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|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss A1 | Truss Type Truss | Qty 7 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

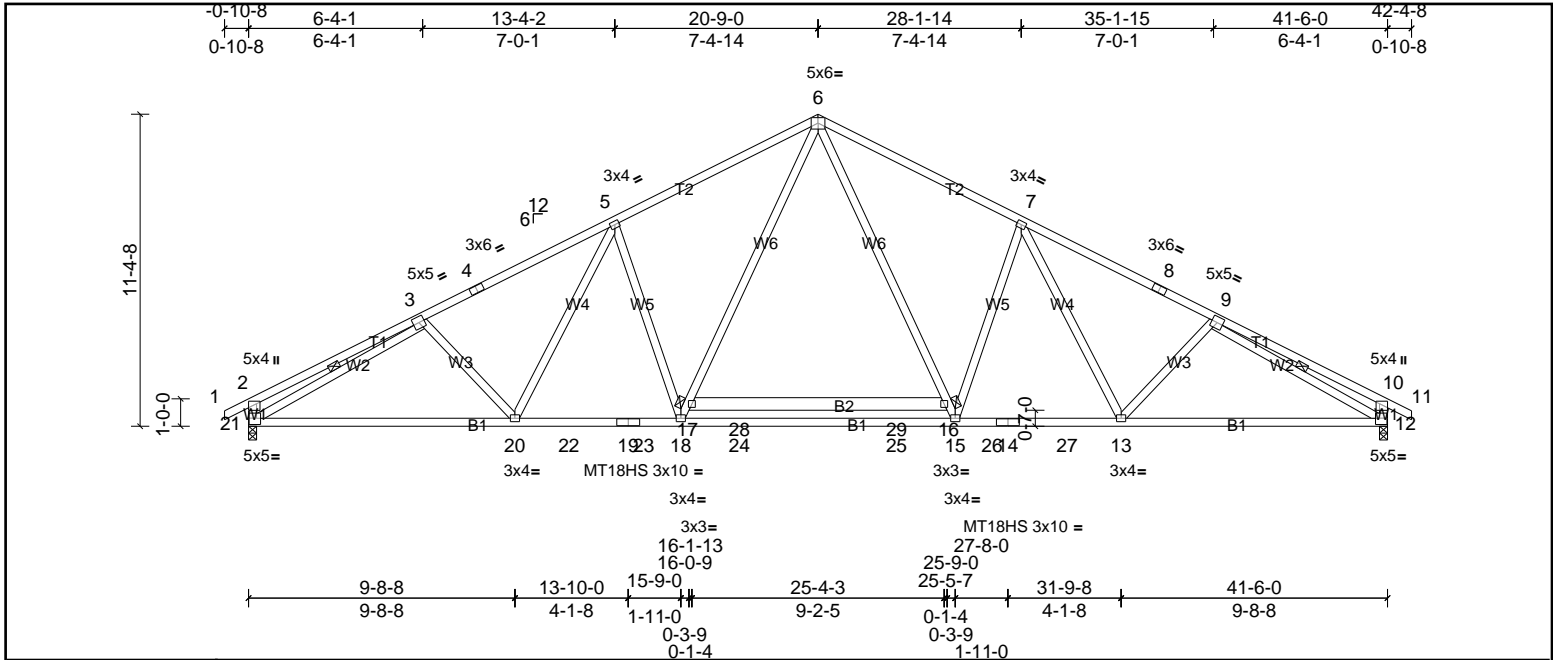


Plate Offsets (X, Y): [2:0-2-0,0-1-12], [5:0-0-0,0-0-0], [10:0-2-0,0-1-12], [12:0-1-12,0-2-12], [21:0-1-12,0-2-12]

| 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 | 0.74 | Vert(LL) | -0.37 | 15-18 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.74 | 15-18 | >671 | 180 | MT18HS | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.14 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 274 lb | FT = 20% |

| LUMBER | BRACING |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied, except end verticals. |
| BOT CHORD 2x4 SP No.1 *Except* B2:2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 9-3-8 oc bracing. Except: |
| WEBS 2x4 SP No.3 | WEBS 6-0-0 oc bracing: 16-17 1 Row at midpt 3-21, 9-12 |
| REACTIONS (lb/size) 12=1805/0-3-8, (min. 0-2-3), 21=1805/0-3-8, (min. 0-2-3) Max Horiz 21=-167 (LC 8) Max Uplift 12=-188 (LC 11), 21=-188 (LC 10) Max Grav 12=1842 (LC 2), 21=1842 (LC 2) | |
| FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-557/196, 3-4=-2868/607, 4-5=-2725/634, 5-6=-2619/671, 6-7=-2619/671, 7-8=-2725/634, 8-9=-2868/607, 9-10=-557/196, 2-21=-464/236, 10-12=-464/236 BOT CHORD 20-21=-425/2528, 20-22=-248/2412, 19-22=-248/2412, 19-23=-248/2412, 18-23=-248/2412, 18-24=-51/1945, 24-25=-51/1945, 15-25=-51/1945, 15-26=-248/2412, 14-26=-248/2412, 14-27=-248/2412, 13-27=-248/2412, 12-13=-425/2523 WEBS 6-16=-201/1079, 15-16=-255/867, 17-18=-255/866, 6-17=-201/1079, 7-15=-613/352, 5-18=-613/352, 5-20=-71/291, 3-21=-2496/461, 9-12=-2496/461, 7-13=-71/287 | |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=35ft; 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 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 BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 21 and 188 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.



| | | | | | |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss A1G | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, r thomas

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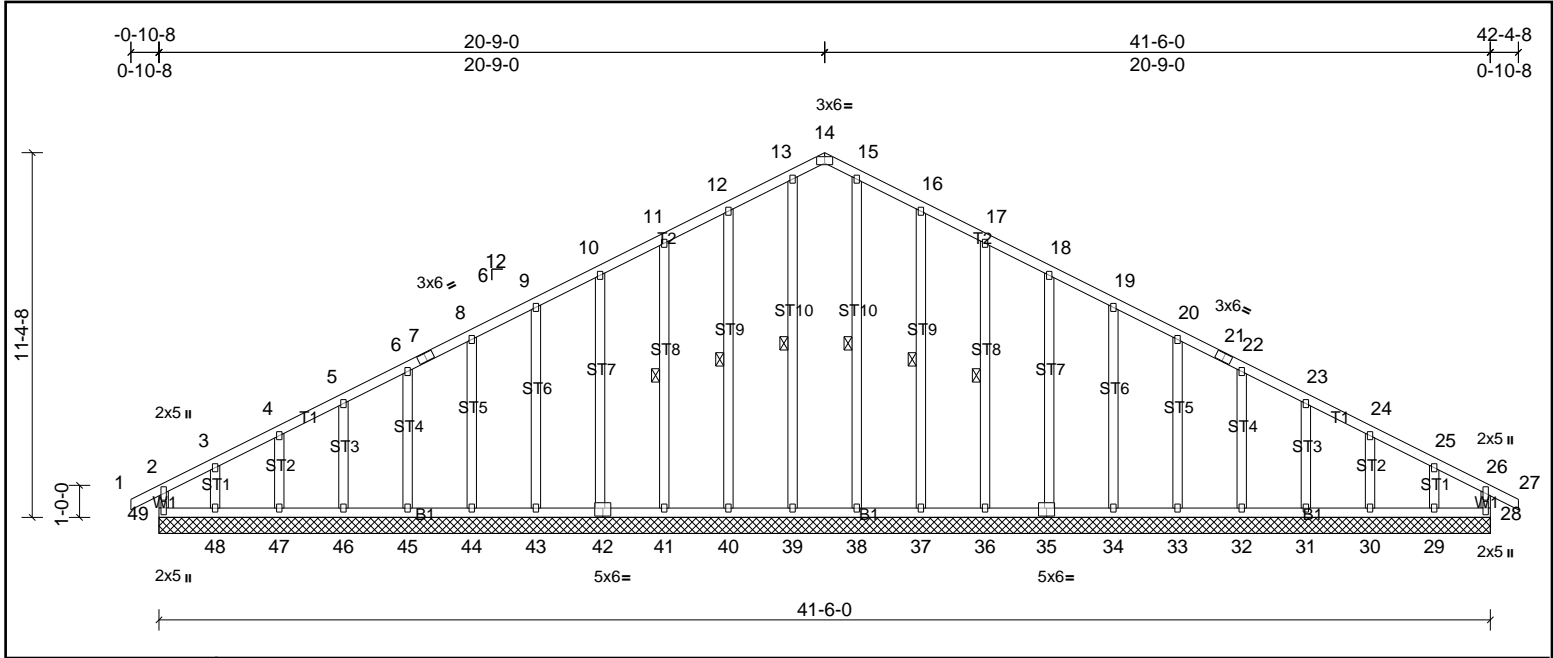


Plate Offsets (X, Y): [14:0-3-0,Edge], [35:0-3-0,0-3-0], [42:0-3-0,0-3-0]

| 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 | 0.23 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.01 | 28 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 309 lb | FT = 20% |

| LUMBER | | BRACING | |
|-----------|-------------|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 2x4 SP No.3 | WEBS | 1 Row at midpt |
| OTHERS | 2x4 SP No.3 | | 13-39, 15-38, 12-40, 11-41, 16-37, 17-36 |

REACTIONS All bearings 41-6-0.
 (lb) - Max Horiz 49=-167 (LC 8)
 Max Uplift All uplift 100 (lb) or less at joint(s) 28, 30, 31, 32, 33, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 47, 49 except 29=-153 (LC 11), 48=-175 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint(s) 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 10-11=-101/258, 11-12=-118/306, 12-13=-142/374, 13-14=-124/322, 14-15=-124/322, 15-16=-142/374, 16-17=-118/306, 17-18=-101/258

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=35ft; 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 2x3 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 49, 28, 40, 41, 42, 43, 44, 45, 46, 47, 37, 36, 35, 34, 33, 32, 31, 30 except (jt=lb) 48=174, 29=153.
 - 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.



| | | | | | |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss A2 | Truss Type Truss | Qty 7 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, r.thomas

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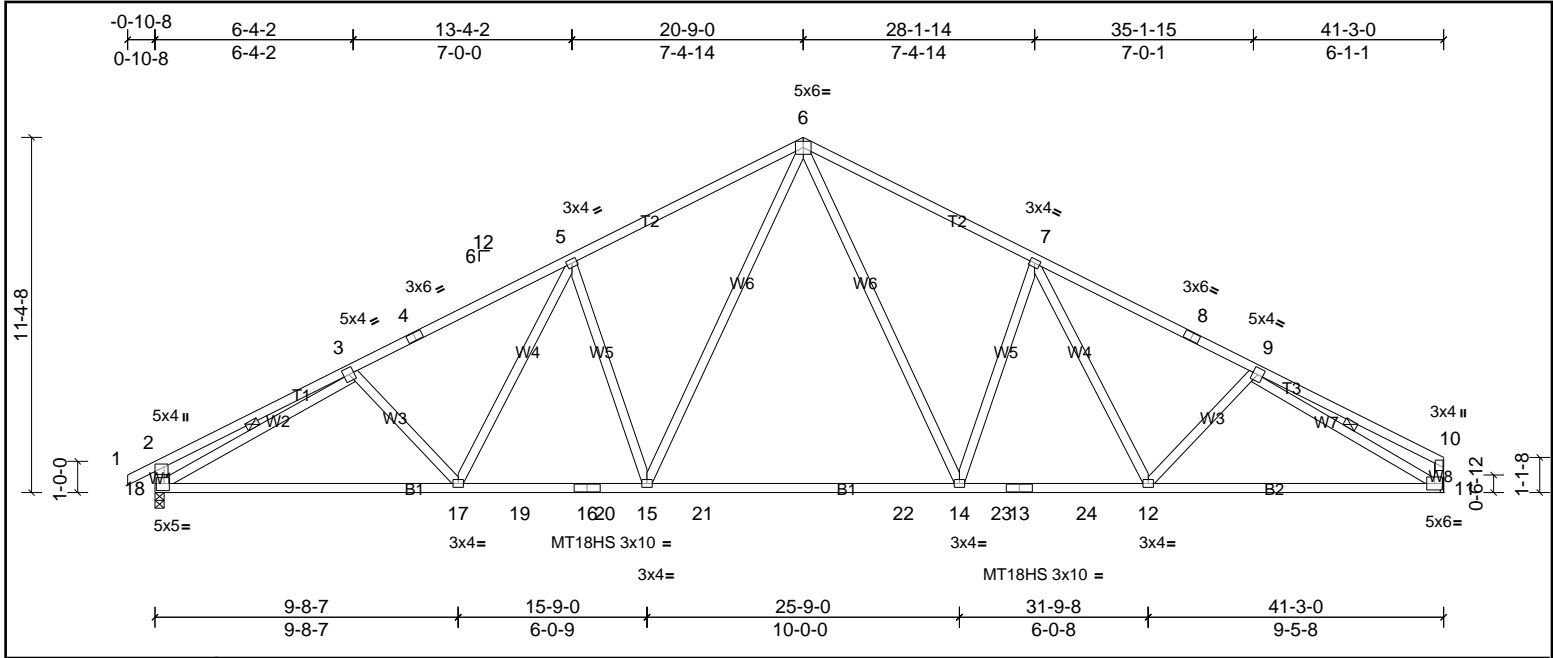


Plate Offsets (X, Y): [2:0-2-0,0-1-12], [18:0-2-0,0-2-12]

| 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 | 0.71 | Vert(LL) | -0.37 | 14-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.97 | Vert(CT) | -0.70 | 14-15 | >702 | 180 | MT18HS | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.12 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 250 lb | FT = 20% |

| LUMBER | | BRACING | |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 *Except* T2:2x4 SP SS | TOP CHORD | Structural wood sheathing directly applied or 3-3-1 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.1 *Except* B2:2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 2-2-0 oc bracing. |
| WEBS | 2x4 SP No.3 | WEBS | 1 Row at midpt 3-18, 9-11 |
| REACTIONS | (lb/size) 11=1638/ Mechanical, (min. 0-1-8), 18=1700/0-3-8, (min. 0-2-0) Max Horiz 18=190 (LC 10) Max Uplift 11=-219 (LC 11), 18=-245 (LC 10) | | |
| FORCES | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-545/206, 3-4=-2522/711, 4-5=-2379/738, 5-6=-2255/782, 6-7=-2242/778, 7-8=-2340/729, 8-9=-2483/702, 9-10=-361/110, 2-18=-458/242, 10-11=-292/125 17-18=-577/2240, 17-19=-412/2091, 16-19=-412/2091, 16-20=-412/2091, 15-20=-412/2091, 15-21=-198/1571, 21-22=-198/1571, 14-22=-198/1571, 14-23=-407/2071, 13-23=-407/2071, 13-24=-407/2071, 12-24=-407/2071, 11-12=-559/2174 5-15=-623/347, 5-17=-61/314, 3-18=-2180/553, 6-14=-250/885, 7-14=-601/340, 7-12=-58/281, 9-11=-2299/637, 6-15=-258/909 | | |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 245 lb uplift at joint 18 and 219 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.



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 72406502 | Truss A2G | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|

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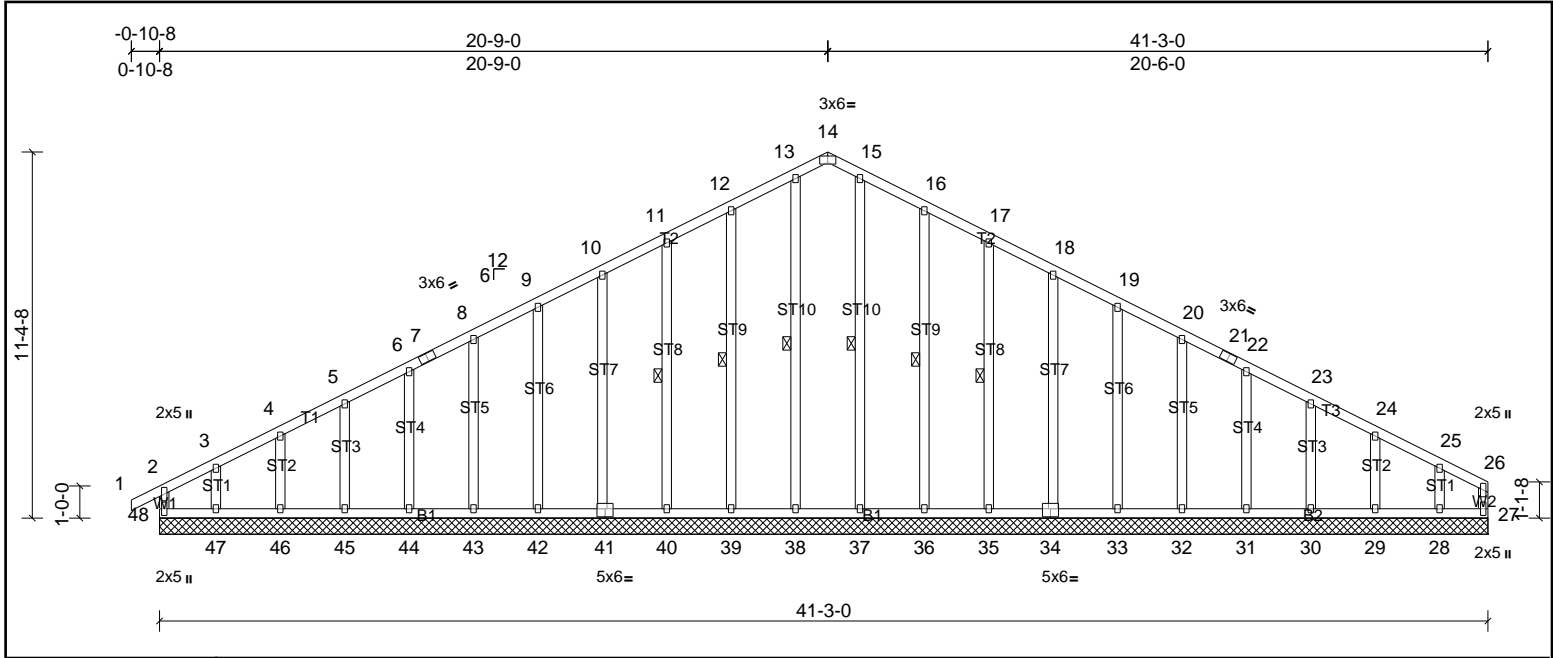


Plate Offsets (X, Y): [14:0-3-0,Edge], [34:0-3-0,0-3-0], [41:0-3-0,0-3-0]

| 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 | 0.23 | 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 | 0.13 | Horz(CT) | 0.01 | 27 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 307 lb | FT = 20% |

| LUMBER | BRACING |
|-----------------------|-------------------------------------------------------------------------------------------------|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | WEBS 1 Row at midpt |
| OTHERS 2x4 SP No.3 | |

REACTIONS All bearings 41-3-0.
 (lb) - Max Horiz 48=173 (LC 7)
 Max Uplift All uplift 100 (lb) or less at joint(s) 27, 29, 30, 31, 32, 33, 34, 35, 36, 39, 40, 41, 42, 43, 44, 45, 46, 48 except 28=171 (LC 11), 47=176 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint(s) 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 10-11=-108/261, 11-12=-124/308, 12-13=-148/376, 13-14=-130/324, 14-15=-130/324, 15-16=-148/376, 16-17=-124/308, 17-18=-108/261

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=35ft; 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 2x3 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 48, 27, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33, 32, 31, 30, 29 except (j=lb) 47=176, 28=170.
 - 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.



| | | | | | |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss B1G | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, r thomas

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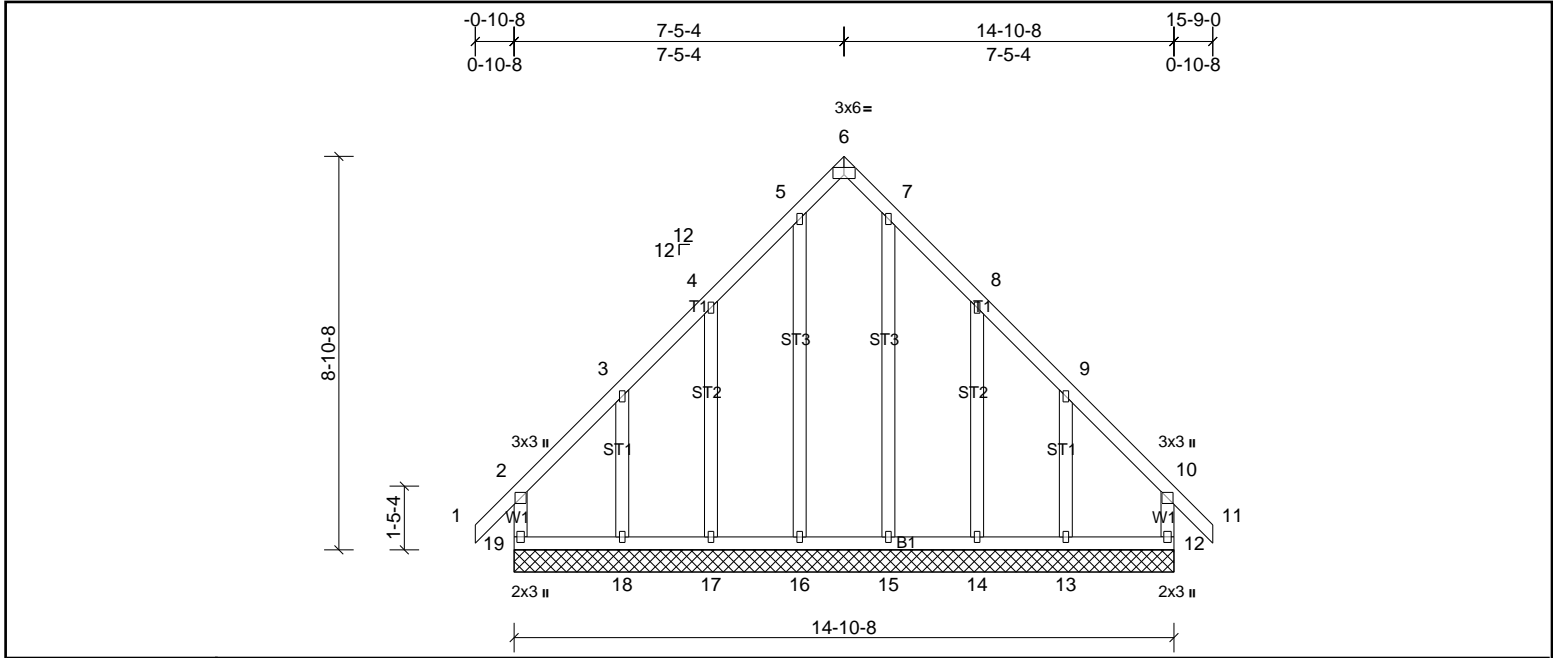


Plate Offsets (X, Y): [6:0-3-0,Edge]

| 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 | 0.25 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 108 lb | FT = 20% |

| LUMBER | | BRACING | |
|-----------|-------------|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 2x4 SP No.3 | | |
| OTHERS | 2x4 SP No.3 | | |

| REACTIONS | |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| All bearings | 14-10-8. |
| (lb) - Max Horiz | 19=-261 (LC 8) |
| Max Uplift | All uplift 100 (lb) or less at joint(s) except 12=-107 (LC 7), 13=-225 (LC 11), 14=-133 (LC 11), 17=-131 (LC 10), 18=-228 (LC 10), 19=-118 (LC 6) |
| Max Grav | All reactions 250 (lb) or less at joint(s) 12, 14, 15, 16, 17, 19 except 13=276 (LC 18), 18=281 (LC 17) |

| FORCES | |
|-----------|------------------------------------------------------------------------------------------------------------|
| TOP CHORD | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 4-5=-226/302, 7-8=-226/302 |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 19, 107 lb uplift at joint 12, 131 lb uplift at joint 17, 227 lb uplift at joint 18, 132 lb uplift at joint 14 and 225 lb uplift at joint 13.
 - 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.



| | | | | | |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss B2L | Truss Type Truss | Qty 1 | Ply 2 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|

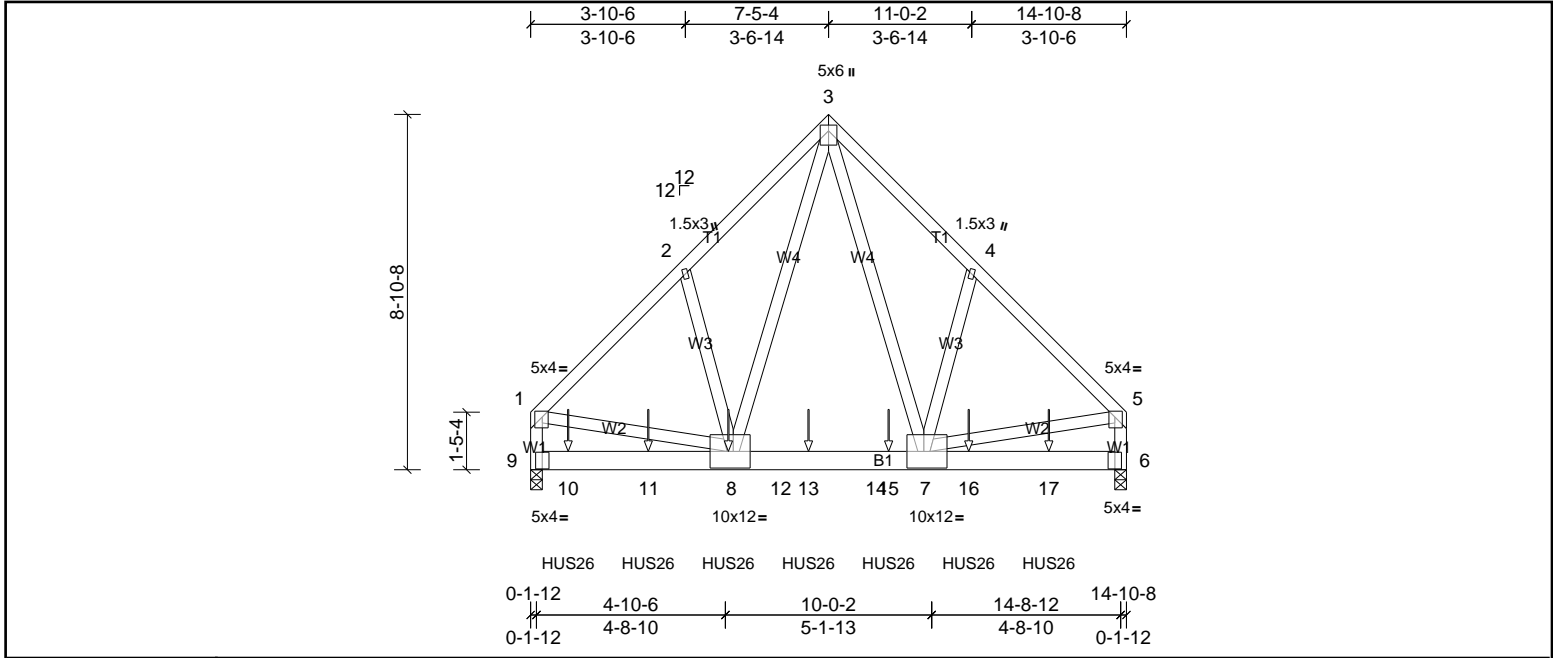


Plate Offsets (X, Y): [1:0-1-12,Edge], [3:0-1-12,0-2-8], [5:0-1-12,Edge]

| 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 | 0.76 | Vert(LL) | -0.06 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.86 | Vert(CT) | -0.12 | 7-8 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.79 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 244 lb | FT = 20% |

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except* W1:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

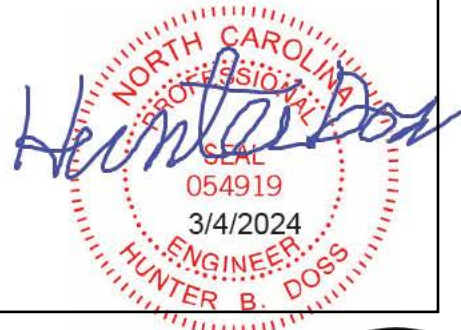
REACTIONS
(lb/size) 6=5865/0-3-8, (min. 0-1-8), 9=6626/0-3-8, (min. 0-1-8)
Max Horiz 9=232 (LC 5)
Max Uplift 6=820 (LC 8), 9=928 (LC 9)

FORCES
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5482/816, 2-3=-5378/917, 3-4=-5354/913, 4-5=-5457/812, 1-9=-4704/685, 5-6=-4695/684
BOT CHORD 9-10=-298/722, 10-11=-298/722, 8-11=-298/722, 8-12=-393/2723, 12-13=-393/2723, 13-14=-393/2723, 14-15=-393/2723, 7-15=-393/2723, 7-16=-104/540, 16-17=-104/540, 6-17=-104/540
WEBS 3-7=-684/3760, 4-7=-180/266, 3-8=-692/3822, 2-8=-180/267, 1-8=-434/3299, 5-7=-441/3337

- NOTES**
- 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 0-5-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=35ft; 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, with BCDL = 10.0psf.
 - Bearing at joint(s) 9, 6 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 928 lb uplift at joint 9 and 820 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.
 - Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-4 from the left end to 12-11-4 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 8=-1618 (F), 10=-1620 (F), 11=-1618 (F), 13=-1618 (F), 15=-1618 (F), 16=-1618 (F), 17=-1618 (F)



| | | | | | |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss C1 | Truss Type Truss | Qty 3 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

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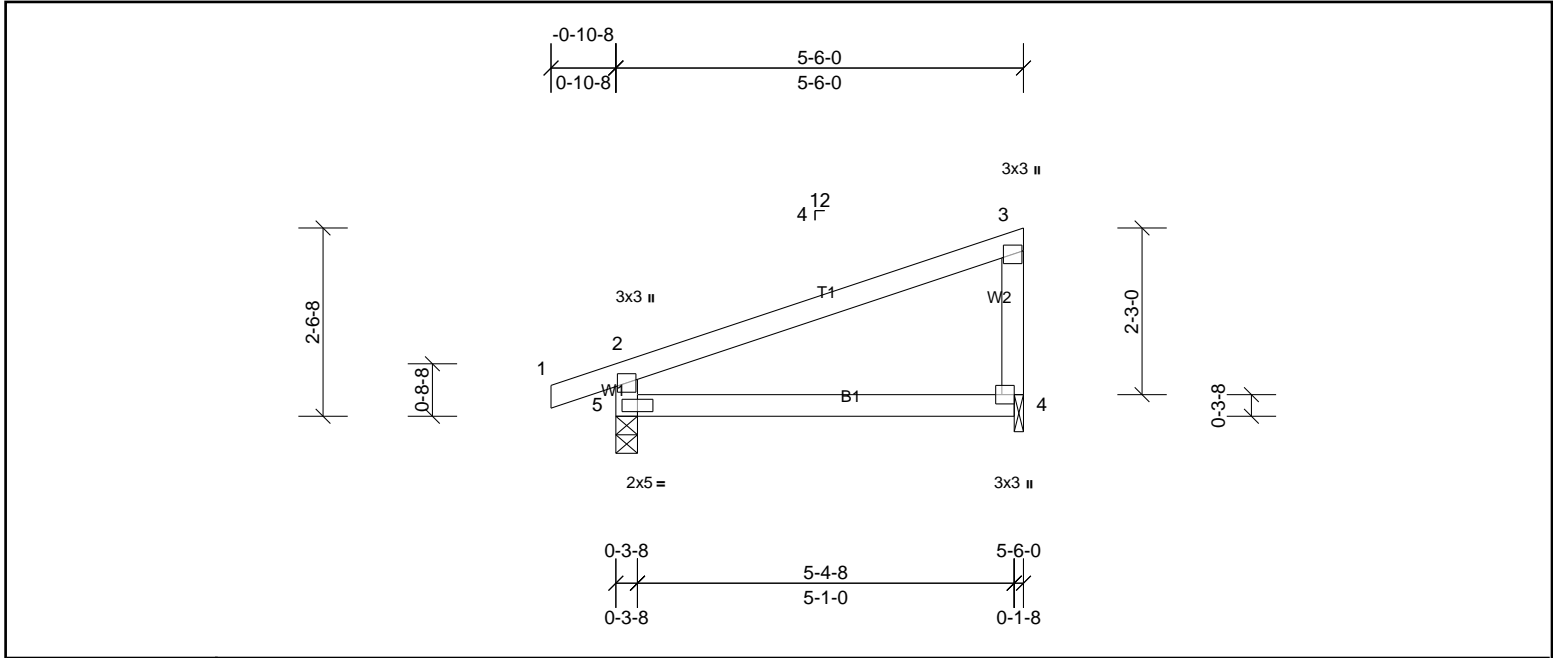


Plate Offsets (X, Y): [4:Edge,0-2-0]

| 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) | -0.03 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.06 | 4-5 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 21 lb | FT = 20% |

| LUMBER | | BRACING | |
|-----------|-------------|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 2x4 SP No.3 | | |

REACTIONS

| | |
|------------|------------------------------------------------------|
| (lb/size) | 4=202/0-1-8, (min. 0-1-8), 5=276/0-3-8, (min. 0-1-8) |
| Max Horiz | 5=81 (LC 6) |
| Max Uplift | 4=59 (LC 10), 5=71 (LC 6) |

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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.
 - 4) Bearing at joint(s) 5, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 5 and 59 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.



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.



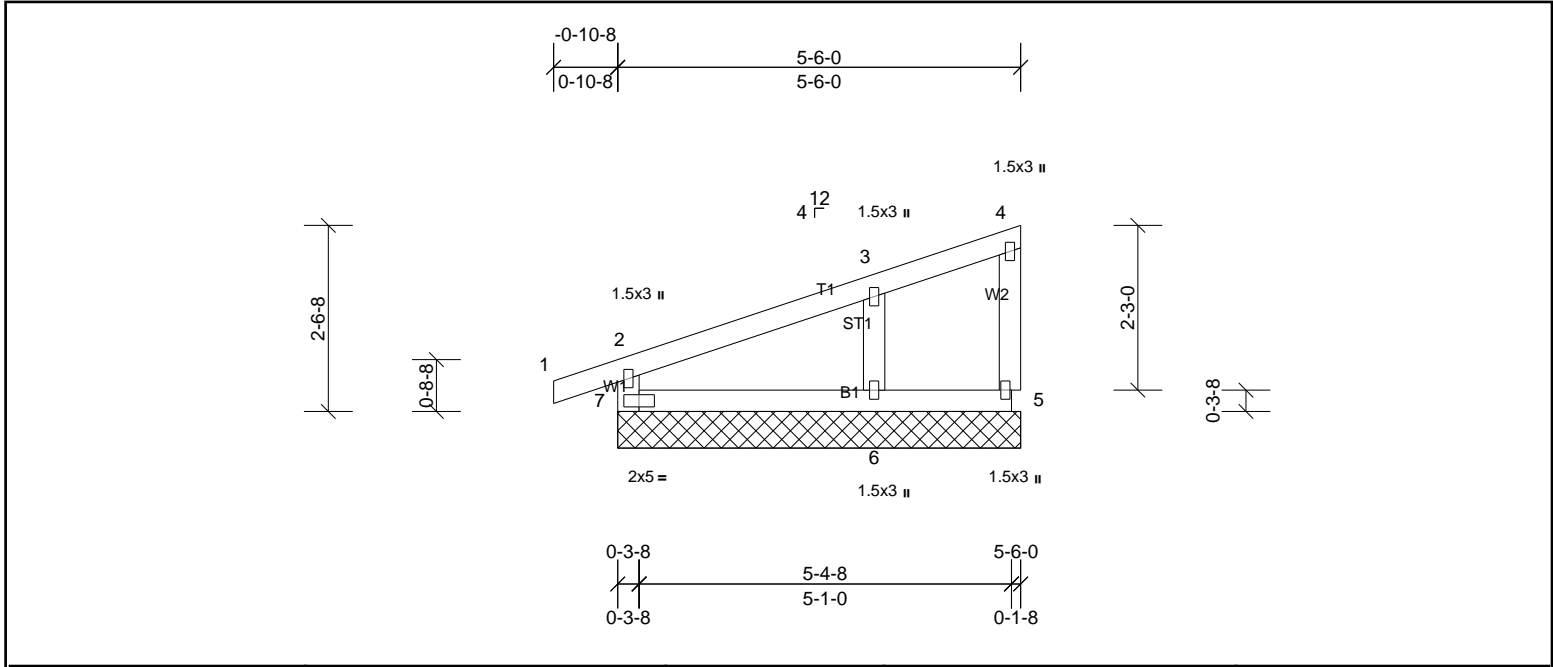
| | | | | | |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss C1G | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|

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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 | 0.12 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 23 lb | FT = 20% |

| LUMBER | | BRACING | |
|-----------|-------------|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 2x4 SP No.3 | | |
| OTHERS | 2x4 SP No.3 | | |

REACTIONS (lb/size) 5=37/5-6-0, (min. 0-1-8), 6=257/5-6-0, (min. 0-1-8), 7=184/5-6-0, (min. 0-1-8)

Max Horiz 7=81 (LC 6)

Max Uplift 5=8 (LC 6), 6=80 (LC 10), 7=44 (LC 6)

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 7, 8 lb uplift at joint 5 and 80 lb uplift at joint 6.
 - 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.



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 72406502 | Truss C2 | Truss Type Truss | Qty 3 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

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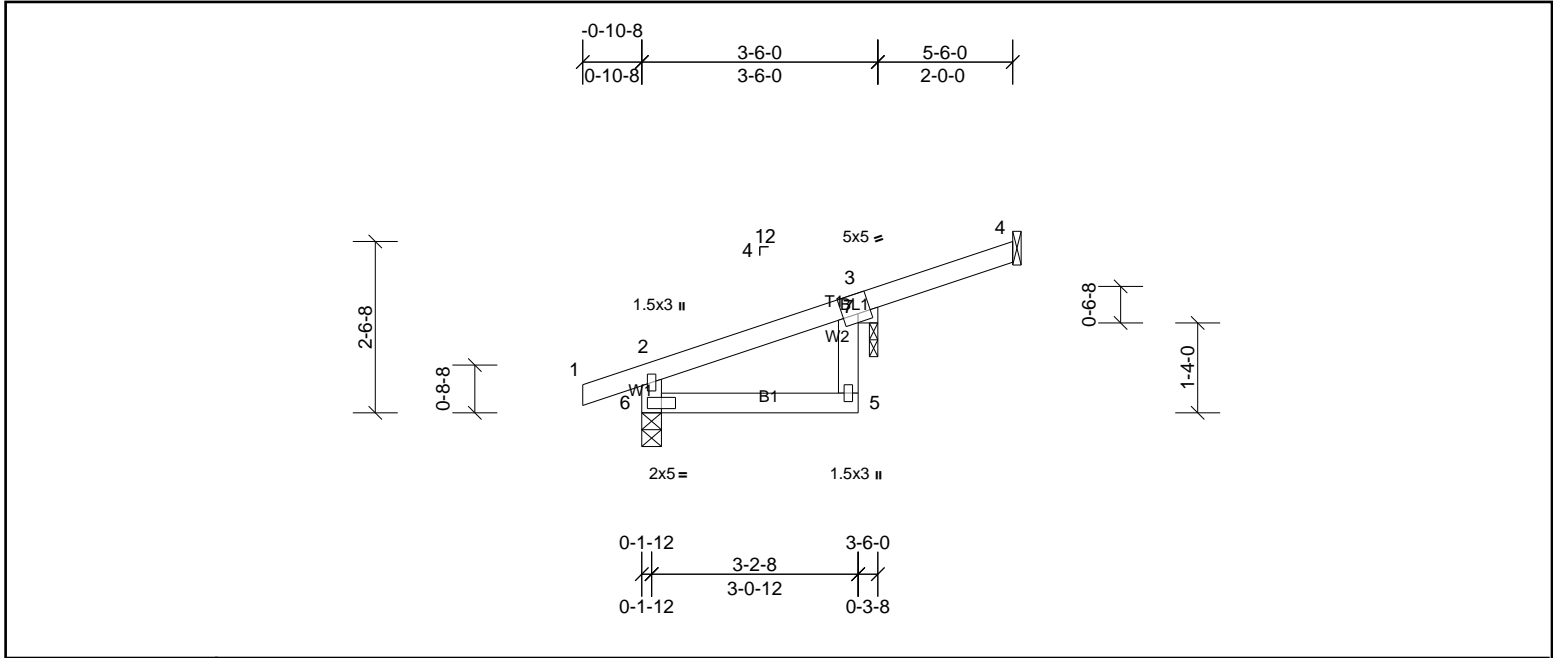


Plate Offsets (X, Y): [3:0-2-4,Edge]

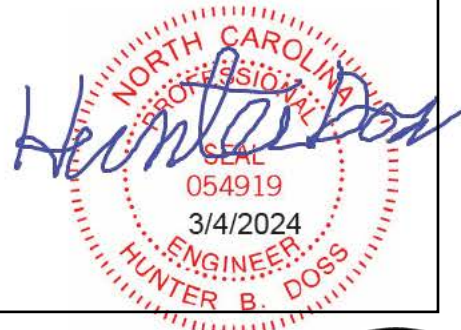
| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFLL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|-------|----------|-------|--------|------|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.12 | Vert(LL) | 0.00 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | -0.01 | 5-6 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 17 lb | FT = 20% |

| LUMBER | | BRACING | |
|-----------|-------------|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 2x4 SP No.3 | | |
| OTHERS | 2x4 SP No.3 | | |

REACTIONS (lb/size) 4=53/ Mechanical, (min. 0-1-8), 6=174/0-3-8, (min. 0-1-8), 7=211/0-1-8, (min. 0-1-8)
 Max Horiz 6=86 (LC 12)
 Max Uplift 4=30 (LC 12), 6=43 (LC 8), 7=103 (LC 12)

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vas=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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.
 - 4) Bearing at joint(s) 7, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4, 103 lb uplift at joint 7 and 43 lb uplift at joint 6.
 - 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.



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.



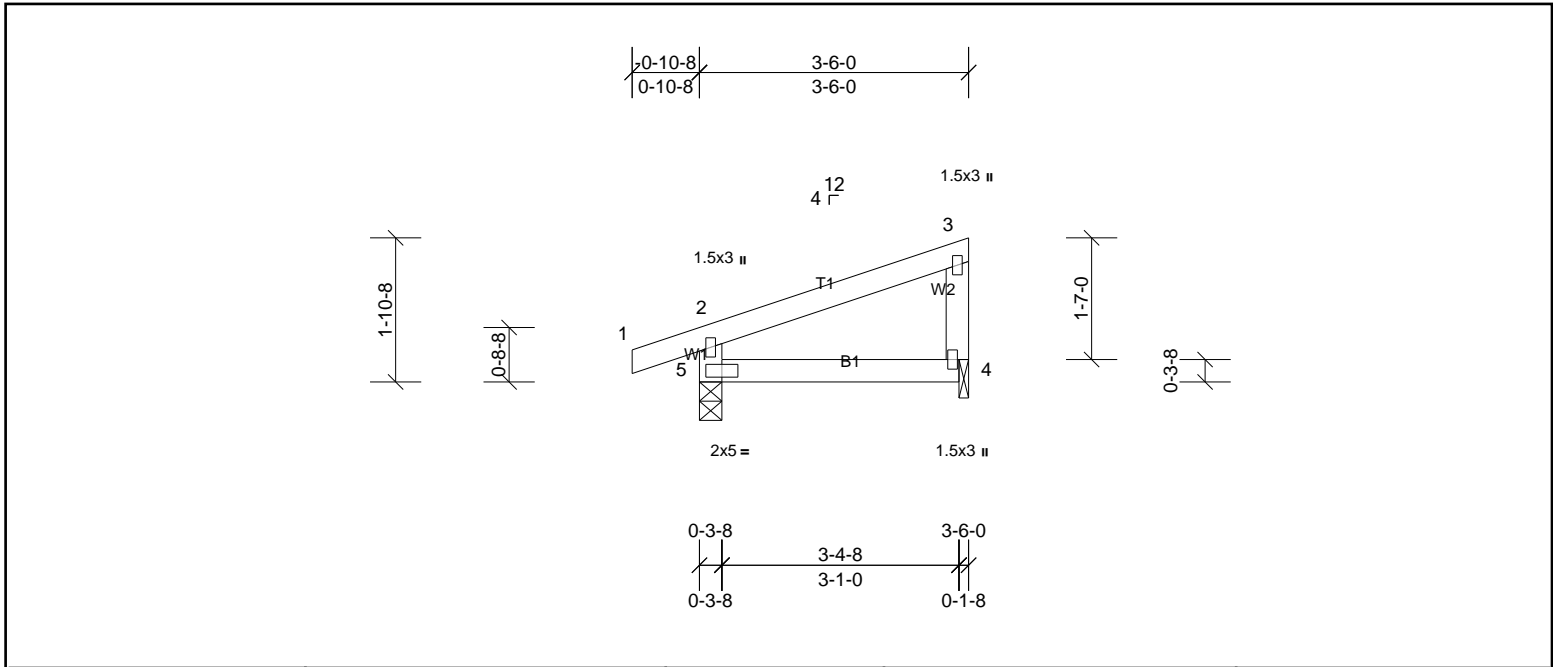
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| Job 72406502 | Truss C3 | Truss Type Truss | Qty 7 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

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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) | 0.00 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | -0.01 | 4-5 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 14 lb | FT = 20% |

| LUMBER | | BRACING | |
|-----------|-------------|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 2x4 SP No.3 | | |

| REACTIONS | (lb/size) | 4=119/0-1-8, (min. 0-1-8), 5=199/0-3-8, (min. 0-1-8) |
|------------|---------------------------|------------------------------------------------------|
| Max Horiz | 5=54 (LC 6) | |
| Max Uplift | 4=37 (LC 10), 5=61 (LC 6) | |

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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.
 - 4) Bearing at joint(s) 5, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 5 and 37 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.



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.



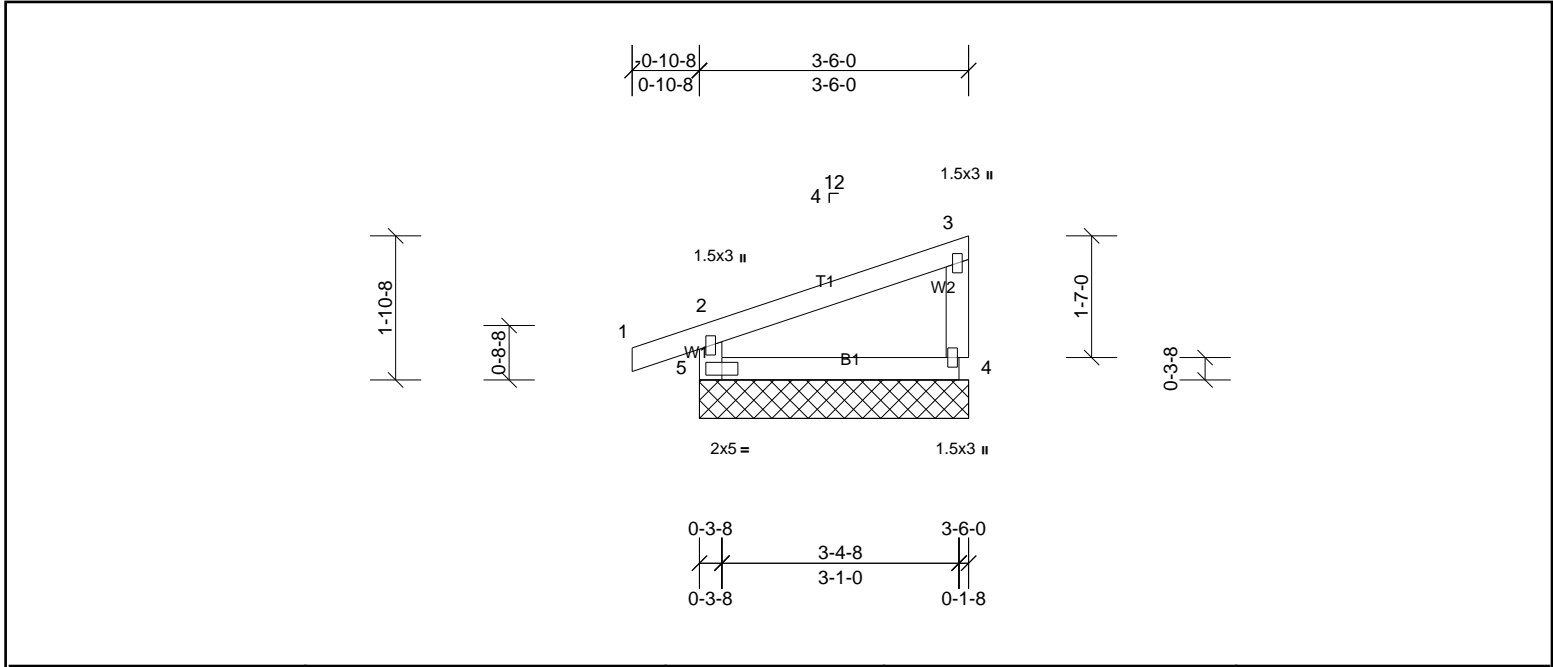
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|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss C3G | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|

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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 | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 14 lb | FT = 20% |

| LUMBER | | BRACING | |
|-----------|-------------|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 2x4 SP No.3 | | |

| REACTIONS | (lb/size) | 4=119/3-6-0, (min. 0-1-8), 5=199/3-6-0, (min. 0-1-8) |
|------------|---------------------------|------------------------------------------------------|
| Max Horiz | 5=54 (LC 6) | |
| Max Uplift | 4=37 (LC 10), 5=61 (LC 6) | |

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 5 and 37 lb uplift at joint 4.
 - 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.



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 72406502 | Truss D1 | Truss Type Truss | Qty 4 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

UFPI Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, r thomas

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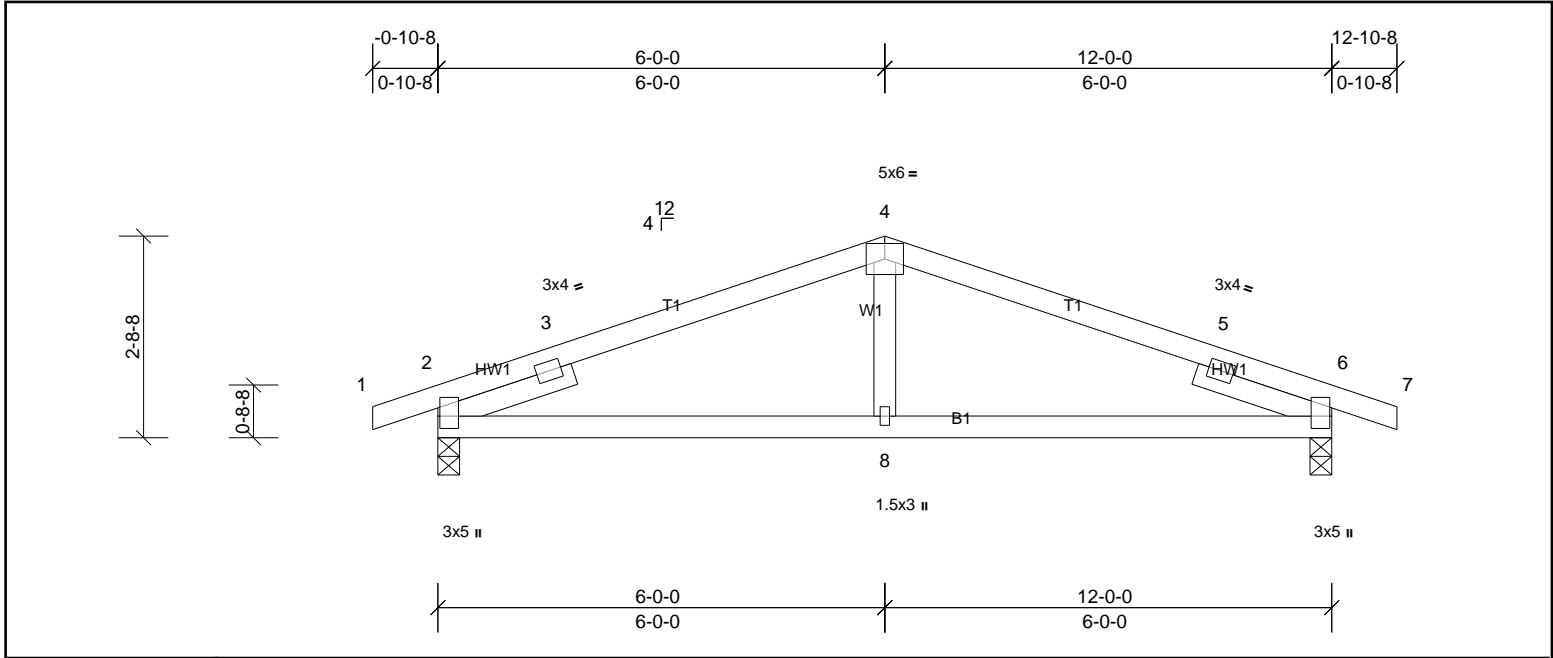


Plate Offsets (X, Y): [2:0-2-0,0-0-5], [6:0-3-5,0-0-5]

| 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 | 0.36 | Vert(LL) | -0.04 | 8-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.06 | 8-15 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 49 lb | FT = 20% |

| LUMBER | | BRACING | |
|-----------|---------------------------------------------------------|-----------|-----------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 2x4 SP No.3 | | |
| SLIDER | Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0 | | |

| REACTIONS | (lb/size) | 2=533/0-3-8, (min. 0-1-8), 6=533/0-3-8, (min. 0-1-8) |
|-----------|------------|------------------------------------------------------|
| | Max Horiz | 2=40 (LC 11) |
| | Max Uplift | 2=113 (LC 6), 6=113 (LC 7) |

| FORCES | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
|-----------|------------------------------------------------------------------------------|
| TOP CHORD | 2-3=-331/0, 3-4=-691/250, 4-5=-691/250, 5-6=-314/0 |
| BOT CHORD | 2-8=-160/655, 6-8=-149/655 |

- 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=35ft; 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 113 lb uplift at joint 2 and 113 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.



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 72406502 | Truss D1G | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|--------------|---------------------|----------|----------|-----------------------------------------------------------------|

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, r thomas

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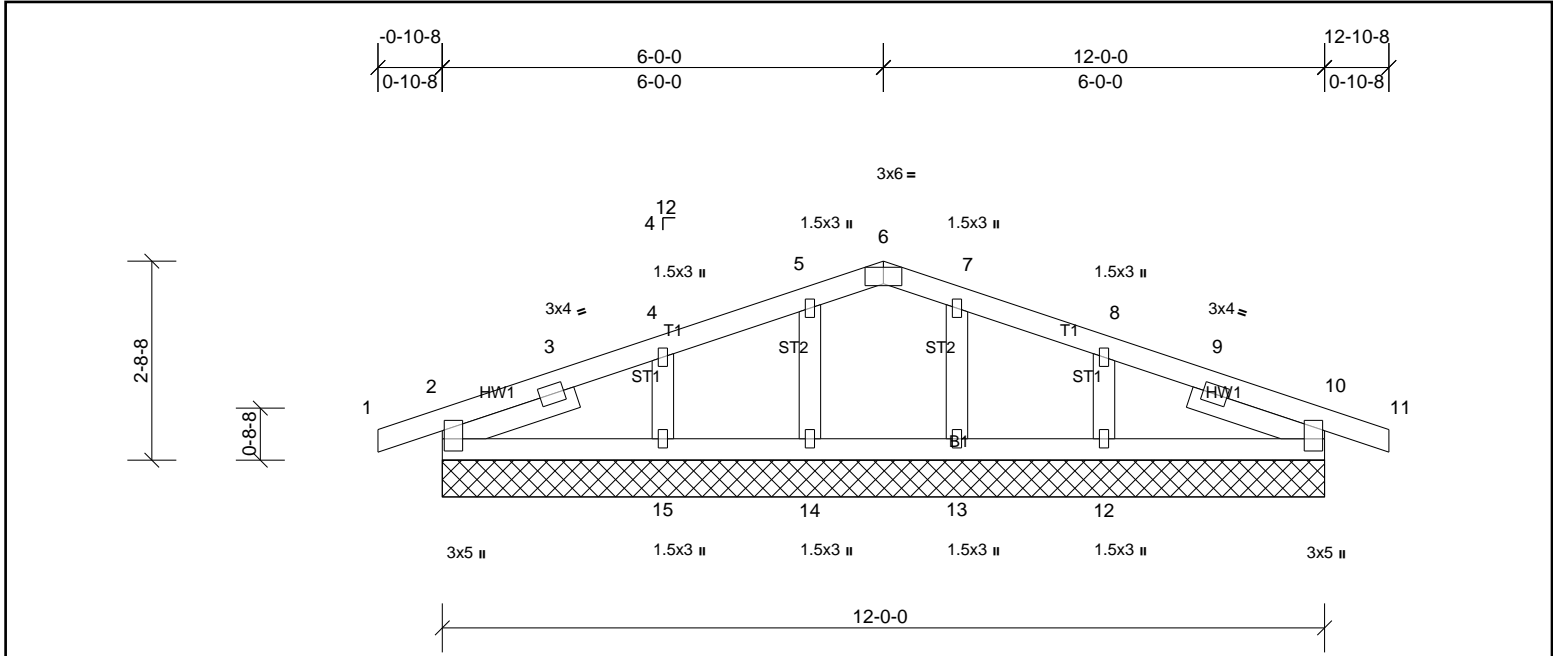


Plate Offsets (X, Y): [2:0-2-0,0-0-5], [6:0-3-0,Edge], [10:0-3-5,0-0-5]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFLL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|------------|-------|----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 54 lb | FT = 20% |

| LUMBER | BRACING |
|----------------------------------------------------------------|---------------------------------------------------------------------------|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |
| SLIDER Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0 | |

REACTIONS All bearings 12-0-0.
 (lb) - Max Horiz 2=-40 (LC 11), 16=-40 (LC 11)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 10, 12, 13, 14, 15, 16, 20
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 10, 12, 13, 14, 15, 16, 20

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; TC DL=6.0psf; BCDL=6.0psf; h=35ft; 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.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 14, 13, 15, 12, 2, 10.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10, 16, 20.
 - 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.



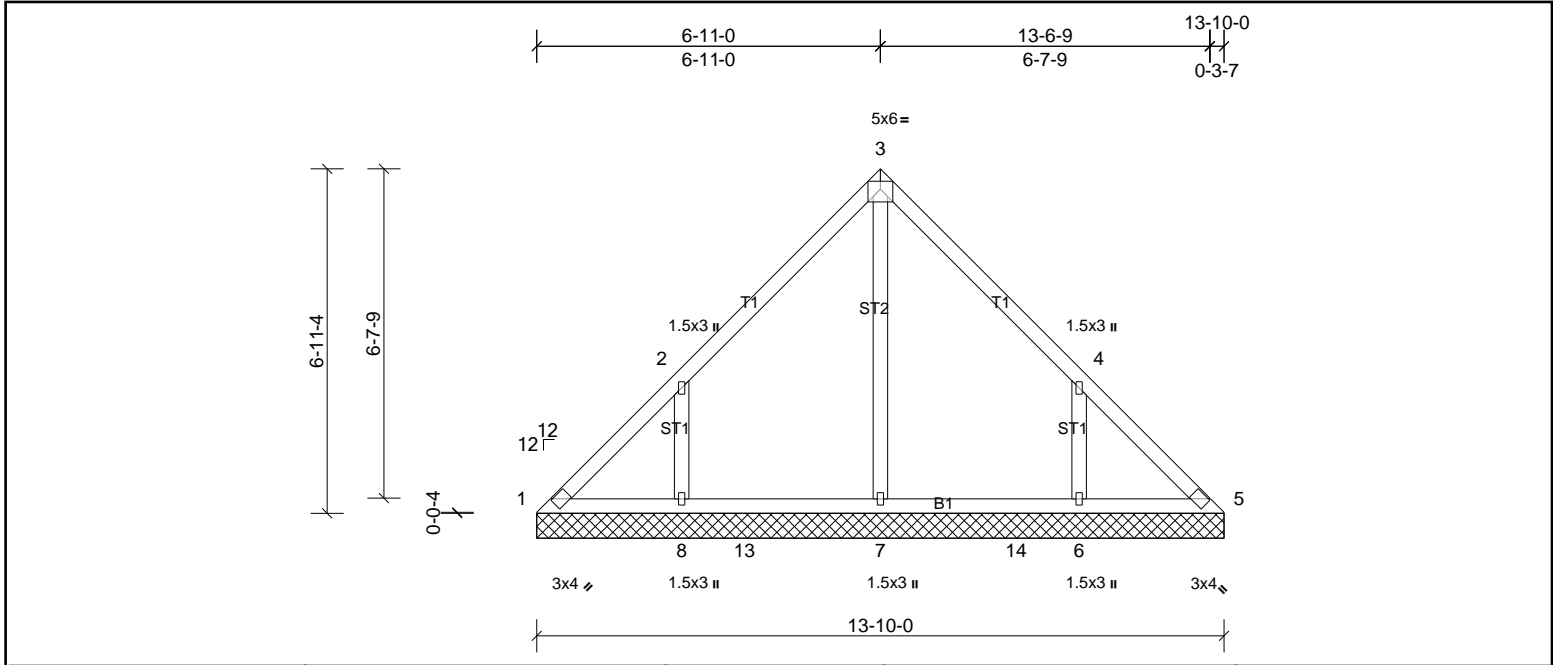
| | | | | | |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss V1 | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

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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 | 0.19 | Vert(LL) | n/a | - | n/a | 999 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(TL) | n/a | - | n/a | 999 | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.15 | Horiz(TL) | 0.00 | 5 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | Weight: 65 lb | FT = 20% |

| LUMBER | BRACING |
|-----------------------|---------------------------------------------------------------------------|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

| REACTIONS |
|-------------------------------------------------------------------------------------------------------------|
| All bearings 13-10-0. |
| (lb) - Max Horiz 1=-174 (LC 6) |
| Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-218 (LC 11), 8=-223 (LC 10) |
| Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=396 (LC 18), 7=372 (LC 17), 8=402 (LC 17) |

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

- WEBS**
2-8=-326/264, 4-6=-326/262
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; 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, with BCDL = 10.0psf.
 - 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=223, 6=218.
 - 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.



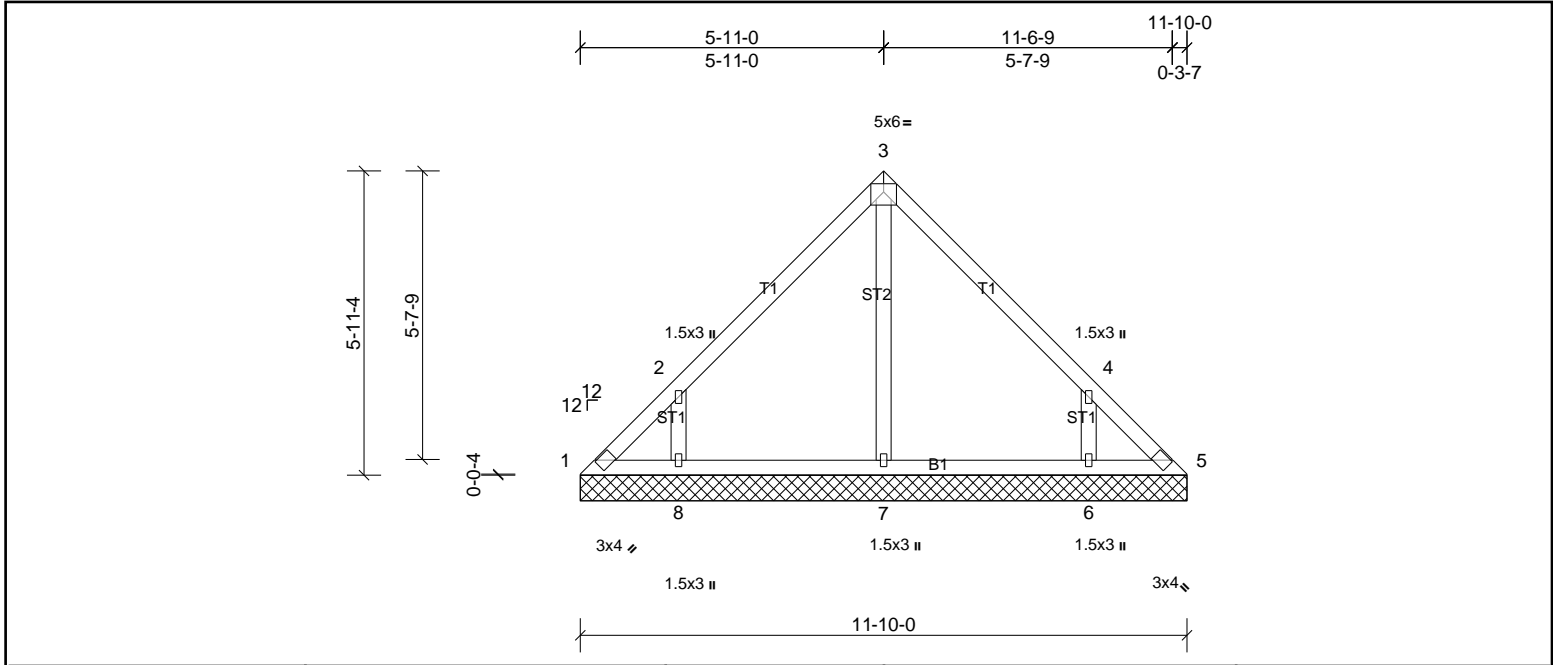
| | | | | | |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss V2 | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

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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 | 0.19 | 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 | 0.08 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 53 lb | FT = 20% |

| LUMBER | BRACING |
|-----------------------|---------------------------------------------------------------------------|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

| REACTIONS |
|-------------------------------------------------------------------------------------------------|
| All bearings 11-10-0. |
| (lb) - Max Horiz 1=-148 (LC 8) |
| Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-197 (LC 11), 8=-203 (LC 10) |
| Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 7 except 6=339 (LC 18), 8=345 (LC 17) |

| FORCES |
|------------------------------------------------------------------------------|
| (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| WEBS 2-8=-327/270, 4-6=-327/268 |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; 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=203, 6=197.
 - 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.



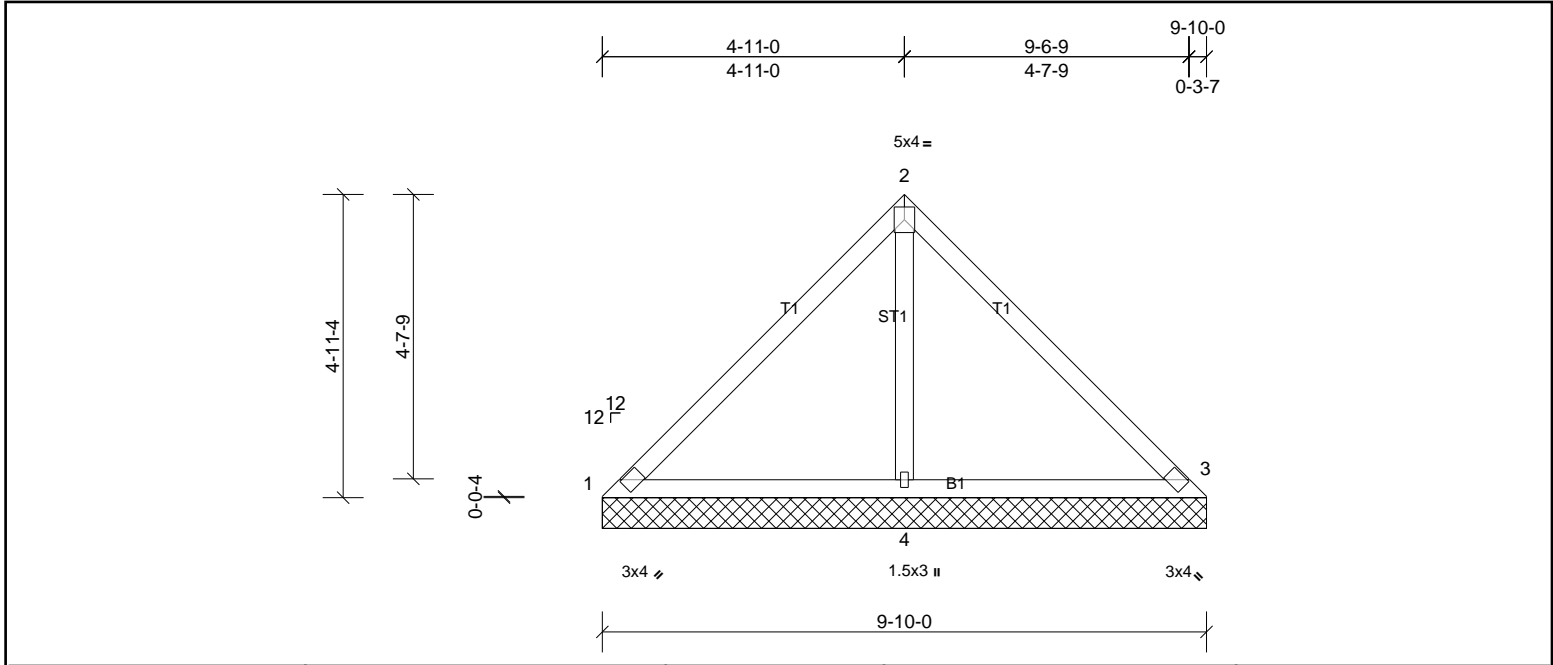
| | | | | | |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|
| Job 72406502 | Truss V3 | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

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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 | 0.28 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.17 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 40 lb | FT = 20% |

| LUMBER | | BRACING | |
|-----------|-------------|-----------|------------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 9-10-0 oc purlins. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| OTHERS | 2x4 SP No.3 | | |

| REACTIONS | (lb/size) | 1=106/9-10-0, (min. 0-1-8), 3=86/9-10-0, (min. 0-1-8), 4=569/9-10-0, (min. 0-1-8) |
|------------|---------------------------------------------|-----------------------------------------------------------------------------------|
| Max Horiz | 1=122 (LC 7) | |
| Max Uplift | 1=-29 (LC 6), 3=-36 (LC 6), 4=-184 (LC 10) | |
| Max Grav | 1=131 (LC 18), 3=147 (LC 22), 4=597 (LC 17) | |

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-428/191

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; 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 29 lb uplift at joint 1, 36 lb uplift at joint 3 and 184 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.



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 72406502 | Truss V4 | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

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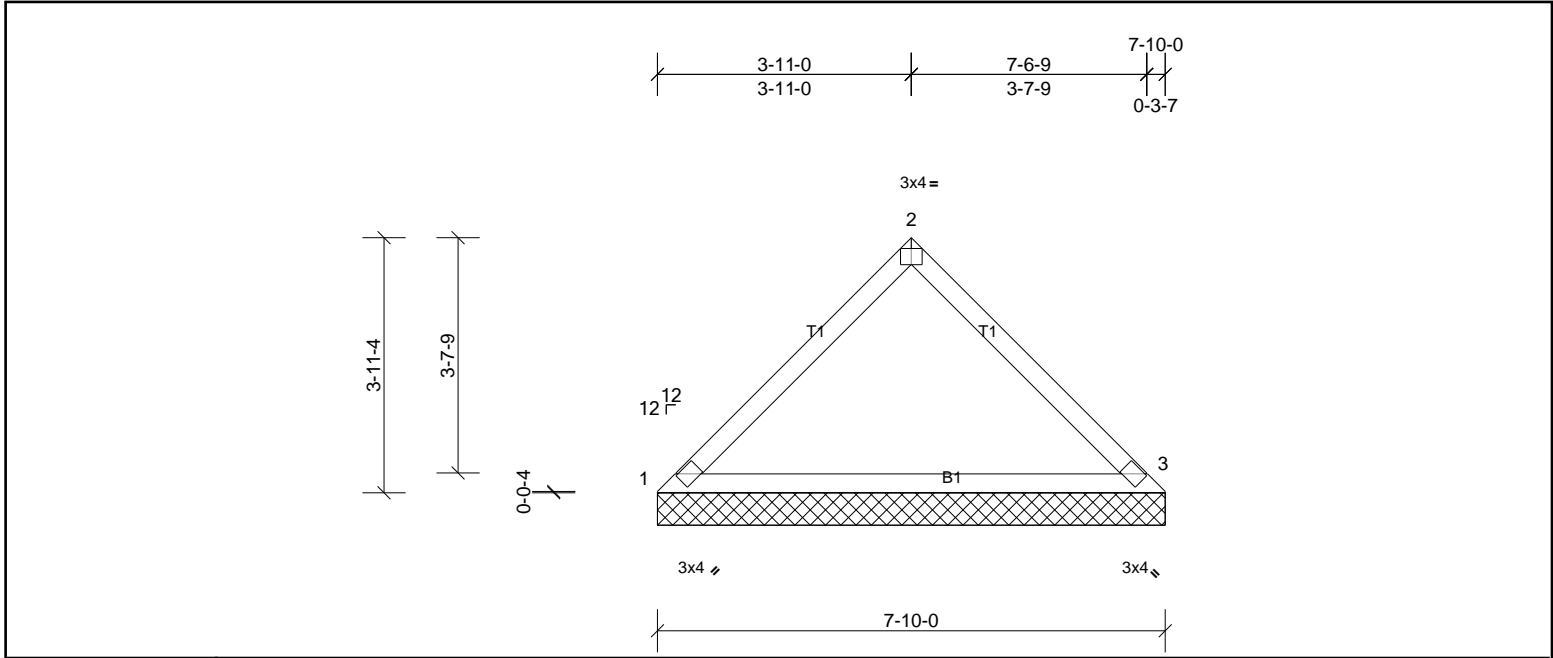


Plate Offsets (X, Y): [2:0-2-0,Edge]

| 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 | 0.37 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.37 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 27 lb | FT = 20% |

| LUMBER | BRACING |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| REACTIONS | |
| (lb/size) 1=300/7-10-0, (min. 0-1-8), 3=300/7-10-0, (min. 0-1-8) | |
| Max Horiz 1=96 (LC 7) | |
| Max Uplift 1=-30 (LC 10), 3=-30 (LC 10) | |
| FORCES | |
| (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | |
| TOP CHORD 1-2=-402/89 | |
| BOT CHORD 1-3=-75/304 | |

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; 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 30 lb uplift at joint 1 and 30 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.



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 72406502 | Truss V5 | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

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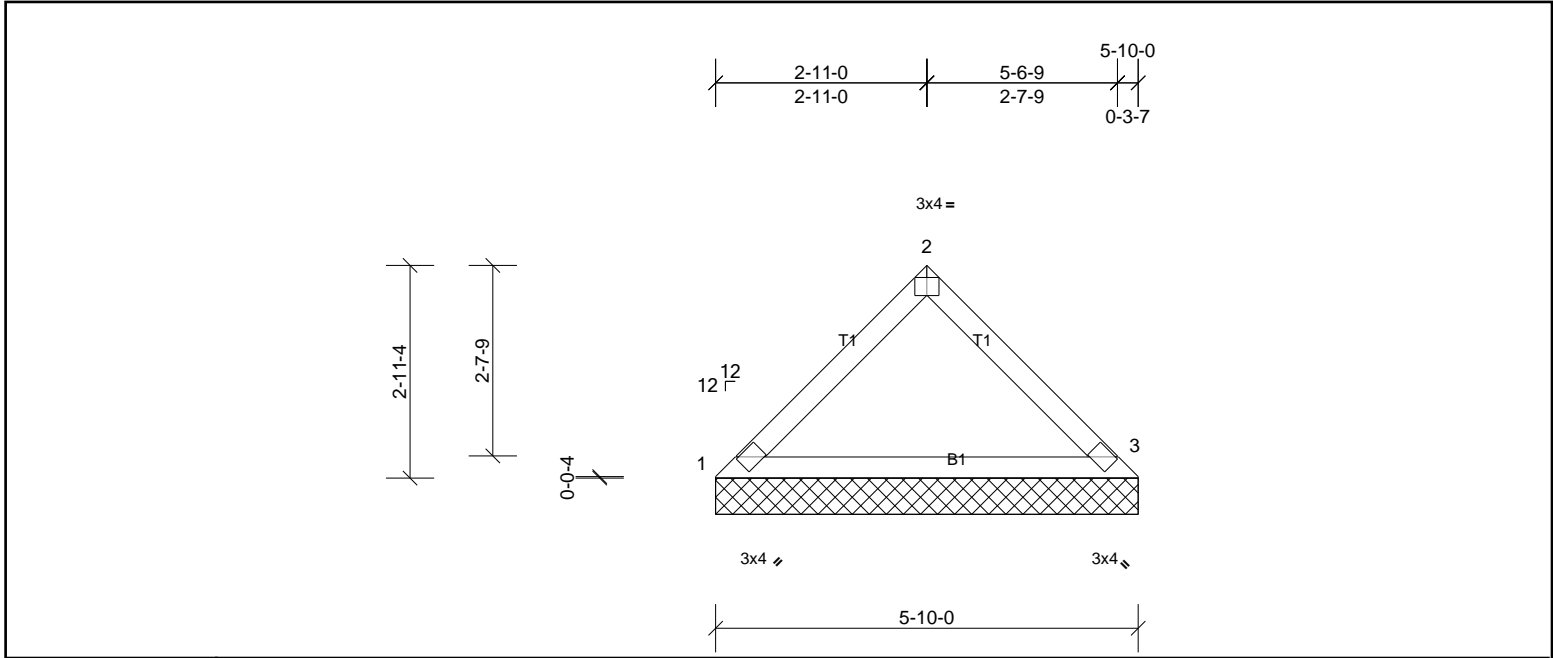


Plate Offsets (X, Y): [2:0-2-0,Edge]

| 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 | 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | Weight: 20 lb | FT = 20% |

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

| REACTIONS | |
|------------|--------------------------------------------------------|
| (lb/size) | 1=220/5-10-0, (min. 0-1-8), 3=220/5-10-0, (min. 0-1-8) |
| Max Horiz | 1=70 (LC 7) |
| Max Uplift | 1=-23 (LC 10), 3=-22 (LC 10) |

| FORCES | |
|-----------|---------------------------------------------------------------------------------------------|
| TOP CHORD | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-287/68 |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=35ft; 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 23 lb uplift at joint 1 and 22 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.



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 72406502 | Truss V6 | Truss Type Truss | Qty 1 | Ply 1 | Professional / Smithfield EC - roof Job Reference (optional) |
|-----------------|-------------|---------------------|----------|----------|-----------------------------------------------------------------|

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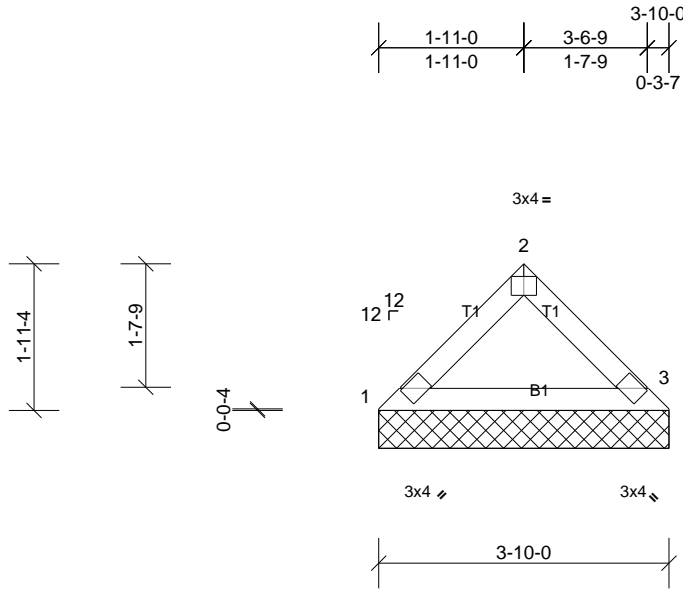


Plate Offsets (X, Y): [2:0-2-0,Edge]

| 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 | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 13 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

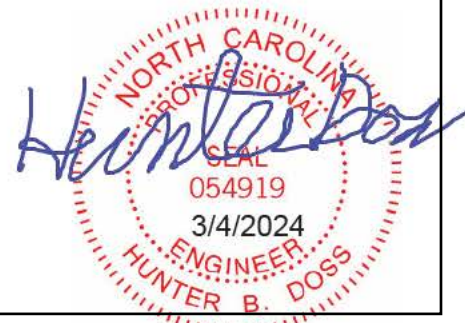
(lb/size) 1=140/3-10-0, (min. 0-1-8), 3=140/3-10-0, (min. 0-1-8)
Max Horiz 1=44 (LC 7)
Max Uplift 1=-15 (LC 10), 3=-15 (LC 10)

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=35ft; 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 15 lb uplift at joint 1 and 15 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.



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.

