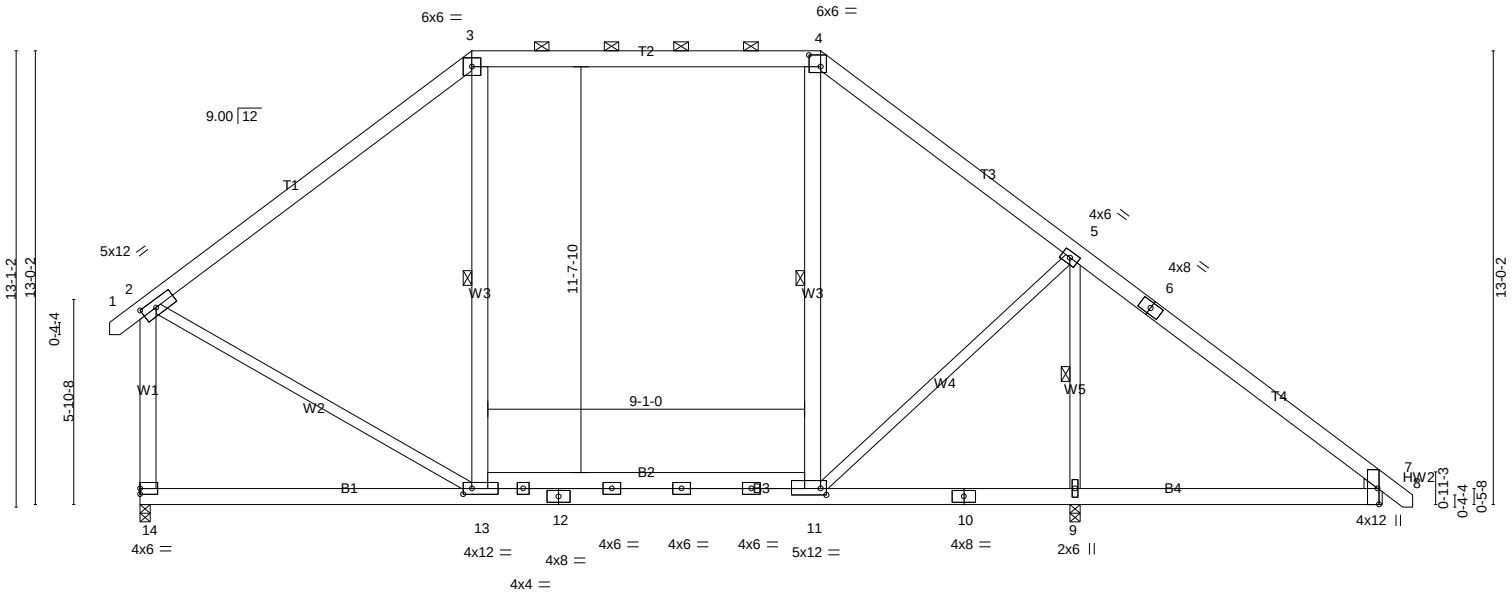
| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | A1 | PIGGYBACK BASE | 4 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:26 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-9eoGMmfNb8wwiZbd8QR3i4HXE8gHUzvL_opJZbzaPaV

| -0-10-8 | 9-6-3 | 19-6-3 | 26-9-12 | 35-7-8 | 36-6-0 |
|---|---|---|---|---|---|
| 0-10-8 | 9-6-3 | 10-0-0 | 7-3-9 | 8-9-12 | 0-10-8 |

Scale = 1:66.1




| 9-6-3 | 19-6-3 | 26-9-12 | 35-7-8 |
|---|---|---|---|
| 9-6-3 | 10-0-0 | 7-3-9 | 8-9-12 |

Plate Offsets (X,Y)-- [2:0-5-0,0-2-8], [4:0-4-0,0-4-0], [7:0-5-8,Edge], [11:0-2-0,0-2-4], [13:0-3-0,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.51 | Vert(LL) | -0.27 | 13-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.81 | Vert(CT) | -0.56 | 13-14 | >573 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.55 | Horz(CT) | 0.01 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.35 | 13-14 | >902 | 240 | Weight: 318 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
W2,W4,W5: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2

**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.): 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-13, 4-11, 5-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 14=990/0-3-8 (min. 0-1-8), 9=1943/0-3-8 (min. 0-2-11)
Max Horz 14=-286(LC 8)
Max Uplift14=-45(LC 12), 9=-87(LC 13)
Max Grav 14=1202(LC 25), 9=2265(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-791/160, 15-16=-688/163, 3-16=-633/205, 3-17=-521/258, 17-18=-521/258, 4-18=-521/258, 4-19=-628/212, 5-19=-707/165, 5-6=-406/741, 6-20=-443/568, 7-20=-464/556, 2-14=-928/235
BOT CHORD 14-21=-245/330, 13-21=-245/330, 12-13=-79/585, 11-12=-65/586, 10-11=-479/483, 9-10=-479/483, 9-22=-479/483, 7-22=-479/483
WEBS 2-13=-115/504, 4-11=-324/170, 5-11=-307/1251, 5-9=-1957/819

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 9-6-3, Exterior(2) 9-6-3 to 15-8-14, Interior(1) 15-8-14 to 19-6-3, Exterior(2) 19-6-3 to 25-8-14, Interior(1) 25-8-14 to 36-4-4 zone; cantilever 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 9.
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.

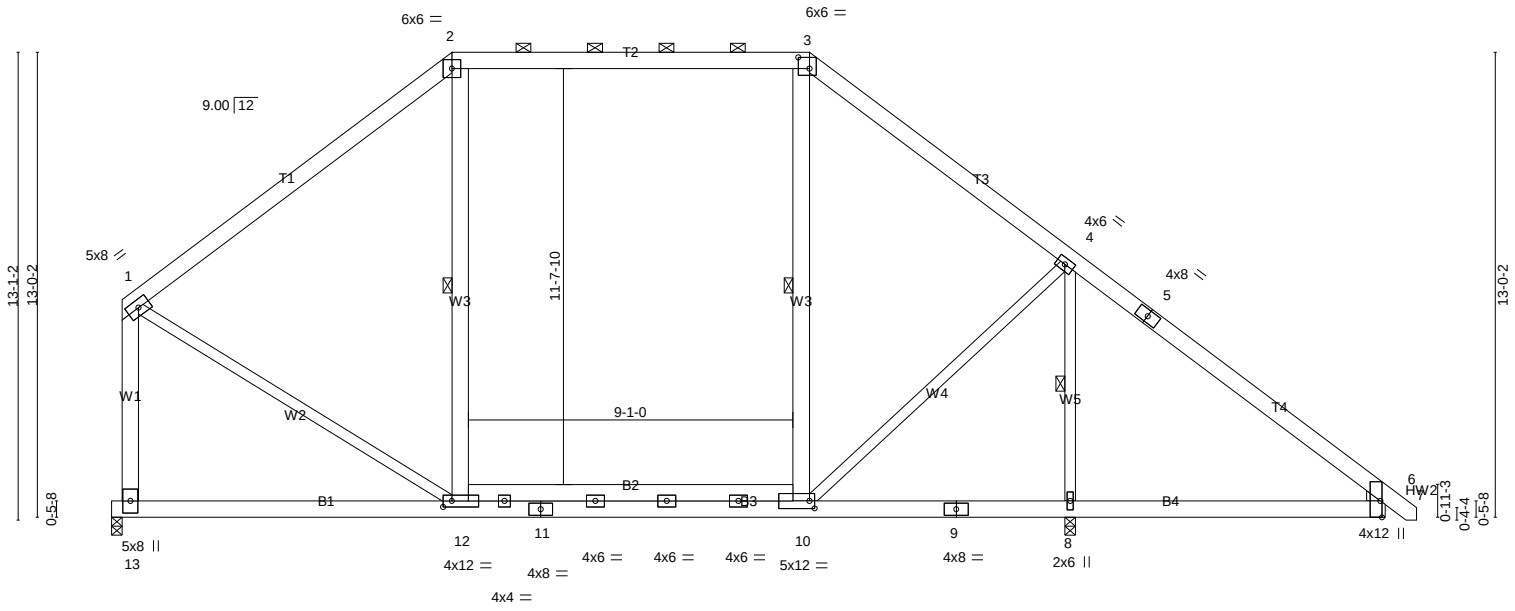
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | A1A | PIGGYBACK BASE | 2 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:26 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-9eoGMmfNb8wwiZbd8QR3i4HXH8gkUzDL_opJZbzaPaV

| 9-6-3 | 19-6-3 | 26-9-12 | 35-7-8 | 36-6-0 |
|---|---|---|---|---|
| 9-6-3 | 10-0-0 | 7-3-9 | 8-9-12 | 0-10-8 |

Scale: 3/16"=1'




| 9-6-3 | 19-6-3 | 26-9-12 | 35-7-8 |
|---|---|---|---|
| 9-6-3 | 10-0-0 | 7-3-9 | 8-9-12 |

Plate Offsets (X,Y)-- [3:0-3-12,0-3-12], [6:0-5-8,Edge], [10:0-1-12,0-2-8], [12:0-3-0,0-2-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.51 | Vert(LL) | -0.25 | 12-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.52 | 12-13 | >606 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.53 | Horz(CT) | 0.01 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.33 | 12-13 | >950 | 240 | Weight: 315 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
W2,W4,W5: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2

**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.): 2-3.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-12, 3-10, 4-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 8=1934/0-3-8 (min. 0-2-11), 13=918/0-3-8 (min. 0-1-8)
Max Horz 13=-296(LC 8)
Max Uplift8=-84(LC 13), 13=-34(LC 12)
Max Grav 8=2255(LC 2), 13=1150(LC 25)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-766/143, 14-15=-634/154, 2-15=-621/188, 2-16=-506/249, 16-17=-506/249, 3-17=-506/249, 3-18=-619/203, 4-18=-696/155, 4-5=-405/739, 5-19=-441/566, 6-19=-462/554, 1-13=-877/194
BOT CHORD 13-20=-236/329, 12-20=-236/329, 11-12=-76/577, 10-11=-63/579, 9-10=-478/482, 8-9=-478/482, 8-21=-478/482, 6-21=-478/482
WEBS 1-12=-115/517, 3-10=-326/172, 4-10=-296/1233, 4-8=-1940/807

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-4 to 4-11-1, Interior(1) 4-11-1 to 9-6-3, Exterior(2) 9-6-3 to 15-8-14, Interior(1) 15-8-14 to 19-6-3, Exterior(2) 19-6-3 to 25-8-14, Interior(1) 25-8-14 to 36-4-4 zone; cantilever 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 13.
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.

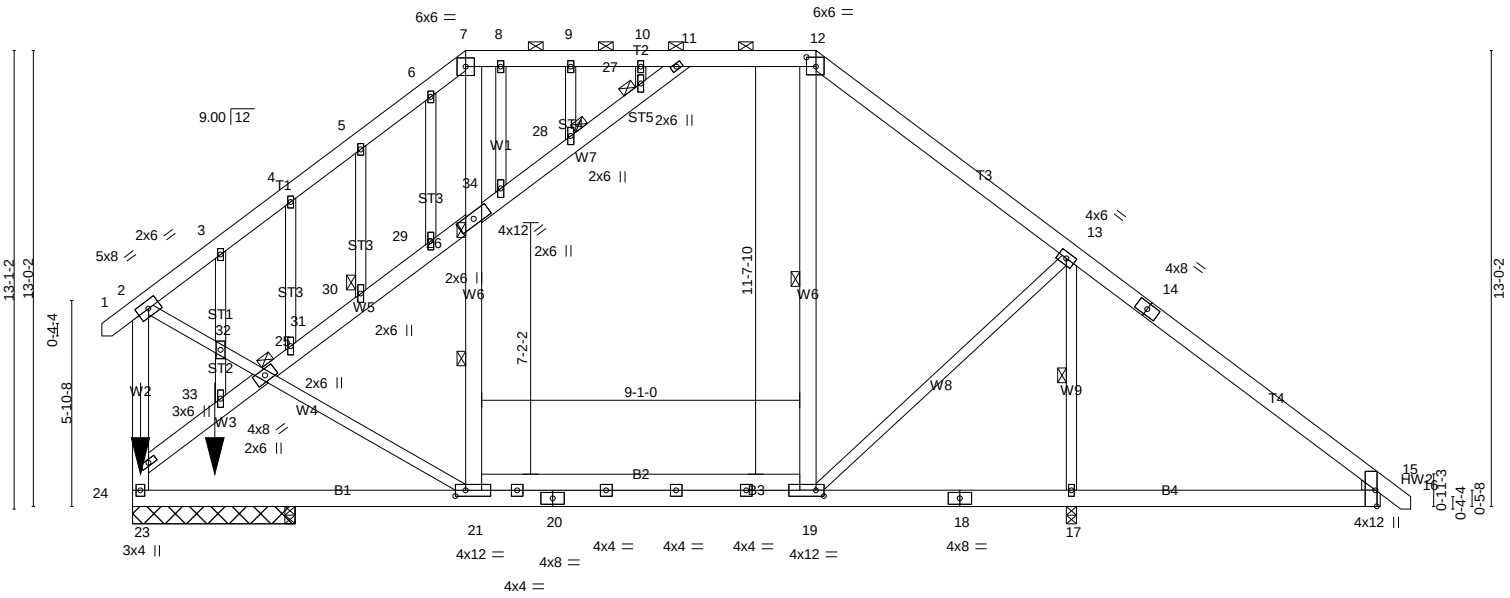
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | A1SG | GABLE | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:28 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-61w0nSgd7lAeytl0GrTXnVMscySvyvWeR6IQdUzaPaT

| -0-10-8 | 9-6-3 | 14-6-3 | 19-6-3 | 26-9-12 | 35-7-8 | 36-6-0 |
|---|---|---|---|---|---|---|
| 0-10-8 | 9-6-3 | 5-0-0 | 5-0-0 | 7-3-9 | 8-9-12 | 0-10-8 |

Scale = 1:65.8




| 4-4-4 | 9-6-3 | 19-6-3 | 26-9-12 | 35-7-8 |
|---|---|---|---|---|
| 4-4-4 | 5-1-15 | 10-0-0 | 7-3-9 | 8-9-12 |

Plate Offsets (X,Y)-- [12:0-3-4,0-3-4], [15:0-5-8,Edge], [19:0-2-12,0-2-0], [21:0-3-8,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.52 | Vert(LL) | -0.09 | 19-21 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.42 | Vert(CT) | -0.15 | 19-21 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.41 | Horz(CT) | 0.01 | 17 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.11 | 21 | >999 | 240 | Weight: 397 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except* W4,W8,W9,W1: 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 19-21.
WEBS 1 Row at midpt 21-26, 12-19, 13-17
JOINTS 1 Brace at Jt(s): 25, 26, 27, 28, 30

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 23=988/4-7-12 (min. 0-1-8), 17=1883/0-3-8 (min. 0-2-10), 22=472/0-3-8 (min. 0-1-8)
Max Horz 23=-391(LC 9)
Max Uplift 23=-307(LC 8), 17=-365(LC 28), 22=-165(LC 5)
Max Grav 23=1092(LC 21), 17=2206(LC 2), 22=472(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-692/91, 3-4=-707/177, 4-5=-783/308, 5-6=-728/335, 6-7=-638/313, 7-8=-615/351, 8-9=-609/348, 9-10=-609/348, 10-11=-609/348, 11-12=-413/239, 12-13=-593/221, 13-14=-98/709, 14-15=-163/536, 23-24=-872/210, 2-24=-823/133
BOT CHORD 23-35=-259/264, 22-35=-259/264, 21-22=-259/264, 20-21=-128/546, 19-20=-119/558, 18-19=-416/259, 17-18=-416/259, 17-36=-416/259, 15-36=-416/259
WEBS 2-32=-19/623, 25-32=-6/614, 21-25=-63/548, 12-19=-372/145, 13-19=-150/1059, 13-17=-1762/429, 25-31=-104/260, 30-31=-175/396, 29-30=-189/407, 26-29=-160/377, 26-34=-175/384, 28-34=-135/357, 27-28=-133/341, 11-27=-229/508, 10-27=-323/217

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable 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.

Continued on page 2

**NOTES-**

8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=307, 17=365, 22=165.
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.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down and 108 lb up at 0-2-12, and 201 lb down and 117 lb up at 2-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

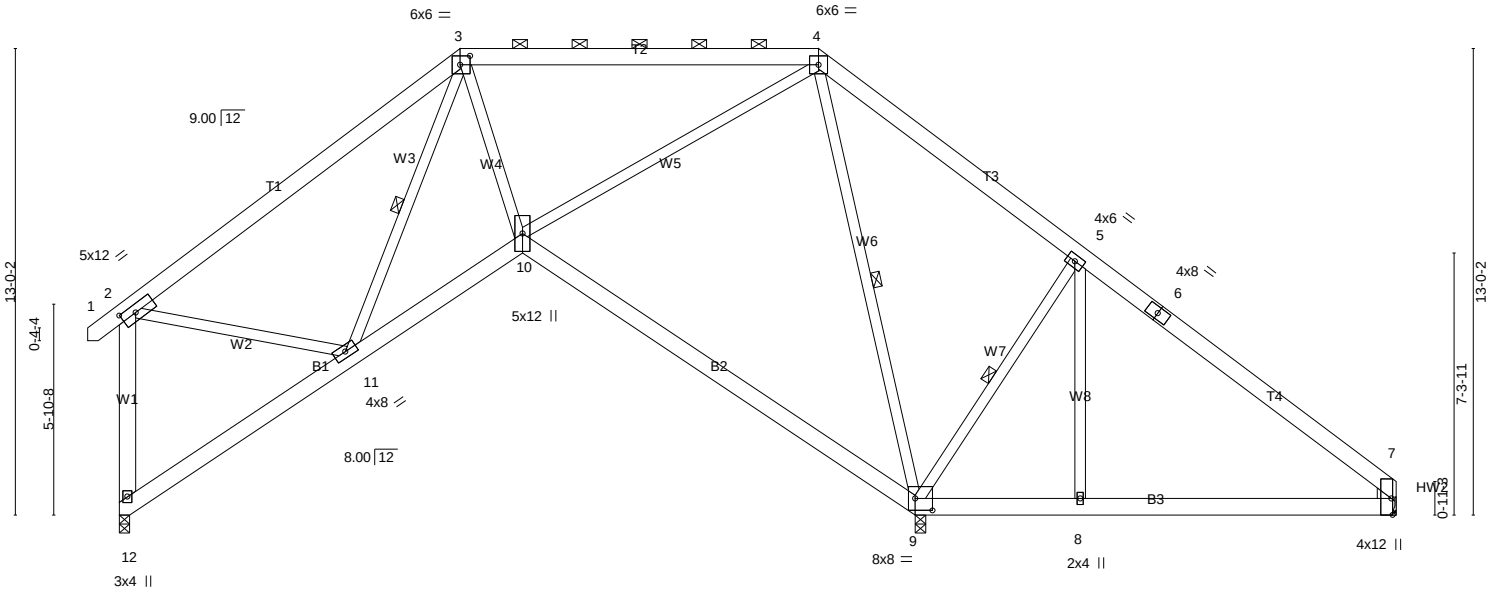
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-7=-60, 7-12=-60, 12-16=-60, 15-23=-20
Concentrated Loads (lb)
Vert: 23=-210 35=-201

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | A2 | PIGGYBACK BASE | 7 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:29 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-aDUP_ohFu3IVZ1KCpZ_mJjv0JMp5hGfngm2zAwzaPaS

| -0-10-8 | 6-6-3 | 9-6-3 | 19-6-3 | 22-2-8 | 26-9-12 | 35-7-8 |
|---|---|---|---|---|---|---|
| 0-10-8 | 6-6-3 | 3-0-0 | 10-0-0 | 2-8-5 | 4-7-4 | 8-9-12 |

Scale: 3/16"=1'




| 6-6-3 | 9-6-3 | 11-3-0 | 22-2-8 | 22-4-4 | 26-9-12 | 35-7-8 |
|---|---|---|---|---|---|---|
| 6-6-3 | 3-0-0 | 1-8-13 | 10-11-8 | 0-1-12 | 4-5-8 | 8-9-12 |

Plate Offsets (X,Y)-- [2:0-5-0,0-2-8], [3:0-3-4,0-3-0], [7:0-5-8,Edge], [9:0-5-12,0-4-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.52 | Vert(LL) | -0.14 | 9-10 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.29 | 9-10 | >900 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.80 | Horz(CT) | 0.07 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 10 | >999 | 240 | Weight: 293 lb | FT = 20% |

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

**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.): 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-11, 4-9, 5-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 12=810/0-3-8 (min. 0-1-8), 9=1751/0-3-8 (min. 0-2-1), 7=323/Mechanical
Max Horz 12=-283(LC 8)
Max Uplift12=-94(LC 13), 7=-177(LC 13)
Max Grav 12=810(LC 1), 9=1751(LC 1), 7=490(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-759/145, 13-14=-635/148, 3-14=-593/190, 3-15=-650/184, 15-16=-649/184, 4-16=-649/185, 4-17=-134/549, 5-17=-147/352, 5-6=-215/291, 6-18=-261/255, 7-18=-372/250, 2-12=-784/261
BOT CHORD 11-12=-333/387, 10-11=-256/841, 9-10=-323/205
WEBS 3-11=-385/62, 3-10=-95/251, 4-10=-182/867, 4-9=-1129/181, 5-9=-778/306, 5-8=0/390, 2-11=0/427

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 9-6-3, Exterior(2) 9-6-3 to 15-8-14, Interior(1) 15-8-14 to 19-6-3, Exterior(2) 19-6-3 to 25-8-14, Interior(1) 25-8-14 to 35-6-12 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 7=177.

Continued on page 2

**NOTES-**

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.

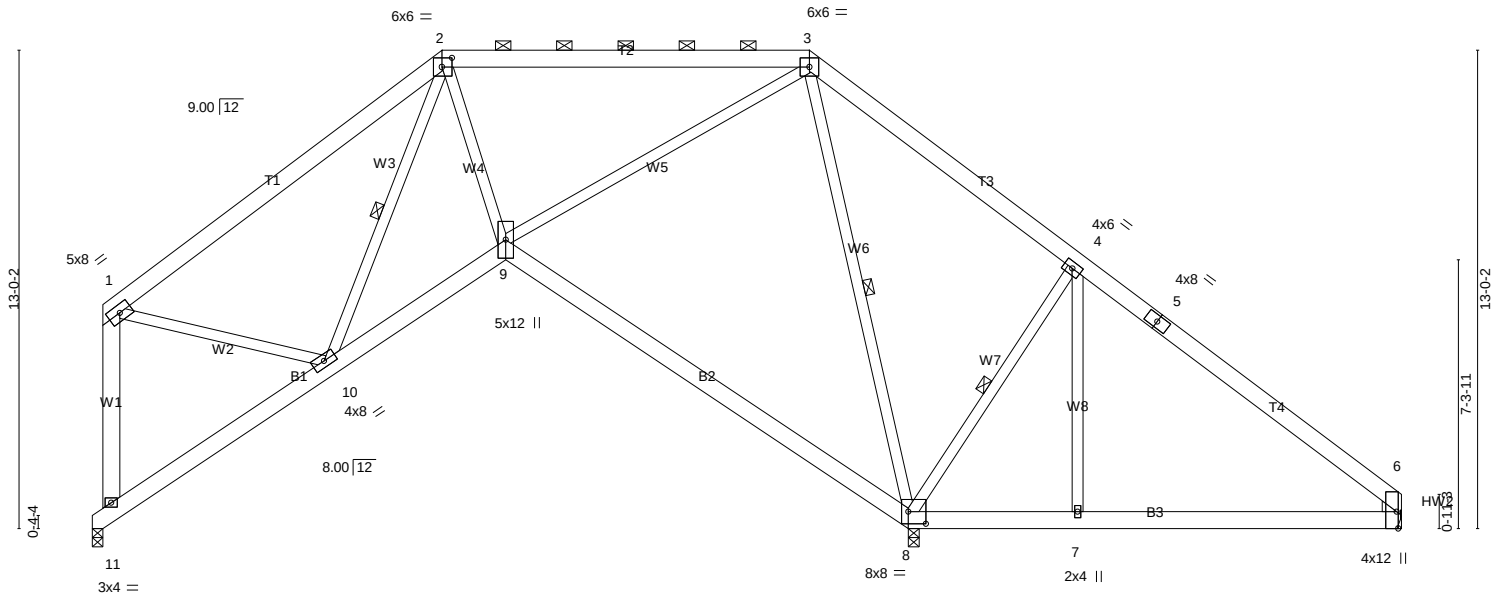
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | A2A | PIGGYBACK BASE | 2 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:30 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-2Q2nC8itfMQMBAvONGV?swRB4l9KQj6xvQnXiMzaPaR

| 6-6-3 | 9-6-3 | 19-6-3 | 22-2-8 | 26-9-12 | 35-7-8 |
|---|---|---|---|---|---|
| 6-6-3 | 3-0-0 | 10-0-0 | 2-8-5 | 4-7-4 | 8-9-12 |

Scale = 1:62.7




| 6-6-3 | 9-6-3 | 11-3-0 | 22-2-8 | 22-4-4 | 26-9-12 | 35-7-8 |
|---|---|---|---|---|---|---|
| 6-6-3 | 3-0-0 | 1-8-13 | 10-11-8 | 0-1-12 | 4-5-8 | 8-9-12 |

Plate Offsets (X,Y)-- [2:0-3-4,0-3-0], [6:0-5-8,Edge], [8:0-5-12,0-4-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.52 | Vert(LL) | -0.14 | 8-9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.29 | 8-9 | >890 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.07 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 9 | >999 | 240 | Weight: 290 lb | FT = 20% |

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

**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.): 2-3.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-10, 3-8, 4-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 8=1726/0-3-8 (min. 0-2-1), 6=333/Mechanical, 11=744/0-3-8 (min. 0-1-8)
Max Horz 11=-294(LC 8)
Max Uplift6=-175(LC 13), 11=-94(LC 13)
Max Grav 8=1726(LC 1), 6=496(LC 20), 11=744(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-723/107, 12-13=-571/119, 2-13=-565/152, 2-14=-645/169, 14-15=-644/169, 3-15=-644/169, 3-16=-141/536, 4-16=-154/349, 4-5=-222/287, 5-17=-269/251, 6-17=-381/247, 1-11=-710/181
BOT CHORD 10-11=-318/390, 9-10=-246/838, 8-9=-318/206
WEBS 2-10=-414/72, 2-9=-91/254, 3-9=-172/849, 3-8=-1110/173, 4-8=-778/307, 4-7=0/390, 1-10=0/431

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-4 to 4-11-1, Interior(1) 4-11-1 to 9-6-3, Exterior(2) 9-6-3 to 15-8-14, Interior(1) 15-8-14 to 19-6-3, Exterior(2) 19-6-3 to 25-8-14, Interior(1) 25-8-14 to 35-6-12 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 6=175.

Continued on page 2

**NOTES-**

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.

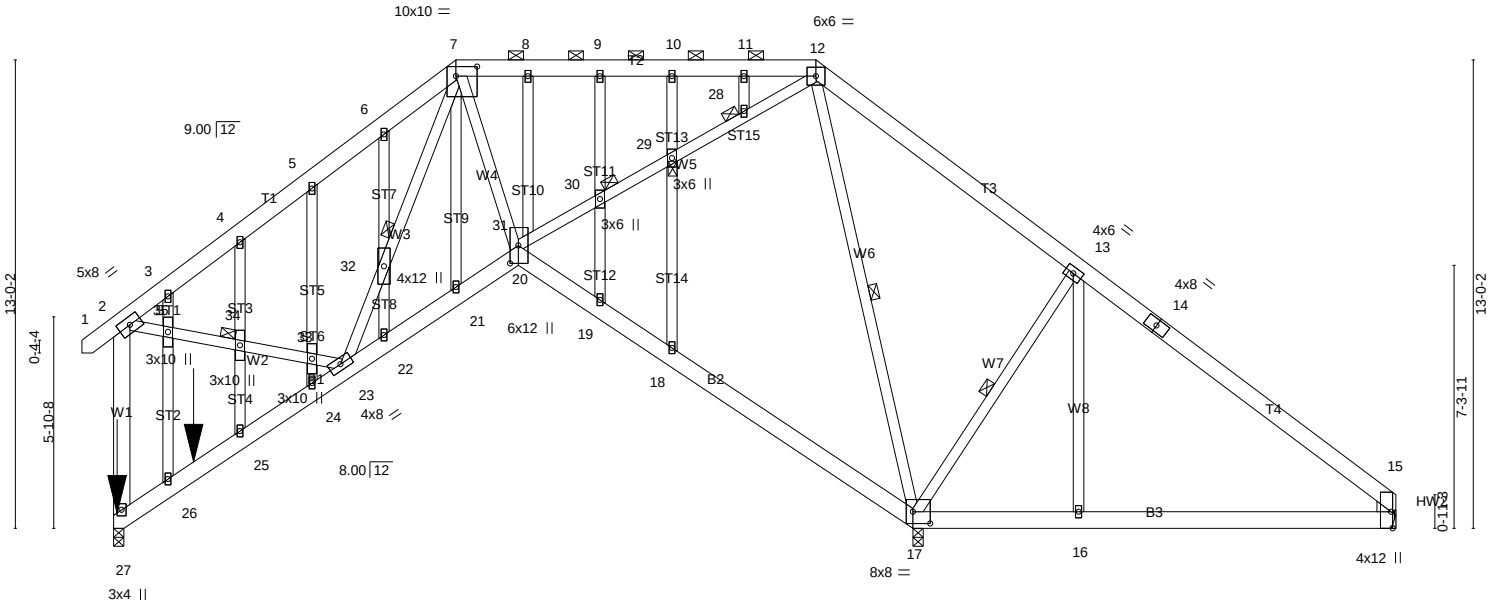
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | A2SG | GABLE | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:31 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-Wcc9PUiWQgYDpKUbx_1EP8_On9Ve97Z474X4EozaPaQ

| -0-10-8 | 6-6-3 | 9-6-3 | 22-2-8 | 26-9-12 | 35-7-8 |
|---|---|---|---|---|---|
| 0-10-8 | 6-6-3 | 3-0-0 | 12-8-5 | 4-7-4 | 8-9-12 |

Scale: 3/16"=1'




| 6-6-3 | 9-6-3 | 11-3-0 | 22-2-8 | 22-4-4 | 26-9-12 | 35-7-8 |
|---|---|---|---|---|---|---|
| 6-6-3 | 3-0-0 | 1-8-13 | 10-11-8 | 0-1-12 | 4-5-8 | 8-9-12 |

Plate Offsets (X,Y)-- [7:0-7-0,0-3-4], [15:0-5-8,Edge], [17:0-5-12,0-4-0], [20:0-6-0,0-2-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | -0.07 | 18 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.15 | 18 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.91 | Horz(CT) | 0.10 | 17 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.09 | 18-19 | >999 | 240 | Weight: 361 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
W1: 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 12-17, 13-17
JOINTS 1 Brace at Jt(s): 28, 29, 30, 32, 34

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 27=1160/0-3-8 (min. 0-1-8), 17=1851/0-3-8 (min. 0-2-3), 15=273/Mechanical
Max Horz 27=-387(LC 9)
Max Uplift 27=-417(LC 9), 17=-117(LC 5), 15=-309(LC 28)
Max Grav 27=1160(LC 1), 17=1851(LC 1), 15=516(LC 16)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-834/193, 3-4=-780/209, 4-5=-701/252, 5-6=-742/364, 6-7=-773/475, 7-8=-691/311, 8-9=-691/311, 9-10=-691/311, 10-11=-691/311, 11-12=-691/311, 12-13=-178/714, 13-14=-265/427, 14-15=-406/384, 2-27=-817/231
BOT CHORD 26-27=-398/479, 26-36=-403/487, 25-36=-414/496, 24-25=-396/472, 23-24=-379/521, 22-23=-342/817, 21-22=-374/898, 20-21=-396/970
WEBS 23-32=-390/221, 7-32=-397/224, 7-20=-143/473, 20-31=-313/822, 30-31=-427/1071, 29-30=-389/969, 28-29=-399/1014, 12-28=-421/1053, 12-17=-1214/347, 13-17=-810/402, 13-16=0/401, 2-35=-86/554, 34-35=-85/549, 33-34=-83/542, 23-33=-88/568, 8-31=-325/159, 24-33=-295/173

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable 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.

Continued on page 2

**NOTES-**

8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 27=417, 17=117, 15=309.
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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 204 lb down and 107 lb up at 0-2-12, and 195 lb down and 116 lb up at 2-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

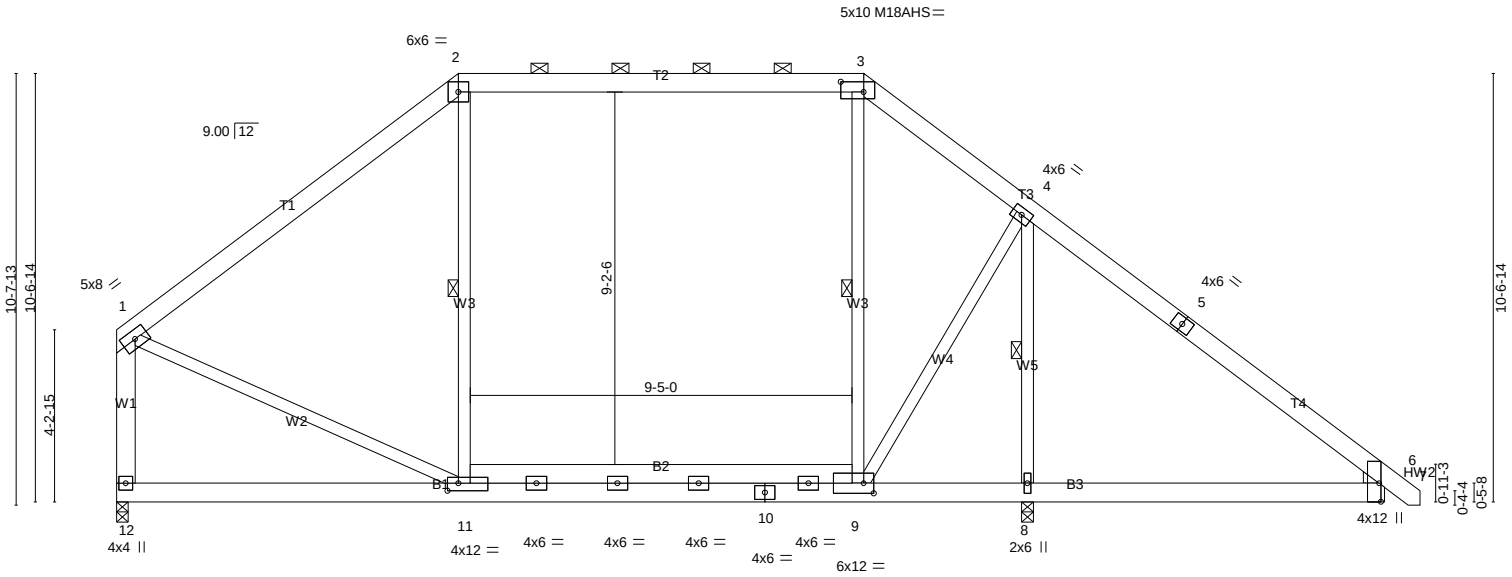
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-60, 2-7=-60, 7-12=-60, 12-15=-60, 20-27=-20, 17-20=-20, 15-17=-20
   Concentrated Loads (lb)
      Vert: 27=-204 36=-195

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | B1 | PIGGYBACK BASE | 3 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:32 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-_o9Xcqj8B_g4QU2nVhYTxLXYwZiAuh5DMkGemFzaPaP

| 8-5-4 | 18-5-4 | 22-5-12 | 31-3-8 | 32-2-0 |
|---|---|---|---|---|
| 8-5-4 | 10-0-0 | 4-0-8 | 8-9-12 | 0-10-8 |

Scale = 1:56.9




| 8-5-4 | 18-5-4 | 22-5-12 | 31-3-8 |
|---|---|---|---|
| 8-5-4 | 10-0-0 | 4-0-8 | 8-9-12 |

Plate Offsets (X,Y)-- [3:0-6-12,0-3-0], [6:0-5-8,Edge], [9:0-3-0,0-3-0], [11:0-3-4,0-2-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.28 | 11-12 | >965 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.60 | 6 | >177 | 120 | M18AHS | 186/179 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.50 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.30 | 11-12 | >879 | 240 | Weight: 256 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
W1: 2x6 SP No.1
WEDGE
Right: 2x4 SP No.2

**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.): 2-3.
BOT CHORD Rigid ceiling directly applied or 5-5-7 oc bracing.
WEBS 1 Row at midpt 2-11, 3-9, 4-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 12=732/0-3-8 (min. 0-1-8), 8=1796/0-3-8 (min. 0-1-11)
Max Horz 12=-240(LC 8)
Max Uplift12=-32(LC 12), 8=-77(LC 13)
Max Grav 12=853(LC 25), 8=2025(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-624/41, 13-14=-492/56, 2-14=-489/86, 2-15=-389/158, 15-16=-389/158, 3-16=-389/158, 3-4=-459/145, 4-17=-406/738, 5-17=-427/601, 5-18=-438/577, 6-18=-468/552, 1-12=-652/92
BOT CHORD 11-12=-176/280, 10-11=-72/430, 9-10=-75/375, 8-9=-488/487, 8-19=-488/487, 6-19=-488/487
WEBS 2-11=-297/257, 3-9=-363/170, 4-9=-423/1469, 4-8=-2148/889, 1-11=-103/314

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-5-4, Exterior(2) 8-5-4 to 14-7-15, Interior(1) 14-7-15 to 18-5-4, Exterior(2) 18-5-4 to 24-7-15, Interior(1) 24-7-15 to 32-0-4 zone; cantilever 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
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.

Continued on page 2

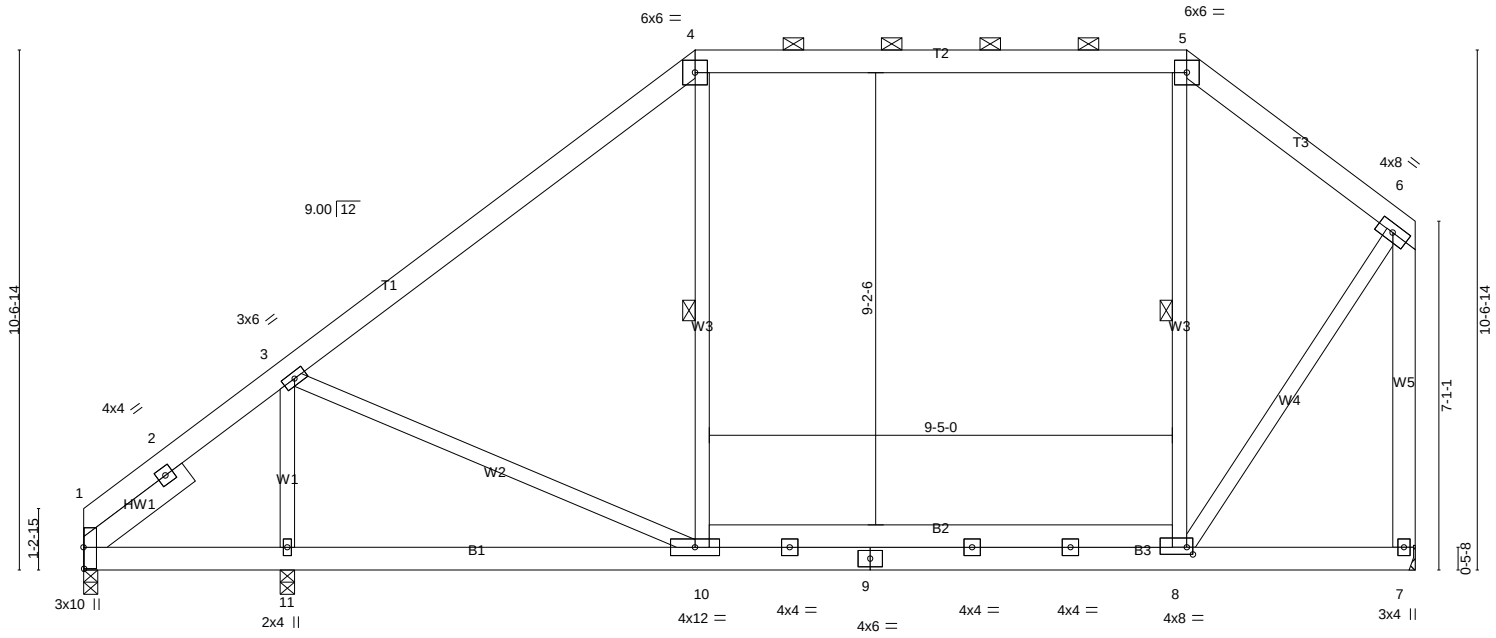
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | B2 | PIGGYBACK BASE | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:33 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-S_jvq9kmyHox2edz2P3iUZ3jezAmd8BNbO0BJhzaPaO

| 4-1-12 | 12-5-4 | 22-5-4 | 27-1-0 |
|---|---|---|---|
| 4-1-12 | 8-3-8 | 10-0-0 | 4-7-12 |

Scale = 1:46.9




| 4-1-12 | 12-5-4 | 22-5-4 | 27-1-0 |
|---|---|---|---|
| 4-1-12 | 8-3-8 | 10-0-0 | 4-7-12 |

Plate Offsets (X,Y)-- [1:0-5-4,0-0-2], [8:0-1-8,0-1-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.08 | 8-10 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.37 | Vert(CT) | -0.12 | 8-10 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.45 | Horz(CT) | -0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.05 | 10-11 | >999 | 240 | Weight: 240 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 |
| BOT CHORD | 2x6 SP No.1 |
| WEBS | 2x4 SP No.2 *Except* W5: 2x6 SP No.1 |
| SLIDER | Left 2x6 SP No.1 -x 2-7-8 |

**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.): 4-5. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 8-10. |
| WEBS | 1 Row at midpt 4-10, 5-8 |

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=-476/0-3-8 (min. 0-1-8), 11=1833/0-3-8 (min. 0-2-9), 7=791/Mechanical
Max Horz 1=260(LC 12)
Max Uplift1=-726(LC 19), 11=-343(LC 12), 7=-32(LC 8)
Max Grav 1=298(LC 9), 11=2180(LC 19), 7=925(LC 2)

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

| | |
|---|---|
| TOP CHORD | 1-2=-440/1134, 2-3=-402/1190, 3-12=-667/102, 4-12=-530/156, 4-13=-412/214, 13-14=-412/214, 5-14=-412/214, 5-6=-537/175, 6-7=-981/245 |
| BOT CHORD | 1-11=-679/94, 10-11=-679/94, 9-10=-71/407, 8-9=-68/412 |
| WEBS | 3-11=-1968/656, 3-10=-179/1162, 4-10=-302/212, 5-8=-266/168, 6-8=-119/744 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-1-12, Interior(1) 4-1-12 to 12-5-4, Exterior(2) 12-5-4 to 18-7-15, Interior(1) 18-7-15 to 22-5-4, Exterior(2) 22-5-4 to 26-10-4 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=726, 11=343.
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.

Continued on page 2

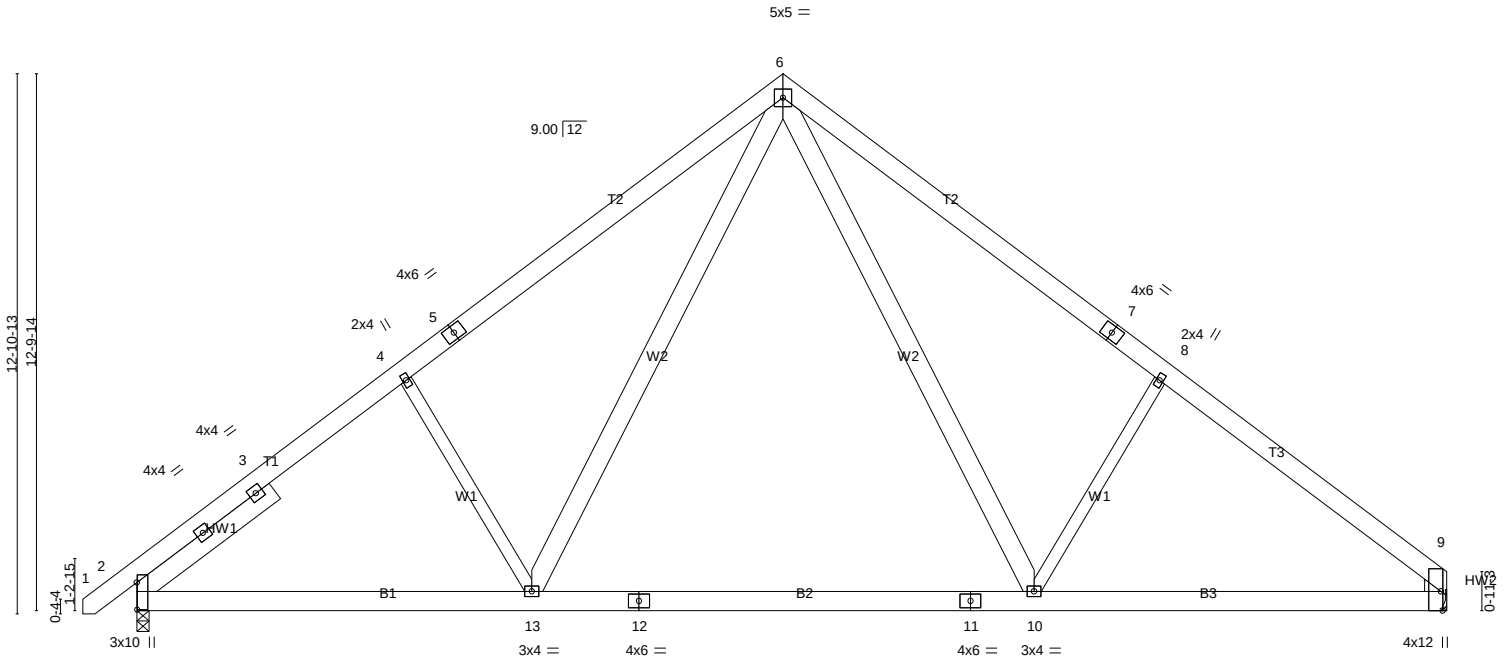
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | C1 | COMMON | 2 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:34 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-wBHI1VlOibxogoCAc6ax0mcvvNSCMdEWp2lkr7zaPaN

| -1-3-8 | 6-5-4 | 15-5-4 | 24-5-4 | 31-3-8 |
|---|---|---|---|---|
| 1-3-8 | 6-5-4 | 9-0-0 | 9-0-0 | 6-10-4 |

Scale = 1:55.0




| 9-5-4 | 21-5-4 | 31-3-8 |
|---|---|---|
| 9-5-4 | 12-0-0 | 9-10-4 |

Plate Offsets (X,Y)-- [2:0-7-13,0-0-2], [9:0-5-8,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | -0.30 | 10-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(CT) | -0.40 | 10-13 | >927 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.33 | Horz(CT) | 0.03 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.03 | 10-13 | >999 | 240 | Weight: 259 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
W1: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 4-0-15

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1319/0-3-8 (min. 0-1-13), 9=1248/Mechanical
Max Horz 2=297(LC 9)
Max Uplift2=-73(LC 12), 9=-59(LC 13)
Max Grav 2=1522(LC 19), 9=1452(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1947/322, 3-4=-1847/360, 4-5=-1791/405, 5-14=-1650/432, 6-14=-1649/464, 6-15=-1712/488, 7-15=-1718/456, 7-8=-1860/429, 8-16=-1820/373, 9-16=-1989/342
BOT CHORD 2-17=-154/1614, 17-18=-154/1614, 13-18=-154/1614, 13-19=0/1047, 12-19=0/1047, 12-20=0/1047, 11-20=0/1047, 10-11=0/1047, 10-21=-170/1489, 21-22=-170/1489, 9-22=-170/1489
WEBS 4-13=-452/320, 6-13=-152/903, 6-10=-171/1008, 8-10=-508/336

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-12 to 3-3-1, Interior(1) 3-3-1 to 15-5-4, Exterior(2) 15-5-4 to 19-10-1, Interior(1) 19-10-1 to 31-2-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Continued on page 2

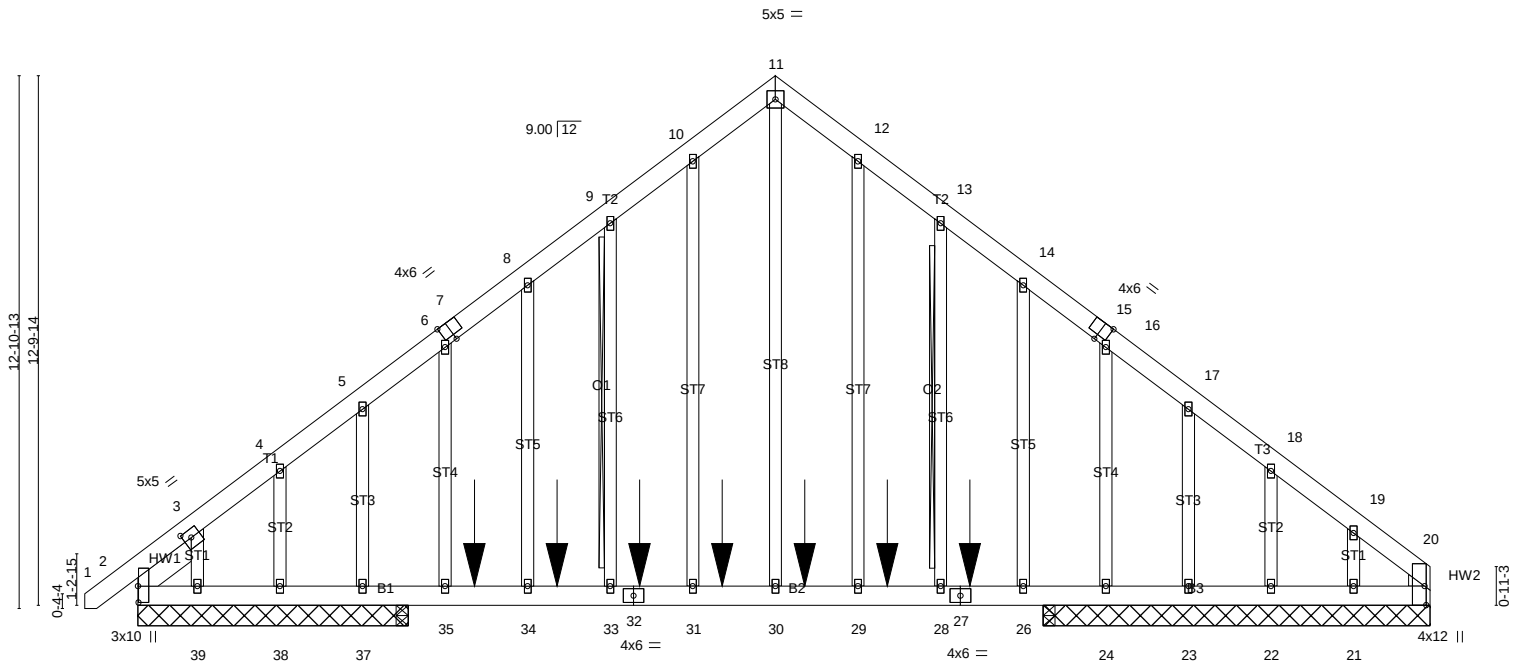
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | C1SG | GABLE | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:36 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-tZP2SBmeECBVv5MYkXcP6BhI?A7jqThpHMErv0zaPaL

-1-3-8 16-8-12 32-7-0
1-3-8 15-5-4 15-10-4

Scale = 1:55.8




-1-3-8 32-7-0
1-3-8 31-3-8

Plate Offsets (X,Y)-- [2:0-4-12,0-0-2], [3:0-2-5,0-2-4], [7:0-2-13,Edge], [15:0-2-13,Edge], [20:0-5-8,Edge]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | -0.07 | 33 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.13 | 33 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.59 | Horz(CT) | 0.02 | 20 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.10 | 33 | >999 | 240 | Weight: 315 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 1-8-14

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 9-33, 13-28
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 9-4-8 except (jt=length) 2=6-6-8, 37=6-6-8, 38=6-6-8, 39=6-6-8, 36=0-3-8, 25=0-3-8.
(lb) - Max Horz 2=371(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 22 except 2=-119(LC 4), 20=-127(LC 5), 37=-861(LC 33), 38=-116(LC 8), 39=-320(LC 27), 24=-232(LC 20), 23=-117(LC 9), 21=-225(LC 28), 36=-850(LC 8), 25=-381(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 38, 39, 24, 23, 22, 21 except 2=963(LC 1), 20=736(LC 33), 37=437(LC 8), 36=1629(LC 33), 25=773(LC 34)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1122/177, 3-4=-882/135, 4-5=-818/131, 5-6=-836/141, 6-7=-984/213, 7-8=-979/227, 8-9=-881/247, 9-10=-828/279, 10-11=-751/306, 11-12=-773/346, 12-13=-850/323, 13-14=-924/290, 14-15=-838/233, 15-16=-843/219, 16-17=-859/181, 17-18=-884/183, 18-19=-907/190, 19-20=-1029/219
BOT CHORD 2-39=-154/744, 38-39=-154/744, 37-38=-154/744, 36-37=-154/744, 35-36=-154/744, 35-40=-154/744, 34-40=-154/744, 34-41=-154/744, 33-41=-154/744, 32-33=-154/744, 31-32=-154/744, 31-42=-154/744, 30-42=-154/744, 30-43=-154/744, 29-43=-154/744, 29-44=-154/744, 28-44=-154/744, 27-28=-154/744, 26-27=-154/744, 25-26=-154/744, 24-25=-154/744, 23-24=-154/744, 22-23=-154/744, 21-22=-154/744, 20-21=-154/744
WEBS 11-30=-228/533, 6-35=-396/254, 3-39=-120/323, 14-26=-287/191

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

Continued on page 2

**NOTES-**

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22 except (jt=lb) 2=119, 20=127, 37=861, 38=116, 39=320, 24=232, 23=117, 21=225, 36=850, 25=381.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 53 lb up at 8-1-12, 96 lb down and 53 lb up at 10-1-12, 96 lb down and 53 lb up at 12-1-12, 96 lb down and 53 lb up at 14-1-12, 96 lb down and 53 lb up at 16-1-12, and 96 lb down and 53 lb up at 18-1-12, and 96 lb down and 53 lb up at 20-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

**LOAD CASE(S)** Standard

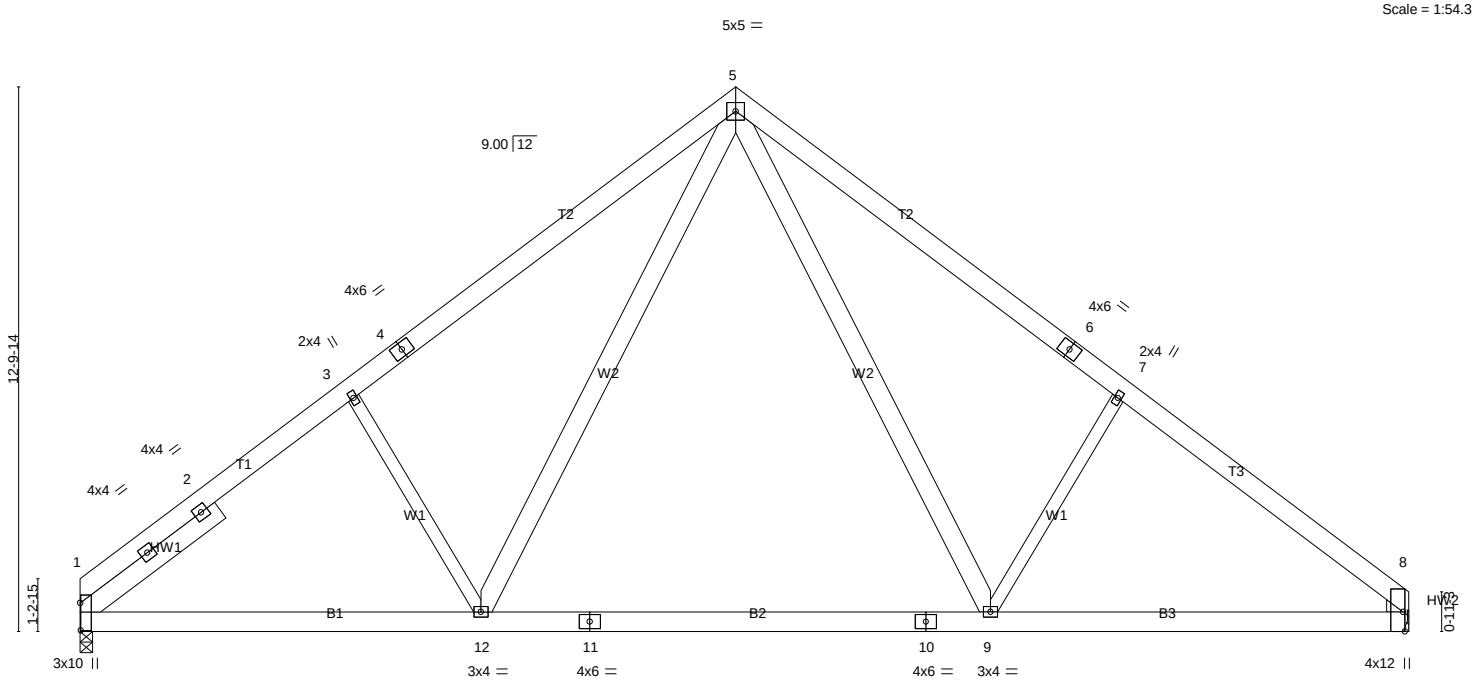
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-11=-60, 11-20=-60, 2-20=-20
   Concentrated Loads (lb)
      Vert: 32=-96 27=-96 40=-96 41=-96 42=-96 43=-96 44=-96

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | C2 | COMMON | 4 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:37 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-LmzQgXnG?WJMXFxlHE7eePEQ9aTwZ_zyW0_PSSzaPaK

| 6-5-4 | 15-5-4 | 24-5-4 | 31-3-8 |
|---|---|---|---|
| 6-5-4 | 9-0-0 | 9-0-0 | 6-10-4 |

Scale = 1:54.3




| 9-5-4 | 21-5-4 | 31-3-8 |
|---|---|---|
| 9-5-4 | 12-0-0 | 9-10-4 |

Plate Offsets (X,Y)-- [1:0-7-13,0-0-2], [8:0-5-8,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | -0.30 | 9-12 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(CT) | -0.40 | 9-12 | >928 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.33 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.03 | 9-12 | >999 | 240 | Weight: 256 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
W1: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 4-0-15

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-3-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=1249/0-3-8 (min. 0-1-11), 8=1249/Mechanical
Max Horz 1=-295(LC 10)
Max Uplift1=-57(LC 12), 8=-59(LC 13)
Max Grav 1=1456(LC 19), 8=1453(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1951/334, 2-13=-1851/348, 3-13=-1783/372, 3-4=-1796/419, 4-14=-1655/446, 5-14=-1654/478, 5-15=-1713/488, 6-15=-1719/457, 6-7=-1861/429, 7-16=-1821/374, 8-16=-1990/343
BOT CHORD 1-17=-159/1620, 17-18=-159/1620, 12-18=-159/1620, 12-19=0/1049, 11-19=0/1049, 11-20=0/1049, 10-20=0/1049, 9-10=0/1049, 9-21=-173/1490, 21-22=-173/1490, 8-22=-173/1490
WEBS 3-12=-450/321, 5-12=-156/909, 5-9=-171/1007, 7-9=-508/336

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 15-5-4, Exterior(2) 15-5-4 to 19-10-1, Interior(1) 19-10-1 to 31-2-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
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.

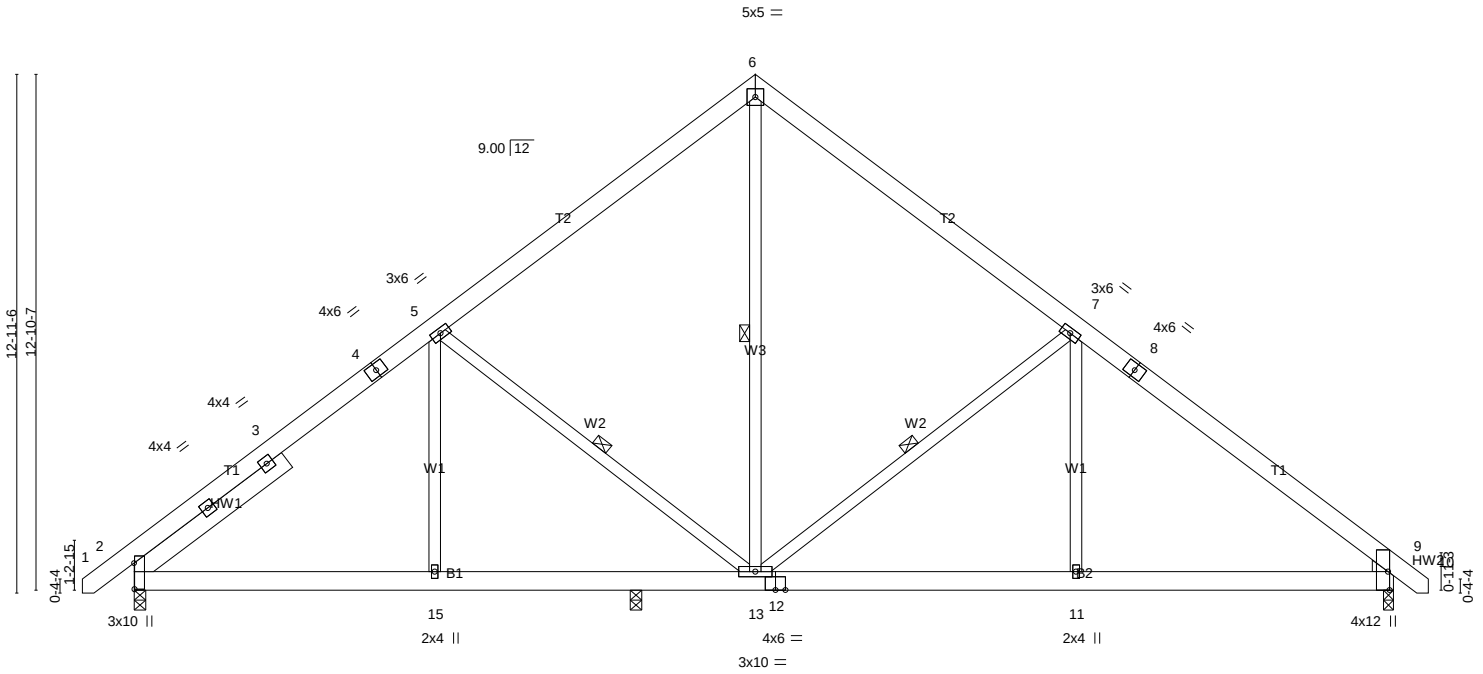
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | D1 | COMMON | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:38 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-pyXottovmqRD8PWxryftBcmdI_tqIQ46kgjy_uzaPaJ

| -1-3-8 | 7-6-0 | 15-6-0 | 23-6-0 | 31-5-0 | 32-3-8 |
|---|---|---|---|---|---|
| 1-3-8 | 7-6-0 | 8-0-0 | 8-0-0 | 7-11-0 | 0-10-8 |

Scale = 1:57.5




| 7-6-0 | 12-4-8 | 15-6-0 | 23-6-0 | 31-5-0 |
|---|---|---|---|---|
| 7-6-0 | 4-10-8 | 3-1-8 | 8-0-0 | 7-11-0 |

Plate Offsets (X,Y)-- [2:0-7-13,0-0-2], [9:0-5-8,Edge]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.31 | Vert(LL) | -0.06 | 11-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.12 | 11-13 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.41 | Horz(CT) | 0.03 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.08 | 11-13 | >999 | 240 | Weight: 248 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 4-8-11

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-10-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-13 oc bracing.
WEBS 1 Row at midpt 5-13, 6-13, 7-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1162/0-3-8 (min. 0-1-8), 9=1196/0-3-0 (min. 0-1-8), 14=265/0-3-8 (min. 0-1-8)
Max Horz 2=-299(LC 10)
Max Uplift2=-82(LC 12), 9=-137(LC 8)
Max Grav 2=1241(LC 2), 9=1284(LC 2), 14=323(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1496/579, 3-4=-1398/594, 4-5=-1303/620, 5-16=-1004/682, 6-16=-899/714, 6-17=-903/714, 7-17=-1010/665, 7-8=-1486/1003, 8-18=-1590/966, 9-18=-1678/962
BOT CHORD 2-19=-317/1215, 15-19=-317/1215, 15-20=-317/1215, 14-20=-317/1215, 13-14=-317/1215, 12-13=-631/1237, 12-21=-631/1237, 11-21=-631/1237, 11-22=-631/1237, 9-22=-631/1237
WEBS 5-15=0/362, 5-13=-629/216, 6-13=-608/672, 7-13=-700/587, 7-11=-333/535

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-12 to 3-3-1, Interior(1) 3-3-1 to 15-6-0, Exterior(2) 15-6-0 to 19-10-13, Interior(1) 19-10-13 to 32-1-12 zone; porch 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=137.
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.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

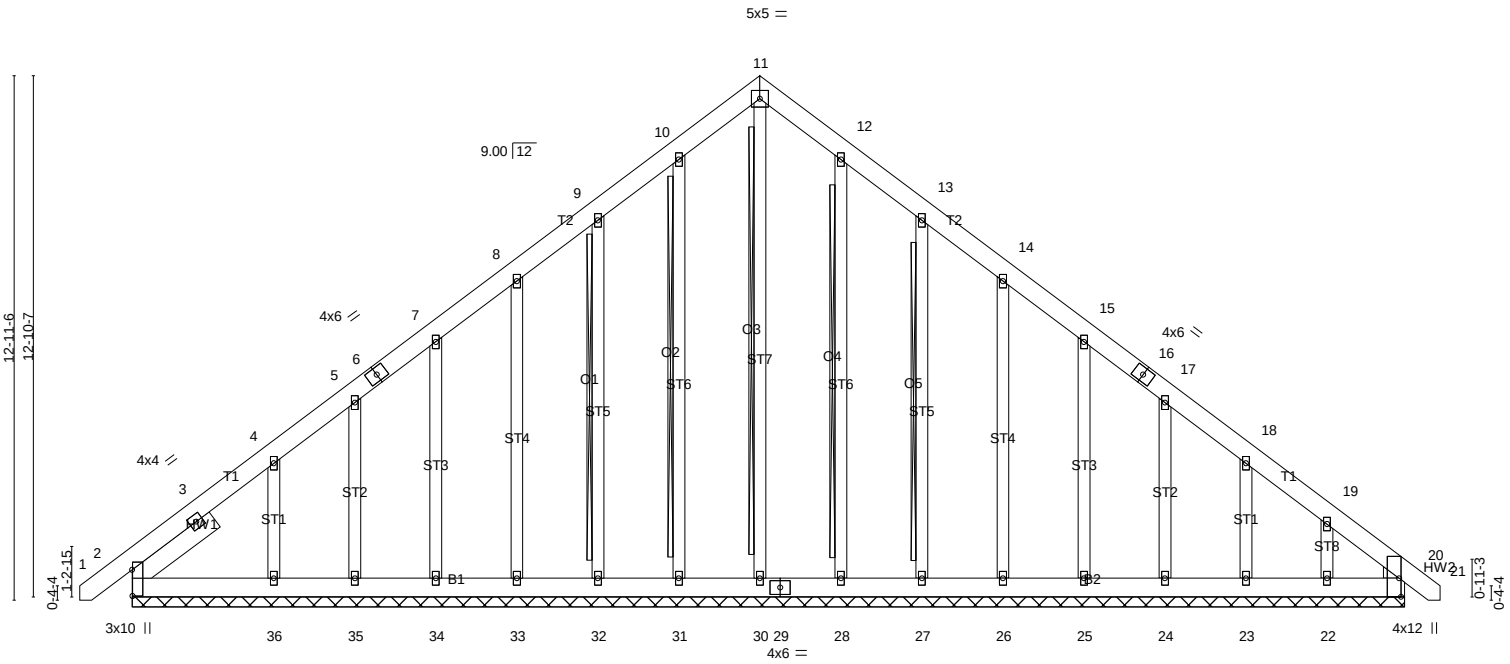
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | D1GE | COMMON SUPPORTED GAB | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:39 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-H84A4DpXX7Z4mZ57PfA6jqJrdOIN1wTFzKTVWLzaPaI

-1-3-8 16-9-8 32-8-8 33-7-0
1-3-8 15-6-0 15-11-0 0-10-8

Scale = 1:56.9




-1-3-8 32-8-8 33-7-0
1-3-8 31-5-0 0-10-8

Plate Offsets (X,Y)-- [2:0-7-13,0-0-2], [20:0-5-8,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | 0.00 | 20 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | 0.00 | 20 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | 0.01 | 20 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 318 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 2-6-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 11-30, 10-31, 9-32, 12-28, 13-27
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

**REACTIONS.** All bearings 31-5-0.
(lb) - Max Horz 2=374(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 31, 33, 35, 28, 26, 25, 24, 23, 20 except 2=-105(LC 8), 32=-114(LC 12), 34=-102(LC 12), 36=-264(LC 12), 27=-117(LC 13), 22=-166(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 31, 32, 33, 34, 35, 28, 27, 26, 25, 24, 23, 22, 20 except 2=311(LC 20), 30=263(LC 13), 36=331(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-391/265, 3-4=-371/283, 9-10=-255/280, 10-11=-289/315, 11-12=-289/315, 12-13=-255/267, 19-20=-372/233
BOT CHORD 2-36=-189/312, 35-36=-189/312, 34-35=-189/312, 33-34=-189/312, 32-33=-189/312, 31-32=-189/312, 30-31=-189/312, 29-30=-189/312, 28-29=-189/312, 27-28=-189/312, 26-27=-189/312, 25-26=-189/312, 24-25=-189/312, 23-24=-189/312, 22-23=-189/312, 20-22=-189/312
WEBS 11-30=-250/176, 4-36=-297/277

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) 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.

Continued on page 2

**NOTES-**

8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 33, 35, 28, 26, 25, 24, 23, 20 except (jt=lb) 2=105, 32=114, 34=102, 36=264, 27=117, 22=166.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

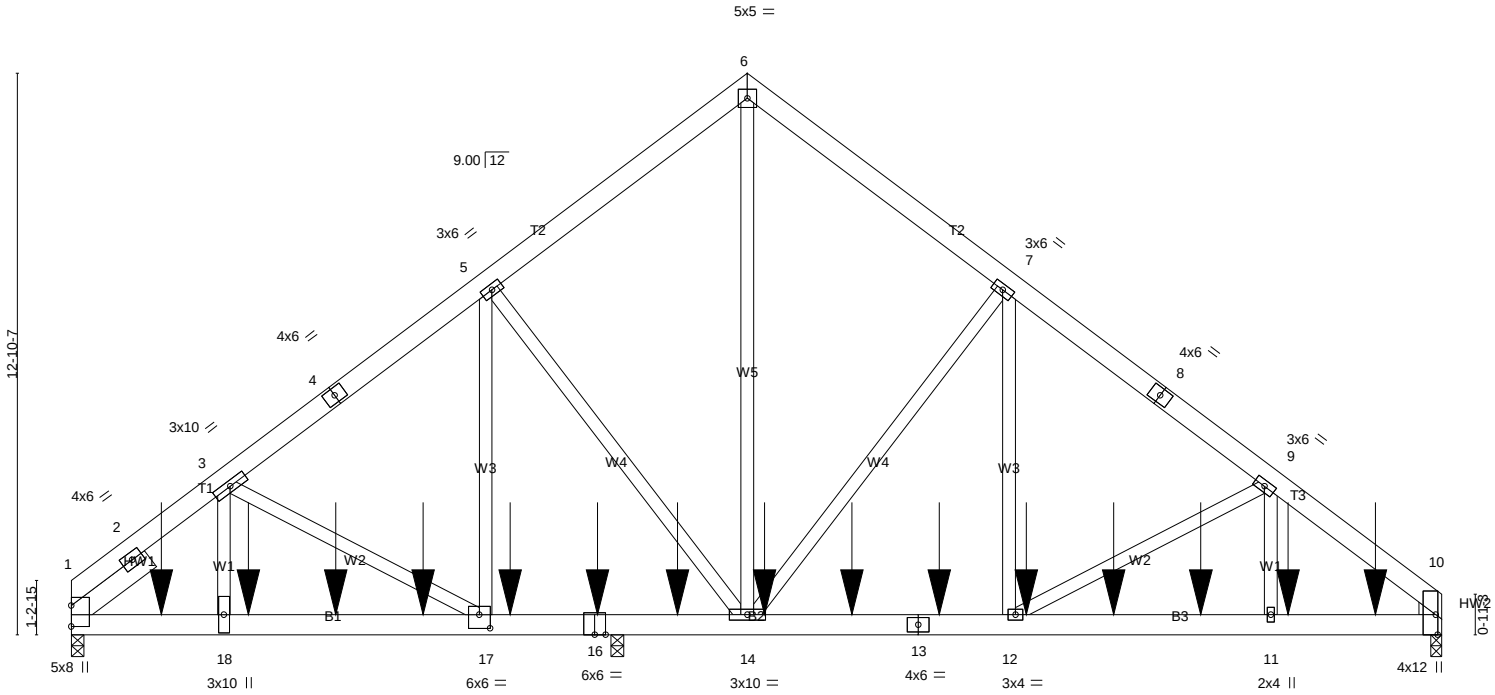
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | D1-GR | Common Girder | 1 | 3 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:40 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-lLeZlZp9IRhxOjgJzNhLG1stInQzmLLPC_C32nzaPaH

| 3-6-0 | 9-6-0 | 15-6-0 | 21-6-0 | 27-6-0 | 31-5-0 |
|---|---|---|---|---|---|
| 3-6-0 | 6-0-0 | 6-0-0 | 6-0-0 | 6-0-0 | 3-11-0 |

Scale = 1:52.8




| 3-6-0 | 9-6-0 | 12-6-4 | 15-6-0 | 21-6-0 | 27-6-0 | 31-5-0 |
|---|---|---|---|---|---|---|
| 3-6-0 | 6-0-0 | 3-0-4 | 2-11-12 | 6-0-0 | 6-0-0 | 3-11-0 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.67 | Vert(LL) | -0.12 | 17-18 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.91 | Vert(CT) | -0.22 | 17-18 | >697 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.36 | Horz(CT) | 0.05 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.08 | 17-18 | >999 | 240 | Weight: 804 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 2-2-11

**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) 1=6037/0-3-8 (min. 0-2-9), 10=3879/0-3-0 (min. 0-1-10), 15=3132/0-3-8 (min. 0-1-8)
Max Horz 1=-296(LC 25)
Max Uplift1=-614(LC 8), 10=-1163(LC 9), 15=-473(LC 8)
Max Grav 1=6503(LC 2), 10=4138(LC 34), 15=3415(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-8907/856, 2-3=-8837/870, 3-4=-5591/742, 4-5=-5515/768, 5-6=-3320/841, 6-7=-3281/824, 7-8=-4642/1237, 8-9=-4724/1212, 9-10=-5748/1604
BOT CHORD 1-19=-745/6400, 18-19=-745/6400, 18-20=-745/6400, 20-21=-745/6400, 21-22=-745/6400, 17-22=-745/6400, 17-23=-619/4477, 16-23=-619/4477, 15-16=-619/4477, 15-24=-619/4477, 14-24=-619/4477, 14-25=-860/3736, 25-26=-860/3736, 26-27=-860/3736, 13-27=-860/3736, 13-28=-860/3736, 12-28=-860/3736, 12-29=-1146/4266, 29-30=-1146/4266, 30-31=-1146/4266, 11-31=-1146/4266, 11-32=-1146/4266, 32-33=-1146/4266, 10-33=-1146/4266
WEBS 3-18=-159/3823, 3-17=-2213/190, 5-17=0/3523, 5-14=-3209/194, 6-14=-886/3547, 7-14=-2022/815, 7-12=-822/2118, 9-12=-701/402, 9-11=-475/1073

**NOTES-**
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs 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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch 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.

Continued on page 2

**NOTES-**

6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=614, 10=1163, 15=473.
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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1373 lb down and 79 lb up at 2-0-12, 1373 lb down and 79 lb up at 4-0-12, 1374 lb down and 79 lb up at 6-0-12, 1374 lb down and 79 lb up at 8-0-12, 1342 lb down and 79 lb up at 10-0-12, 1342 lb down and 79 lb up at 12-0-12, 435 lb down and 197 lb up at 13-10-12, 435 lb down and 197 lb up at 15-10-12, 431 lb down and 195 lb up at 17-10-12, 395 lb down and 195 lb up at 19-10-12, 425 lb down and 197 lb up at 21-10-12, 435 lb down and 197 lb up at 23-10-12, 435 lb down and 197 lb up at 25-10-12, and 435 lb down and 197 lb up at 27-10-12, and 435 lb down and 197 lb up at 29-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

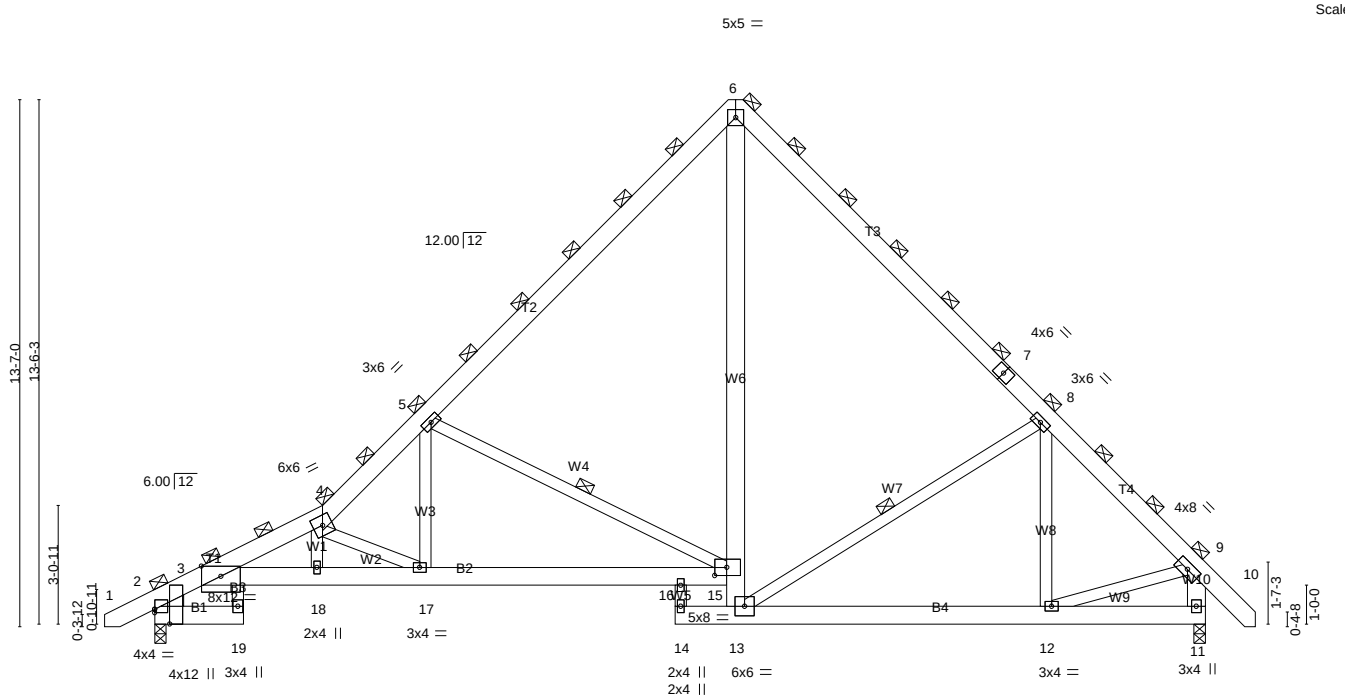
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-60, 6-10=-60, 1-10=-20
   Concentrated Loads (lb)
      Vert: 16=-1229(F) 19=-1228(F) 20=-1228(F) 21=-1229(F) 22=-1229(F) 23=-1229(F) 24=-351(F) 25=-351(F) 26=-358(F) 28=-358(F) 29=-351(F) 30=-351(F) 31=-351(F) 32=-351(F) 33=-351(F)

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | G1 | ROOF SPECIAL | 6 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:41 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-DXCxVvqn3lpo?tEWW4CapFO_aBpAVgNYQeycbDzaPaG

| -1-3-8 | 2-3-8 | 4-4-0 | 6-11-12 | 14-11-12 | 22-11-12 | 27-1-0 | 28-4-8 |
|---|---|---|---|---|---|---|---|
| 1-3-8 | 2-3-8 | 2-0-8 | 2-7-12 | 8-0-0 | 8-0-0 | 4-1-4 | 1-3-8 |

Scale = 1:59.4




| 2-3-8 | 4-4-0 | 6-11-12 | 13-5-0 | 14-11-12 | 22-11-12 | 27-1-0 |
|---|---|---|---|---|---|---|
| 2-3-8 | 2-0-8 | 2-7-12 | 6-5-4 | 1-6-12 | 8-0-0 | 4-1-4 |

Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [2:0-4-8,Edge], [3:0-6-0,0-3-2], [15:0-3-12,0-2-8]

| LOADING (psf) | | SPACING- 2-3-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC | 0.95 | Vert(LL) | -0.11 | 16-17 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC | 0.72 | Vert(CT) | -0.23 | 16-17 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr NO | WB | 0.88 | Horz(CT) | 0.28 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | Matrix-S | | Wind(LL) | 0.09 | 19 | >999 | 240 | Weight: 248 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
B3: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W10,W6: 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2

**BRACING-**
TOP CHORD 2-0-0 oc purlins (3-7-7 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-19,11-12.
WEBS 1 Row at midpt 5-15, 8-13

**REACTIONS.** (lb/size) 2=1305/0-3-8 (min. 0-1-9), 11=1297/0-3-8 (min. 0-1-8)
Max Horz 2=350(LC 11)
Max Uplift2=-57(LC 12), 11=-51(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-909/204, 3-20=-2955/525, 4-20=-2892/534, 4-5=-2162/437, 5-21=-1155/336, 6-21=-1064/378, 6-22=-1014/395, 7-22=-1023/353, 7-8=-1082/326, 8-23=-1104/287, 9-23=-1224/278, 9-11=-1263/340
BOT CHORD 3-18=-380/2791, 17-18=-379/2774, 16-17=-195/1689, 15-16=-195/1689, 12-13=-86/837
WEBS 5-15=-1159/405, 13-15=-47/501, 6-15=-233/984, 8-13=-474/293, 9-12=-145/880, 5-17=-19/819, 4-17=-1303/229

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 14-11-12, Exterior(2) 14-11-12 to 19-4-9, Interior(1) 19-4-9 to 28-2-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
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.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

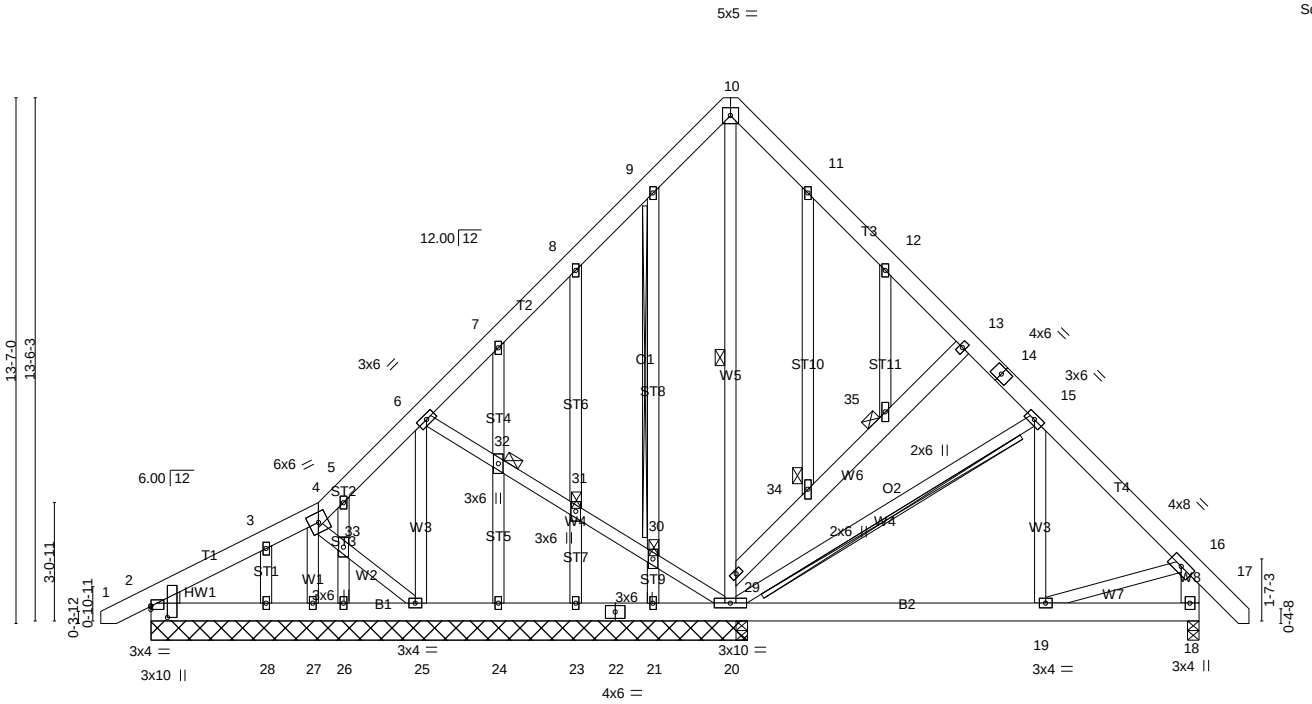
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | G1SG | GABLE | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:43 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-9wKhwas1bM3WFAOueVE2ugUX9?dWzk0ruyRjf6zaPaE

| -1-3-8 | 5-7-8 | 16-3-4 | 28-4-8 | 29-8-0 |
|---|---|---|---|---|
| 1-3-8 | 4-4-0 | 10-7-12 | 12-1-4 | 1-3-8 |

Scale = 1:59.5




| -1-3-8 | 5-7-8 | 16-3-4 | 28-4-8 | 29-8-0 |
|---|---|---|---|---|
| 1-3-8 | 4-4-0 | 10-7-12 | 12-1-4 | 1-3-8 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | -0.02 | 19-20 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | -0.04 | 19-20 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | 0.00 | 18 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.00 | 19 | >999 | 240 | Weight: 317 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except* W8,W6: 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-20
T-Brace: 2x4 SPF No.2 - 15-20, 9-30
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 30, 31, 32, 34, 35

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 15-5-0 except (jt=length) 18=0-3-8.
(lb) - Max Horz 2=395(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 27, 25, 18, 26 except 2=-105(LC 8), 20=-199(LC 13), 21=-110(LC 12), 23=-145(LC 12), 24=-126(LC 12), 28=-110(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 27, 25, 21, 23, 24, 26, 28 except 20=648(LC 20), 20=612(LC 1), 18=585(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-279/229, 4-5=-254/226, 15-16=-478/68, 16-18=-561/133
BOT CHORD 24-25=-171/300, 23-24=-171/300, 22-23=-171/300, 21-22=-171/300, 20-21=-171/300, 19-20=0/291
WEBS 20-29=-324/95, 15-20=-375/238, 16-19=0/296

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.

Continued on page 2

**NOTES-**

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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 25, 18, 26 except (jt=lb) 2=105, 20=199, 21=110, 23=145, 24=126, 28=110.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

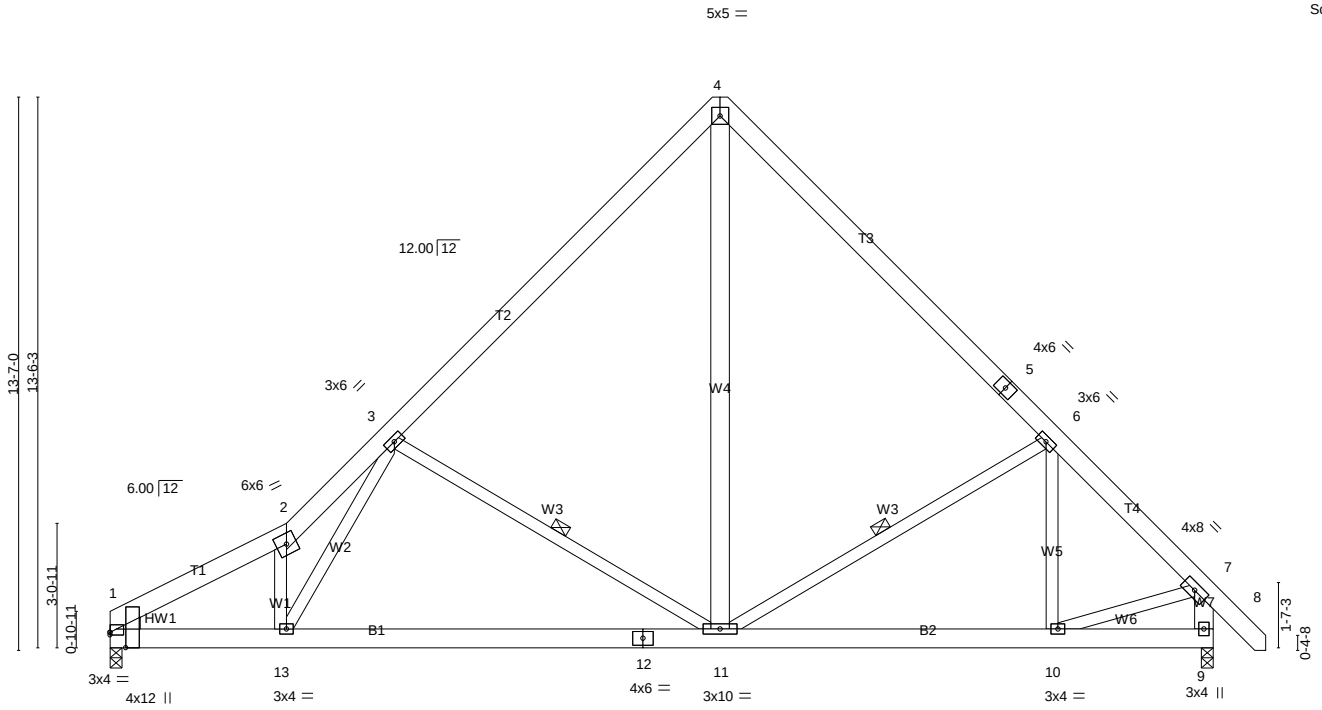
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | G2 | ROOF SPECIAL | 4 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:44 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-e6u38wtfMgBNtKz5CCmHQt0fWPwqi9D_7cAGBYzaPaD

| 4-4-0 | 6-11-12 | 14-11-12 | 22-11-12 | 27-1-0 | 28-4-8 |
|---|---|---|---|---|---|
| 4-4-0 | 2-7-12 | 8-0-0 | 8-0-0 | 4-1-4 | 1-3-8 |

Scale = 1:56.6




| 4-4-0 | 14-11-12 | 22-11-12 | 27-1-0 |
|---|---|---|---|
| 4-4-0 | 10-7-12 | 8-0-0 | 4-1-4 |

Plate Offsets (X,Y)-- [1:0-0-0,0-0-12], [1:0-4-8,Edge]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.08 | 11-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.34 | Vert(CT) | -0.18 | 11-13 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.37 | Horz(CT) | 0.02 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.03 | 11-13 | >999 | 240 | Weight: 238 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
W4,W7: 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-1-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 6-11, 3-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=1066/0-3-8 (min. 0-1-8), 9=1154/0-3-8 (min. 0-1-8)
Max Horz 1=309(LC 11)
Max Uplift1=-44(LC 12), 9=-46(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1826/332, 2-3=-2113/490, 3-14=-977/318, 4-14=-913/355, 4-15=-908/346, 5-15=-915/308, 5-6=-978/283, 6-16=-971/258, 7-16=-1073/252, 7-9=-1115/306
BOT CHORD 1-13=-216/1680, 13-17=-167/1253, 17-18=-167/1253, 12-18=-167/1253, 11-12=-167/1253, 10-11=-90/739
WEBS 2-13=-636/222, 4-11=-220/854, 6-11=-409/271, 7-10=-153/783, 3-11=-777/367, 3-13=-129/997

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-4-0, Interior(1) 4-4-0 to 14-11-12, Exterior(2) 14-11-12 to 19-4-9, Interior(1) 19-4-9 to 28-2-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
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.

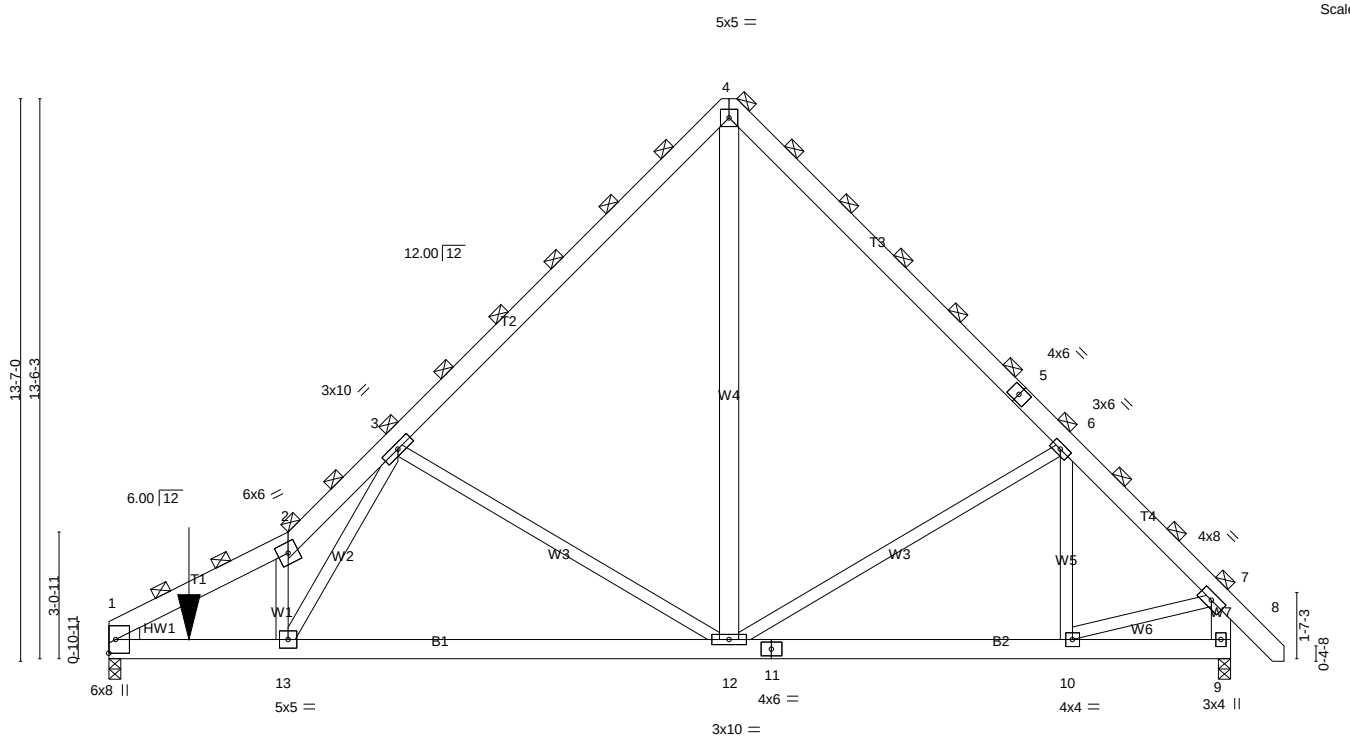
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | G2-GR | ROOF SPECIAL GIRDER | 1 | 2 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:45 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-6ISSLGtI7zJEUUYHlwHWz5ZlWoBjRWB8LGwqk?zaPaC

| 4-4-0 | 6-11-12 | 14-11-12 | 22-11-12 | 27-1-0 | 28-4-8 |
|---|---|---|---|---|---|
| 4-4-0 | 2-7-12 | 8-0-0 | 8-0-0 | 4-1-4 | 1-3-8 |

Scale = 1:55.6




| 4-4-0 | 14-11-12 | 22-11-12 | 27-1-0 |
|---|---|---|---|
| 4-4-0 | 10-7-12 | 8-0-0 | 4-1-4 |

| **LOADING** (psf) | | **SPACING-** 6-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC | 0.57 | Vert(LL) | -0.12 | 12-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC | 0.68 | Vert(CT) | -0.27 | 12-13 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr NO | WB | 0.77 | Horz(CT) | 0.03 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | Matrix-S | | Wind(LL) | 0.05 | 12-13 | >999 | 240 | Weight: 476 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
W4,W7: 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2

**BRACING-**
TOP CHORD 2-0-0 oc purlins (5-7-1 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.

**REACTIONS.** (lb/size) 1=3881/0-3-8 (min. 0-2-5), 9=3510/0-3-8 (min. 0-2-1)
Max Horz 1=927(LC 7)
Max Uplift1=-195(LC 8), 9=-144(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5995/133, 2-3=-7023/291, 3-4=-2991/577, 4-5=-2495/576, 5-6=-2993/389, 6-7=-3275/260, 7-9=-3396/180
BOT CHORD 1-14=-421/5519, 13-14=-421/5519, 13-15=-501/3962, 15-16=-501/3962, 12-16=-501/3962, 11-12=-34/2255, 10-11=-34/2255
WEBS 2-13=-2123/162, 3-12=-2362/840, 4-12=-230/2204, 6-12=-877/731, 6-10=-475/249, 7-10=-89/2388, 3-13=0/3695

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=195, 9=144.
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.

Continued on page 2

**NOTES-**

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 865 lb down and 92 lb up at 1-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

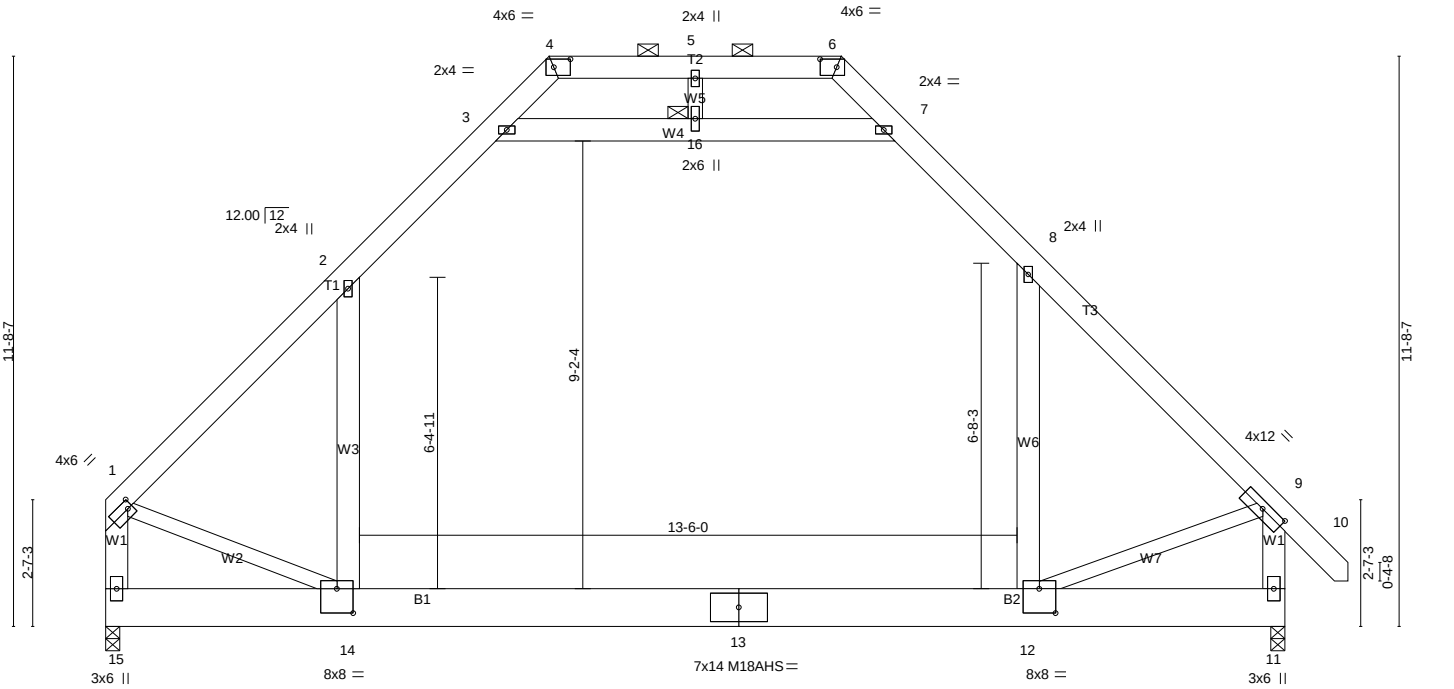
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-180, 2-4=-180, 4-7=-180, 7-8=-180, 1-9=-60
   Concentrated Loads (lb)
   Vert: 14=-731(F)

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | H1 | ATTIC | 7 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:45 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-6ISSLGtI7zJEUUYHlwHWz5Zfoo7ORd78LGwqk?zaPaC

| 4-11-12 | 8-2-13 | 9-1-4 | 12-1-4 | 15-1-4 | 15-11-11 | 18-11-4 | 24-2-8 | 25-6-0 |
|---|---|---|---|---|---|---|---|---|
| 4-11-12 | 3-3-1 | 0-10-7 | 3-0-0 | 3-0-0 | 0-10-7 | 2-11-9 | 5-3-4 | 1-3-8 |

Scale = 1:47.3




| 4-11-12 | 18-11-4 | 24-2-8 |
|---|---|---|
| 4-11-12 | 13-11-8 | 5-3-4 |

Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [4:0-4-2,0-2-0], [6:0-4-2,0-2-0], [9:0-6-0,0-1-12], [12:0-4-0,0-6-0], [14:0-4-0,0-6-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.94 | Vert(LL) | -0.31 | 12-14 | >912 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.50 | 12-14 | >565 | 240 | M18AHS | 186/179 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.26 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.08 | 12-14 | >999 | 240 | Weight: 248 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1 *Except*
T1: 2x6 SP 2400F 2.0E
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
W2,W7,W5: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-10-3 oc bracing.
JOINTS 1 Brace at Jt(s): 16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 15=1300/0-3-8 (min. 0-1-14), 11=1381/0-3-8 (min. 0-1-15)
Max Horz 15=-237(LC 8)
Max Grav 15=1606(LC 2), 11=1662(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1738/0, 17-18=-1586/0, 2-18=-1570/0, 2-3=-1080/191, 3-4=-150/433, 4-5=0/720, 5-6=0/720, 6-7=-143/443, 7-8=-1058/188, 8-19=-1575/0, 9-19=-1735/0, 1-15=-1817/0, 9-11=-1828/46
BOT CHORD 14-15=-210/334, 13-14=0/1092, 12-13=0/1092
WEBS 2-14=0/775, 3-16=-1660/146, 7-16=-1660/146, 8-12=0/786, 1-14=0/1072, 9-12=0/1024

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-2-6, Exterior(2) 9-2-6 to 21-2-12, Interior(1) 21-2-12 to 25-4-6 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-16, 7-16; Wall dead load (5.0psf) on member(s).2-14, 8-12
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
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.
11) Attic room checked for L/360 deflection.

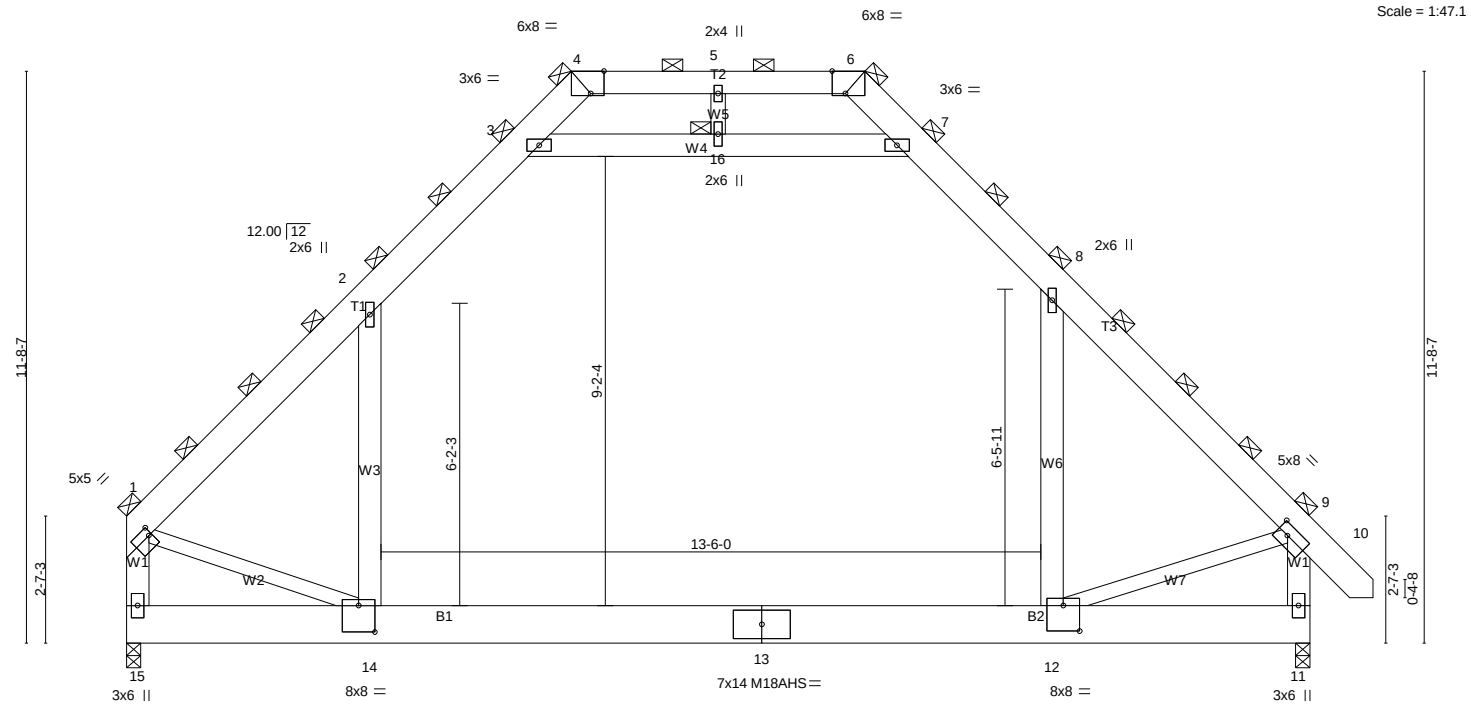
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | H1-GR | ATTIC | 1 | 2 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:46 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-aV0qYcuwuHR56e7TJdolVI6q7CahA3KHawfNGRzaPaB

| 4-11-12 | 8-5-5 | 9-1-4 | 12-1-4 | 15-1-4 | 15-9-3 | 18-11-4 | 24-2-8 | 25-6-0 |
|---|---|---|---|---|---|---|---|---|
| 4-11-12 | 3-5-9 | 0-7-15 | 3-0-0 | 3-0-0 | 0-7-15 | 3-2-1 | 5-3-4 | 1-3-8 |

Scale = 1:47.1




| 4-11-12 | 18-11-4 | 24-2-8 |
|---|---|---|
| 4-11-12 | 13-11-8 | 5-3-4 |

Plate Offsets (X,Y)-- [1:0-0-12,0-2-0], [4:0-3-4,Edge], [6:0-3-4,Edge], [9:0-2-12,0-2-8], [12:0-4-0,0-6-4], [14:0-4-0,0-6-8]

| LOADING (psf) | | SPACING- | 5-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.28 | 12-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.51 | Vert(CT) | -0.45 | 12-14 | >638 | 240 | M18AHS | 186/179 |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.33 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.07 | 12-14 | >999 | 240 | Weight: 533 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x8 SP No.1 *Except* T2: 2x6 SP No.1 |
| BOT CHORD | 2x10 SP 2400F 2.0E |
| WEBS | 2x6 SP No.1 *Except* W2,W7,W5: 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0). |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| JOINTS | 1 Brace at Jt(s): 1, 4, 6, 9, 16 |

**REACTIONS.** (lb/size) 15=3249/0-3-8 (min. 0-1-11), 11=3435/0-3-8 (min. 0-1-11)
Max Horz 15=-595(LC 4)
Max Grav 15=4013(LC 2), 11=4139(LC 2)

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

| | |
|---|---|
| TOP CHORD | 1-2=-4408/0, 2-3=-2729/0, 3-4=-359/1055, 4-5=0/1776, 5-6=0/1776, 6-7=-345/1089, 7-8=-2665/0, 8-9=-4399/0, 1-15=-4555/0, 9-11=-4588/0 |
| BOT CHORD | 14-15=-523/830, 13-14=0/2767, 12-13=0/2767, 11-12=-68/464 |
| WEBS | 2-14=0/1992, 3-16=-4158/0, 7-16=-4158/0, 8-12=0/2027, 1-14=0/2689, 9-12=0/2624 |

**NOTES-**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-16, 7-16; Wall dead load (5.0psf) on member(s).2-14, 8-12
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
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.

Continued on page 2

**NOTES-**

12) Attic room checked for L/360 deflection.

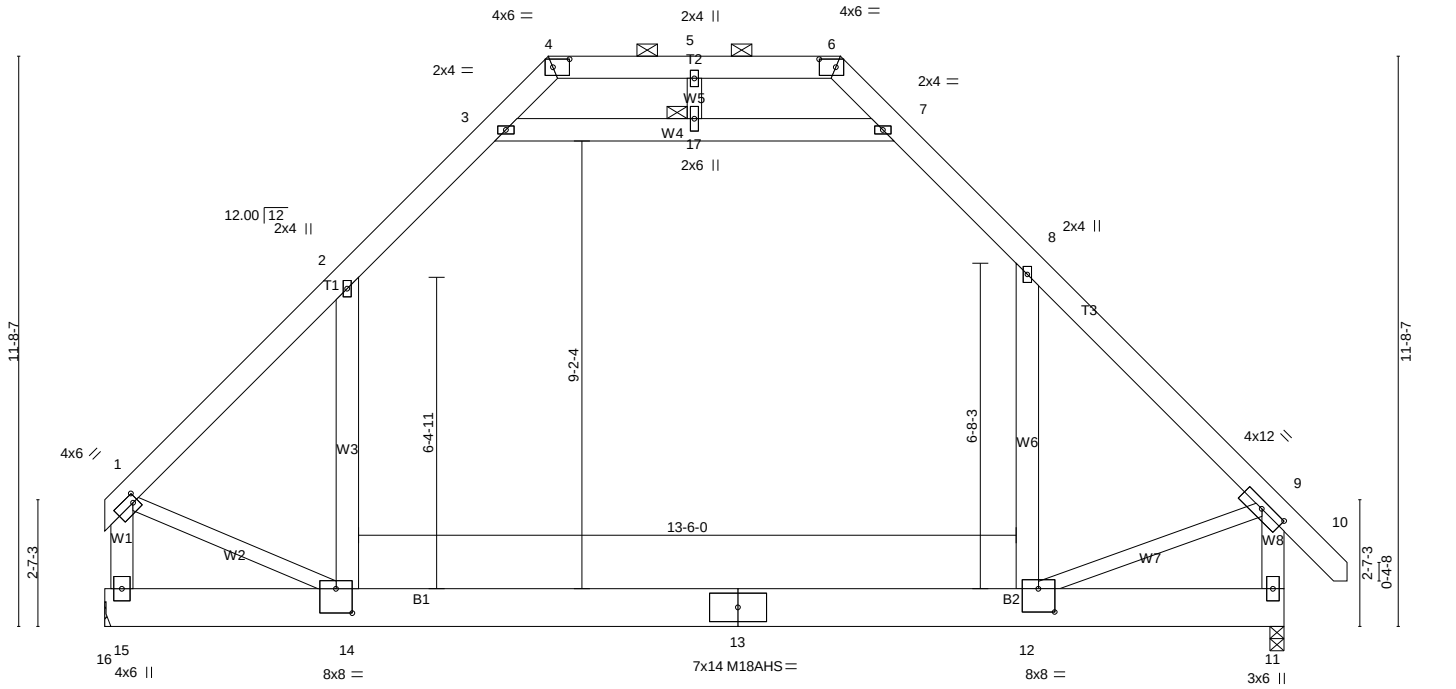
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | H2 | ATTIC | 2 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:47 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-2hZCmyvYfbZykoigtLJ_2We_IcpgvXbRpaPwotzaPaA

| 4-11-12 | 8-2-13 | 9-1-4 | 12-1-4 | 15-1-4 | 15-11-11 | 18-11-4 | 24-2-8 | 25-6-0 |
|---|---|---|---|---|---|---|---|---|
| 4-11-12 | 3-3-1 | 0-10-7 | 3-0-0 | 3-0-0 | 0-10-7 | 2-11-9 | 5-3-4 | 1-3-8 |

Scale = 1:47.3




| 4-11-12 | 18-11-4 | 24-2-8 |
|---|---|---|
| 4-11-12 | 13-11-8 | 5-3-4 |

Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [4:0-4-2,0-2-0], [6:0-4-2,0-2-0], [9:0-6-0,0-1-12], [12:0-4-0,0-5-12], [14:0-4-0,0-6-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 1.00 | Vert(LL) | -0.32 | 12-14 | >874 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.91 | Vert(CT) | -0.52 | 12-14 | >542 | 240 | M18AHS | 186/179 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.26 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.08 | 12-14 | >999 | 240 | Weight: 248 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
W2,W7,W5: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-6-8 oc bracing: 12-14.
JOINTS 1 Brace at Jt(s): 17

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 15=1304/Mechanical, 11=1374/0-3-8 (min. 0-1-15)
Max Horz 15=-237(LC 8)
Max Grav 15=1613(LC 2), 11=1653(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1710/0, 2-18=-1563/0, 2-3=-1072/191, 3-4=-156/424, 4-5=0/711, 5-6=0/711, 6-7=-147/440, 7-8=-1045/188, 8-19=-1555/0, 9-19=-1715/0, 1-15=-1830/0, 9-11=-1807/45
BOT CHORD 14-15=-208/327, 13-14=0/1077, 12-13=0/1077
WEBS 2-14=0/755, 3-17=-1637/146, 7-17=-1637/146, 8-12=0/777, 1-14=0/1078, 9-12=0/1005

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-11-12, Interior(1) 4-11-12 to 9-2-6, Exterior(2) 9-2-6 to 21-2-12, Interior(1) 21-2-12 to 25-4-6 zone;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-17, 7-17; Wall dead load (5.0psf) on member(s).2-14, 8-12
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
9) Refer to girder(s) for truss to truss connections.
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.

Continued on page 2

**NOTES-**

12) Attic room checked for L/360 deflection.

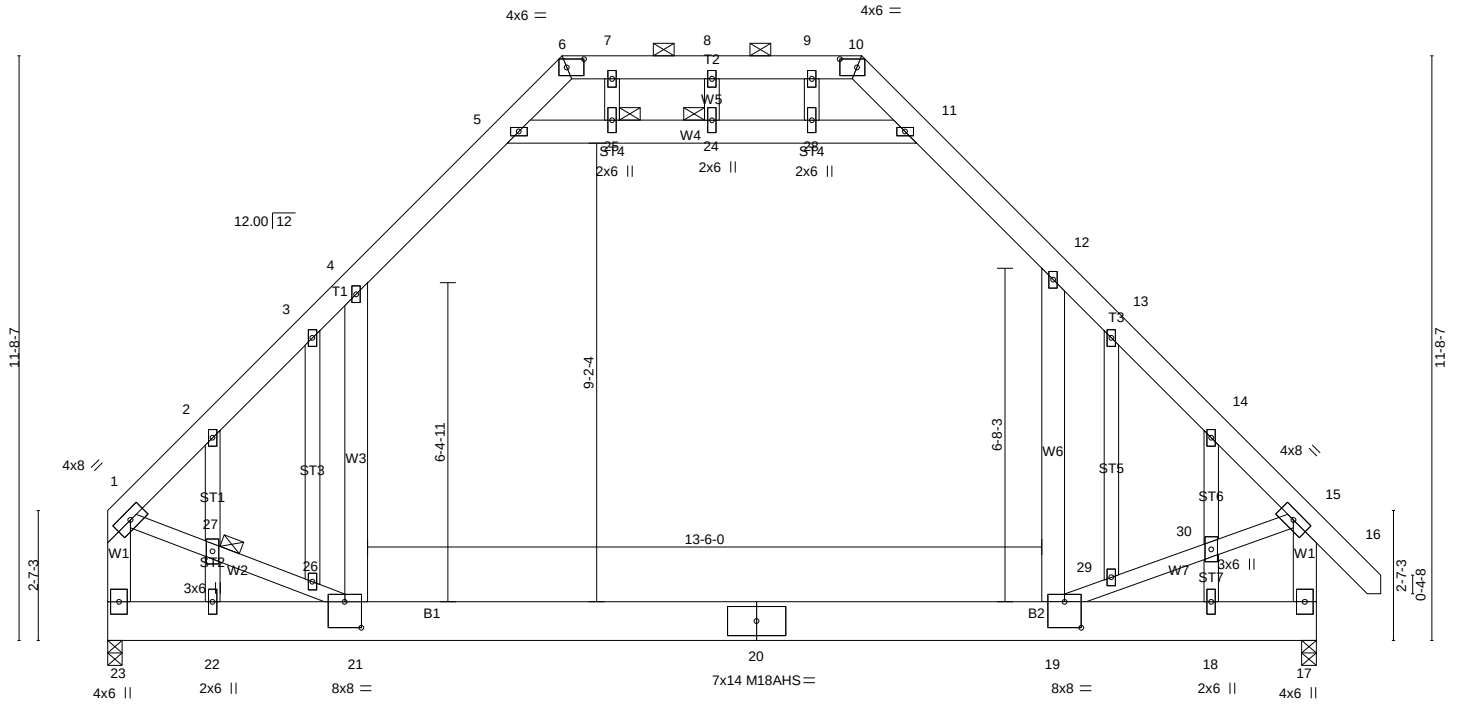
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | H2GE | GABLE | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:48 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-Wt7azIwAPuhpLxHsR2qDbjBAG0AxerPa1E8ULJzaPa9

| 4-11-12 | 8-2-13 | 9-1-4 | 12-1-4 | 15-1-4 | 15-11-11 | 18-11-4 | 24-2-8 | 25-6-0 |
|---|---|---|---|---|---|---|---|---|
| 4-11-12 | 3-3-1 | 0-10-7 | 3-0-0 | 3-0-0 | 0-10-7 | 2-11-9 | 5-3-4 | 1-3-8 |

Scale = 1:46.1




| 4-11-12 | 18-11-4 | 24-2-8 |
|---|---|---|
| 4-11-12 | 13-11-8 | 5-3-4 |

Plate Offsets (X,Y)-- [6:0-4-2,0-2-0], [10:0-4-2,0-2-0], [19:0-4-0,0-6-4], [21:0-4-0,0-6-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.92 | Vert(LL) | -0.29 | 19-21 | >983 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.47 | 19-21 | >610 | 240 | M18AHS | 186/179 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.86 | Horz(CT) | 0.01 | 17 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.10 | 19-21 | >999 | 240 | Weight: 275 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 |
| BOT CHORD | 2x10 SP No.1 |
| WEBS | 2x6 SP No.1 *Except* W2,W7,W5: 2x4 SP No.2 |
| OTHERS | 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-0-8 oc bracing: 19-21. |
| JOINTS | 1 Brace at Jt(s): 24, 25, 27 |

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 23=1300/0-3-8 (min. 0-1-14), 17=1381/0-3-8 (min. 0-1-15)
Max Horz 23=-296(LC 8)
Max Grav 23=1606(LC 2), 17=1662(LC 2)

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

| | |
|---|---|
| TOP CHORD | 1-2=-1439/0, 2-3=-1810/0, 3-4=-1750/46, 4-5=-1083/210, 5-6=-257/305, 6-7=-30/603, 7-8=-30/603, 8-9=-30/603, 9-10=-30/603, 10-11=-249/330, 11-12=-1057/210, 12-13=-1708/62, 13-14=-1772/0, 14-15=-1442/0, 1-23=-1307/0, 15-17=-1355/0 |
| BOT CHORD | 22-23=-284/400, 21-22=-284/400, 20-21=0/1093, 19-20=0/1093 |
| WEBS | 4-21=0/1051, 5-25=-1544/166, 24-25=-1544/166, 24-28=-1544/166, 11-28=-1544/166, 12-19=0/1006, 1-27=0/1066, 26-27=0/1129, 21-26=-25/1119, 19-29=-19/1156, 29-30=0/1148, 15-30=0/1093, 2-27=-613/113, 22-27=-801/107, 14-30=-554/100, 18-30=-736/101 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
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.

Continued on page 2

**NOTES-**

9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Ceiling dead load (10.0 psf) on member(s). 4-5, 11-12, 5-25, 24-25, 24-28, 11-28; Wall dead load (5.0psf) on member(s).4-21, 12-19
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21
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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.

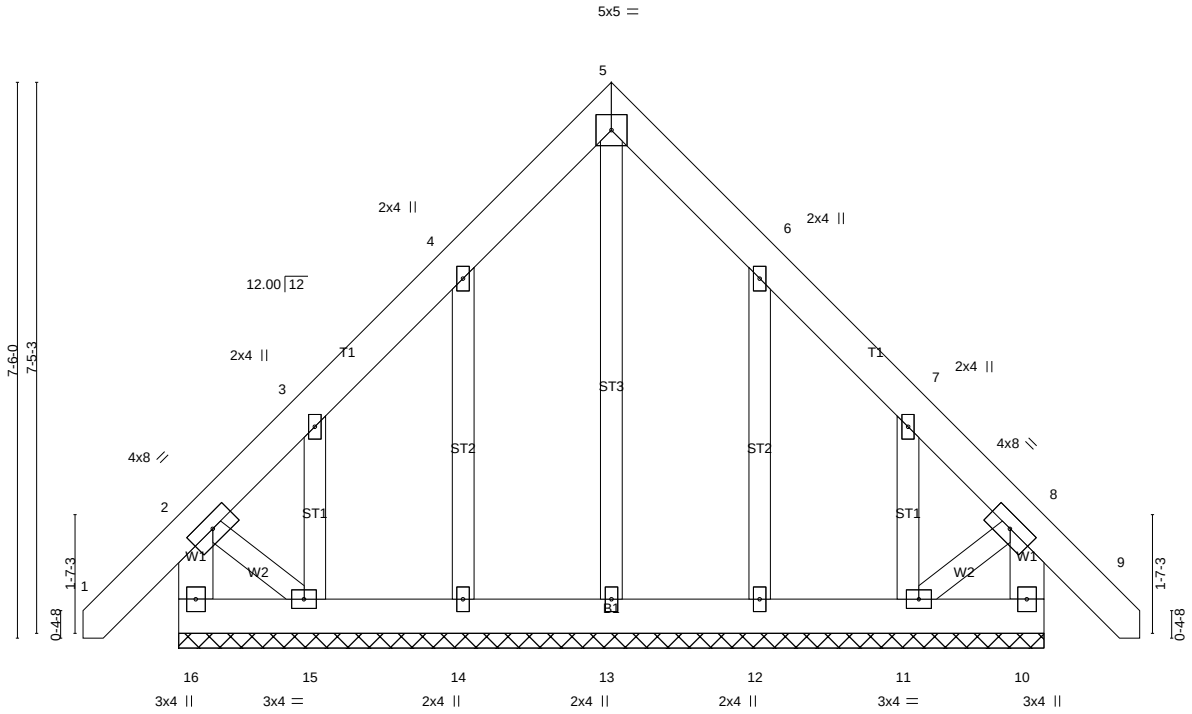
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | K1GE | COMMON SUPPORTED GAB | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:49 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-_3hyBewoACpfz5s2_mLS7xkZSQj1NTikGuu1tmzaPa8

-1-3-8 | 7-1-8 | 12-11-8 | 14-3-0
1-3-8 | 5-10-0 | 5-10-0 | 1-3-8

Scale = 1:31.1




-1-3-8 | 12-11-8 | 14-3-0
1-3-8 | 11-8-0 | 1-3-8

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.06 | Vert(LL) | -0.00 | 9 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | -0.00 | 9 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 115 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
W2: 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 11-8-0.
(lb) - Max Horz 16=-212(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 12 except 15=-163(LC 12), 11=-159(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -1-1-14 to 3-2-15, Exterior(2) 3-2-15 to 5-10-0, Corner(3) 5-10-0 to 10-2-13, Exterior(2) 10-2-13 to 12-9-14 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 12 except (jt=lb) 15=163, 11=159.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | M1 | JACK-CLOSED | 7 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:50 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-SGFLOzxQxWyWbFREYTshg8Gj9p116xPtVXdbPCzaPa7

-1-3-8 3-7-8 3-9-0
1-3-8 3-7-8 0-1-8

Scale: 1"=1'

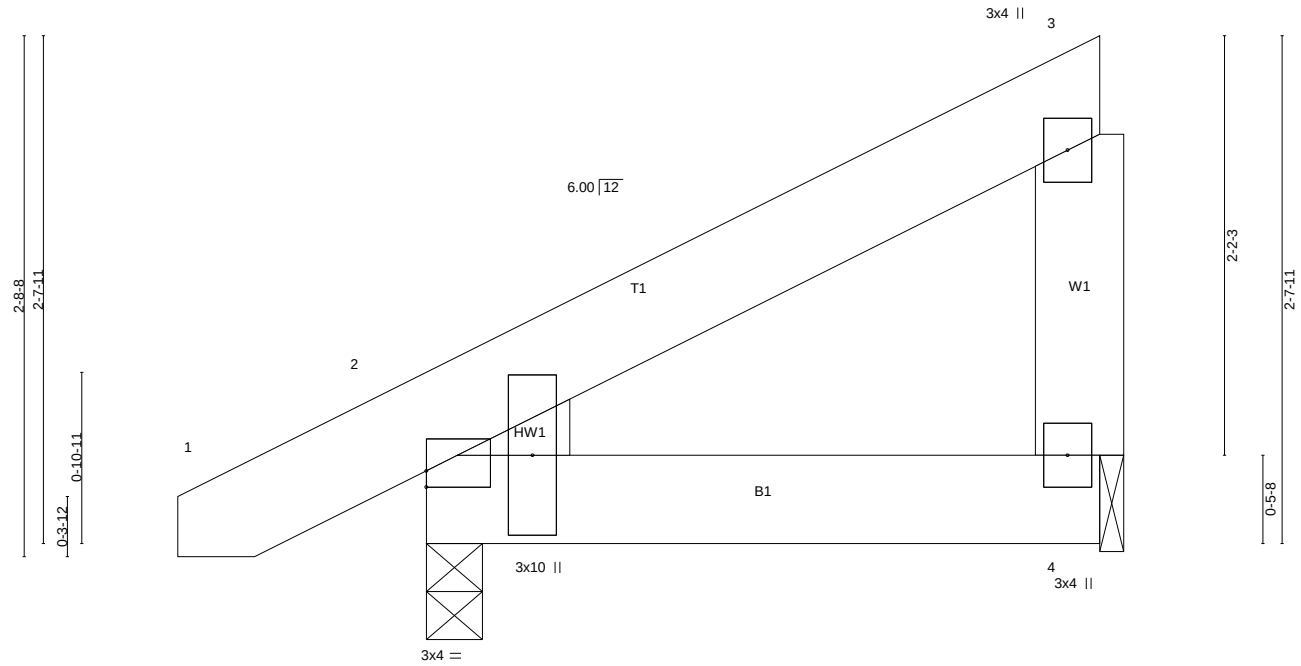



Plate Offsets (X,Y)-- [2:0-0-0,0-1-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.06 | Vert(LL) | -0.00 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | -0.00 | 2-4 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 2 | **** | 240 | Weight: 26 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=218/0-3-8 (min. 0-1-8), 4=116/0-1-8 (min. 0-1-8)
Max Horz 2=72(LC 12)
Max Uplift2=-12(LC 12), 4=-33(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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

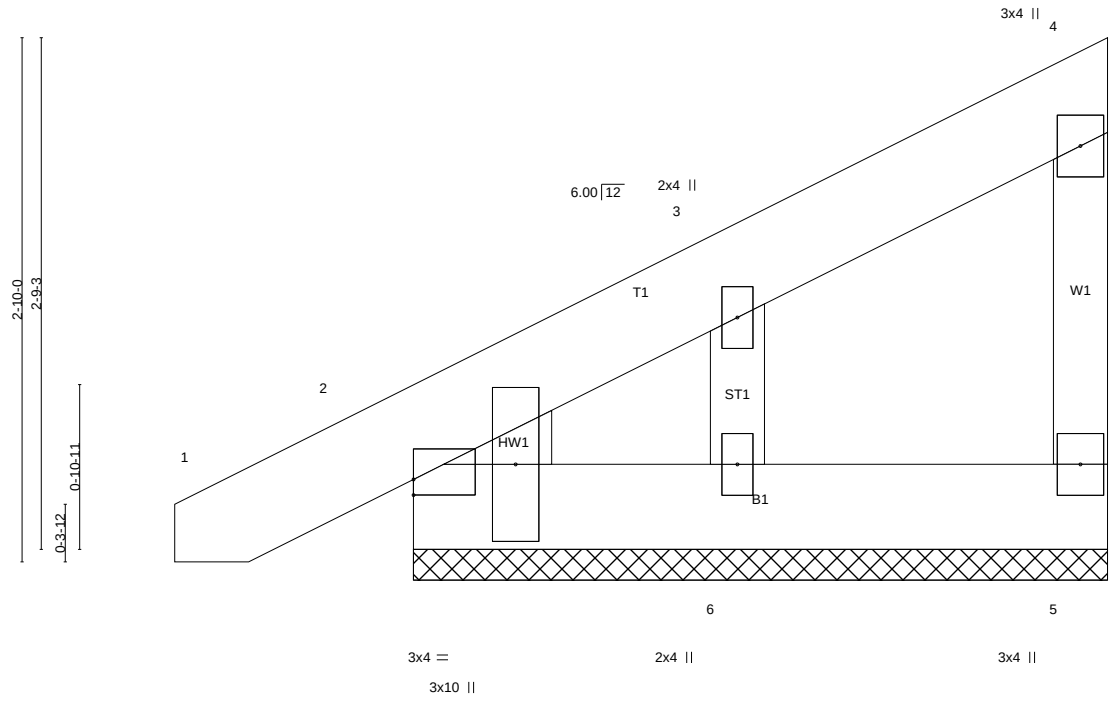
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | M1GE | MONOPITCH SUPPORTED | 2 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:51 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-wSpjcJy2ip4NCP?R6AOwCMpvWDOfrOB0kBN8xezaPa6

-1-3-8 5-0-8
1-3-8 3-9-0

Scale = 1:12.5




-1-3-8 5-0-8
1-3-8 3-9-0

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.03 | Vert(LL) | 0.00 | 1 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | -0.00 | 1 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | Weight: 27 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=63/3-9-0 (min. 0-1-8), 2=144/3-9-0 (min. 0-1-8), 6=148/3-9-0 (min. 0-1-8)
Max Horz 2=109(LC 12)
Max Uplift5=-27(LC 12), 2=-3(LC 8), 6=-84(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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

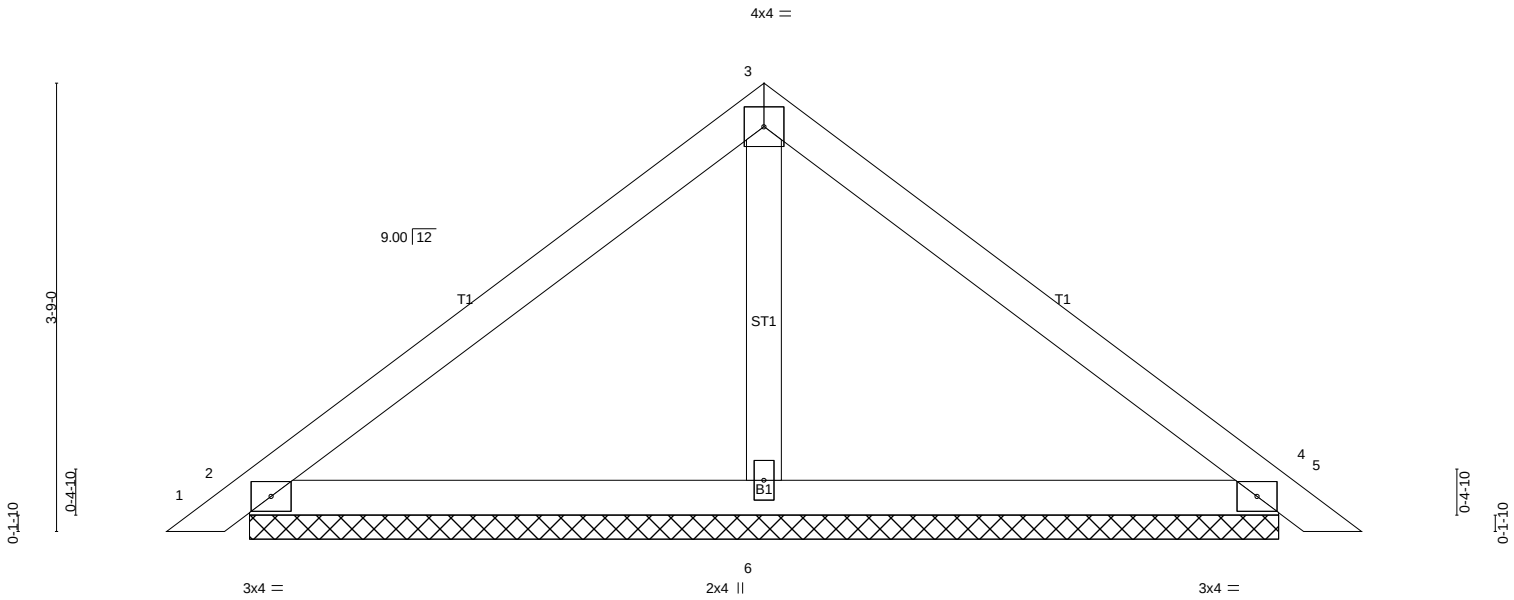
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | PB1 | PIGGYBACK | 19 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:52 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-PeN5pfzhT7CEqZadguv9lZM0XdiuarIAyr6hU5zaPa5

5-0-0 10-0-0
5-0-0 5-0-0

Scale = 1:19.3




10-0-0
10-0-0

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.26 | Vert(LL) | 0.01 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | 0.02 | 5 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | Weight: 36 lb | FT = 20% |

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=222/8-7-5 (min. 0-1-8), 4=222/8-7-5 (min. 0-1-8), 6=299/8-7-5 (min. 0-1-8)
Max Horz 2=-86(LC 10)
Max Uplift2=-37(LC 12), 4=-46(LC 13)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-15 to 4-7-11, Interior(1) 4-7-11 to 5-0-0, Exterior(2) 5-0-0 to 9-3-11, Interior(1) 9-3-11 to 9-9-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

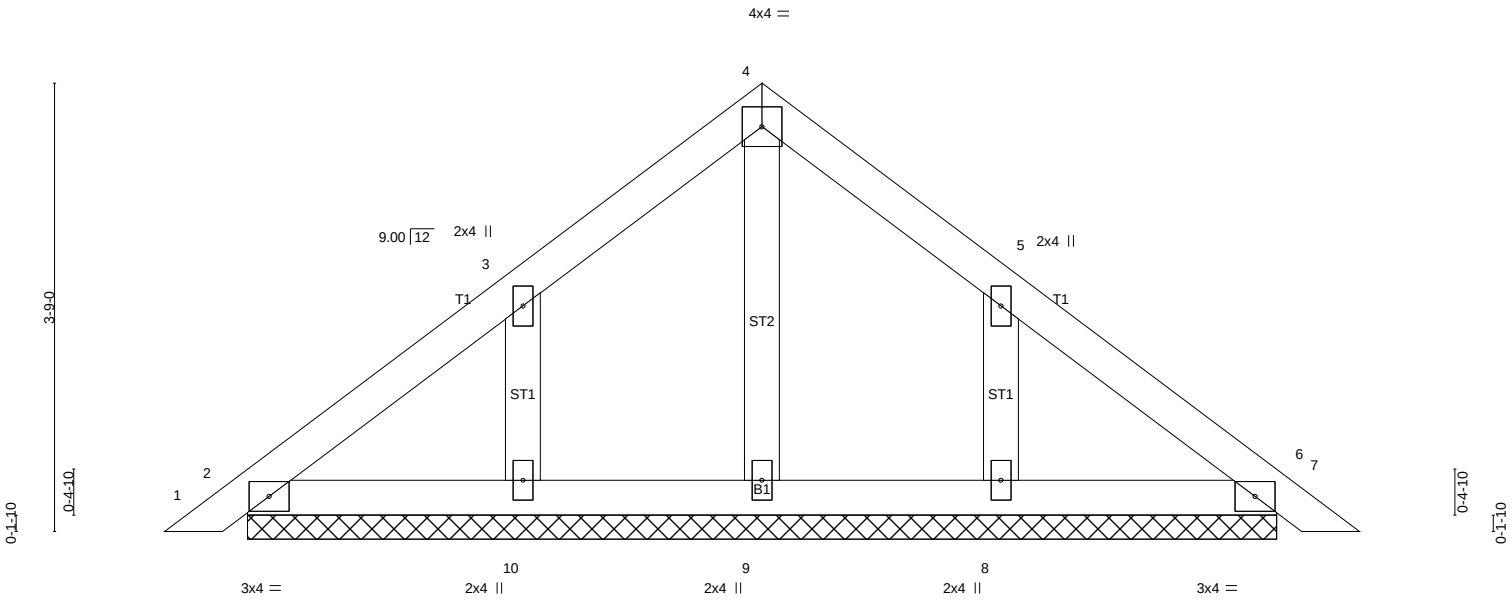
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | PB1GE | GABLE | 2 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:52 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-PeN5pfzhT7CEqZadguv9lZM4odkYarRAyr6hU5zaPa5

5-0-0 10-0-0
5-0-0 5-0-0

Scale = 1:19.3




10-0-0
10-0-0

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.06 | Vert(LL) | 0.00 | 6 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 7 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | Weight: 40 lb | FT = 20% |

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 8-7-5.
(lb) - Max Horz 2=107(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-133(LC 12), 8=-132(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=133, 8=132.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

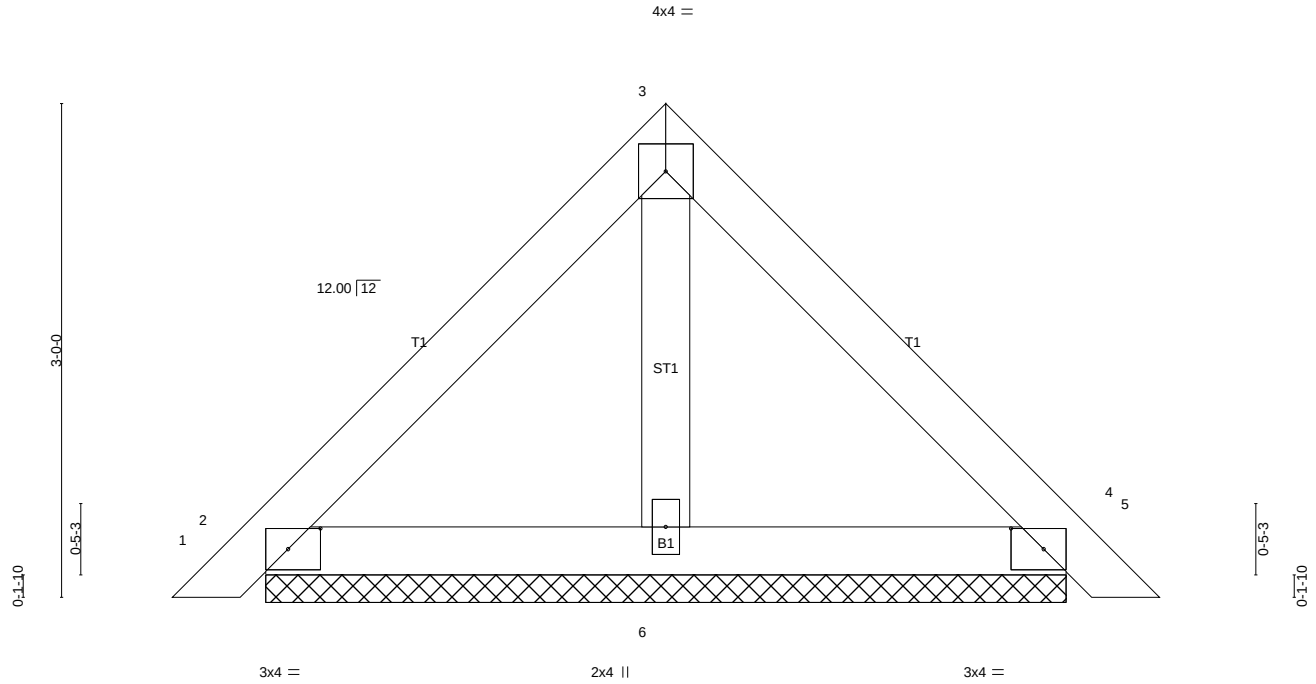
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | PB2 | PIGGYBACK | 11 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:53 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-trxT0?zJERK5Sj9pDbQOInuEr14aJIzJBVsF0XzaPa4

3-0-0 6-0-0
3-0-0 3-0-0

Scale = 1:14.0




6-0-0
6-0-0

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-2-6,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.10 | Vert(LL) | 0.00 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | 0.00 | 5 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | Weight: 23 lb | FT = 20% |

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=142/4-10-6 (min. 0-1-8), 4=142/4-10-6 (min. 0-1-8), 6=149/4-10-6 (min. 0-1-8)
Max Horz 2=-84(LC 10)
Max Uplift2=-48(LC 13), 4=-54(LC 13)
Max Grav 2=142(LC 1), 4=142(LC 1), 6=151(LC 3)

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

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

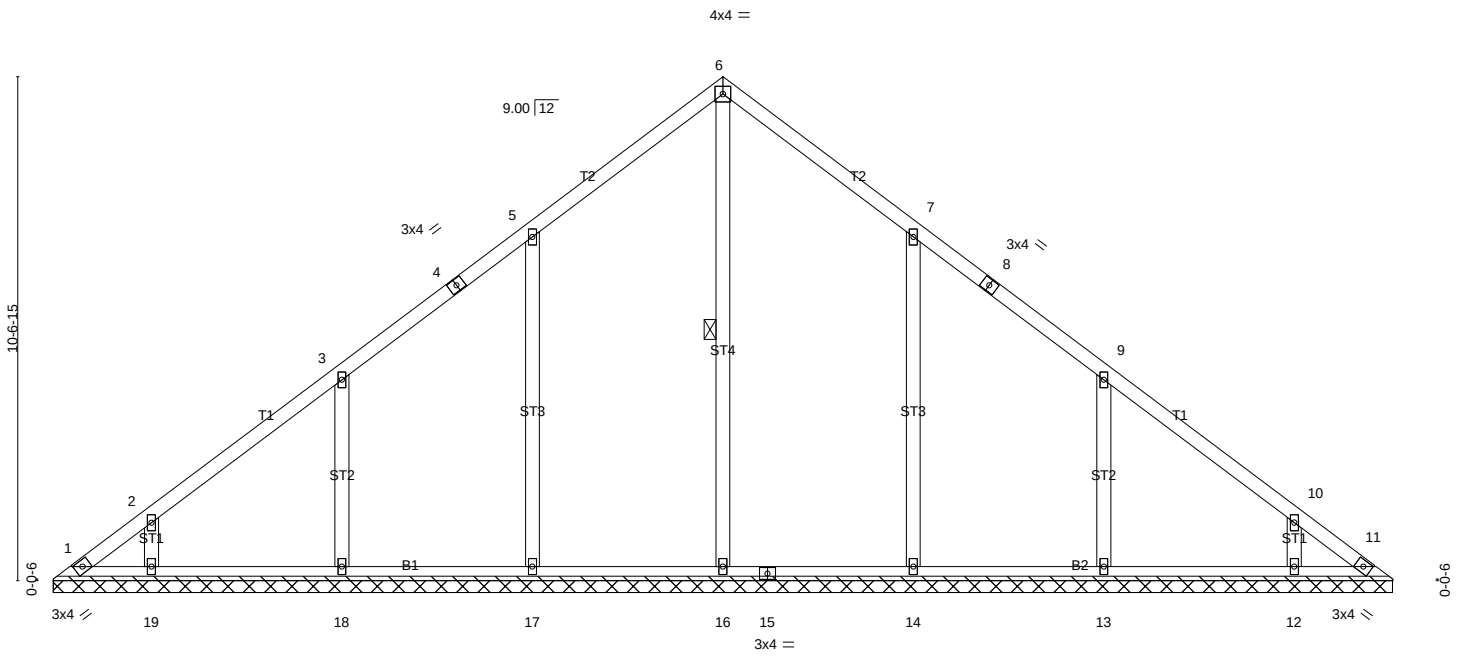
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | V1 | VALLEY | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:54 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-L1UrEL_x?kSy3sk0nJxdq_ROuROo2hqTQ9boYzzaPa3

14-1-4 28-2-9
14-1-4 14-1-5

Scale: 1/4"=1'




0-0-8 28-2-9
0-0-8 28-2-1

Plate Offsets (X,Y)-- [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.29 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 143 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 28-1-9.
(lb) - Max Horz 1=-246(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 11 except 1=-101(LC 10), 17=-117(LC 12), 18=-109(LC 12), 14=-117(LC 13), 13=-109(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=441(LC 22), 17=558(LC 19), 18=445(LC 19), 19=276(LC 19), 14=558(LC 20), 13=446(LC 20), 12=276(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-254/206, 5-6=-260/242, 6-7=-260/242
WEBS 5-17=-323/221, 3-18=-315/197, 2-19=-262/194, 7-14=-323/221, 9-13=-315/197, 10-12=-262/194

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 14-1-4, Exterior(2) 14-1-4 to 18-6-1, Interior(1) 18-6-1 to 27-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12, 11 except (jt=lb) 1=101, 17=117, 18=109, 14=117, 13=109.
7) Non Standard bearing condition. Review required.
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.

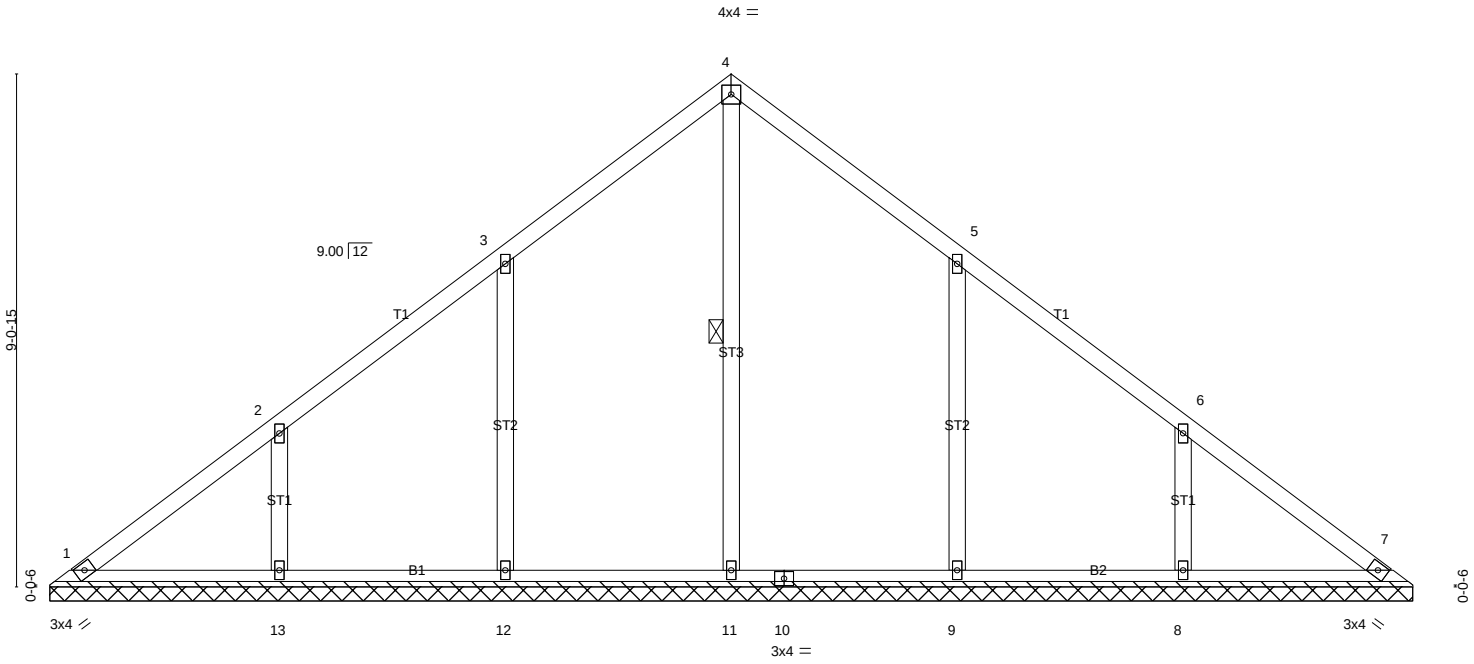
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | V2 | VALLEY | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:55 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-pD2ERh?Zm2aph0JCL0SsNC_ZeqkGnAocepLL4PzaPa2

12-1-4 | 24-2-9
12-1-4 | 12-1-5

Scale = 1:40.8




0-0-8 | 24-2-9
0-0-8 | 24-2-1

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | 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 | 0.18 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 116 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 24-1-9.
(lb) - Max Horz 1=-210(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 12=-117(LC 12), 13=-113(LC 12), 9=-116(LC 13), 8=-114(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=435(LC 22), 12=542(LC 19), 13=399(LC 19), 9=542(LC 20), 8=400(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-323/222, 2-13=-320/220, 5-9=-323/222, 6-8=-320/220

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 12-1-4, Exterior(2) 12-1-4 to 16-6-1, Interior(1) 16-6-1 to 23-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=117, 13=113, 9=116, 8=114.
7) Non Standard bearing condition. Review required.
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.

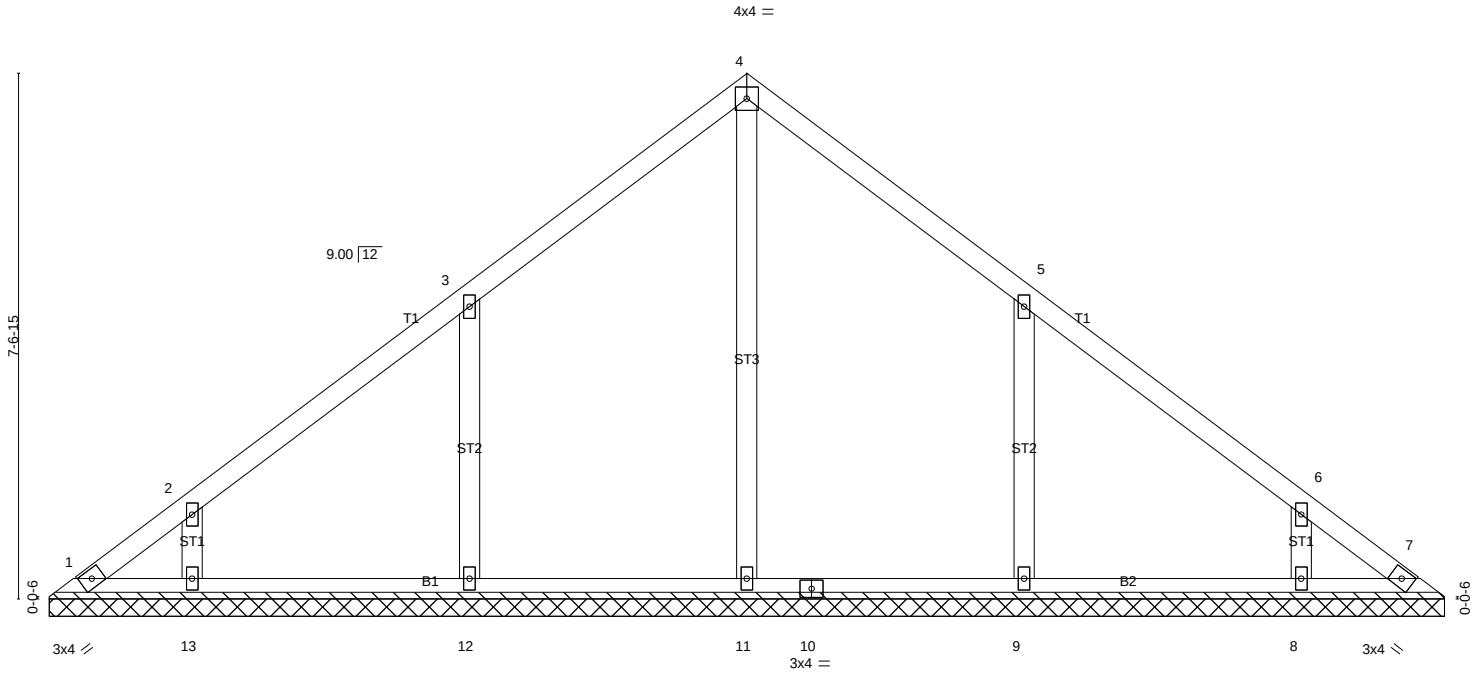
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | V3 | VALLEY | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:56 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-HQccf10BXMigJAuOvkz5vPWkCE33WdcltT4vdszaPa1

10-1-4 | 20-2-9
10-1-4 | 10-1-5

Scale = 1:33.2




0-0-8 | 20-2-9
0-0-8 | 20-2-1

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.15 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 91 lb | FT = 20% |

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 20-1-9.
(lb) - Max Horz 1=-174(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-122(LC 12), 9=-122(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=440(LC 22), 12=468(LC 19), 13=268(LC 19), 9=468(LC 20), 8=268(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-337/231, 2-13=-254/191, 5-9=-337/231, 6-8=-254/191

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 10-1-4, Exterior(2) 10-1-4 to 14-6-1, Interior(1) 14-6-1 to 19-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (jt=lb) 12=122, 9=122.
7) Non Standard bearing condition. Review required.
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.

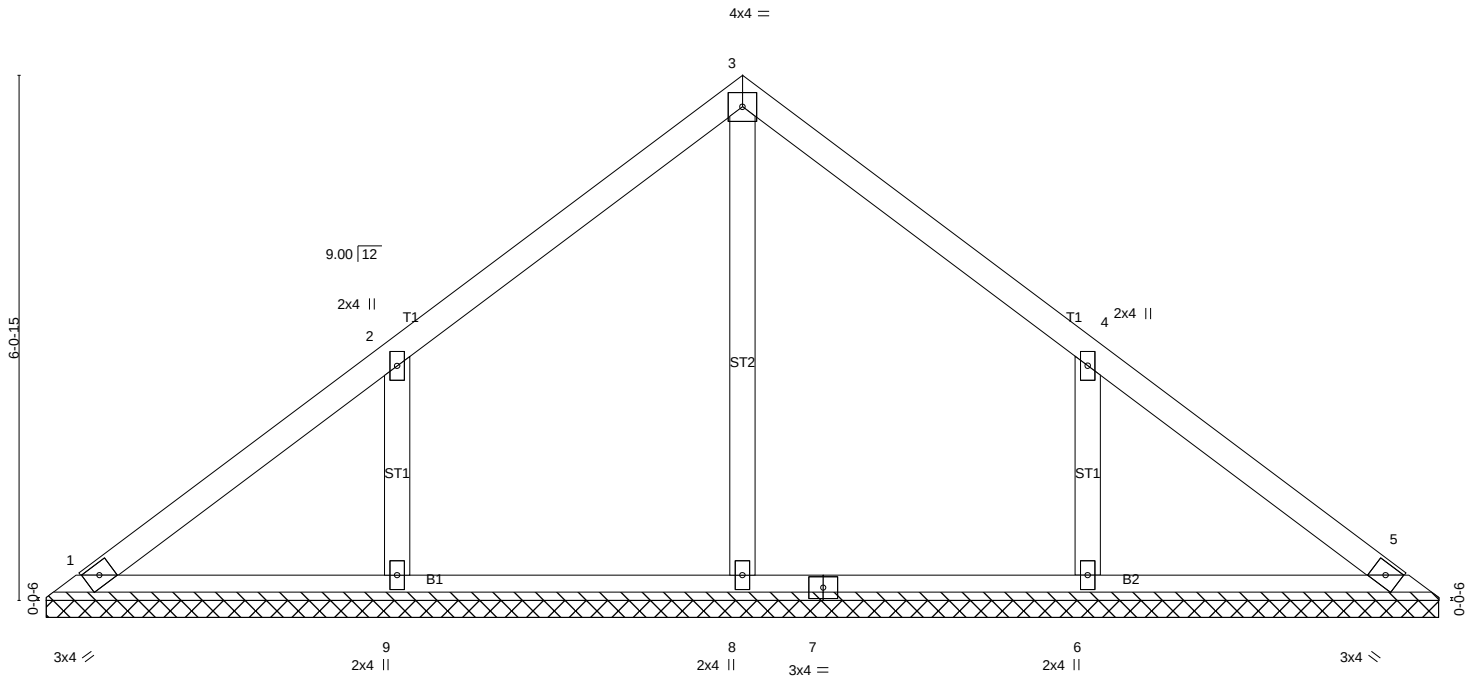
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | V4 | VALLEY | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:57 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-lcA_sN1pIfqXwKTbSRUKSd3vvePnF5jv67qS9IzaPa0

8-1-4 16-2-9
8-1-4 8-1-5

Scale = 1:26.7




0-0-8 16-2-9
0-0-8 16-2-1

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 68 lb | FT = 20% |

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 16-1-9.
(lb) - Max Horz 1=138(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-127(LC 12), 6=-127(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=406(LC 19), 9=424(LC 19), 6=424(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-344/234, 4-6=-344/234

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 8-1-4, Exterior(2) 8-1-4 to 12-6-1, Interior(1) 12-6-1 to 15-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=127, 6=127.
6) Non Standard bearing condition. Review required.
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.

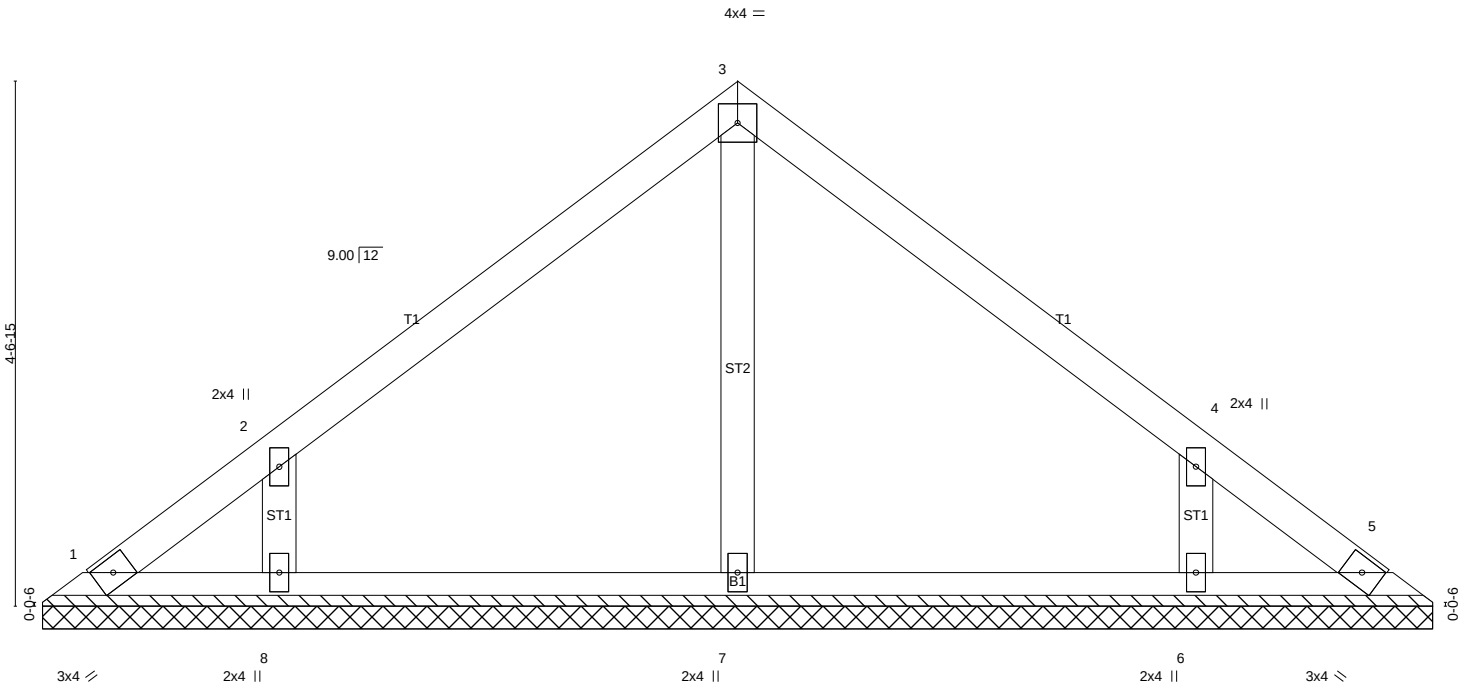
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | V5 | VALLEY | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:58 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-DokM4j1R3zyOYU2n090Z?qb482m1_ZZ2LnZ0hkzaPa?

6-1-4 12-2-9
6-1-4 6-1-5

Scale = 1:20.1




0-0-8 12-2-9
0-0-8 12-2-1

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | 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 | 0.05 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 48 lb | FT = 20% |

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 12-1-9.
(lb) - Max Horz 1=102(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-107(LC 12), 6=-107(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=253(LC 1), 8=319(LC 19), 6=319(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-295/222, 4-6=-295/222

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 6-1-4, Exterior(2) 6-1-4 to 10-6-1, Interior(1) 10-6-1 to 11-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) 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=107, 6=107.
6) Non Standard bearing condition. Review required.
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.

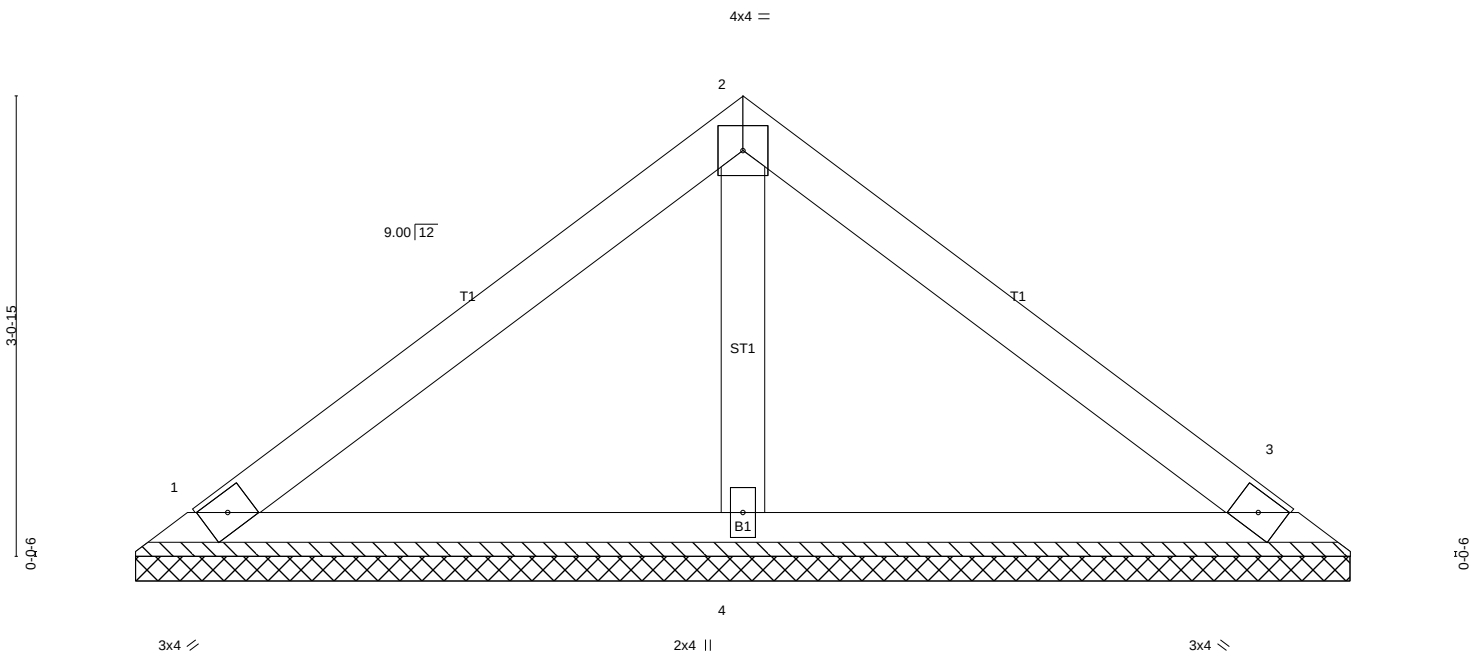
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | V6 | VALLEY | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:51:59 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-i?IkH224qH4FAedzasXoX28FyS67j0ECZRJZDBzaPa_

4-1-4 8-2-9
4-1-4 4-1-5

Scale = 1:15.4




0-0-8 8-2-9
0-0-8 8-2-1

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | Weight: 29 lb | FT = 20% |

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=165/8-1-9 (min. 0-1-8), 3=165/8-1-9 (min. 0-1-8), 4=257/8-1-9 (min. 0-1-8)
Max Horz 1=-66(LC 8)
Max Uplift1=-25(LC 12), 3=-32(LC 13)

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

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

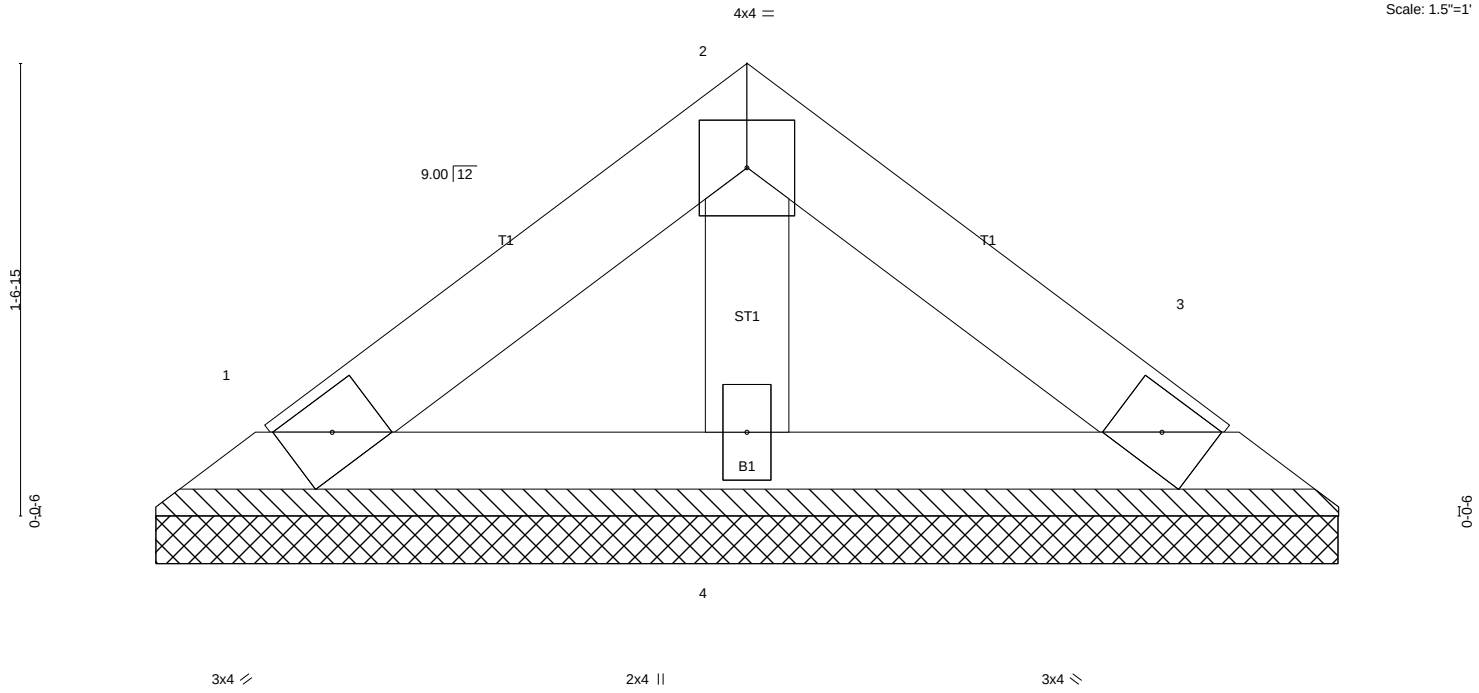
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | V7 | VALLEY | 1 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:52:00 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-ABs7UO3ibaC6nnB98Z214FhS6rTaSTmLo526ldzaPZz

2-1-4 4-2-9
2-1-4 2-1-5

Scale: 1.5"=1'




0-0-8 4-2-9
0-0-8 4-2-1

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | Weight: 14 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=75/4-1-9 (min. 0-1-8), 3=75/4-1-9 (min. 0-1-8), 4=117/4-1-9 (min. 0-1-8)
Max Horz 1=-30(LC 10)
Max Uplift1=-12(LC 12), 3=-14(LC 13)

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

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

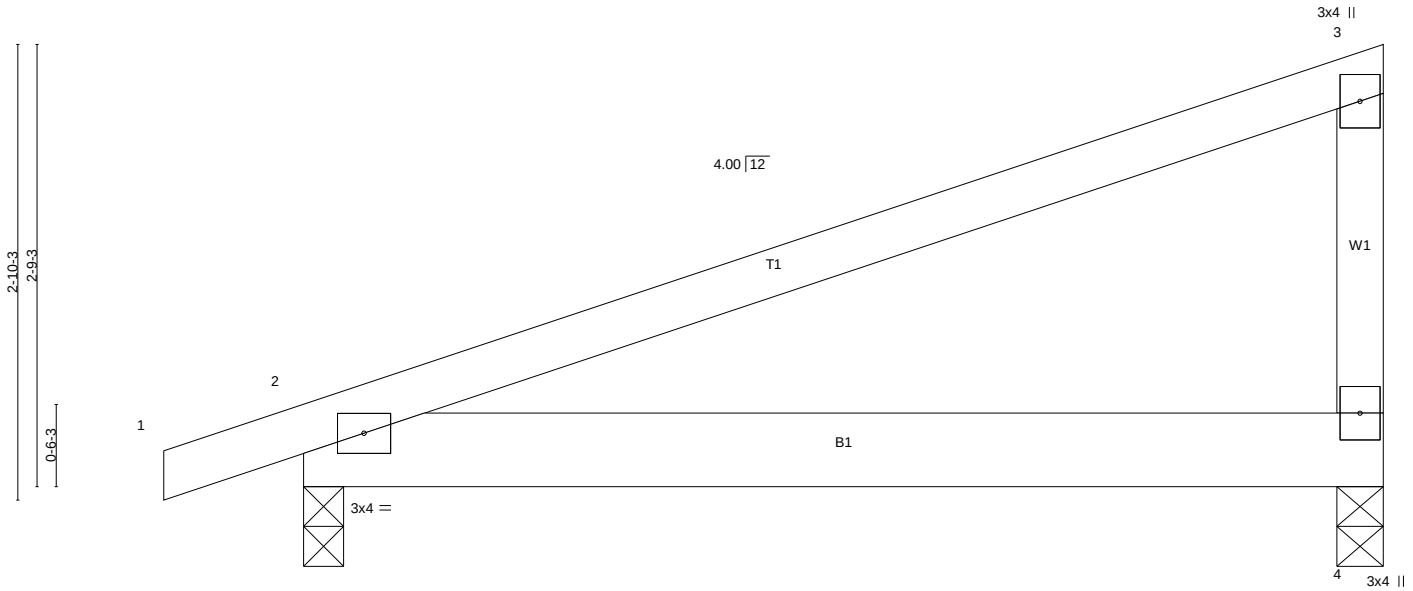
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | X1 | Monopitch | 10 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:52:00 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-ABs7UO3ibaC6nnB98Z214FhJFrRISTuLo526ldzaPZz

-0-10-8 6-9-0
0-10-8 6-9-0

Scale = 1:14.4




6-9-0
6-9-0

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.60 | Vert(LL) | -0.02 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.05 | 2-4 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | Wind(LL) | 0.05 | 2-4 | >999 | 240 | Weight: 31 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
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 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 4=255/0-3-8 (min. 0-1-8), 2=324/0-3-0 (min. 0-1-8)
Max Horz 2=84(LC 8)
Max Uplift4=-111(LC 8), 2=-125(LC 8)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-7-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=111, 2=125.
5) 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.

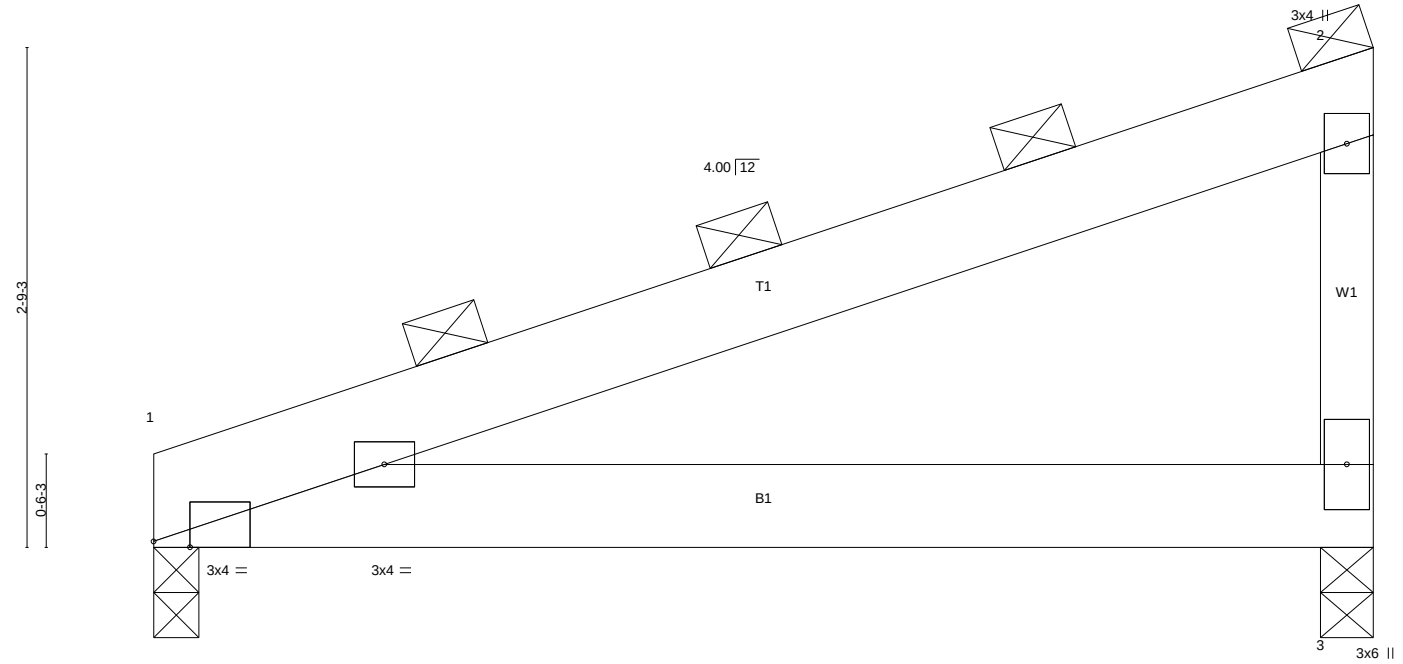
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | X1-GR | MONOPITCH | 2 | 2 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:52:01 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-eNQVik4KMuKyPxmMhHZGcTDVGFlrBw7V1logH3zaPZy

6-9-0
6-9-0

Scale = 1:12.8




6-9-0
6-9-0

Plate Offsets (X,Y)-- [1:0-2-7,Edge]

| LOADING (psf) | | SPACING- | 6-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.04 | 1-3 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.07 | 1-3 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 1 | **** | 240 | Weight: 71 lb | FT = 20% |

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

**BRACING-**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=778/0-3-0 (min. 0-1-8), 3=778/0-3-8 (min. 0-1-8)
Max Horz 1=220(LC 8)
Max Uplift1=-45(LC 8), 3=-122(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-342/52, 4-5=-310/75, 2-5=-297/153, 2-3=-583/833

**NOTES-**
1) 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered 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) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-8 to 4-6-5, Exterior(2) 4-6-5 to 6-7-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=122.
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.

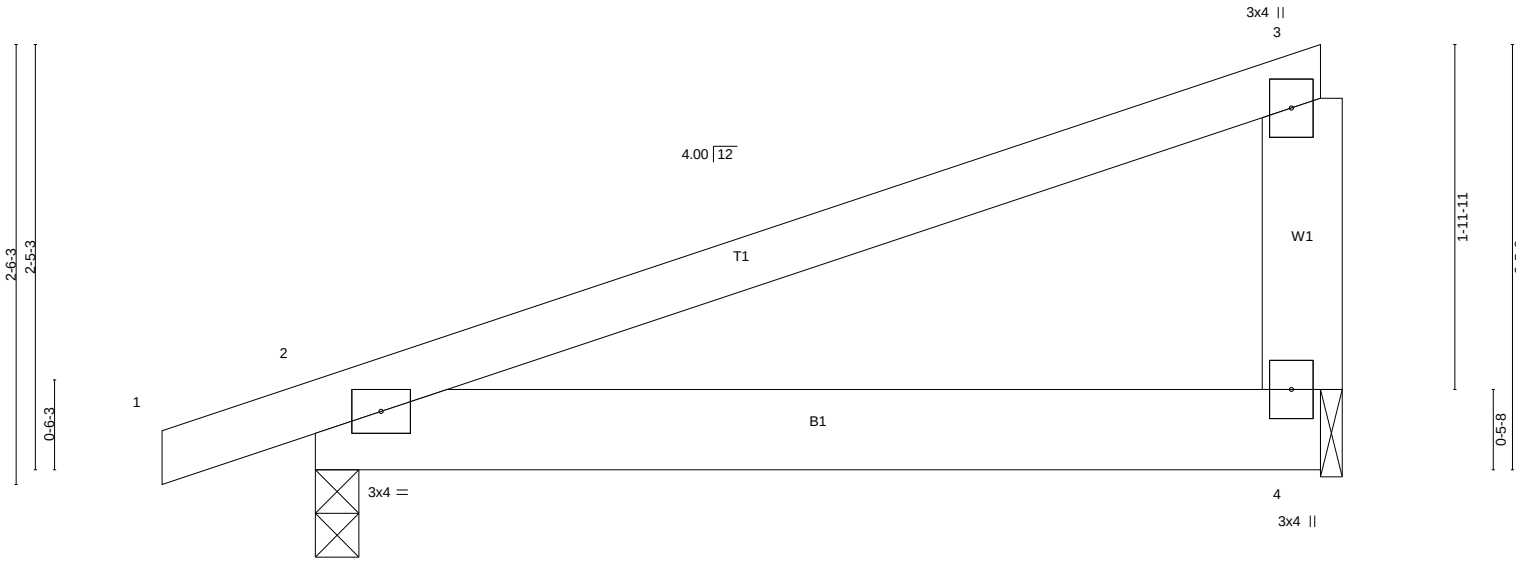
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | X2 | JACK-CLOSED | 2 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:52:02 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-6aztv44y6CSp15LYF_4V9gmhcf7XwNNeFPXDpVzaPZx

-0-10-8 5-10-8 6-0-0
0-10-8 5-10-8 0-1-8

Scale = 1:13.2




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.42 | Vert(LL) | -0.01 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.03 | 2-4 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | Wind(LL) | 0.03 | 2-4 | >999 | 240 | Weight: 28 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.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 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=286/0-3-0 (min. 0-1-8), 4=215/0-1-8 (min. 0-1-8)
Max Horz 2=73(LC 8)
Max Uplift2=-113(LC 8), 4=-94(LC 8)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-7-12 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=113.
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.

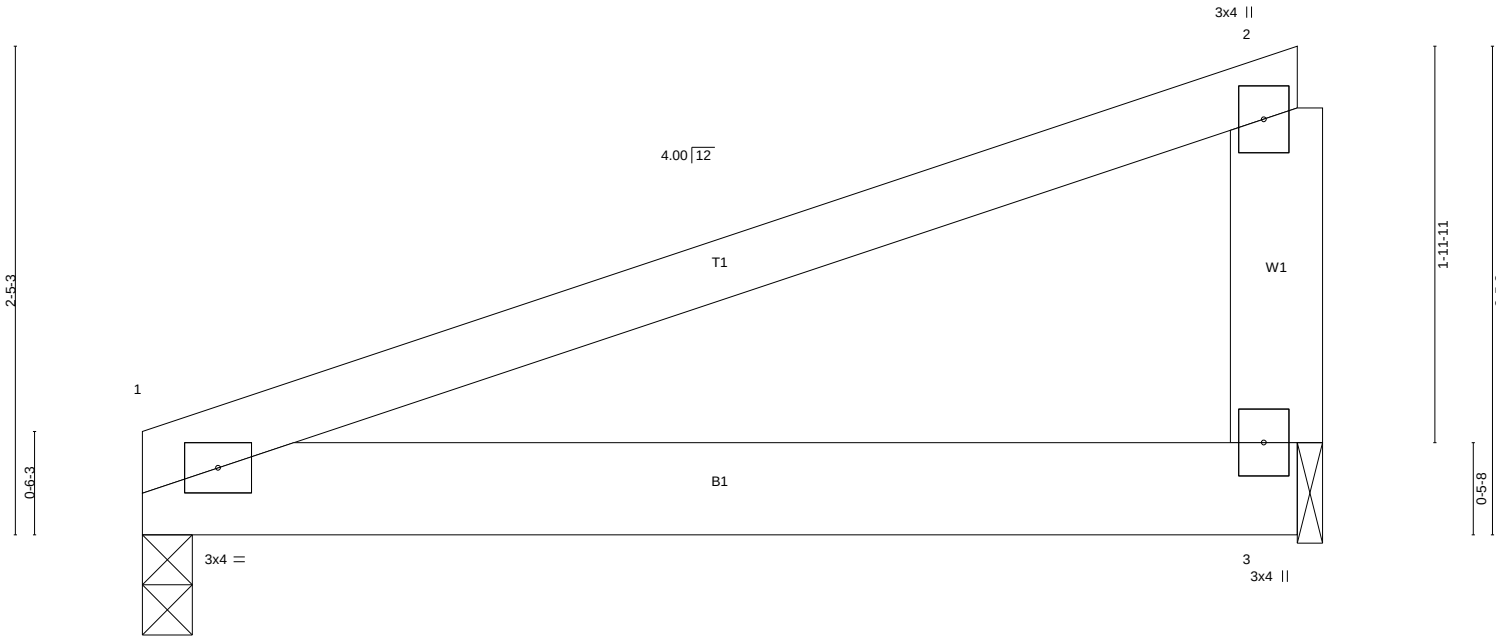
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | X2A | JACK-CLOSED | 2 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:52:02 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-6aztv44y6CSp15LYF_4V9gmh9f7XwNNeFPXDpVzaPZx

5-10-8 6-0-0
5-10-8 0-1-8

Scale = 1:11.5




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.45 | Vert(LL) | -0.01 | 1-3 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.03 | 1-3 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | Wind(LL) | 0.03 | 1-3 | >999 | 240 | Weight: 26 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.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 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=221/0-3-0 (min. 0-1-8), 3=221/0-1-8 (min. 0-1-8)
Max Horz 1=66(LC 8)
Max Uplift1=-73(LC 8), 3=-97(LC 8)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-8 to 4-6-5, Interior(1) 4-6-5 to 5-7-12 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Bearing at joint(s) 3 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) 3.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | Y1 | Jack-Open | 4 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:52:03 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-amXF7Q5atVageFwkpibkiuJvu3TRfqdnU3HnLyzaPZw

-0-10-8 4-7-15
0-10-8 4-7-15

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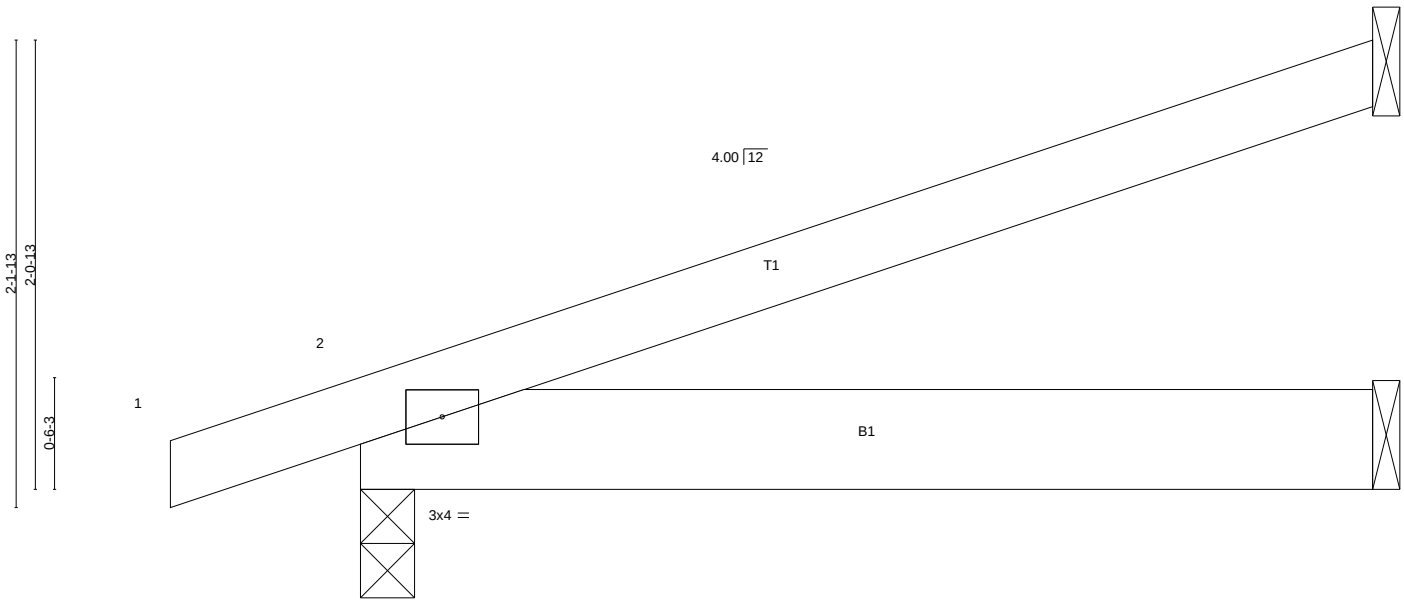



4-7-15
4-7-15

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.26 | Vert(LL) | -0.01 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | -0.01 | 2-4 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | Wind(LL) | 0.01 | 2-4 | >999 | 240 | Weight: 20 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-7-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 3=128/Mechanical, 2=246/0-3-0 (min. 0-1-8), 4=45/Mechanical
Max Horz 2=62(LC 8)
Max Uplift 3=-55(LC 12), 2=-99(LC 8), 4=-23(LC 8)
Max Grav 3=128(LC 1), 2=246(LC 1), 4=89(LC 3)

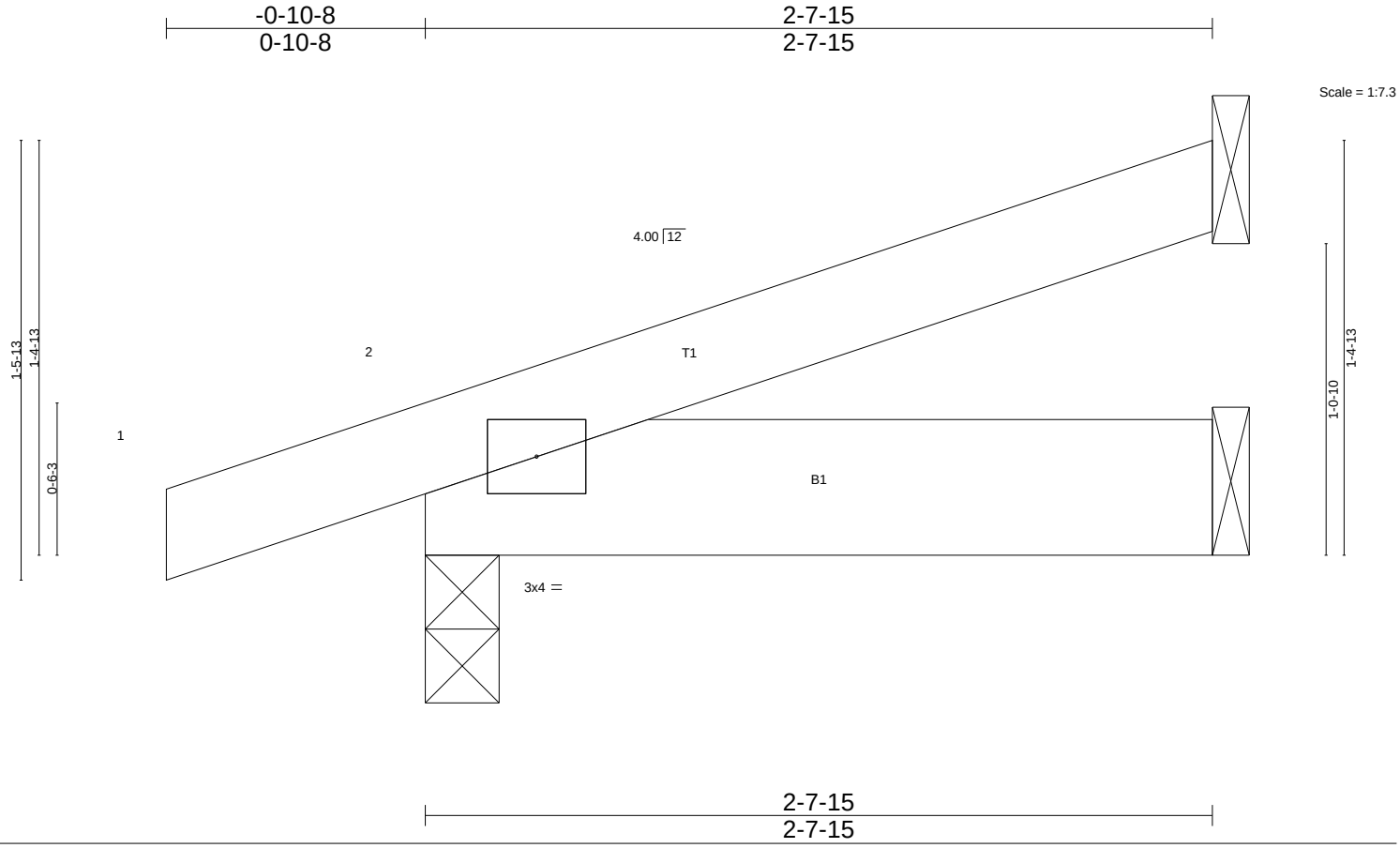
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | Y2 | Jack-Open | 4 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:52:03 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-amXF7Q5atVageFwkpibkiuJy13UIfqdnU3HnLyzaPZw




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.05 | Vert(LL) | -0.00 | 2 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | -0.00 | 2-4 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 2-4 | >999 | 240 | Weight: 12 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-7-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 3=62/Mechanical, 2=171/0-3-0 (min. 0-1-8), 4=25/Mechanical
Max Horz 2=40(LC 8)
Max Uplift 3=-29(LC 12), 2=-75(LC 8), 4=-13(LC 8)
Max Grav 3=62(LC 1), 2=171(LC 1), 4=49(LC 3)

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

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

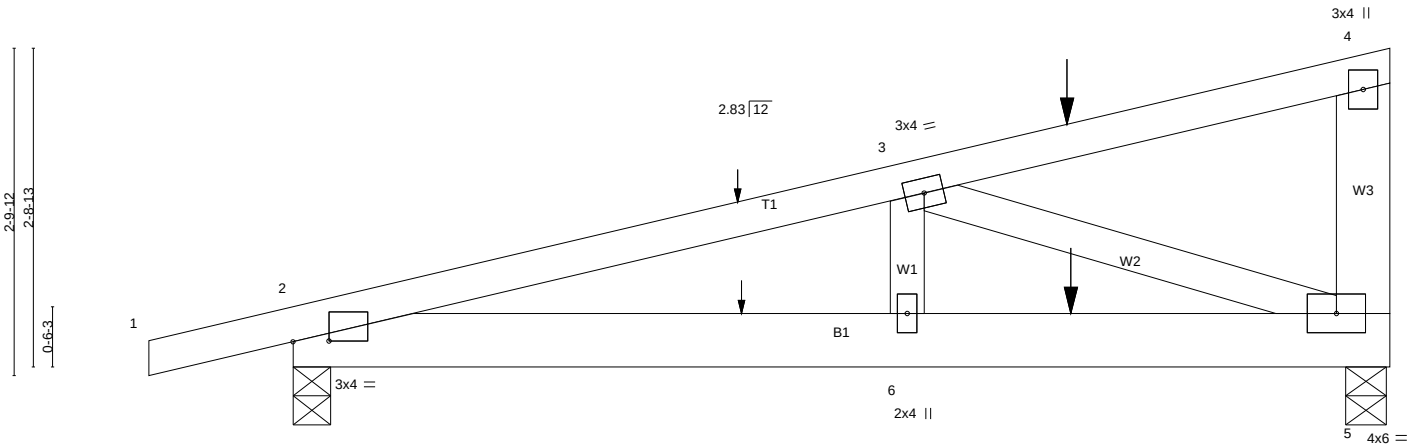
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Parker Residence |
|---|---|---|---|---|---|
| J0322-1386 | Z1 | Roof Special Girder | 2 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309 Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Mar 16 09:52:04 2022 Page 1
ID:23qSx45WzNy51_KH?FehmwybPjb-2y5dKm6CepiXGPVxNP6zE5r41To4OESxjj0KuOzaPZv

| -1-2-14 | 5-5-1 | 9-5-1 |
|---|---|---|
| 1-2-14 | 5-5-1 | 4-0-0 |

Scale = 1:19.8




| 5-5-1 | 9-4-11 | 9-5-1 |
|---|---|---|
| 5-5-1 | 3-11-10 | 0-0-6 |

Plate Offsets (X,Y)-- [2:0-3-11,0-0-1]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.23 | Vert(LL) | 0.02 | 2-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.03 | 2-6 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.22 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 50 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
W3: 2x6 SP No.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 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=440/0-4-3 (min. 0-1-8), 2=485/0-3-14 (min. 0-1-8)
Max Horz 2=83(LC 4)
Max Uplift5=-194(LC 4), 2=-203(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-830/291, 3-7=-758/299
BOT CHORD 2-9=-335/764, 6-9=-335/764, 6-10=-335/764, 5-10=-335/764
WEBS 3-5=-764/333

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=194, 2=203.
5) 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.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 23 lb down and 31 lb up at 3-10-4, 23 lb down and 31 lb up at 3-10-4, and 52 lb down and 70 lb up at 6-8-3, and 52 lb down and 70 lb up at 6-8-3 on top chord, and 8 lb down and 28 lb up at 3-10-4, 8 lb down and 28 lb up at 3-10-4, and 33 lb down and 50 lb up at 6-8-3, and 33 lb down and 50 lb up at 6-8-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) 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

Continued on page 2

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-60, 2-5=-20
   Concentrated Loads (lb)
      Vert: 8=-85(F=-43, B=-43) 10=-33(F=-16, B=-16)