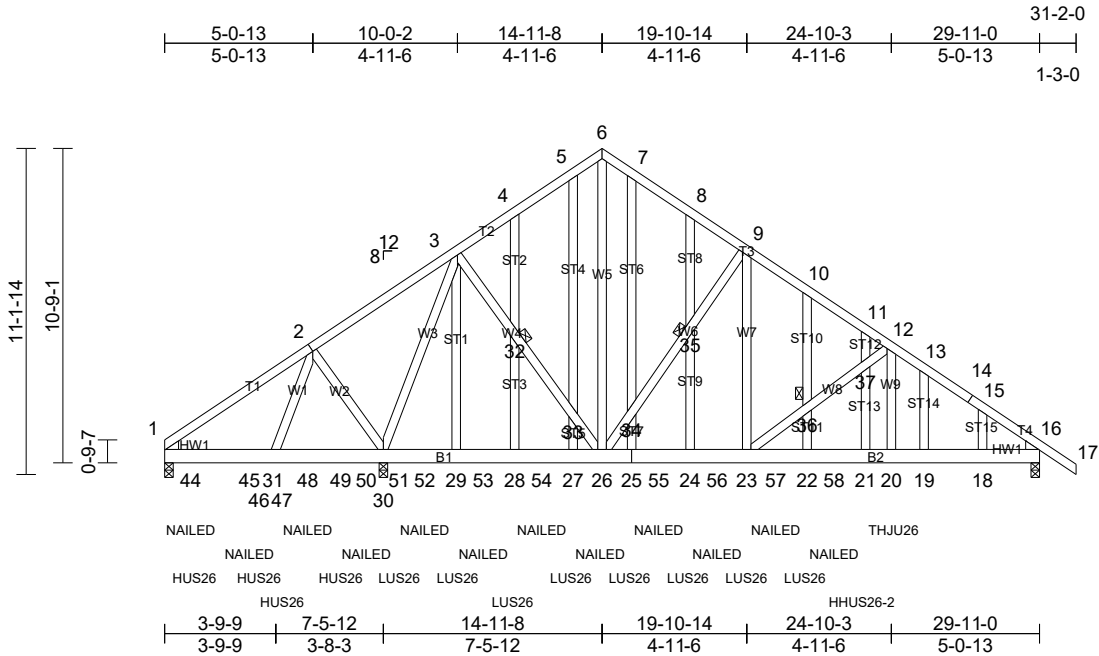
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|----------|-------|---------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | |
| 25111115 | B1L | Common Girder | 1 | 3 | Job Reference (optional) |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.39 | Vert(LL) | 0.08 | 21-22 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.14 | 21-22 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.47 | Horz(CT) | 0.03 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 879 lb | FT = 20% |

| | | | | | | | |
|----------------------------|---|---|--|---|--|---|--|
| LUMBER | | BOT CHORD | | 4-4=-227/1722, 44-45=-190/1722, 45-46=-190/1722, 31-46=-190/1722, 31-47=-283/344, 47-48=-283/344, 48-49=-283/344, 49-50=-283/344, 30-50=-283/344, 30-51=-217/461, 51-52=-217/461, 29-52=-217/461, 29-53=-235/530, 28-53=-235/530, 28-54=-235/530, 27-54=-235/530, 26-27=-235/530, 25-26=-816/3849, 25-55=-816/3849, 24-55=-816/3849, 24-56=-816/3849, 23-56=-816/3849, 23-57=-1176/4874, 22-57=-1176/4874, 22-58=-1176/4874, 21-58=-1176/4874, 20-21=-1176/4874, 19-20=-1176/4874, 18-19=-1176/4874, 16-18=-1176/4874 | | 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 | |
| TOP CHORD | 2x4 SP No.2 | | | | | 5) Truss designed for wind loads in the plane of the truss only. | |
| BOT CHORD | 2x6 SP No.2 | | | | | 6) Gable studs spaced at 2-0-0 oc. | |
| WEBS | 2x4 SP No.2 | | | | | 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. | |
| OTHERS | 2x4 SP No.2 | | | | | 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. | |
| WEDGE | Left: 2x4 SP No.2 Right: 2x4 SP No.2 | | | | | 9) WARNING: Required bearing size at joint(s) 30 greater than input bearing size. | |
| BRACING | | WEBS | | | | 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 1, 2051 lb uplift at joint 30 and 1001 lb uplift at joint 16. | |
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins. | | | | | 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. | |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 30-31. | | | | | 12) Use Simpson Strong-Tie THJU26 (SGL & SGL RC 2- PLY) or equivalent at 24-11-2 from the left end to connect truss(es) to front face of bottom chord. | |
| JOINTS | 1 Brace at Jt(s): 32, 35, 36 | | | | | | |
| REACTIONS (lb/size) | | 1=2691/0-3-8, (min. 0-1-8), 16=3929/0-3-8, (min. 0-1-9), 30=11154/0-3-8, (req. 0-4-6) | | | | | |
| | Max Horiz | 1=-260 (LC 4) | | | | | |
| | Max Uplift | 1=-146 (LC 9), 16=-1001 (LC 9), 30=-2051 (LC 8) | | | | | |
| | Max Grav | 1=2804 (LC 22), 16=3929 (LC 1), 30=11161 (LC 15) | | | | | |
| FORCES | | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | | | | | |
| TOP CHORD | 1-2=-2076/64, 2-3=-335/2013, 3-4=-2734/778, 4-5=-2619/795, 5-6=-2363/744, 6-7=-2404/747, 7-8=-2629/770, 8-9=-2743/744, 9-10=-4527/1197, 10-11=-4670/1170, 11-12=-4760/1165, 12-13=-5874/1582, 13-14=-5913/1555, 14-15=-5927/1543, 15-16=-5972/1509 | | | | | | |
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This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

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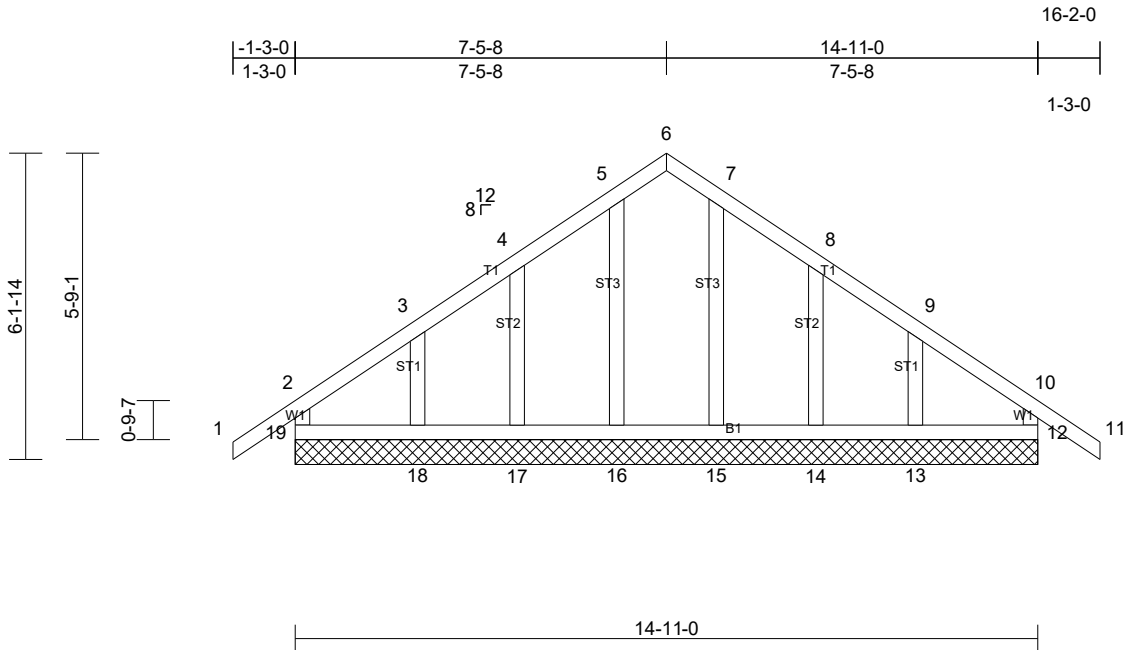
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|----------|-------|---------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | |
| 25111115 | B1L | Common Girder | 1 | 3 | Job Reference (optional) |

- 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-2-8 oc max. starting at 1-0-4 from the left end to 6-0-4 to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-4 from the left end to 21-10-12 to connect truss(es) to back face of bottom chord.
- 15) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 23-10-0 from the left end to connect truss(es) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-60, 6-17=-60, 38-41=-20
Concentrated Loads (lb)
Vert: 26=-154 (F), 23=-650 (B), 20=-370 (F), 29=-685 (B), 28=-685 (B), 27=-686 (B), 25=-731 (B), 24=-708 (B), 22=-692 (B), 21=-1090 (B), 44=-1776 (F=-162, B=-1614), 45=-163 (F), 46=-1614 (B), 47=-1614 (B), 48=-154 (F), 49=-1614 (B), 50=-154 (F), 51=-685 (B), 52=-154 (F), 53=-154 (F), 54=-154 (F), 55=-154 (F), 56=-154 (F), 57=-154 (F), 58=-154 (F)

| | | | | | |
|----------|-------|------------------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | C1G | Common Supported Gable | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 12 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 84 lb FT = 20% |

- LUMBER**
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 19, 12, 17, 18, 14, 13.
 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
- LOAD CASE(S)** Standard

- REACTIONS** All bearings 14-11-0.
 (lb) - Max Horiz 19=-164 (LC 8)
 Max Uplift All uplift 100 (lb) or less at joint(s) 12, 13, 14, 17, 18, 19
 Max Grav All reactions 250 (lb) or less at joint (s) 12, 13, 14, 15, 16, 17, 18, 19
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

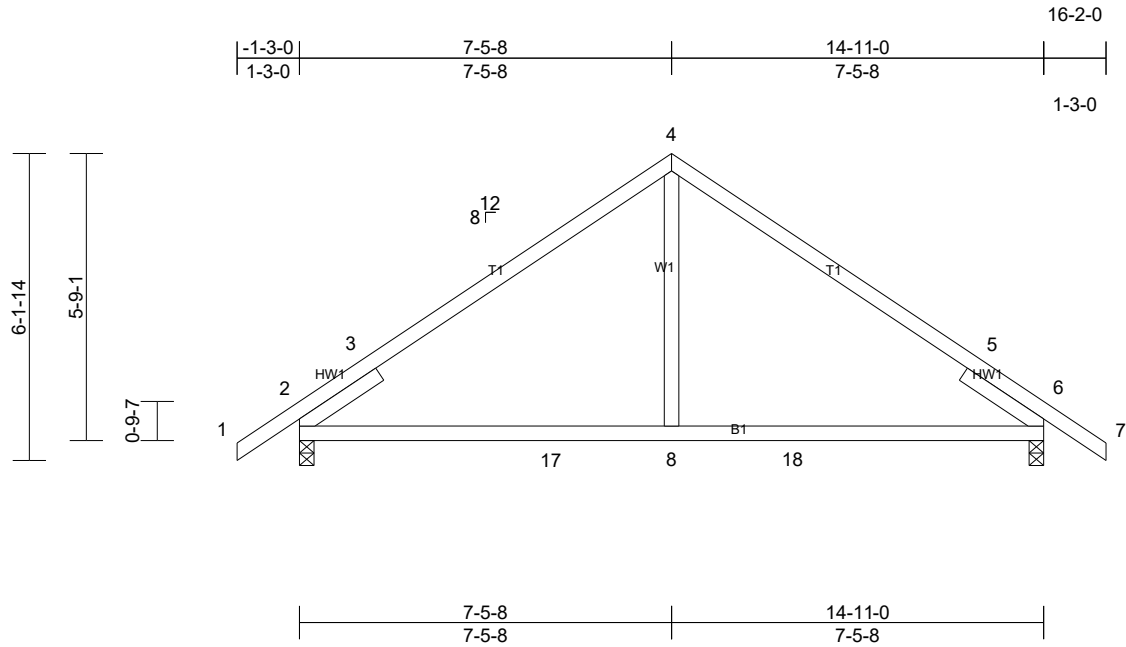
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | C2 | Common | 1 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Page: 1



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | 0.10 | 8-11 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | -0.14 | 8-11 | >999 | 180 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.04 | 2 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 67 lb FT = 20% |

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

6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=672/0-3-8, (min. 0-1-8), 6=672/0-3-8, (min. 0-1-8)
Max Horiz 2=-144 (LC 8)
Max Uplift 2=-89 (LC 10), 6=-89 (LC 11)
Max Grav 2=691 (LC 17), 6=691 (LC 18)

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

TOP CHORD 2-3=-473/240, 3-4=-631/144, 4-5=-631/144, 5-6=-339/144

BOT CHORD 2-17=-252/557, 8-17=-5/557, 8-18=-5/557, 6-18=-5/557

WEBS 4-8=0/341

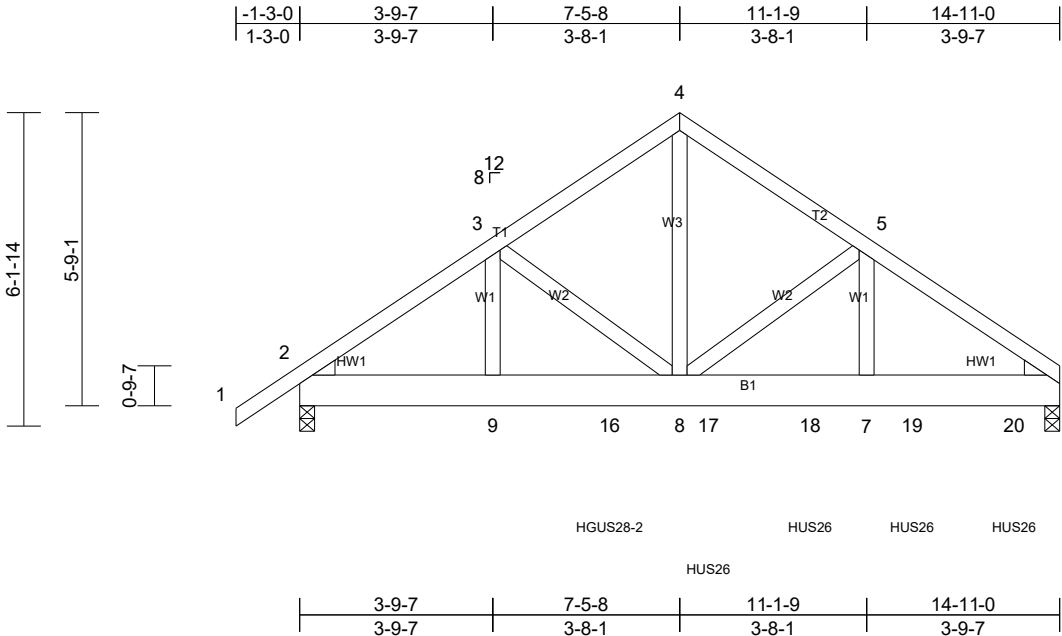
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 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 89 lb uplift at joint 2 and 89 lb uplift at joint 6.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



| | | | | | |
|----------|-------|---------------|-----|----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | C3L | Common Girder | 1 | 2 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.37 | Vert(LL) | 0.07 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.96 | Vert(CT) | -0.14 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.73 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 207 lb | FT = 20% |

- LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP No.2
 WEBS 2x4 SP No.2
 WEDGE Left: 2x4 SP No.2
 Right: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 2=4033/0-3-8, (min. 0-2-6),
 6=6387/0-3-8, (req. 0-3-12)
 Max Horiz 2=137 (LC 24)
 Max Uplift 2=-802 (LC 8), 6=-834 (LC 9)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6041/1244, 3-4=-5672/1092, 4-5=-5674/1092, 5-6=-7581/1073
 BOT CHORD 2-9=-1047/4946, 9-16=-1047/4946, 8-16=-1047/4946, 8-17=-834/6232, 17-18=-834/6232, 7-18=-834/6232, 7-19=-834/6232, 19-20=-834/6232, 6-20=-834/6232
 WEBS 3-9=-203/403, 3-8=-423/287, 4-8=-1116/5967, 5-8=-1959/116, 5-7=0/2105

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

7) WARNING: Required bearing size at joint(s) 6 greater than input bearing size.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 834 lb uplift at joint 6 and 802 lb uplift at joint 2.

9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) Use Simpson Strong-Tie HGUS28-2 (36-10d Girder, 6-10d Truss) or equivalent at 6-1-0 from the left end to connect truss(es) to back face of bottom chord.

11) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-4 from the left end to 14-0-4 to connect truss(es) to back face of bottom chord.

12) Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S) Standard

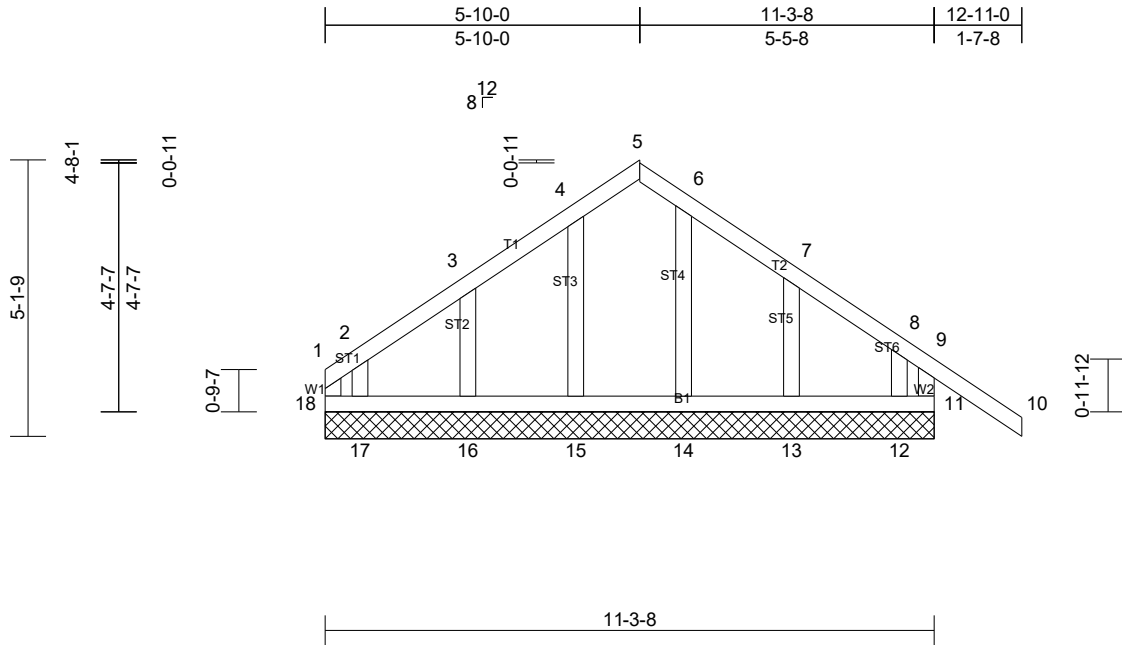
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-4=-60, 4-6=-60, 10-13=-20
 Concentrated Loads (lb)
 Vert: 16=-2926 (B), 17=-1556 (B), 18=-1556 (B), 19=-1556 (B), 20=-1557 (B)

| | | | | | |
|----------|-------|------------------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | D1G | Common Supported Gable | 1 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:29
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Page: 1



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.22 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | n/a | - | n/a | 999 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 11 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 60 lb FT = 20% |

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

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

REACTIONS All bearings 11-3-8.
(lb) - Max Horiz 18=-132 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s)
11, 12, 13, 15, 16 except 17=-141
(LC 10), 18=-133 (LC 8)
Max Grav All reactions 250 (lb) or less at joint
(s) 12, 13, 14, 15, 16, 17, 18 except
11=280 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 9-11=-253/146

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only.
- 4) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2'-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 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) 11, 15, 16, 13, 12 except (jt=lb) 18=133, 17=140.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



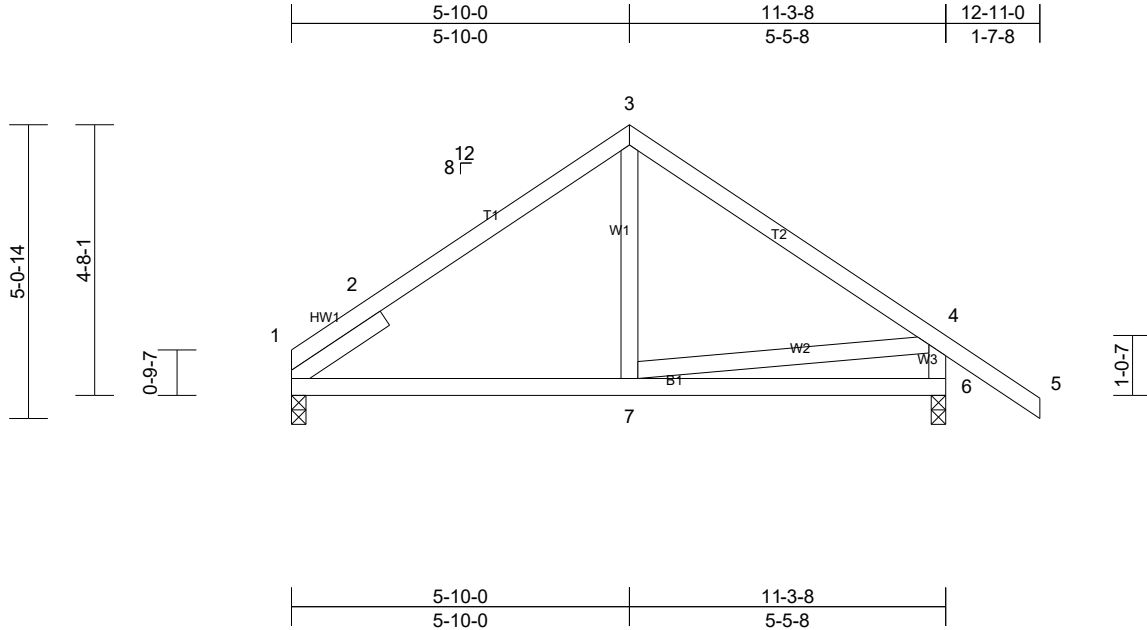
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|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | D2 | Common | 2 | 1 | |

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Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:29

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| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.38 | Vert(LL) | 0.04 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.06 | 7-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.02 | 1 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 58 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS (lb/size) 1=437/0-3-0, (min. 0-1-8),
 6=561/0-3-0, (min. 0-1-8)
 Max Horiz 1=-124 (LC 6)
 Max Uplift 1=-46 (LC 10), 6=-83 (LC 11)

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

TOP CHORD 1-2=-258/80, 2-3=-376/107, 3-4=-472/113,
 4-6=-520/203
 BOT CHORD 1-7=-151/339
 WEBS 4-7=-61/272

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1 and 83 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

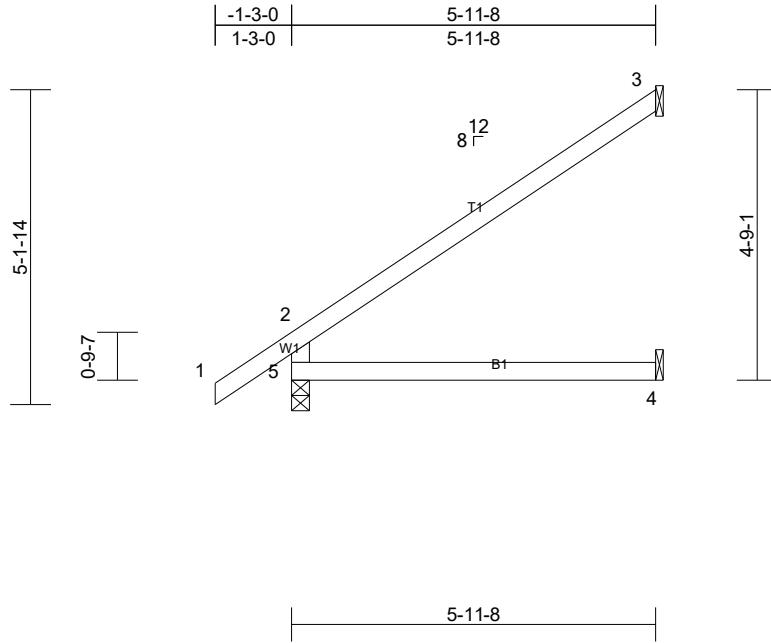


| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | JA1 | Jack-Open | 33 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:29
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Page: 1



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.55 | Vert(LL) | -0.05 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(CT) | -0.12 | 4-5 | >582 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.06 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 23 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=155/ Mechanical, 4=65/ Mechanical, 5=324/0-3-8, (min. 0-1-8)
Max Horiz 5=171 (LC 10)
Max Uplift 3=-118 (LC 10), 5=-11 (LC 10)
Max Grav 3=171 (LC 17), 4=110 (LC 3), 5=324 (LC 1)

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

TOP CHORD 2-5=-274/112

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 5 and 118 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

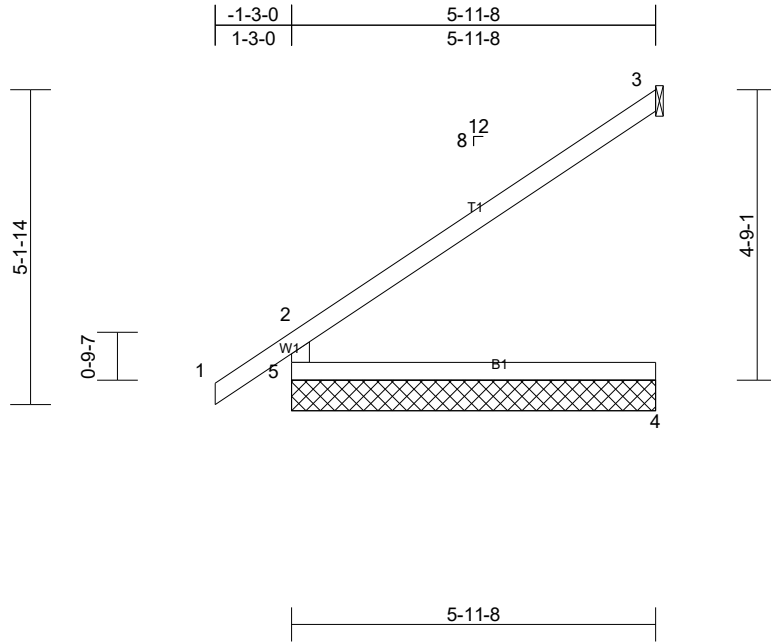


| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | JA1A | Jack-Open | 1 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:30
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| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.55 | Vert(LL) | -0.06 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.40 | Vert(CT) | -0.12 | 4-5 | >559 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.06 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 23 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=155/ Mechanical, 4=65/5-11-8, (min. 0-1-8), 5=325/5-11-8, (min. 0-1-8)
Max Horiz 5=171 (LC 10)
Max Uplift 3=-118 (LC 10), 5=-11 (LC 10)
Max Grav 3=171 (LC 17), 4=111 (LC 3), 5=325 (LC 1)

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

TOP CHORD 2-5=-274/112

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 5 and 118 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

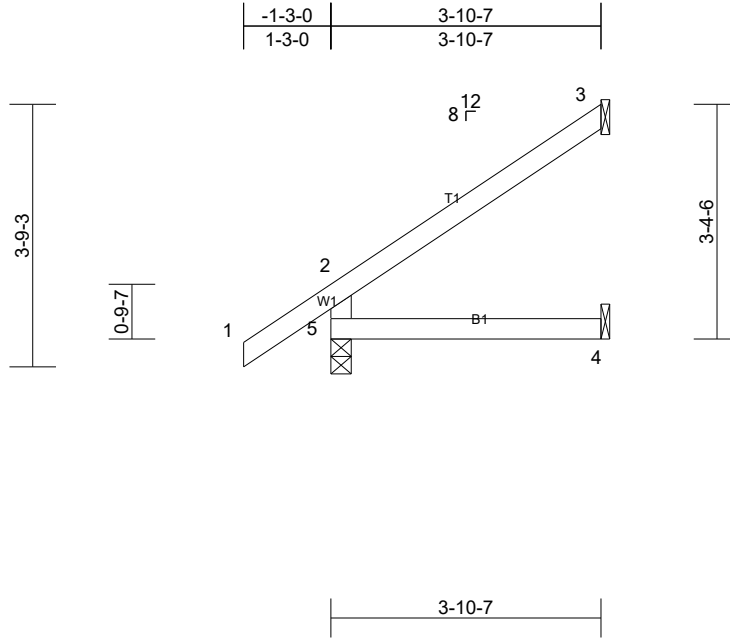


| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | JA2 | Jack-Open | 4 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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Page: 1



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | 0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.02 | 4-5 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 16 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=92/ Mechanical, 4=38/ Mechanical, 5=246/0-3-8, (min. 0-1-8)
Max Horiz 5=118 (LC 10)
Max Uplift 3=-72 (LC 10), 5=-16 (LC 10)
Max Grav 3=103 (LC 17), 4=68 (LC 3), 5=246 (LC 1)

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

NOTES

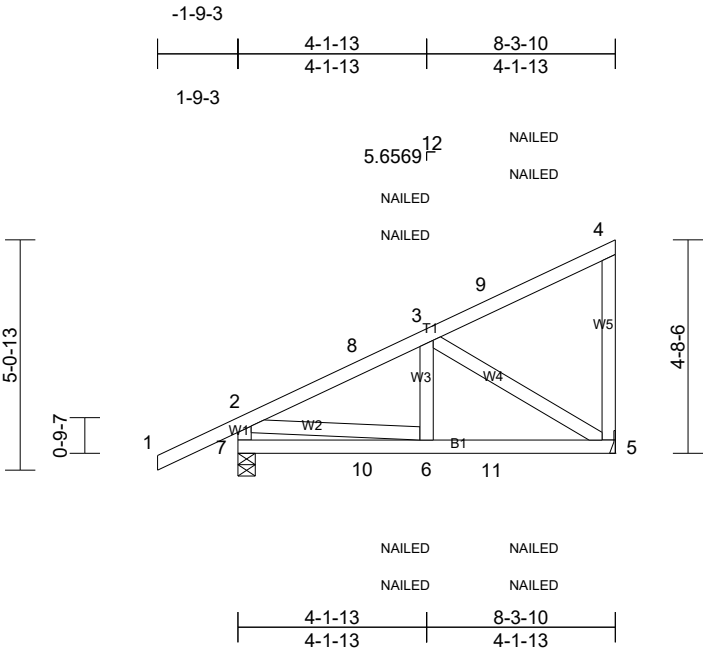
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 5 and 72 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) - Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



| | | | | | |
|----------|-------|---------------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | JA3 | Diagonal Hip Girder | 2 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.30 | Vert(LL) | -0.01 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.02 | 5-6 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.14 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 51 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS (lb/size) 5=327/ Mechanical, 7=453/0-4-9, (min. 0-1-8)

Max Horiz 7=188 (LC 7)

Max Uplift 5=-118 (LC 8), 7=-101 (LC 8)

Max Grav 5=349 (LC 15), 7=453 (LC 1)

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

TOP CHORD 2-7=-420/121, 2-8=-492/77, 3-8=-388/83

BOT CHORD 6-11=-143/358, 5-11=-143/358

WEBS 2-6=-102/360, 3-5=-389/154

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 7 and 118 lb uplift at joint 5.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.

- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-2=-60, 2-4=-60, 5-7=-20
- Concentrated Loads (lb)
- Vert: 9=-15 (F=-7, B=-7), 10=11 (F=5, B=5), 11=-20 (F=-10, B=-10)

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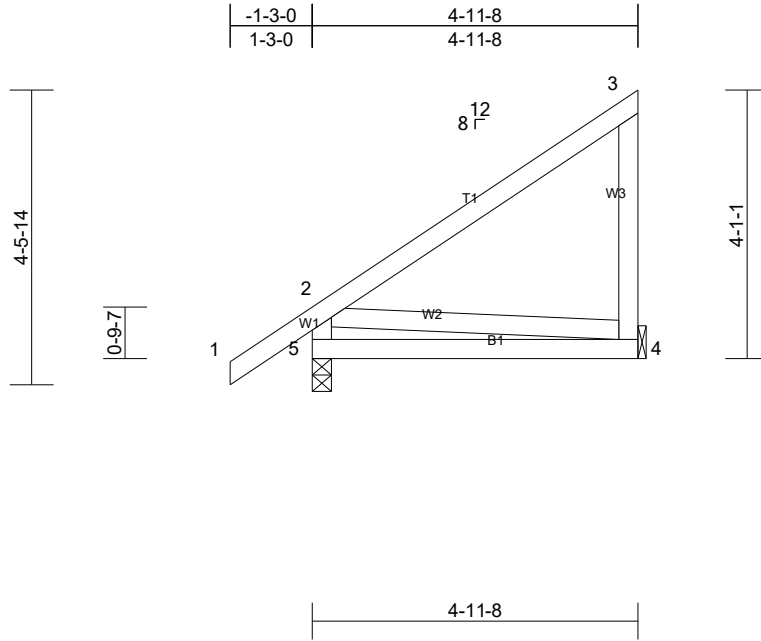
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|----------|-------|-------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | JB1 | Jack-Closed | 10 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:31

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| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.37 | Vert(LL) | -0.03 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.06 | 4-5 | >984 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 31 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.

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

REACTIONS (lb/size) 4=174/ Mechanical, 5=283/0-3-8, (min. 0-1-8)

Max Horiz 5=153 (LC 7)

Max Uplift 4=-57 (LC 10), 5=-41 (LC 10)

Max Grav 4=202 (LC 17), 5=283 (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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 5 and 57 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



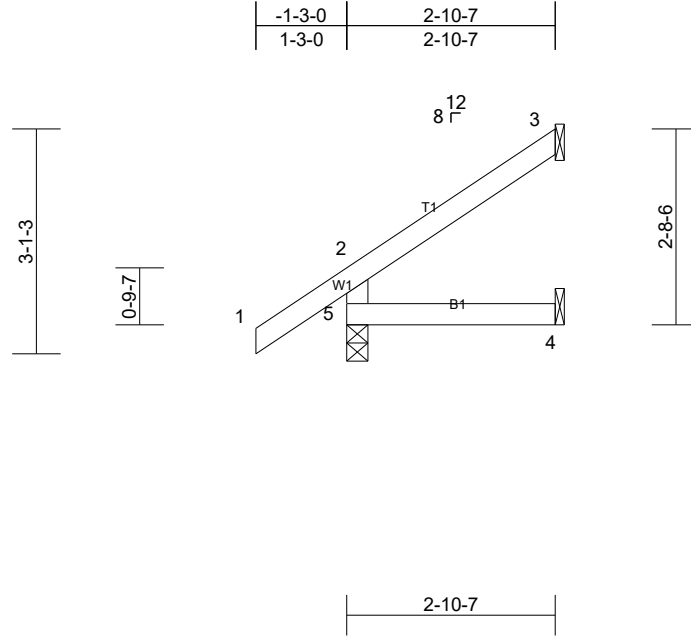
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|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | JB2 | Jack-Open | 2 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | -0.01 | 4-5 | >999 | 180 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.01 | 3 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 12 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-7 oc purlins, except end verticals.

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

REACTIONS (lb/size) 3=61/ Mechanical, 4=23/ Mechanical, 5=212/0-3-8, (min. 0-1-8)
Max Horiz 5=92 (LC 10)
Max Uplift 3=-53 (LC 10), 5=-19 (LC 10)
Max Grav 3=70 (LC 17), 4=48 (LC 3), 5=212 (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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 5 and 53 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) - Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

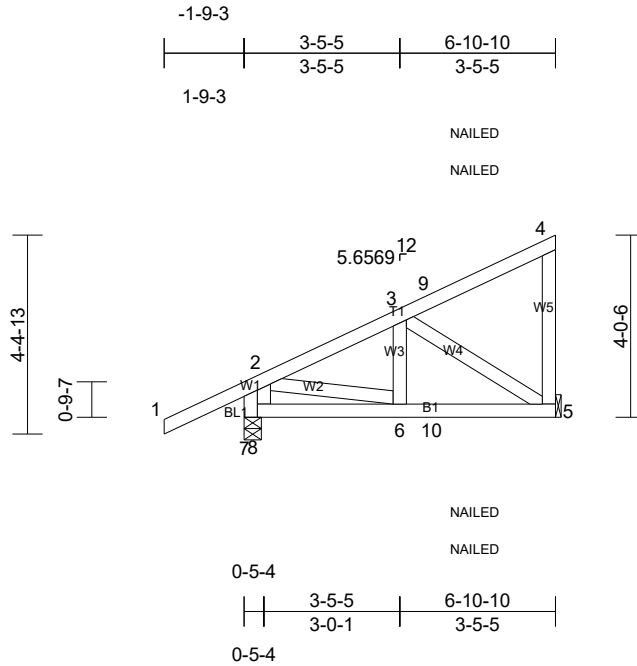


| | | | | | |
|----------|-------|---------------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | |
| 25111115 | JB3 | Diagonal Hip Girder | 1 | 1 | Job Reference (optional) |

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| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | 0.00 | 5-6 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.01 | 5-6 | >999 | 180 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.06 | Horz(CT) | 0.00 | 5 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 43 lb FT = 20% |

LUMBER

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

BRACING

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

| | | |
|------------------|------------|--|
| REACTIONS | (lb/size) | 5=244/ Mechanical, 8=392/0-4-9, (min. 0-1-8) |
| | Max Horiz | 8=157 (LC 7) |
| | Max Uplift | 5=-81 (LC 5), 8=-84 (LC 8) |
| | Max Grav | 5=246 (LC 15), 8=392 (LC 1) |

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

| | |
|-----------|---------------------------|
| TOP CHORD | 2-3=-317/53 |
| WEBS | 3-5=-252/104, 2-8=-395/82 |

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 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 81 lb uplift at joint 5 and 84 lb uplift at joint 8.

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 10=1 (F=1, B=1)



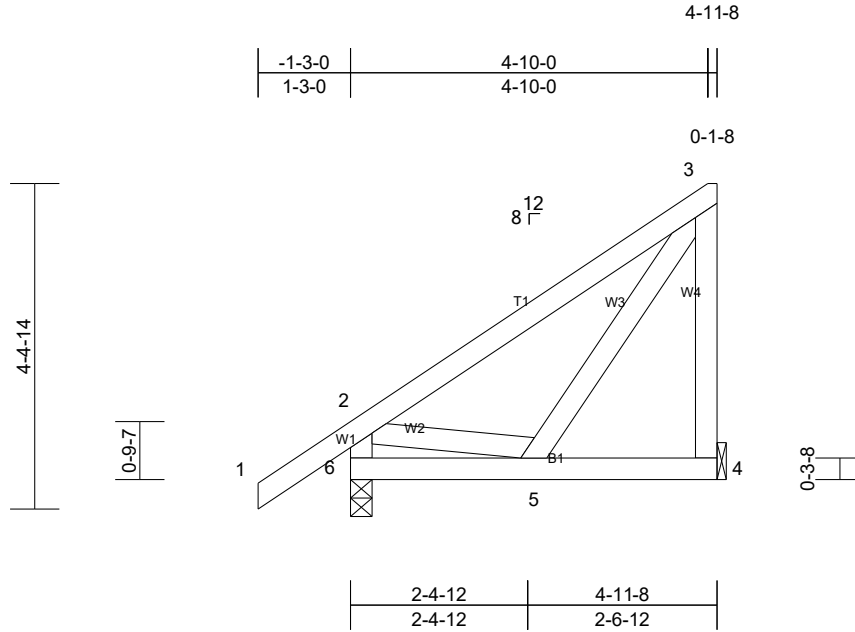
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|----------|-------|-------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | JB4 | Jack-Closed | 1 | 1 | |

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| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.37 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 34 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.

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

REACTIONS (lb/size) 4=174/ Mechanical, 6=283/0-3-8, (min. 0-1-8)

Max Horiz 6=153 (LC 7)

Max Uplift 4=-57 (LC 10), 6=-41 (LC 10)

Max Grav 4=202 (LC 17), 6=283 (LC 1)

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

TOP CHORD 2-6=-264/129

NOTES

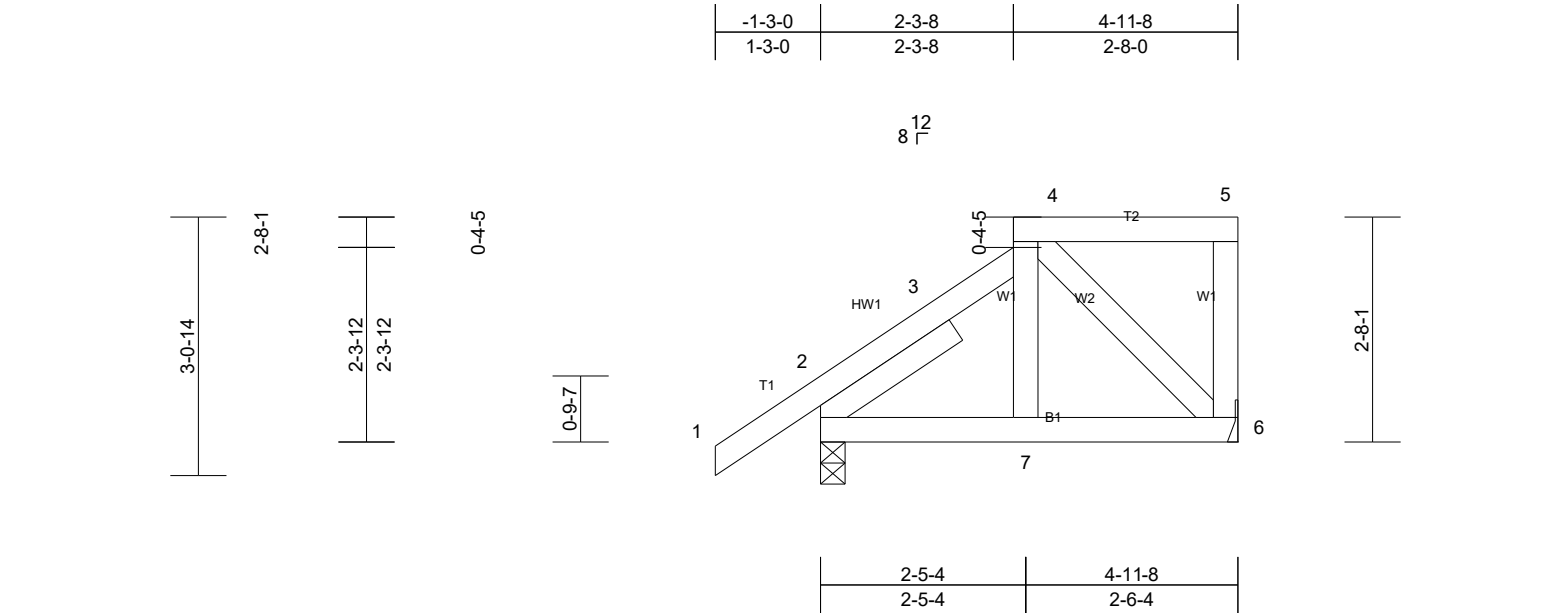
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 6 and 57 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



| | | | | | |
|----------|-------|-------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | JB5 | Jack-Closed | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | 0.00 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | 0.00 | 6-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 31 lb | FT = 20% |

LUMBER **LOAD CASE(S)** Standard

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=277/0-3-8, (min. 0-1-8), 6=183/
 Mechanical
 Max Horiz 2=98 (LC 9)
 Max Uplift 2=-45 (LC 10), 6=-45 (LC 7)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 6 and 45 lb uplift at joint 2.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

| | | | | | |
|----------|-------|-------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | JB6 | Jack-Closed | 1 | 1 | |

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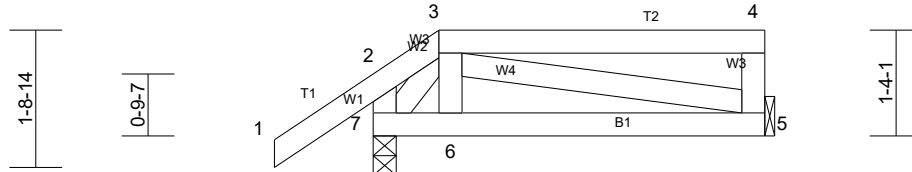
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| | | |
|--------|--|--------|
| -1-3-0 | | 4-11-8 |
| 1-3-0 | | 4-1-8 |

0-10-0

8 12



0-11-12

| | |
|--|---------|
| | 4-11-8 |
| | 3-11-12 |

0-11-12

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.31 | Vert(LL) | -0.01 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.02 | 5-6 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 27 lb | FT = 20% |

LUMBER

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

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.

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

REACTIONS (lb/size) 5=174/ Mechanical, 7=283/0-3-8, (min. 0-1-8)
Max Horiz 7=54 (LC 7)
Max Uplift 5=-37 (LC 7), 7=-38 (LC 10)
Max Grav 5=180 (LC 22), 7=283 (LC 1)

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

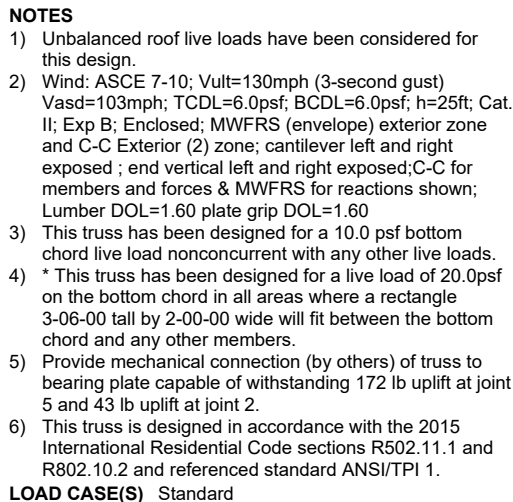
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-0 to 4-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 5 and 38 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



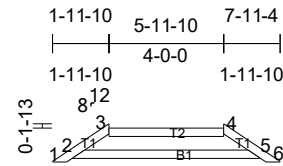
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:33 Page: 1
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This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCE and Truss Plate Institute.



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| | | |
|------------------|--|--|
| LUMBER | | 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. |
| TOP CHORD | 2x4 SP No.2 | |
| BOT CHORD | 2x4 SP No.2 | |
| BRACING | | 11) See standard piggyback truss connection detail for connection to base truss. |
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4. | 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. | |
| REACTIONS | | LOAD CASE(S) Standard |
| (lb/size) | 2=289/6-6-2, (min. 0-1-8), 5=296/6-6-2, (min. 0-1-8) | |
| Max Horiz | 2=27 (LC 9) | |
| Max Uplift | 2=-24 (LC 7), 5=-20 (LC 6) | |
| FORCES | | |
| | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | |
| TOP CHORD | 2-3=-405/168, 3-4=-370/145, 4-5=-406/167 | |
| BOT CHORD | 2-5=-95/370 | |

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 4-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 5, 2, 5.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBGA and Truss Plate Institute.



| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | PB2 | Piggyback | 20 | 1 | |

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| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 27 lb | FT = 20% |

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

10) See standard piggyback truss connection detail for connection to base truss.
LOAD CASE(S) Standard

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.

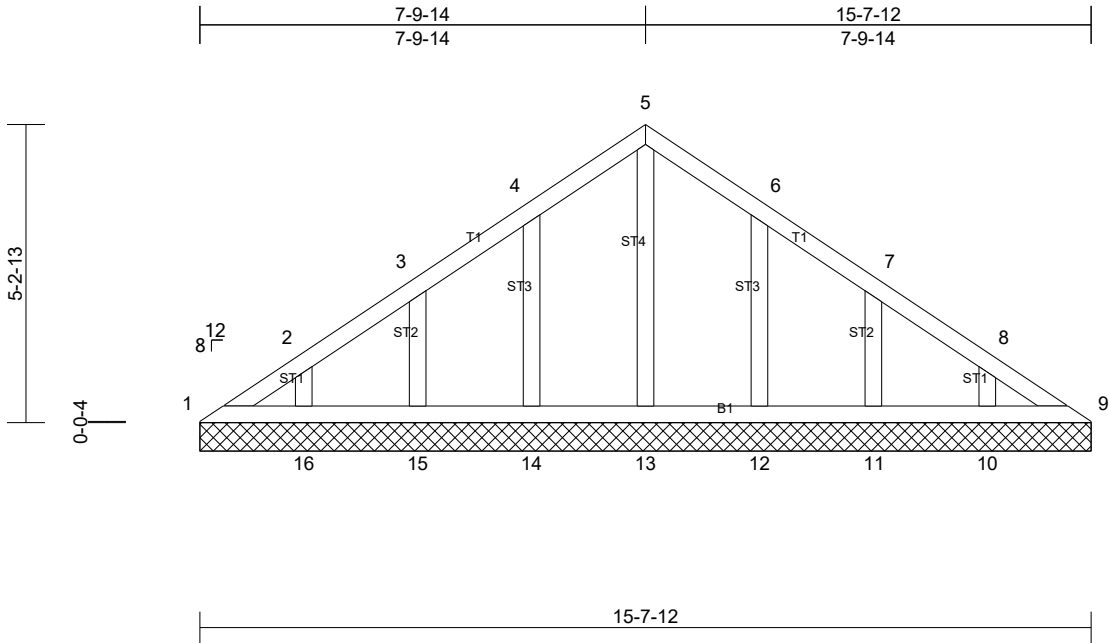
REACTIONS (lb/size) 2=171/6-6-2, (min. 0-1-8),
4=171/6-6-2, (min. 0-1-8),
6=235/6-6-2, (min. 0-1-8)
Max Horiz 2=61 (LC 9)
Max Uplift 2=-35 (LC 10), 4=-43 (LC 11), 6=-5 (LC 10)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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, 6, 2, 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V1 | Valley | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.05 | Vert(LL) | n/a | - | n/a | 999 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horiz(TL) | 0.00 | 9 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | |
| | | | | | | | | | | Weight: 75 lb | FT = 20% |

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

10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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

REACTIONS All bearings 15-7-12.
 (lb) - Max Horiz 1=-125 (LC 6)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 10, 11, 12, 14, 15, 16
 Max Grav All reactions 250 (lb) or less at joint (s) 1, 9, 10, 11, 12, 13, 14, 15, 16

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only.
 4) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 5) Gable requires continuous bottom chord bearing.
 6) Gable studs spaced at 2-0-0 oc.
 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 14, 15, 16, 12, 11, 10.

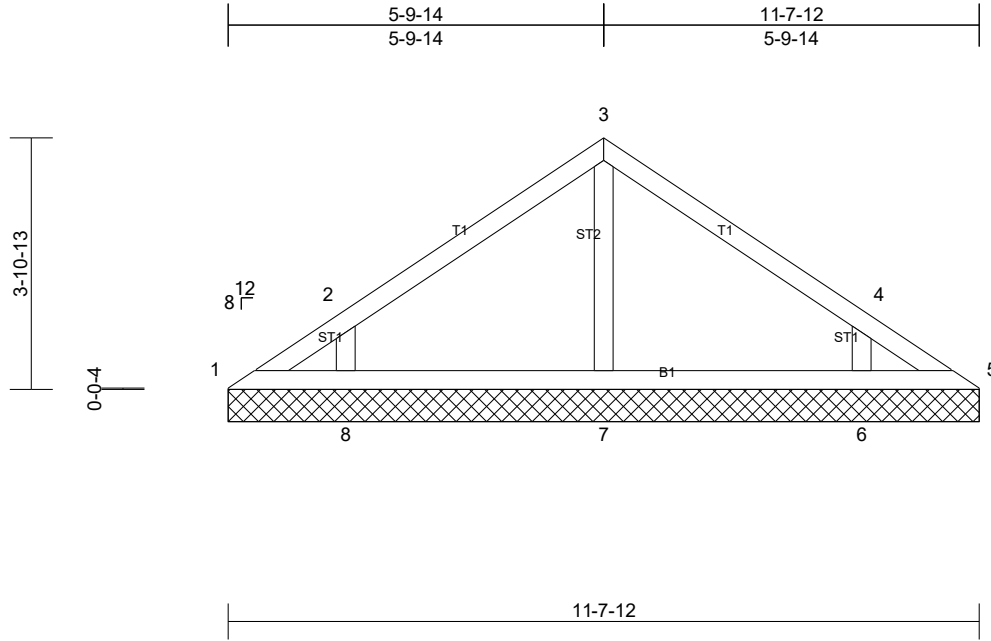
| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V2 | Valley | 1 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.18 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(TL) | n/a | - | n/a | 999 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.04 | Horiz(TL) | 0.00 | 5 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 43 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 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

All bearings 11-7-12.
(lb) - Max Horiz 1=-92 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s)
1, 5 except 6=-117 (LC 11), 8=-119 (LC 10)
Max Grav All reactions 250 (lb) or less at joint
(s) 1, 5 except 6=315 (LC 18),
7=259 (LC 1), 8=317 (LC 17)

FORCES

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

WEBS

2-8=-275/188, 4-6=-274/187

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 5 except (jt=lb) 8=118, 6=116.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



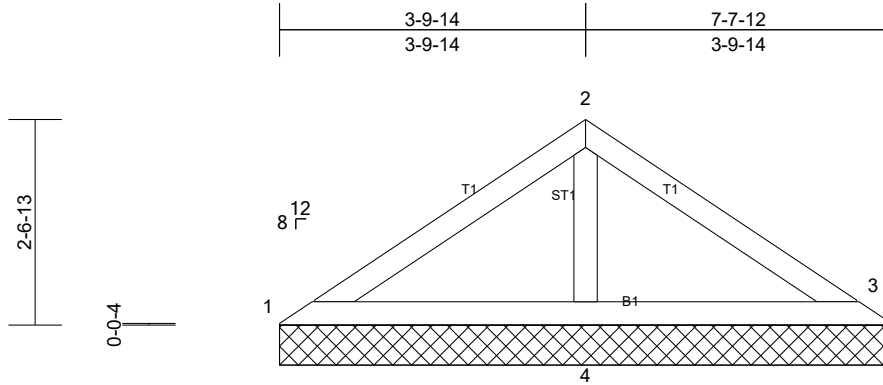
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|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V3 | Valley | 1 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 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 | 0.16 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.04 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 26 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 7-7-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=85/7-7-12, (min. 0-1-8),
3=58/7-7-12, (min. 0-1-8),
4=433/7-7-12, (min. 0-1-8)
Max Horiz 1=59 (LC 7)
Max Uplift 1=-10 (LC 11), 3=-26 (LC 11),
4=-73 (LC 10)
Max Grav 1=85 (LC 1), 3=99 (LC 22), 4=433 (LC 1)

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

WEBS 2-4=-295/100

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 26 lb uplift at joint 3 and 73 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



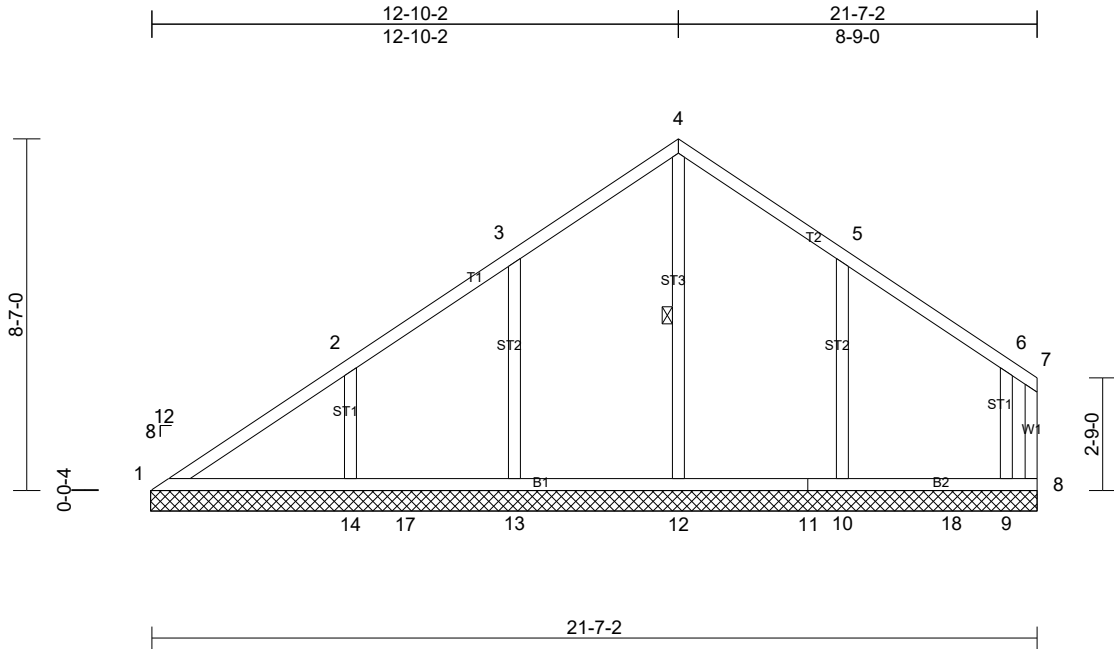
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|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V4 | Valley | 1 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.25 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.24 | Vert(TL) | n/a | - | n/a | 999 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.15 | Horiz(TL) | 0.00 | 14 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 109 lb FT = 20% |

| | | |
|--|---|--|
| LUMBER | | |
| TOP CHORD | 2x4 SP No.2 | |
| BOT CHORD | 2x4 SP No.2 | |
| WEBS | 2x4 SP No.2 | |
| OTHERS | 2x4 SP No.2 | |
| BRACING | | |
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. | |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. | |
| WEBS | 1 Row at midpt 4-12 | |
| REACTIONS | | |
| All bearings 21-7-8. | | |
| (lb) - Max Horiz 1=240 (LC 7) | | |
| Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 8=-176 (LC 18), 9=-147 (LC 11), 10=-144 (LC 11), 13=-133 (LC 10), 14=-151 (LC 10) | | |
| Max Grav All reactions 250 (lb) or less at joint (s) 1, 8 except 9=420 (LC 18), 10=485 (LC 18), 12=466 (LC 17), 13=454 (LC 17), 14=450 (LC 17) | | |
| FORCES | | |
| (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | | |
| TOP CHORD | 1-2=-315/231 | |
| WEBS | 4-12=-261/58, 3-13=-268/185, 2-14=-295/183, 5-10=-287/193, 6-9=-250/185 | |

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 1.5x3 (||) 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 3-06-00 tall by 2-00-00 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 except (jt=lb) 8=176, 13=132, 14=150, 10=144, 9=146.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



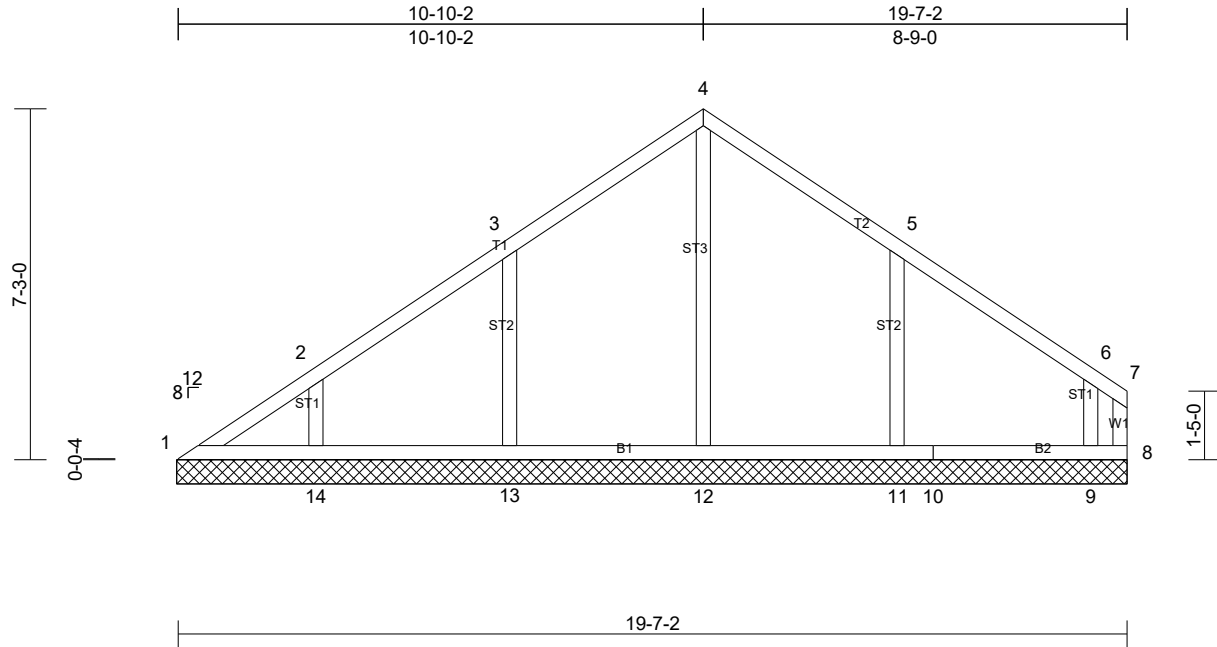
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|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V5 | Valley | 1 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

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| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|--------|---------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.22 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(TL) | n/a | - | n/a | 999 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.18 | Horiz(TL) | 0.00 | 8 | n/a | n/a | Weight: 91 lb |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

All bearings 19-7-8.
(lb) - Max Horiz 1=190 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 8=-145 (LC 9), 9=-194 (LC 11), 11=-143 (LC 11), 13=-145 (LC 10), 14=-104 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 8 except 9=340 (LC 18), 11=428 (LC 18), 12=437 (LC 17), 13=425 (LC 17), 14=303 (LC 17)

FORCES

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

WEBS 3-13=-287/194, 5-11=-287/193, 6-9=-267/205

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 1.5x3 (||) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

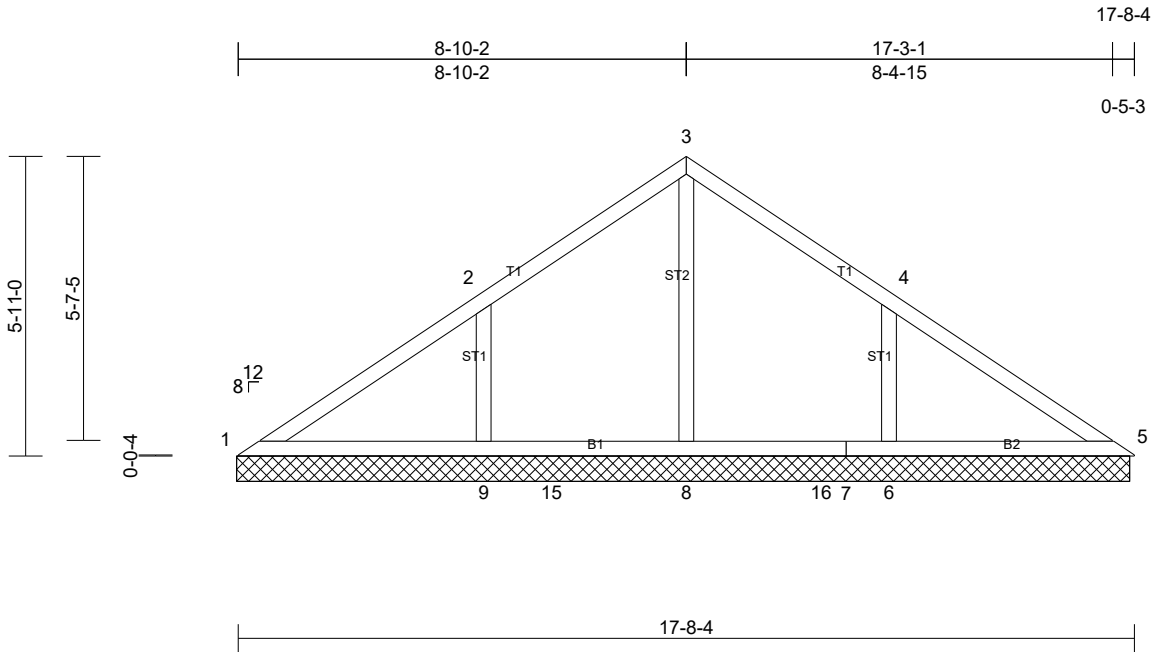
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1 except (jt=lb) 8=144, 13=145, 14=103, 11=143, 9=193.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)

Standard



| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V6 | Valley | 1 | 1 | |



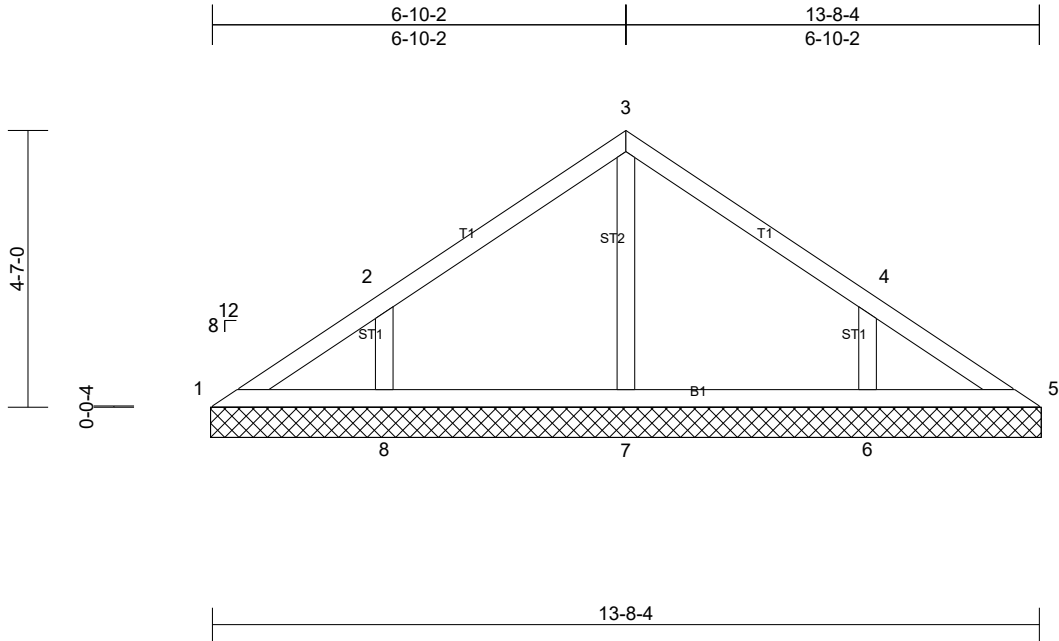
| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.34 | Vert(LL) | n/a | - | n/a | 999 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(TL) | n/a | - | n/a | 999 | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.29 | Horiz(TL) | -0.01 | 14 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | |
| | | | | | | | | | | Weight: 72 lb | FT = 20% |

- LUMBER**
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.2
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
- REACTIONS** All bearings 17-7-8.
 (lb) - Max Horiz 1=-142 (LC 6)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 1, 5 except 6=-164 (LC 11), 9=-169 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint
 (s) 1, 5 except 6=458 (LC 18), 8=649 (LC 17), 9=457 (LC 17)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-82/391, 2-3=0/352, 3-4=0/351, 4-5=-55/379
 BOT CHORD 1-9=-259/97, 9-15=-259/97, 8-15=-259/97, 8-16=-259/97, 7-16=-259/97, 6-7=-259/97, 5-6=-259/97
 WEBS 3-8=-527/0, 2-9=-313/201, 4-6=-315/200
- NOTES**
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1 except (jt=lb) 9=168, 6=164.
 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 14.
 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V7 | Valley | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.07 | Horiz(TL) | 0.00 | 5 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 53 lb FT = 20% |

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

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

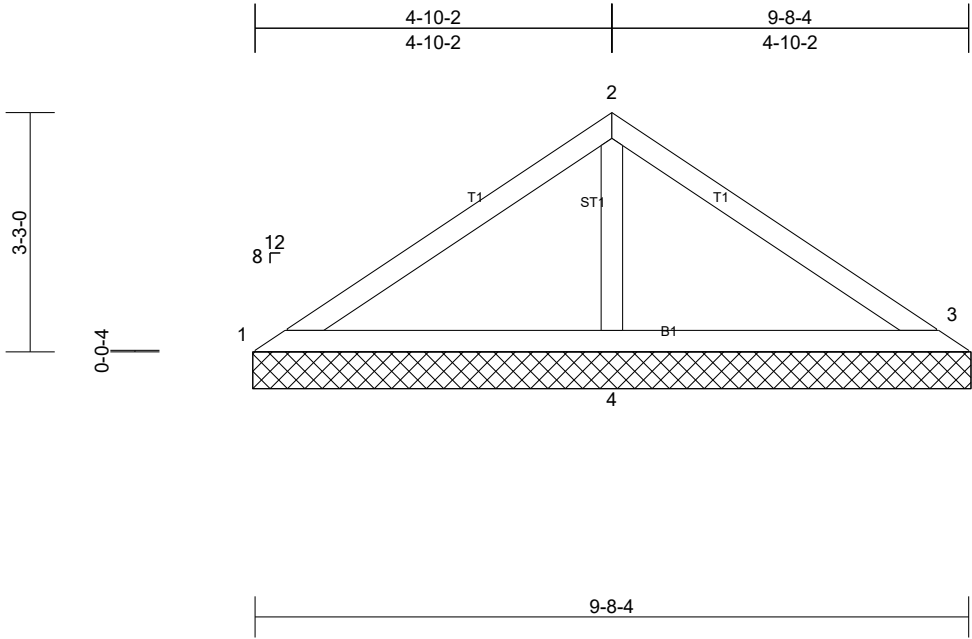
BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS All bearings 13-9-0.
 (lb) - Max Horiz 1=-109 (LC 6)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-126 (LC 11), 8=-128 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint (s) 1, 5 except 6=341 (LC 18), 7=296 (LC 1), 8=343 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-262/169, 4-6=-261/169

- NOTES**
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Gable requires continuous bottom chord bearing.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 except (jt=lb) 8=127, 6=126.
 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V8 | Valley | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | n/a | - | n/a | 999 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(TL) | n/a | - | n/a | 999 | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.08 | Horiz(TL) | 0.00 | 4 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 34 lb FT = 20% |

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

8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

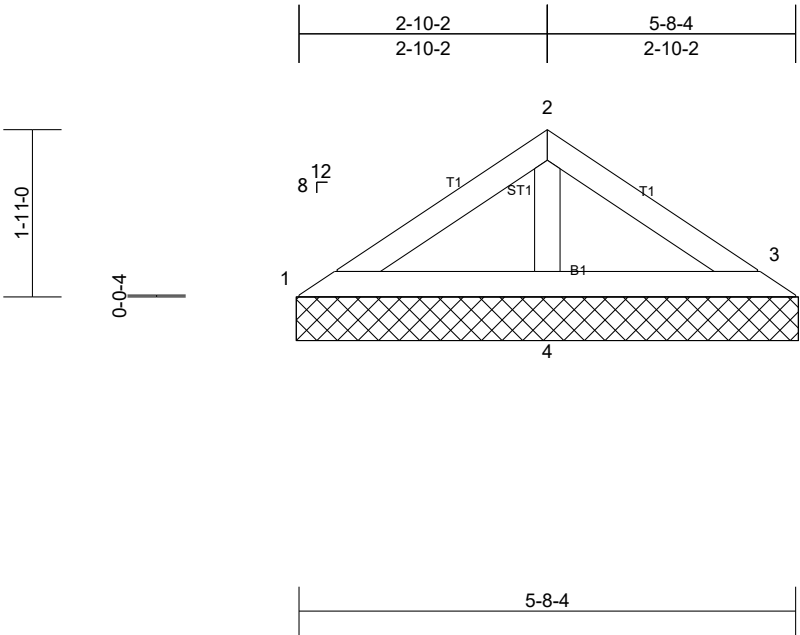
BRACING
 TOP CHORD Structural wood sheathing directly applied or 9-8-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=85/9-9-0, (min. 0-1-8), 3=54/9-9-0, (min. 0-1-8), 4=602/9-9-0, (min. 0-1-8)
 Max Horiz 1=76 (LC 7)
 Max Uplift 1=-12 (LC 11), 3=-43 (LC 6), 4=-114 (LC 10)
 Max Grav 1=89 (LC 18), 3=122 (LC 22), 4=602 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-107/264
 WEBS 2-4=-435/145

- NOTES**
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Gable requires continuous bottom chord bearing.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 12 lb uplift at joint 1, 43 lb uplift at joint 3 and 114 lb uplift at joint 4.
 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V9 | Valley | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(TL) | n/a | - | n/a | 999 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.02 | Horiz(TL) | 0.00 | 4 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 19 lb FT = 20% |

LUMBER

LOAD CASE(S) Standard

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=73/5-9-0, (min. 0-1-8), 3=46/5-9-0, (min. 0-1-8), 4=303/5-9-0, (min. 0-1-8)
 Max Horiz 1=43 (LC 7)
 Max Uplift 1=-6 (LC 11), 3=-18 (LC 11), 4=-46 (LC 10)
 Max Grav 1=73 (LC 1), 3=71 (LC 22), 4=303 (LC 1)

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

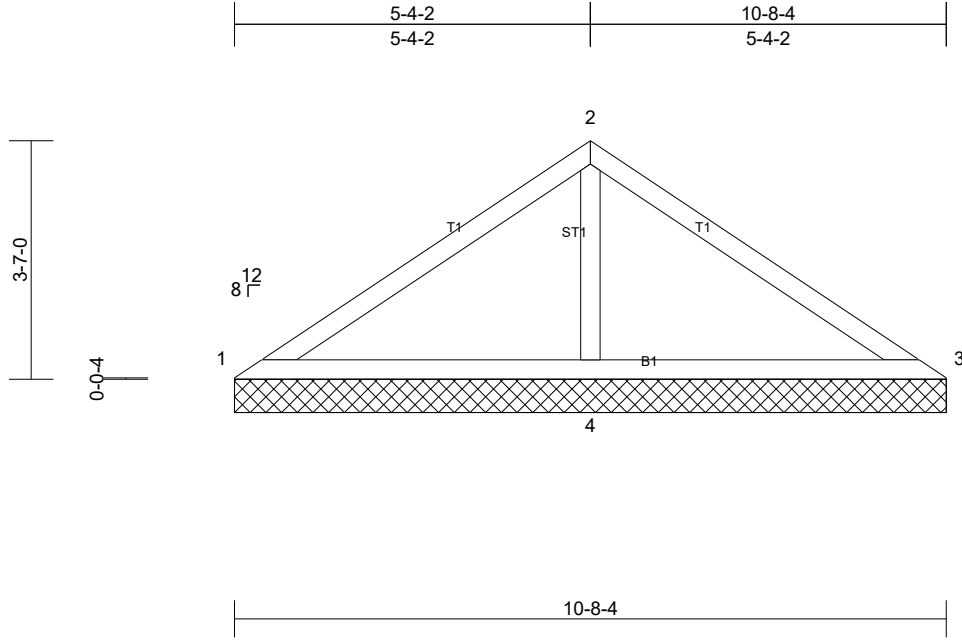
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1, 18 lb uplift at joint 3 and 46 lb uplift at joint 4.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V10 | Valley | 1 | 1 | |

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Eric Graham

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Wed Nov 19 20:41:37
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Page: 1



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|-------|--------|-----|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.34 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(TL) | n/a | - | n/a | 999 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.13 | Horiz(TL) | 0.00 | 3 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 38 lb FT = 20% |

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.2
 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

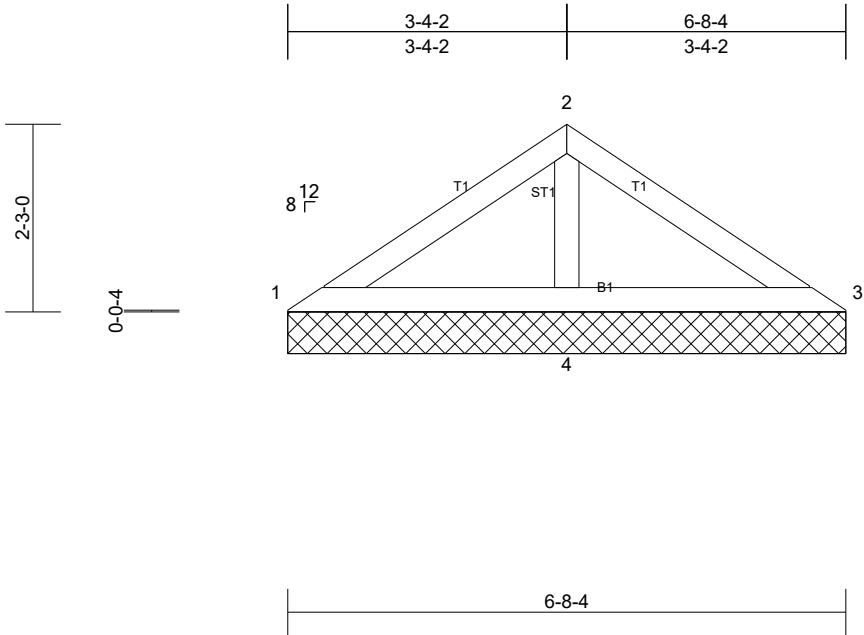
REACTIONS (lb/size)
 1=18/10-8-4, (min. 0-1-8),
 3=18/10-8-4, (min. 0-1-8),
 4=820/10-8-4, (min. 0-1-8)
 Max Horiz 1=-84 (LC 6)
 Max Uplift 1=-40 (LC 22), 3=-40 (LC 21),
 4=-116 (LC 10)
 Max Grav 1=67 (LC 21), 3=67 (LC 22), 4=820 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-104/395, 2-3=-104/395
 BOT CHORD 1-4=-314/150, 3-4=-314/150
 WEBS 2-4=-638/219

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Gable requires continuous bottom chord bearing.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 40 lb uplift at joint 1, 40 lb uplift at joint 3 and 116 lb uplift at joint 4.



| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V11 | Valley | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.04 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 23 lb | FT = 20% |

LUMBER

LOAD CASE(S) Standard

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-8-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

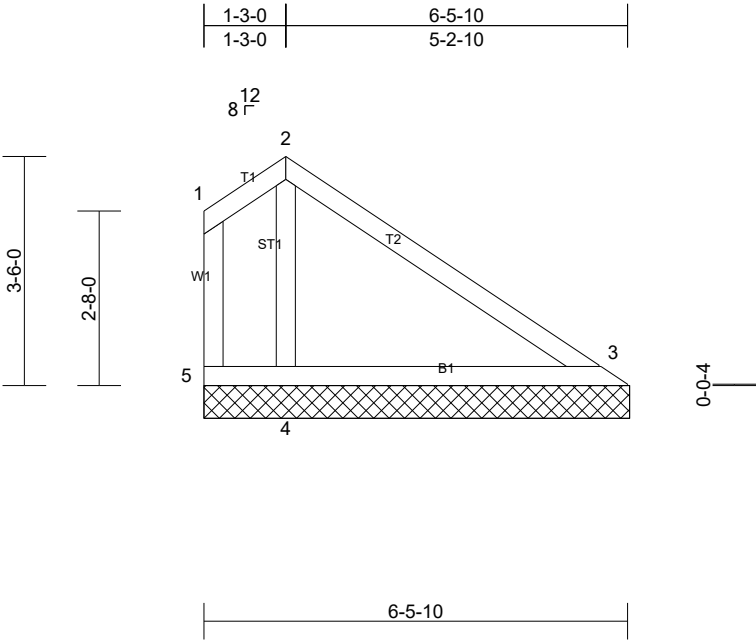
REACTIONS (lb/size) 1=54/6-8-4, (min. 0-1-8), 3=54/6-8-4, (min. 0-1-8), 4=427/6-8-4, (min. 0-1-8)
 Max Horiz 1=51 (LC 7)
 Max Uplift 1=-5 (LC 10), 3=-14 (LC 11), 4=-50 (LC 10)
 Max Grav 1=74 (LC 21), 3=74 (LC 22), 4=427 (LC 1)

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

WEBS 2-4=-301/102

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1, 14 lb uplift at joint 3 and 50 lb uplift at joint 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V12 | Valley | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.28 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-SH | | | | | | | Weight: 28 lb | FT = 20% |

LUMBER

LOAD CASE(S) Standard

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

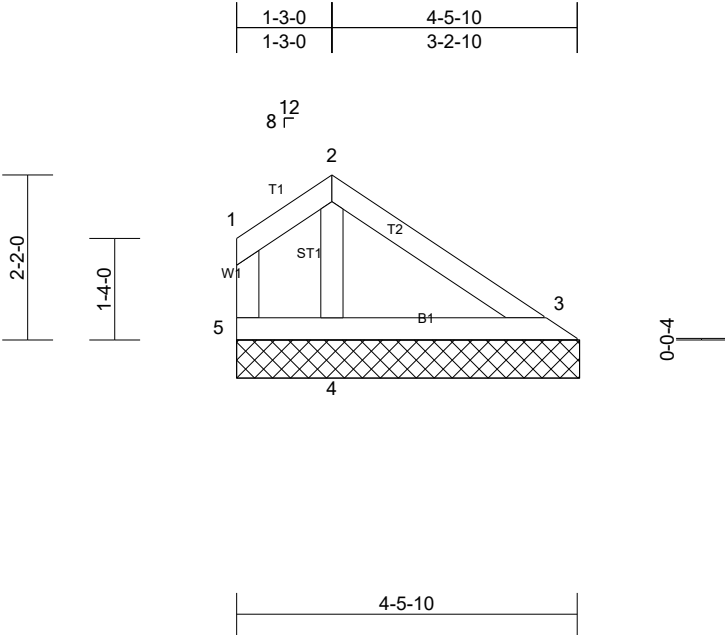
BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-6-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 3=160/6-6-0, (min. 0-1-8), 4=397/6-6-0, (min. 0-1-8), 5=88/6-6-0, (min. 0-1-8)
 Max Horiz 5=-110 (LC 6)
 Max Uplift 3=-11 (LC 11), 4=-76 (LC 11), 5=-111 (LC 22)
 Max Grav 3=160 (LC 1), 4=423 (LC 18), 5=26 (LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-260/90

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 5, 11 lb uplift at joint 3 and 76 lb uplift at joint 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 25111115 | V13 | Valley | 1 | 1 | |



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.01 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 18 lb | FT = 20% |

LUMBER

LOAD CASE(S) Standard

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=105/4-6-0, (min. 0-1-8),
 4=173/4-6-0, (min. 0-1-8),
 5=31/4-6-0, (min. 0-1-8)
 Max Horiz 5=-60 (LC 6)
 Max Uplift 3=-17 (LC 11), 4=-2 (LC 11), 5=-21 (LC 10)
 Max Grav 3=105 (LC 1), 4=181 (LC 18), 5=41 (LC 17)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 5, 17 lb uplift at joint 3 and 2 lb uplift at joint 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.