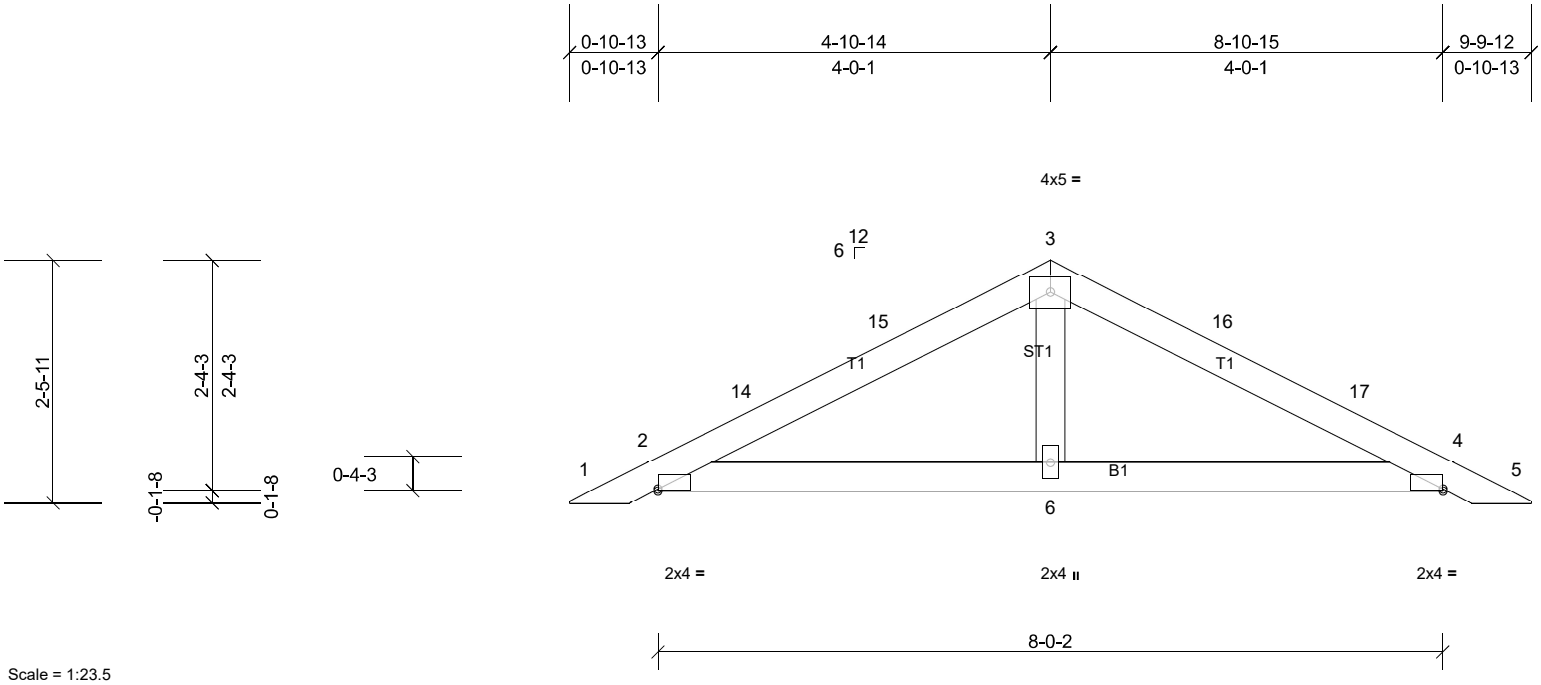
| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | CAP1 | Piggyback | 17 | 1 | Job Reference (optional) |






Scale = 1:23.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 31 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

**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 8-0-2.
(lb) - Max Horiz 2=34 (LC 10), 7=34 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 6, 7, 11
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 7, 11 except 6=297 (LC 1)

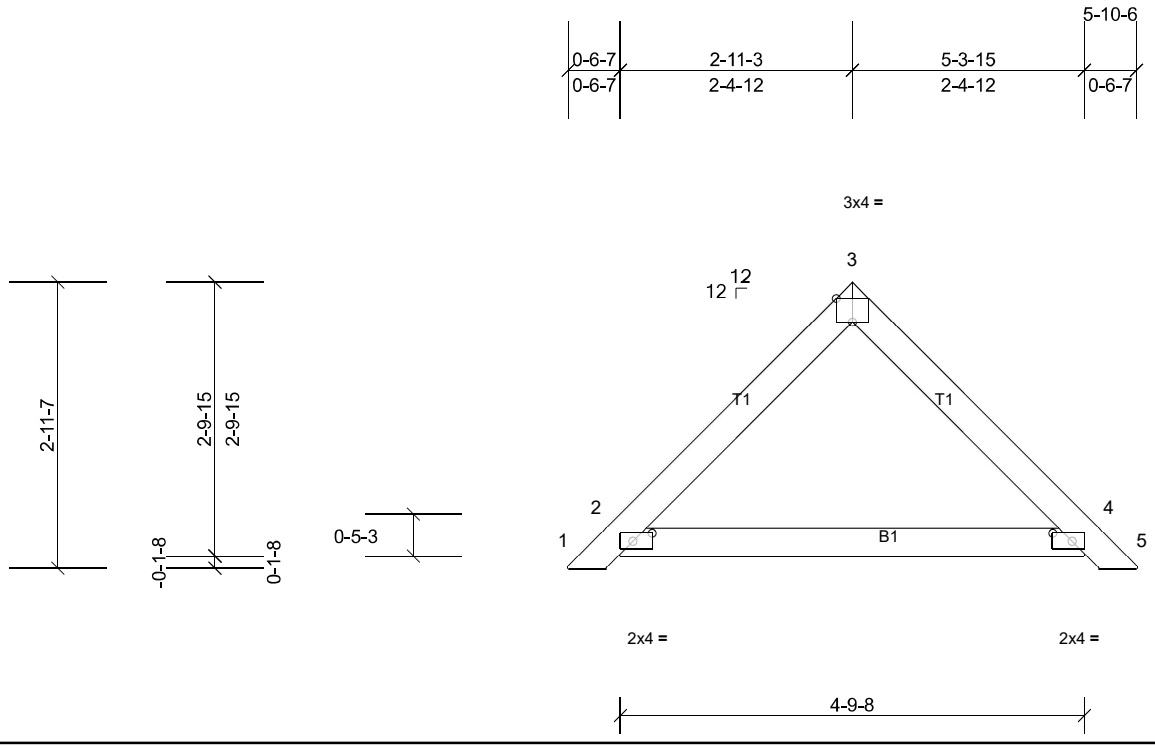
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-4-3 to 3-4-3, Interior (1) 3-4-3 to 4-11-6, Exterior (2) 4-11-6 to 7-11-6, Interior (1) 7-11-6 to 9-6-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. 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 4-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6, 2, 4.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | CAP2 | Piggyback | 27 | 1 | Job Reference (optional) |






Scale = 1:23.8

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 19 lb | FT = 20% |

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

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 5-10-14 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 4-9-8.
(lb) - Max Horiz 2=-55 (LC 9), 6=-55 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 6, 9
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 9

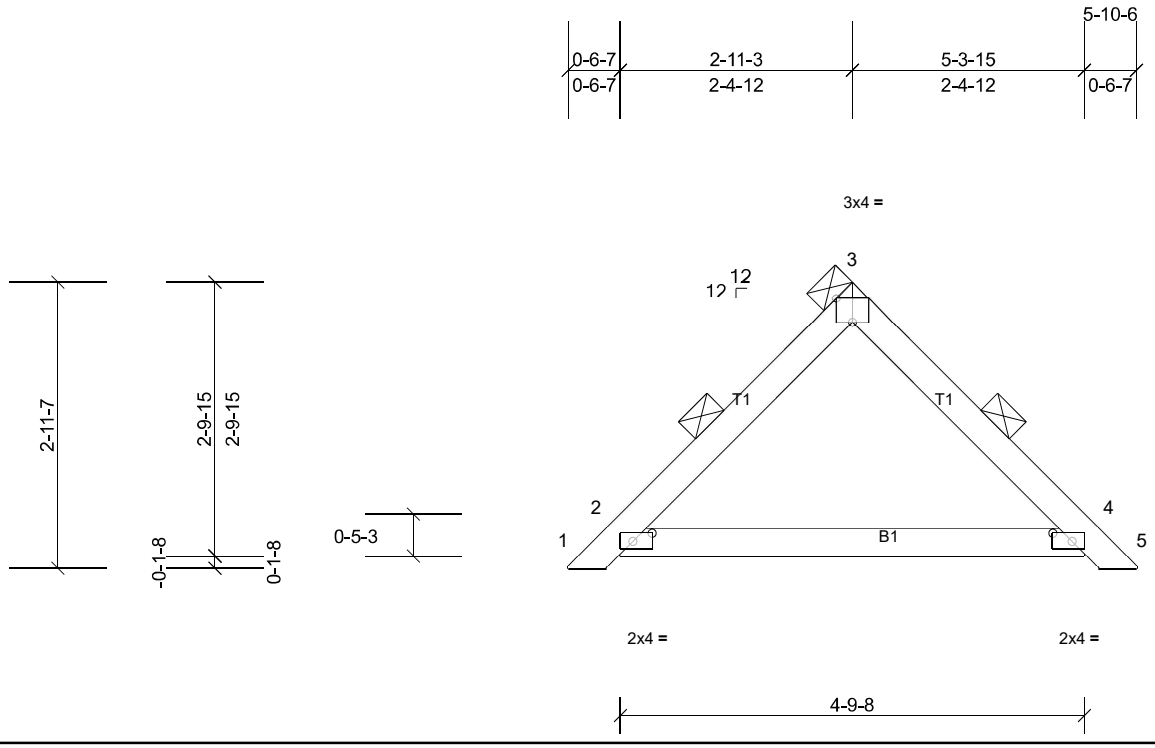
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 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.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | CAP3 | Piggyback | 2 | **2** | Job Reference (optional) |






Scale = 1:23.8

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

| **Loading** | (psf) | **Spacing** | 3-0-0 | **CSI** | | **DEFL** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 39 lb | FT = 20% |

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

**REACTIONS** All bearings 4-9-8.
(lb) - Max Horiz 2=-83 (LC 9), 6=-83 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 6, 9
Max Grav All reactions 250 (lb) or less at joint(s) except 2=319 (LC 1), 4=319 (LC 1), 6=319 (LC 1), 9=319 (LC 1)

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

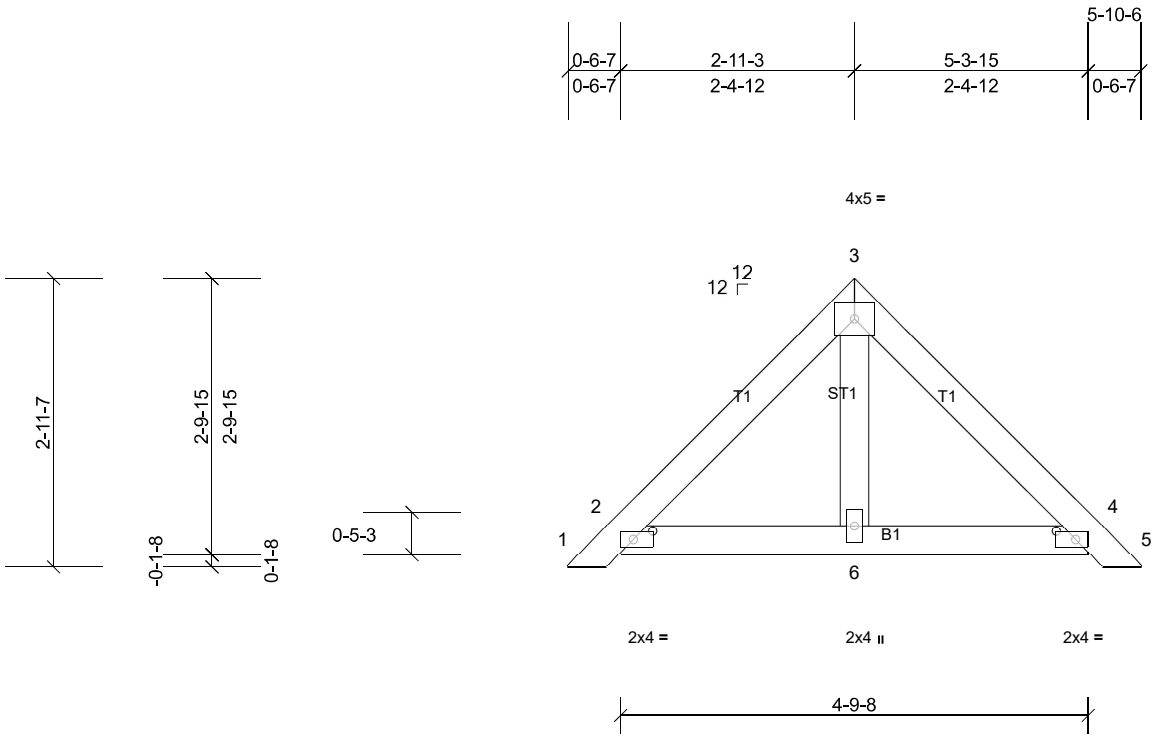
**BRACING**
TOP CHORD 2-0-0 oc purlins (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**NOTES**
1) 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails 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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Gable requires continuous bottom chord bearing.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 2, 4.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | CAP4 | Piggyback | 1 | 1 | Job Reference (optional) |






Scale = 1:23.6

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

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

**LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 5-10-14 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 4-9-8.
(lb) - Max Horiz 2=-55 (LC 9), 7=-55 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 6, 7, 10
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

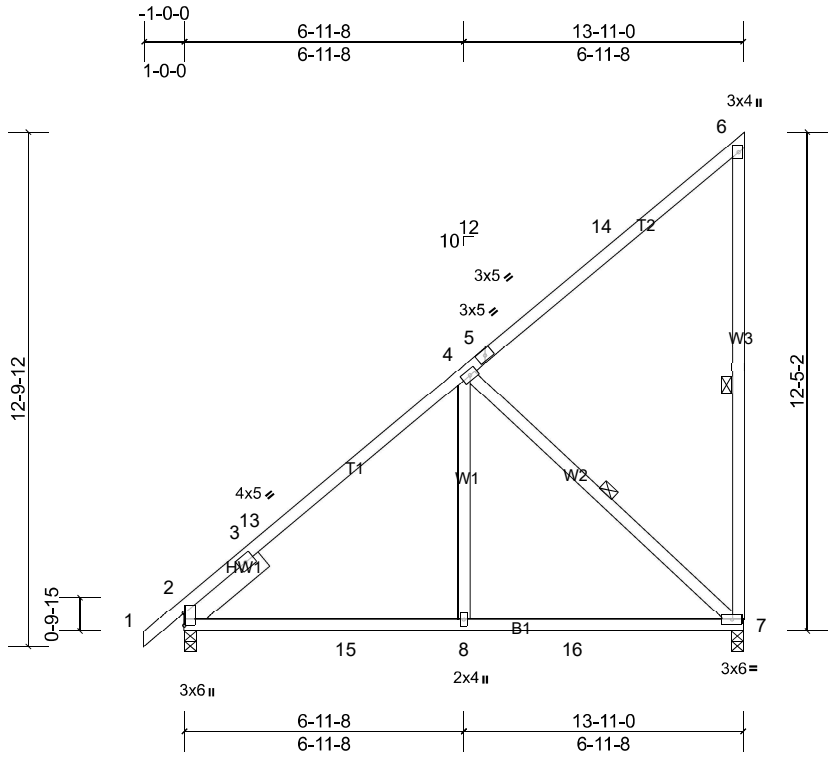
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6, 2, 4.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1 | Monopitch | 1 | 1 | Job Reference (optional) |






Scale = 1:57.4

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.07 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.34 | Vert(CT) | -0.11 | 7-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.27 | Horz(CT) | 0.03 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 96 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 *Except* W3:2x4 SP DSS |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 6-7, 4-7 |

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

**REACTIONS** (lb/size) 2=613/0-3-8, (min. 0-1-8), 7=549/0-3-8, (min. 0-1-8)
Max Horiz 2=382 (LC 10)
Max Uplift 2=-34 (LC 11), 7=-136 (LC 11)
Max Grav 2=686 (LC 17), 7=682 (LC 16)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-327/2, 3-13=-713/64, 4-13=-563/102, 4-5=-274/165, 5-14=-258/213, 6-7=-256/181
BOT CHORD 2-15=-416/593, 8-15=-234/532, 8-16=-234/532, 7-16=-234/532
WEBS 4-8=0/356, 4-7=-626/226

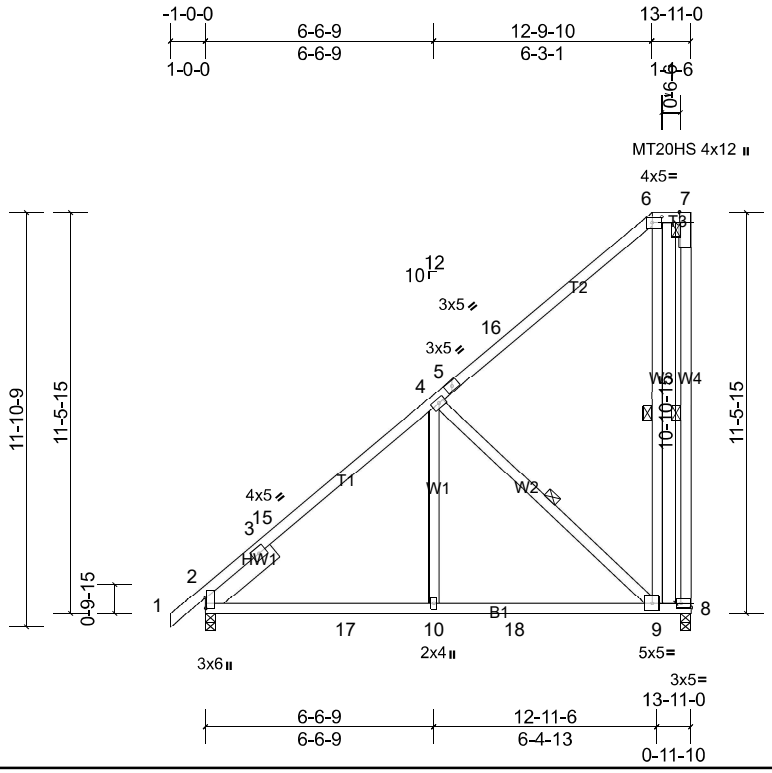
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 2 and 136 lb uplift at joint 7.
4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1A | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:66.1

Plate Offsets (X, Y): [2:0-3-10,0-0-3], [6:0-3-4,0-2-0], [7:0-3-8,Edge], [8:Edge,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.77 | Vert(LL) | 0.10 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.54 | Vert(CT) | -0.22 | 9-10 | >742 | 180 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | 0.02 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 109 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 *Except* W4:2x4 SP No.2 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 7-8, 4-9, 6-9 |

**REACTIONS** (lb/size) 2=613/0-3-8, (min. 0-1-8), 8=549/0-3-8, (min. 0-1-8)
Max Horiz 2=358 (LC 10)
Max Uplift 2=-43 (LC 11), 8=-128 (LC 11)
Max Grav 2=663 (LC 17), 8=652 (LC 16)

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

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

| | |
|---|---|
| TOP CHORD | 2-3=-320/44, 3-15=-697/58, 4-15=-560/92, 4-5=-280/138, 5-16=-263/145, 7-8=-277/176 |
| BOT CHORD | 2-17=-421/605, 10-17=-249/556, 10-18=-249/556, 9-18=-249/556 |
| WEBS | 4-10=0/364, 4-9=-636/225, 6-9=-254/304 |

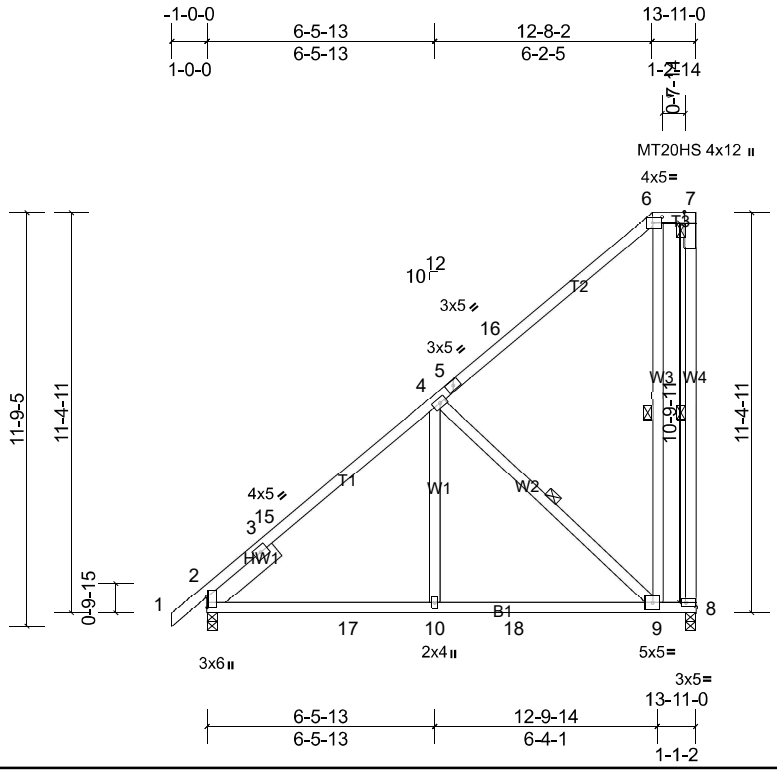
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-9-10, Exterior (2) 12-9-10 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 8 and 43 lb uplift at joint 2.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1B | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:65.6

Plate Offsets (X, Y): [2:0-3-10,0-0-3], [6:0-3-4,0-2-0], [7:0-3-8,Edge], [8:Edge,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | 0.12 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.59 | Vert(CT) | -0.25 | 9-10 | >666 | 180 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | 0.02 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 108 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 *Except* W4:2x4 SP No.2 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 7-8, 4-9, 6-9 |

**REACTIONS** (lb/size) 2=613/0-3-8, (min. 0-1-8), 8=549/0-3-8, (min. 0-1-8)
Max Horiz 2=355 (LC 10)
Max Uplift 2=-44 (LC 11), 8=-127 (LC 11)
Max Grav 2=660 (LC 17), 8=647 (LC 16)

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

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

| | |
|---|---|
| TOP CHORD | 2-3=-317/42, 3-15=-695/57, 4-15=-559/92, 4-5=-280/132, 5-16=-264/139, 7-8=-265/158 |
| BOT CHORD | 2-17=-418/603, 10-17=-251/560, 10-18=-251/560, 9-18=-251/560 |
| WEBS | 4-10=0/367, 4-9=-637/224, 6-9=-219/277 |

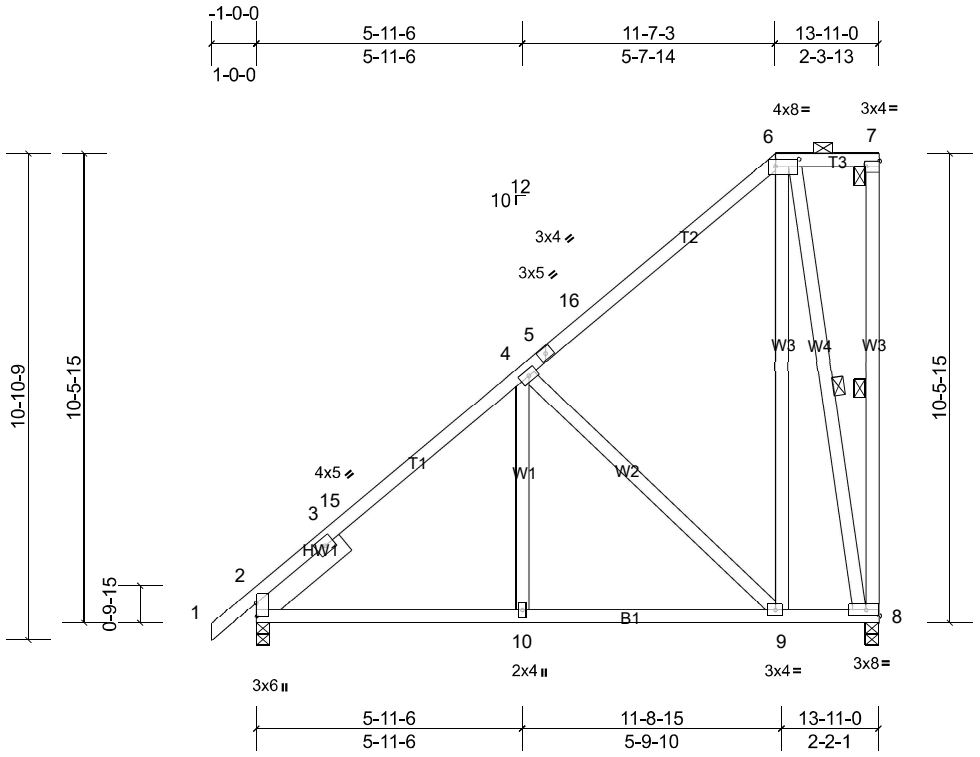
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-8-2, Exterior (2) 12-8-2 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 8 and 44 lb uplift at joint 2.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1C | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:51.5

Plate Offsets (X, Y): [2:0-3-10,0-0-3], [6:0-6-4,0-2-0], [7:Edge,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.99 | Vert(LL) | 0.03 | 10-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(CT) | -0.05 | 10-13 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.54 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 119 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=613/0-3-8, (min. 0-1-8), 8=549/0-3-8, (min. 0-1-8)
Max Horiz 2=327 (LC 10)
Max Uplift 2=-53 (LC 11), 8=-117 (LC 11)
Max Grav 2=613 (LC 1), 8=566 (LC 16)

**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.): 6-7. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 7-8, 6-8 |

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

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

| | |
|---|---|
| TOP CHORD | 2-3=-270/0, 3-15=-565/55, 4-15=-445/85, 4-5=-317/109, 5-16=-301/114 |
| BOT CHORD | 2-10=-382/554, 9-10=-250/550 |
| WEBS | 4-9=-450/188, 6-9=-119/451, 6-8=-583/216 |

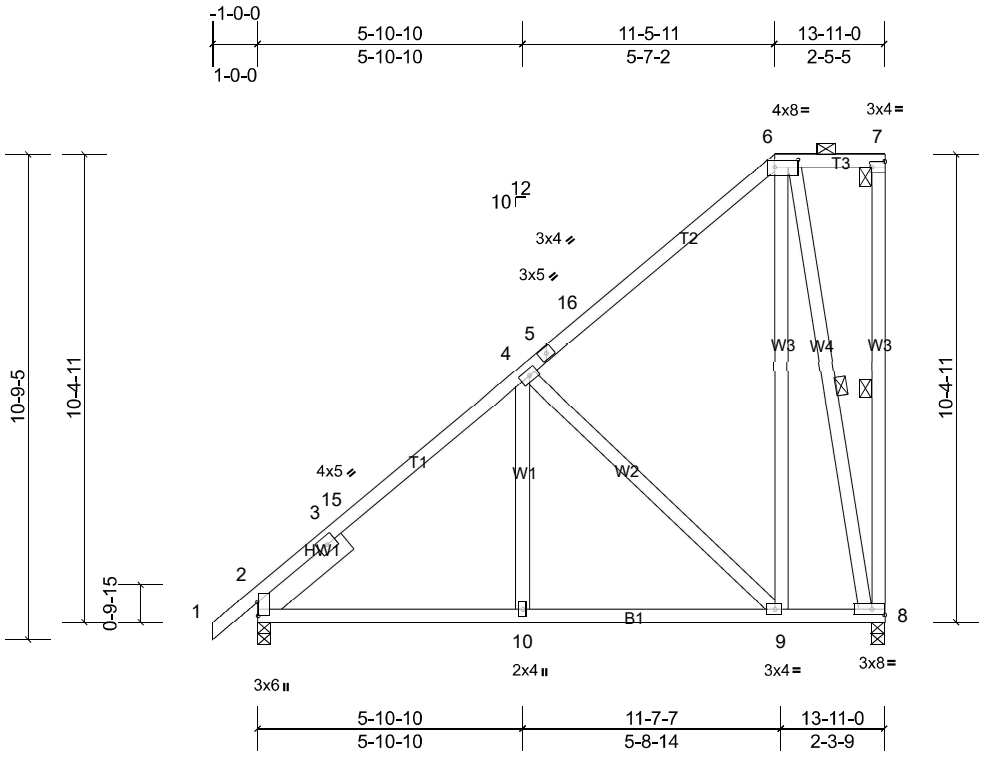
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 11-7-3, Exterior (2) 11-7-3 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 8 and 53 lb uplift at joint 2.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1D | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:51.2

Plate Offsets (X, Y): [2:0-3-10,0-0-3], [6:0-6-4,0-2-0], [7:Edge,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.97 | Vert(LL) | 0.03 | 10-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(CT) | -0.04 | 10-13 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.52 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 118 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=613/0-3-8, (min. 0-1-8), 8=549/0-3-8, (min. 0-1-8)
Max Horiz 2=324 (LC 10)
Max Uplift 2=-54 (LC 11), 8=-116 (LC 11)
Max Grav 2=613 (LC 1), 8=565 (LC 16)

**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.): 6-7. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 7-8, 6-8 |

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

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

| | |
|---|---|
| TOP CHORD | 2-3=-270/0, 3-15=-564/55, 4-15=-445/85, 4-5=-320/109, 5-16=-304/113 |
| BOT CHORD | 2-10=-378/551, 9-10=-250/551 |
| WEBS | 4-9=-444/186, 6-9=-115/442, 6-8=-575/214 |

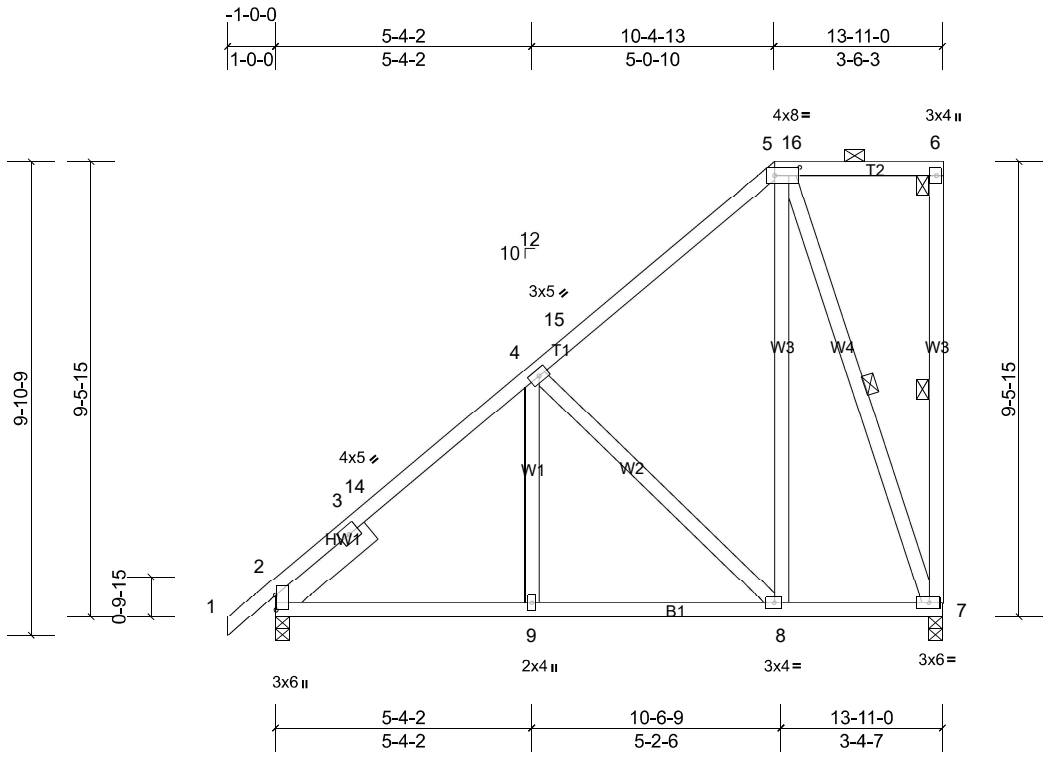
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 11-5-11, Exterior (2) 11-5-11 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 8 and 54 lb uplift at joint 2.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1E | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:48.1

Plate Offsets (X, Y): [2:0-3-10,0-0-3], [5:0-6-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.82 | Vert(LL) | 0.02 | 9-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.03 | 9-12 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.38 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 112 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=613/0-3-8, (min. 0-1-8), 7=549/0-3-8, (min. 0-1-8)
Max Horiz 2=295 (LC 10)
Max Uplift 2=-63 (LC 11), 7=-108 (LC 11)
Max Grav 2=613 (LC 1), 7=550 (LC 16)

**BRACING**

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

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

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

| | |
|---|---|
| TOP CHORD | 2-3=-272/0, 3-14=-552/56, 4-14=-448/82, 4-15=-342/110, 5-15=-262/145 |
| BOT CHORD | 2-9=-348/552, 8-9=-251/552, 7-8=-149/272 |
| WEBS | 4-8=-393/166, 5-8=-85/387, 5-7=-514/193 |

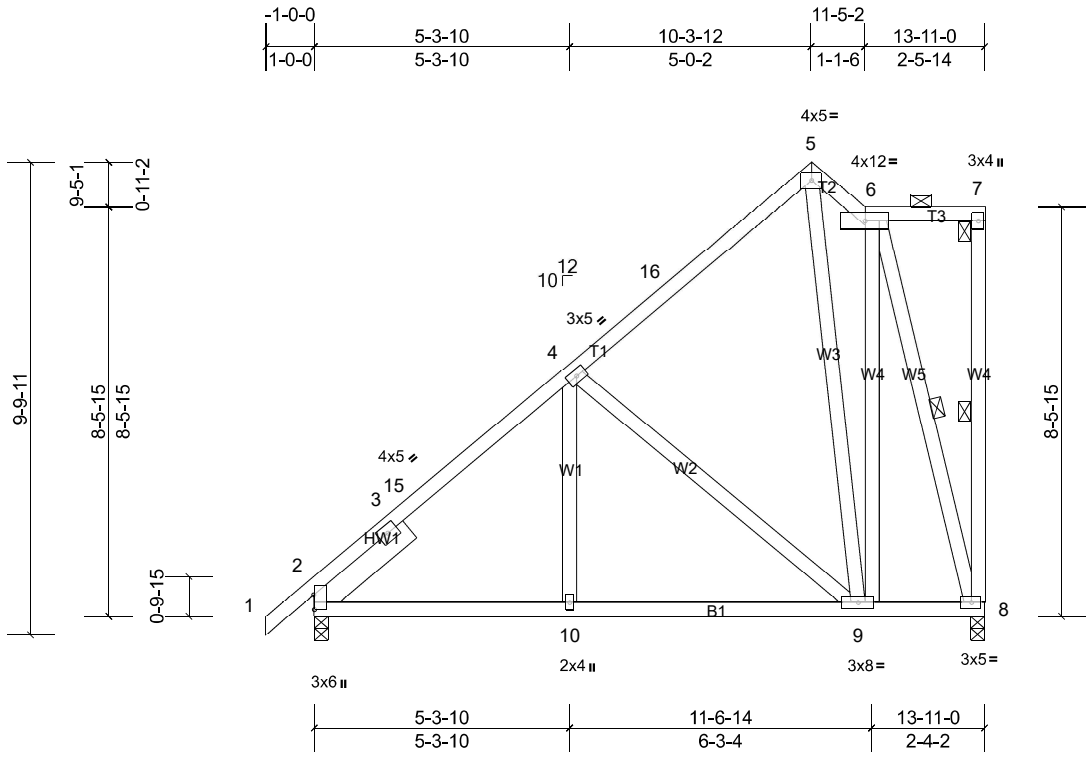
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-4-13, Exterior (2) 10-4-13 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 2 and 108 lb uplift at joint 7.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1F | Roof Special | 1 | 1 | Job Reference (optional) |






Scale = 1:47.8

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.64 | Vert(LL) | 0.02 | 10-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | -0.04 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.45 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 122 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=613/0-3-8, (min. 0-1-8), 8=549/0-3-8, (min. 0-1-8)
Max Horiz 2=281 (LC 10)
Max Uplift 2=-71 (LC 11), 8=-99 (LC 11)

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

| | |
|---|---|
| TOP CHORD | 2-3=-262/0, 3-15=-556/52, 4-15=-447/77, 4-16=-314/100, 5-6=-263/147 |
| BOT CHORD | 2-10=-313/543, 9-10=-227/543 |
| WEBS | 4-9=-395/159, 6-9=-98/363, 6-8=-510/148 |

**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.): 6-7. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 7-8, 6-8 |

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

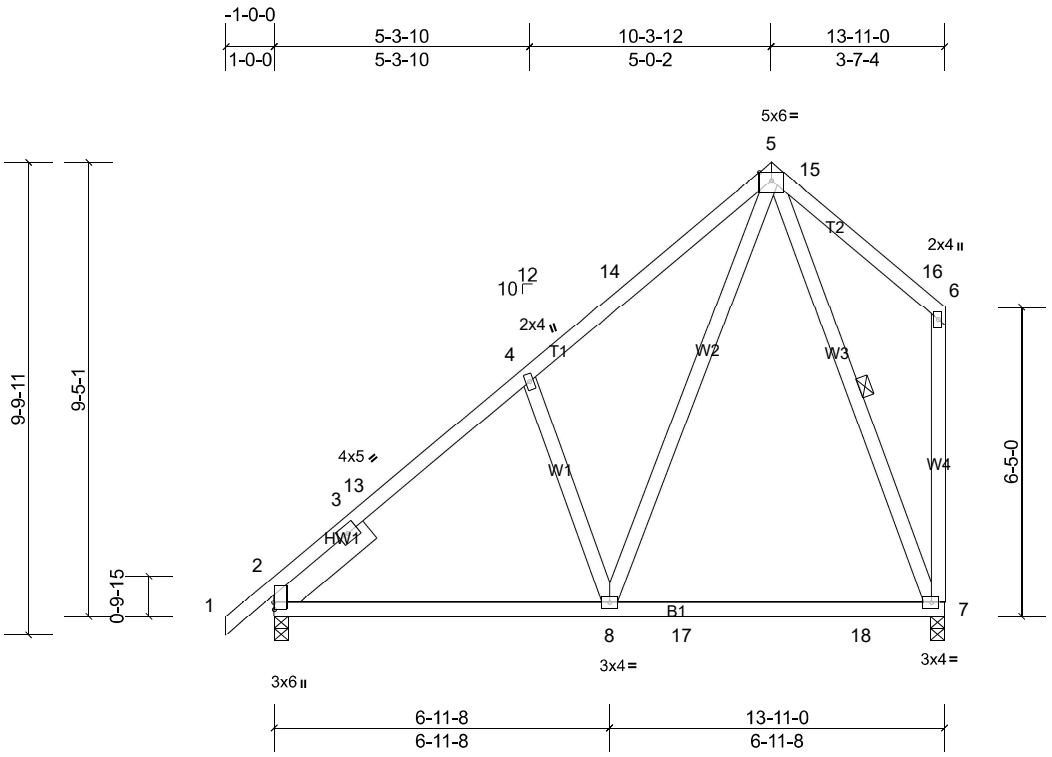
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-3-12, Exterior (2) 10-3-12 to 11-5-2, Interior (1) 11-5-2 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 8 and 71 lb uplift at joint 2.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1G | Common | 6 | 1 | Job Reference (optional) |






Scale = 1:47.8

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | -0.11 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.37 | Vert(CT) | -0.16 | 7-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 100 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=613/0-3-8, (min. 0-1-8), 7=549/0-3-8, (min. 0-1-8)
Max Horiz 2=256 (LC 10)
Max Uplift 2=-85 (LC 11), 7=-85 (LC 11)
Max Grav 2=613 (LC 1), 7=614 (LC 16)

**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 5-7 |

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

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

| | |
|---|---|
| TOP CHORD | 2-3=-339/0, 3-13=-575/65, 4-13=-475/90, 4-14=-516/166, 5-14=-480/201 |
| BOT CHORD | 2-8=-248/490 |
| WEBS | 4-8=-300/207, 5-8=-128/522, 5-7=-487/138 |

**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-3-12, Exterior (2) 10-3-12 to 13-3-12, Interior (1) 13-3-12 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 2 and 85 lb uplift at joint 7.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1GE | Common Supported Gable | 1 | 1 | Job Reference (optional) |

Peak Truss Builders LLC, New Hill, user — Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Thu Mar 31 14:52:04 — Page: 1

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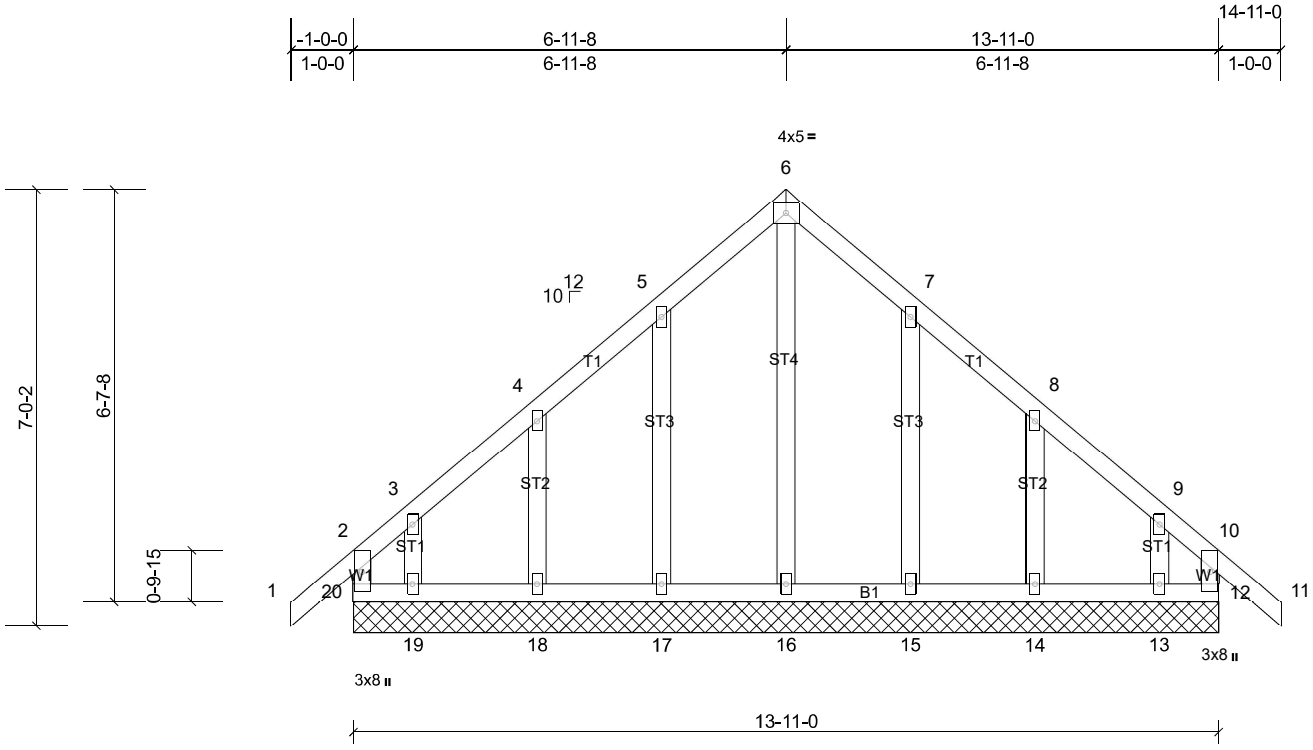



Plate Offsets (X, Y): [12:0-1-10,0-0-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 87 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 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 13-11-0.

(lb) - Max Horiz 20=-144 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 12, 13, 14, 15, 17, 18, 19, 20

Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19, 20

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

**NOTES**

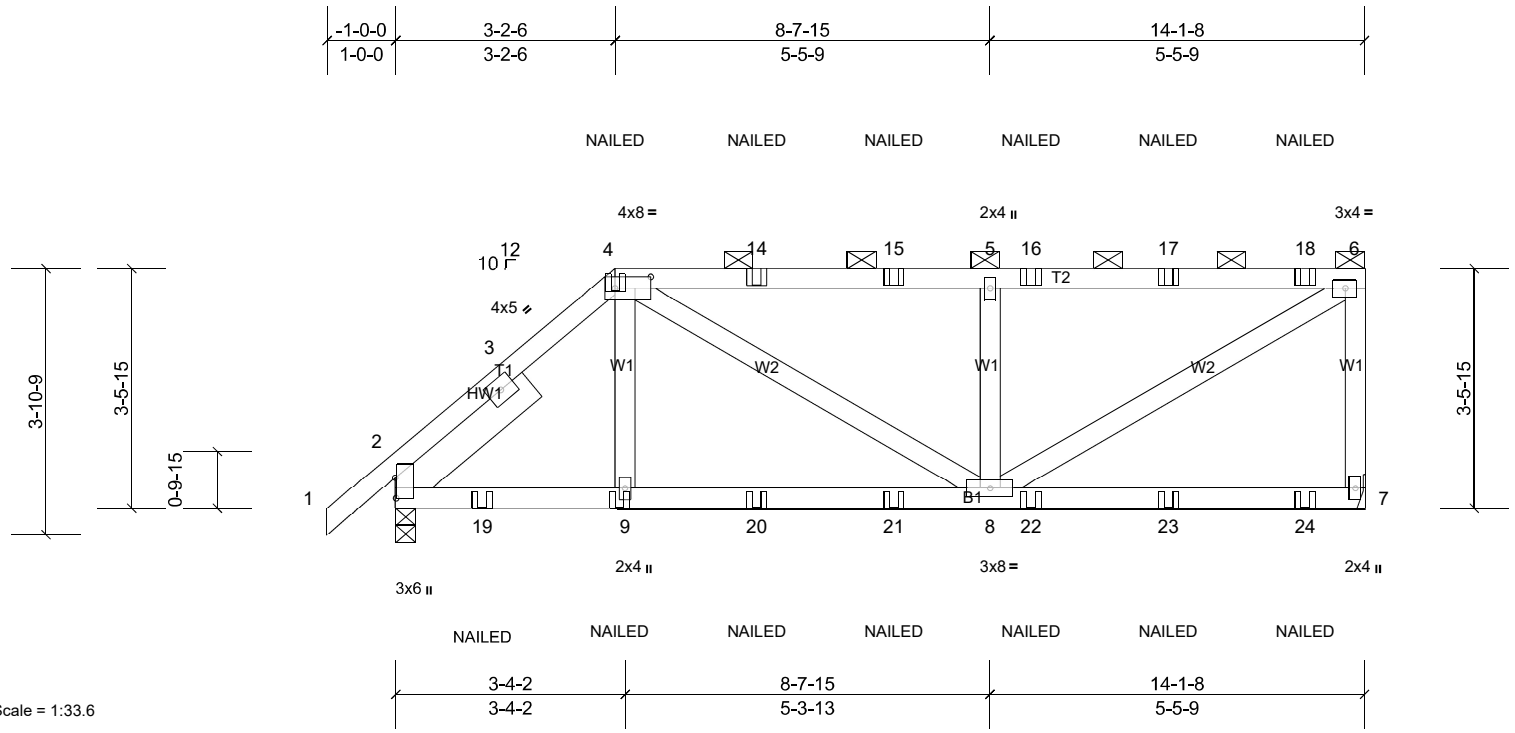
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 6-11-8, Corner (3) 6-11-8 to 9-11-8, Exterior (2) 9-11-8 to 14-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 19, 15, 14, 13.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1GRD | Half Hip Girder | 1 | 2 | Job Reference (optional) |

Peak Truss Builders LLC, New Hill, user — Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Thu Mar 31 14:52:04 — Page: 1

ID:OZhH7cXP4Yej8dQgYvUfejzVPeP-w_H8zdjUppATBxBPZFUNF8lKyr6ppHcEYBiR0yzVOmf




Scale = 1:33.6

Plate Offsets (X, Y): [2:0-3-10,0-0-3], [4:0-6-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.30 | Vert(LL) | -0.02 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.04 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.30 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 164 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |

**REACTIONS** (lb/size) 2=1180/0-3-8, (min. 0-1-8), 7=1127/ Mechanical, (min. 0-1-8)
Max Horiz 2=107 (LC 6)
Max Uplift 2=-222 (LC 7), 7=-178 (LC 4)

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

| | |
|---|---|
| TOP CHORD | 2-3=-740/166, 3-4=-1212/199, 4-14=-1272/232, 14-15=-1272/232, 5-15=-1272/232, 5-16=-1272/232, 16-17=-1272/232, 17-18=-1272/232, 6-18=-1272/232, 6-7=-1003/232 |
| BOT CHORD | 2-19=-187/898, 9-19=-187/898, 9-20=-183/908, 20-21=-183/908, 8-21=-183/908 |
| WEBS | 4-8=-91/422, 5-8=-679/297, 6-8=-234/1433 |

**NOTES**

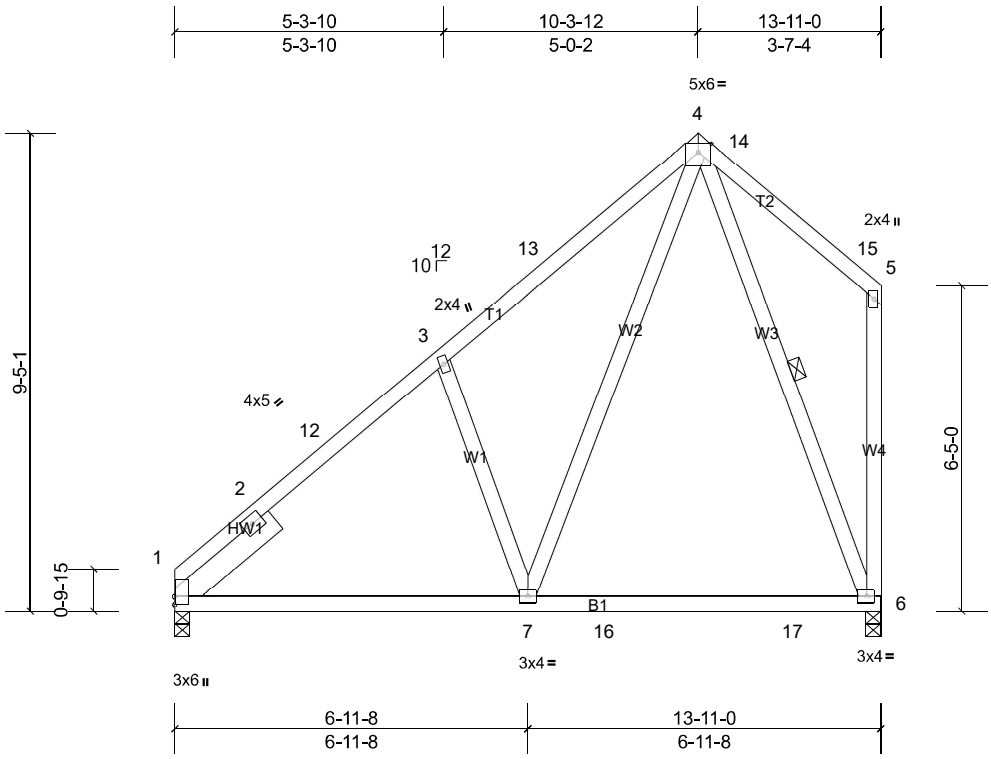
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 7 and 222 lb uplift at joint 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-4=-60, 4-6=-60, 7-10=-20
   Concentrated Loads (lb)
   Vert: 4=-98 (B), 9=-55 (B), 14=-98 (B), 15=-98 (B), 16=-98 (B), 17=-98 (B), 18=-106 (B), 19=-202 (B), 20=-55 (B), 21=-55 (B), 22=-55 (B), 23=-55 (B), 24=-58 (B)

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1H | Common | 1 | 1 | Job Reference (optional) |









Scale = 1:45.4

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | -0.11 | 6-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.37 | Vert(CT) | -0.16 | 6-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.24 | Horz(CT) | 0.01 | 1 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 98 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 1=551/0-3-8, (min. 0-1-8), 6=551/0-3-8, (min. 0-1-8)
Max Horiz 1=245 (LC 10)
Max Uplift 1=-49 (LC 11), 6=-86 (LC 11)
Max Grav 1=551 (LC 1), 6=616 (LC 16)

**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 4-6 |

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

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

| | |
|---|---|
| TOP CHORD | 1-2=-349/12, 2-12=-577/72, 3-12=-477/93, 3-13=-516/168, 4-13=-480/203 |
| BOT CHORD | 1-7=-249/493 |
| WEBS | 3-7=-303/209, 4-7=-131/528, 4-6=-489/139 |

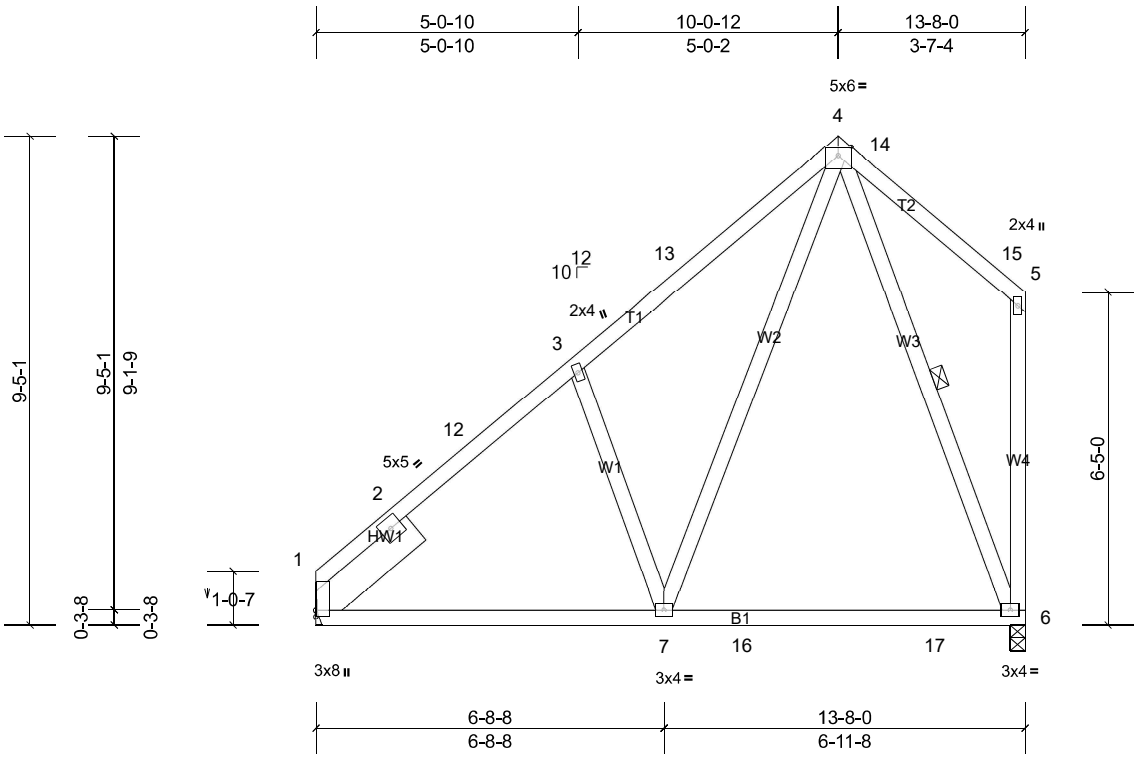
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-3-12, Exterior (2) 10-3-12 to 13-3-12, Interior (1) 13-3-12 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1 and 86 lb uplift at joint 6.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1I | Common | 3 | 1 | Job Reference (optional) |






Scale = 1:44.4

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.11 | 6-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.16 | 6-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | 0.01 | 1 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 99 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x8 SP No.2 -- 2-6-0 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 4-6 |

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

**REACTIONS** (lb/size) 1=541/ Mechanical, (min. 0-1-8), 6=541/0-3-8, (min. 0-1-8)
Max Horiz 1=243 (LC 10)
Max Uplift 1=-48 (LC 11), 6=-85 (LC 11)
Max Grav 1=541 (LC 1), 6=607 (LC 16)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-256/22, 2-12=-559/72, 3-12=-462/93, 3-13=-498/177, 4-13=-462/200
BOT CHORD 1-7=-240/478
WEBS 3-7=-289/205, 4-7=-127/499, 4-6=-478/140

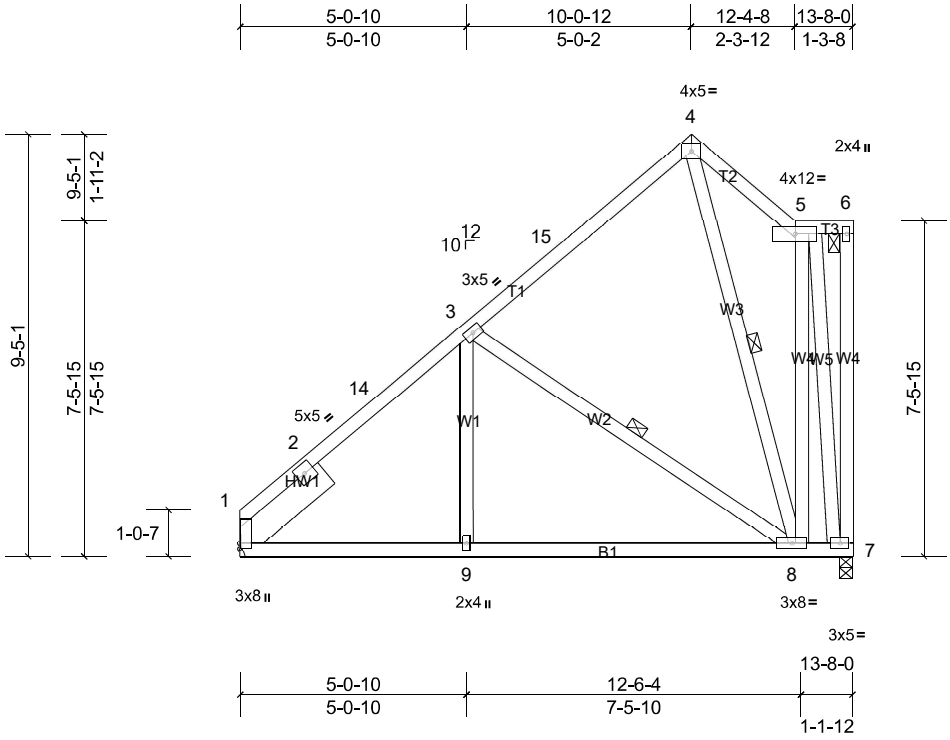
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-3-0 to 3-3-0, Interior (1) 3-3-0 to 10-3-12, Exterior (2) 10-3-12 to 13-3-12, Interior (1) 13-3-12 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1 and 85 lb uplift at joint 6.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1J | Roof Special | 1 | 1 | Job Reference (optional) |






Scale = 1:51.4

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.47 | Vert(LL) | 0.01 | 9-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.21 | Vert(CT) | -0.07 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.55 | Horz(CT) | -0.01 | 1 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 118 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x8 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 1=541/ Mechanical, (min. 0-1-8), 7=541/0-3-8, (min. 0-1-8)
Max Horiz 1=255 (LC 10)
Max Uplift 1=-41 (LC 11), 7=-92 (LC 11)

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 3-8, 4-8 |

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

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

| | |
|---|---|
| TOP CHORD | 2-14=-555/61, 3-14=-438/82, 3-15=-275/97 |
| BOT CHORD | 1-9=-276/517, 8-9=-208/517 |
| WEBS | 3-8=-393/156, 5-8=-33/417, 5-7=-545/81 |

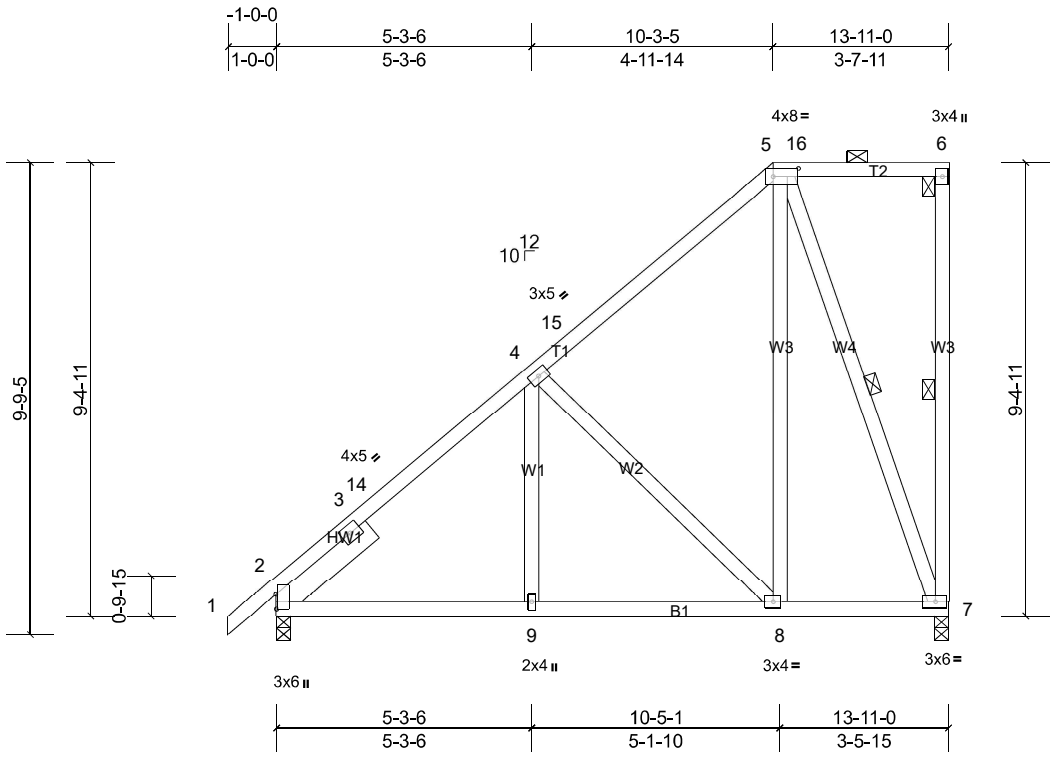
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-3-0 to 3-3-0, Interior (1) 3-3-0 to 10-3-12, Exterior (2) 10-3-12 to 12-7-8, Interior (1) 12-7-8 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1 and 92 lb uplift at joint 7.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1K | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:47.7

Plate Offsets (X, Y): [2:0-3-10,0-0-3], [5:0-6-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | 0.02 | 9-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | -0.03 | 9-12 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.37 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 111 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=613/0-3-8, (min. 0-1-8), 7=549/0-3-8, (min. 0-1-8)
Max Horiz 2=292 (LC 10)
Max Uplift 2=-64 (LC 11), 7=-107 (LC 11)
Max Grav 2=613 (LC 1), 7=549 (LC 16)

**BRACING**

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

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

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

| | |
|---|---|
| TOP CHORD | 2-3=-273/0, 3-14=-553/56, 4-14=-448/81, 4-15=-345/109, 5-15=-267/144 |
| BOT CHORD | 2-9=-344/552, 8-9=-251/552, 7-8=-150/277 |
| WEBS | 4-8=-387/164, 5-8=-81/382, 5-7=-508/190 |

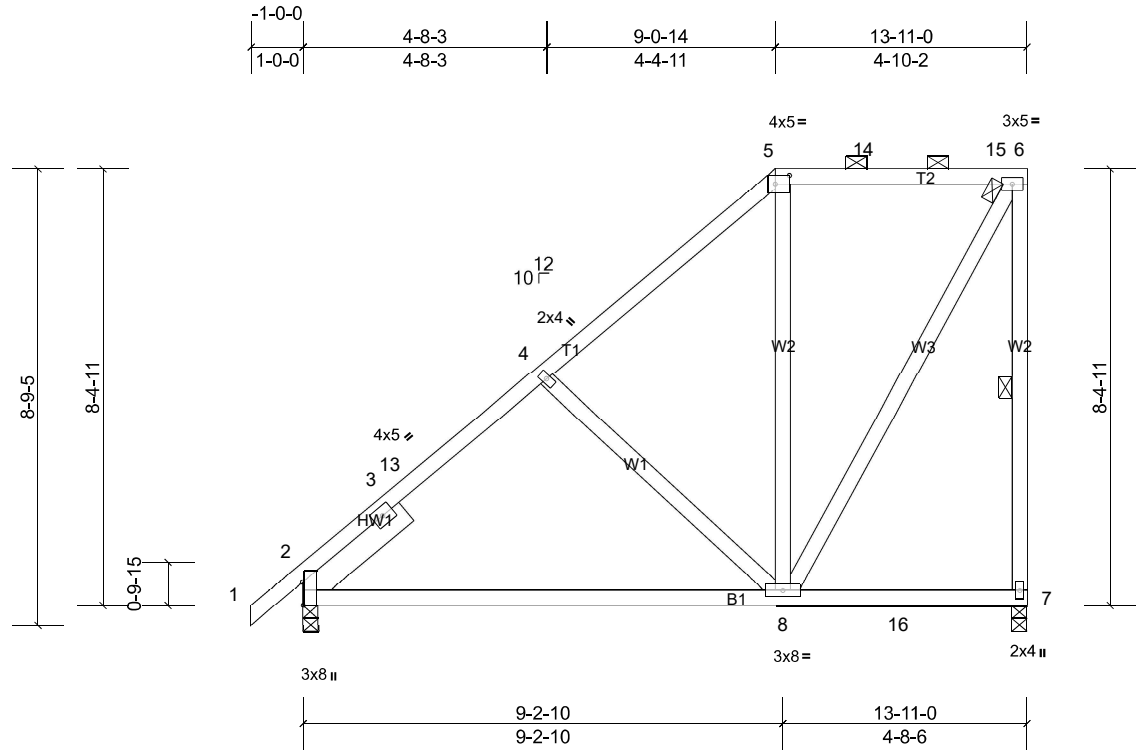
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-3-5, Exterior (2) 10-3-5 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2 and 107 lb uplift at joint 7.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1L | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:44.3

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.67 | Vert(LL) | 0.02 | 8-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.13 | 8-11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.26 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 99 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**BRACING**

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

**REACTIONS** (lb/size) 2=613/0-3-8, (min. 0-1-8), 7=549/0-3-8, (min. 0-1-8)
Max Horiz 2=261 (LC 10)
Max Uplift 2=-72 (LC 11), 7=-98 (LC 11)
Max Grav 2=613 (LC 1), 7=599 (LC 16)

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

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

| | |
|---|---|
| TOP CHORD | 2-3=-541/0, 3-13=-518/83, 4-13=-434/105, 4-5=-397/126, 5-14=-286/131, 14-15=-286/131, 6-15=-286/131, 6-7=-524/177 |
| BOT CHORD | 2-8=-343/525 |
| WEBS | 4-8=-278/161, 6-8=-158/479 |

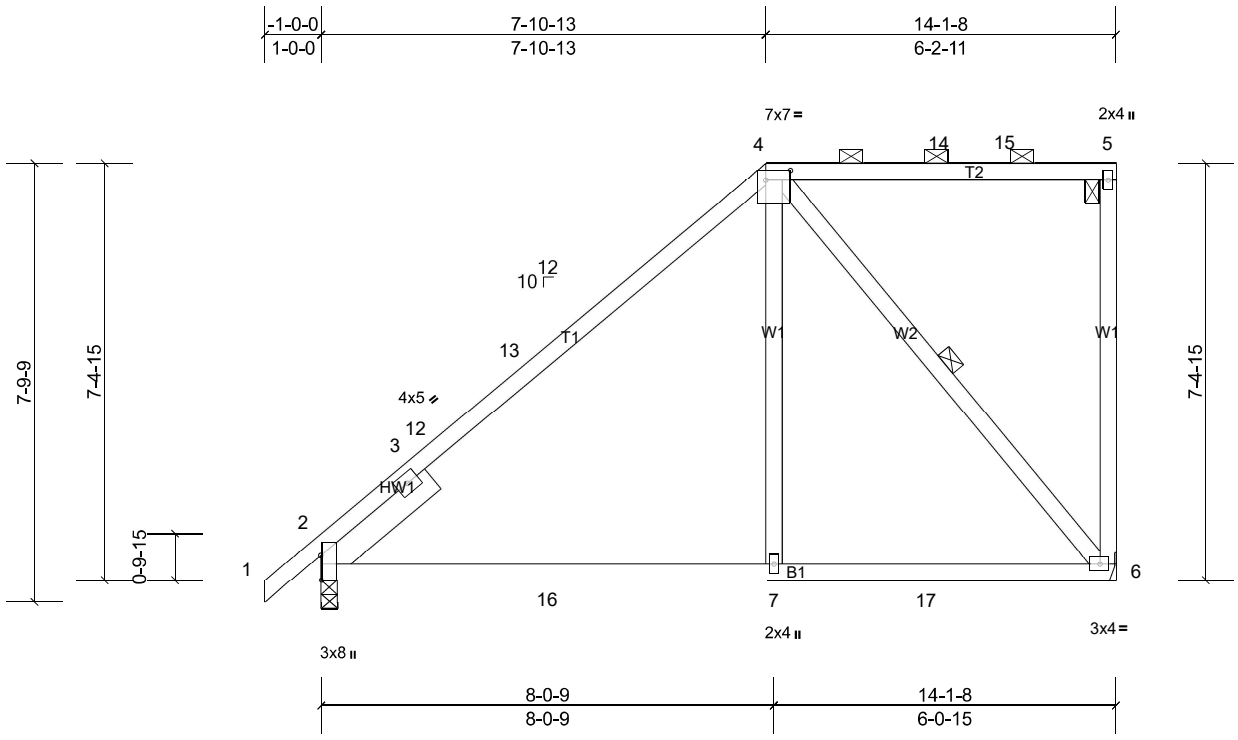
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 9-0-14, Exterior (2) 9-0-14 to 13-3-13, Interior (1) 13-3-13 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 7 and 72 lb uplift at joint 2.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1M | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:41

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | 0.15 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.47 | Vert(CT) | -0.21 | 7-10 | >785 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.27 | Horz(CT) | 0.05 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 87 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=621/0-3-8, (min. 0-1-8), 6=557/ Mechanical, (min. 0-1-8)
Max Horiz 2=230 (LC 10)
Max Uplift 2=-81 (LC 11), 6=-92 (LC 11)
Max Grav 2=663 (LC 16), 6=637 (LC 16)

**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 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 4-6 |

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

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

| | |
|---|---|
| TOP CHORD | 2-3=-442/203, 3-12=-576/57, 12-13=-523/70, 4-13=-506/103 |
| BOT CHORD | 2-16=-420/578, 7-16=-175/419, 7-17=-174/426, 6-17=-174/426 |
| WEBS | 4-7=0/402, 4-6=-620/170 |

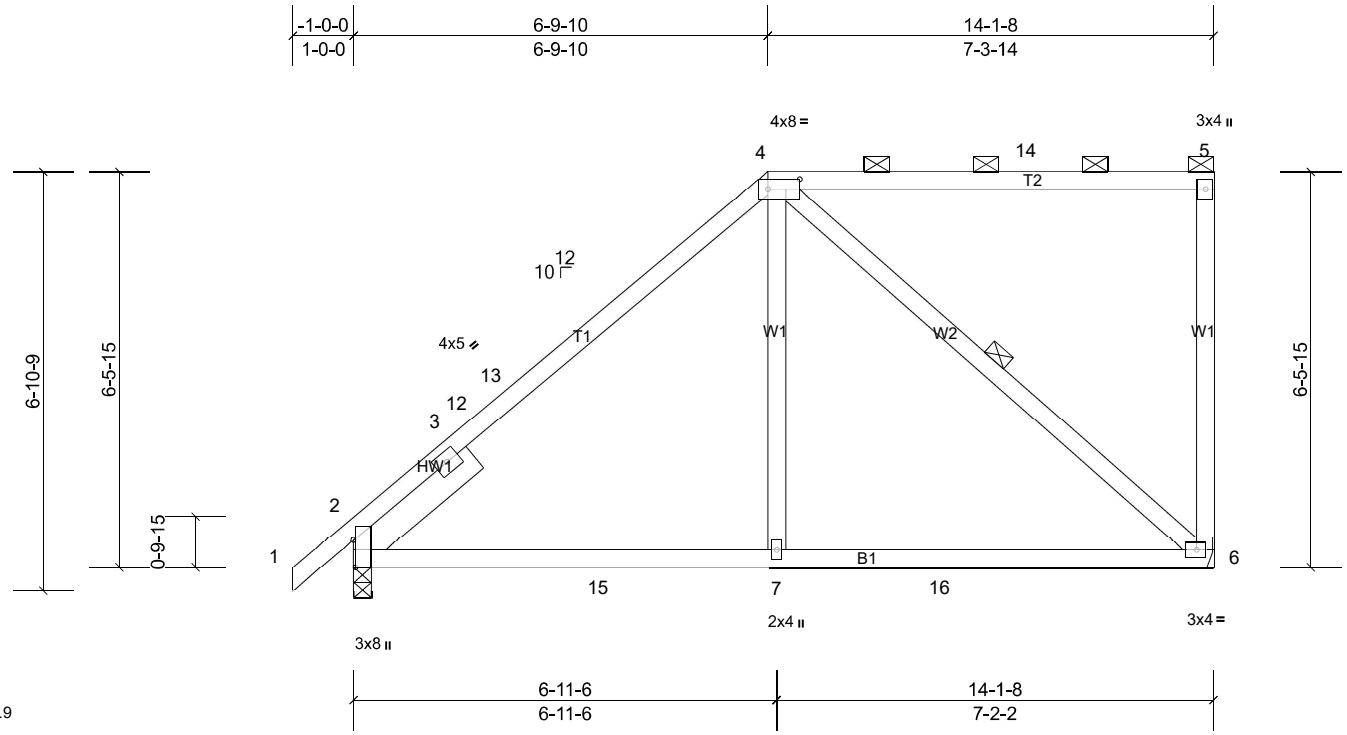
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 7-10-13, Exterior (2) 7-10-13 to 12-1-11, Interior (1) 12-1-11 to 13-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, 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 81 lb uplift at joint 2 and 92 lb uplift at joint 6.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1N | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:37.9

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.60 | Vert(LL) | 0.08 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.10 | 7-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | 0.03 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 84 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=621/0-3-8, (min. 0-1-8), 6=557/ Mechanical, (min. 0-1-8)
Max Horiz 2=201 (LC 10)
Max Uplift 2=-87 (LC 11), 6=-86 (LC 11)
Max Grav 2=655 (LC 16), 6=602 (LC 16)

**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 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 4-6 |

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

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

| | |
|---|---|
| TOP CHORD | 2-3=-305/68, 3-12=-595/60, 12-13=-577/64, 4-13=-542/97 |
| BOT CHORD | 2-15=-342/497, 7-15=-169/453, 7-16=-168/460, 6-16=-168/460 |
| WEBS | 4-7=0/360, 4-6=-566/147 |

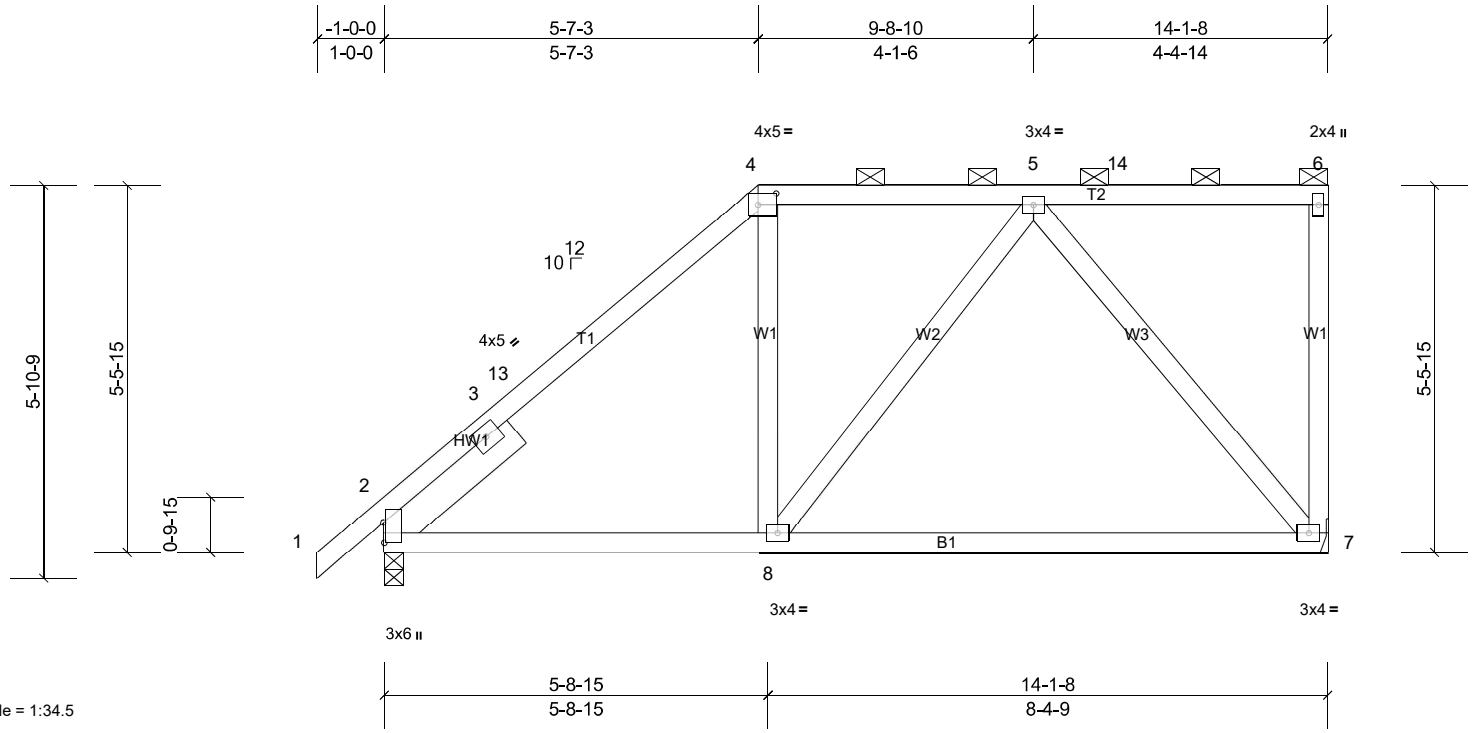
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-9-10, Exterior (2) 6-9-10 to 11-0-8, Interior (1) 11-0-8 to 13-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, 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 87 lb uplift at joint 2 and 86 lb uplift at joint 6.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1O | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:34.5

Plate Offsets (X, Y): [2:0-3-10,0-0-3], [4:0-3-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.29 | Vert(LL) | 0.04 | 8-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.13 | 7-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.43 | Horz(CT) | -0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 86 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=621/0-3-8, (min. 0-1-8), 7=557/ Mechanical, (min. 0-1-8)
Max Horiz 2=170 (LC 10)
Max Uplift 2=-92 (LC 11), 7=-81 (LC 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.): 4-6. |
| 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.

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

| | |
|---|---|
| TOP CHORD | 3-13=-565/58, 4-13=-512/86, 4-5=-393/118 |
| BOT CHORD | 2-8=-267/438, 7-8=-132/321 |
| WEBS | 5-7=-487/143 |

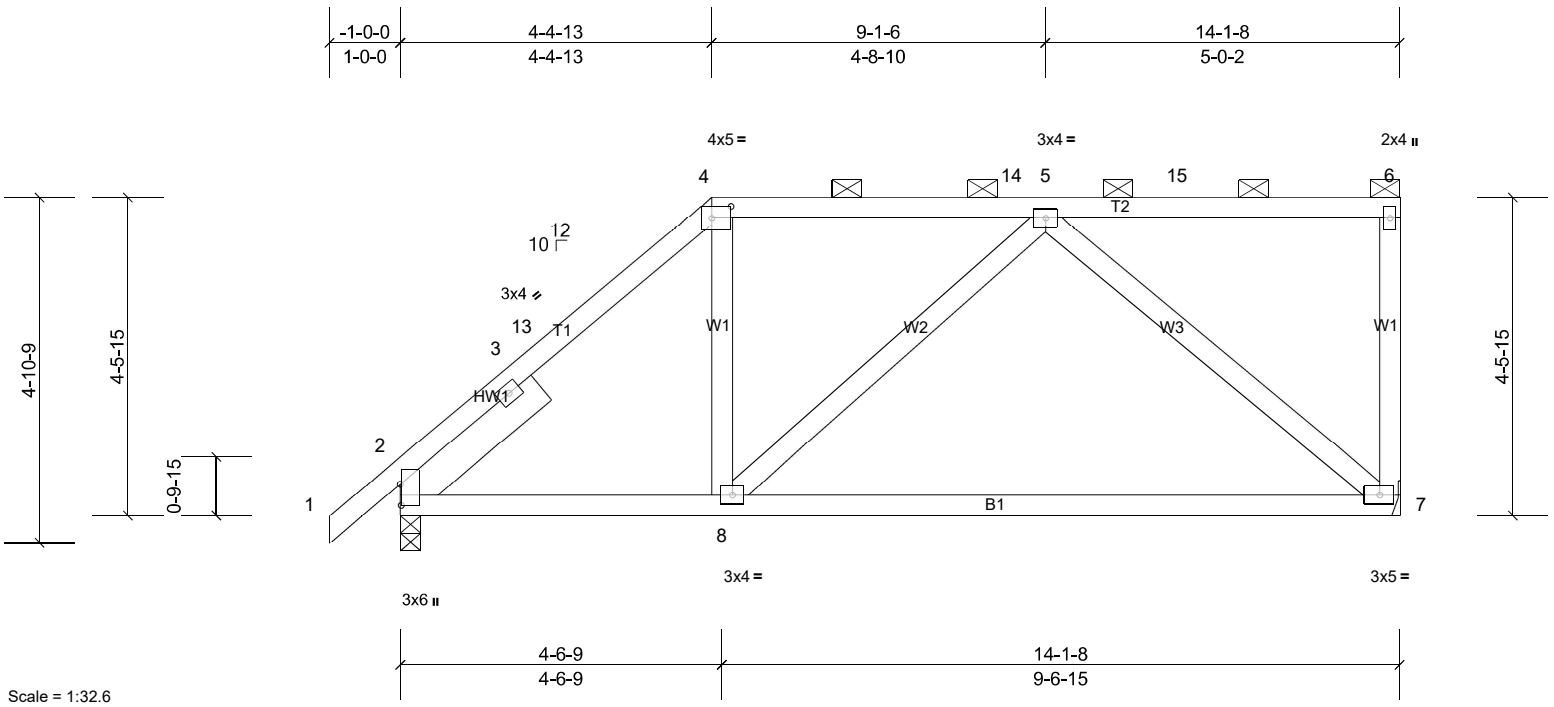
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-7-3, Exterior (2) 5-7-3 to 9-8-10, Interior (1) 9-8-10 to 13-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 2 and 81 lb uplift at joint 7.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T1P | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:32.6

Plate Offsets (X, Y): [2:0-3-10,0-0-3], [4:0-3-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.36 | Vert(LL) | 0.01 | 8-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(CT) | -0.21 | 7-8 | >815 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.43 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 82 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=621/0-3-8, (min. 0-1-8), 7=557/ Mechanical, (min. 0-1-8)
Max Horiz 2=139 (LC 10)
Max Uplift 2=-97 (LC 11), 7=-78 (LC 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.): 4-6. |
| 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.

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

| | |
|---|---|
| TOP CHORD | 3-13=-625/51, 4-13=-572/70, 4-14=-442/99, 5-14=-442/99 |
| BOT CHORD | 2-8=-189/436, 7-8=-137/426 |
| WEBS | 5-7=-533/141 |

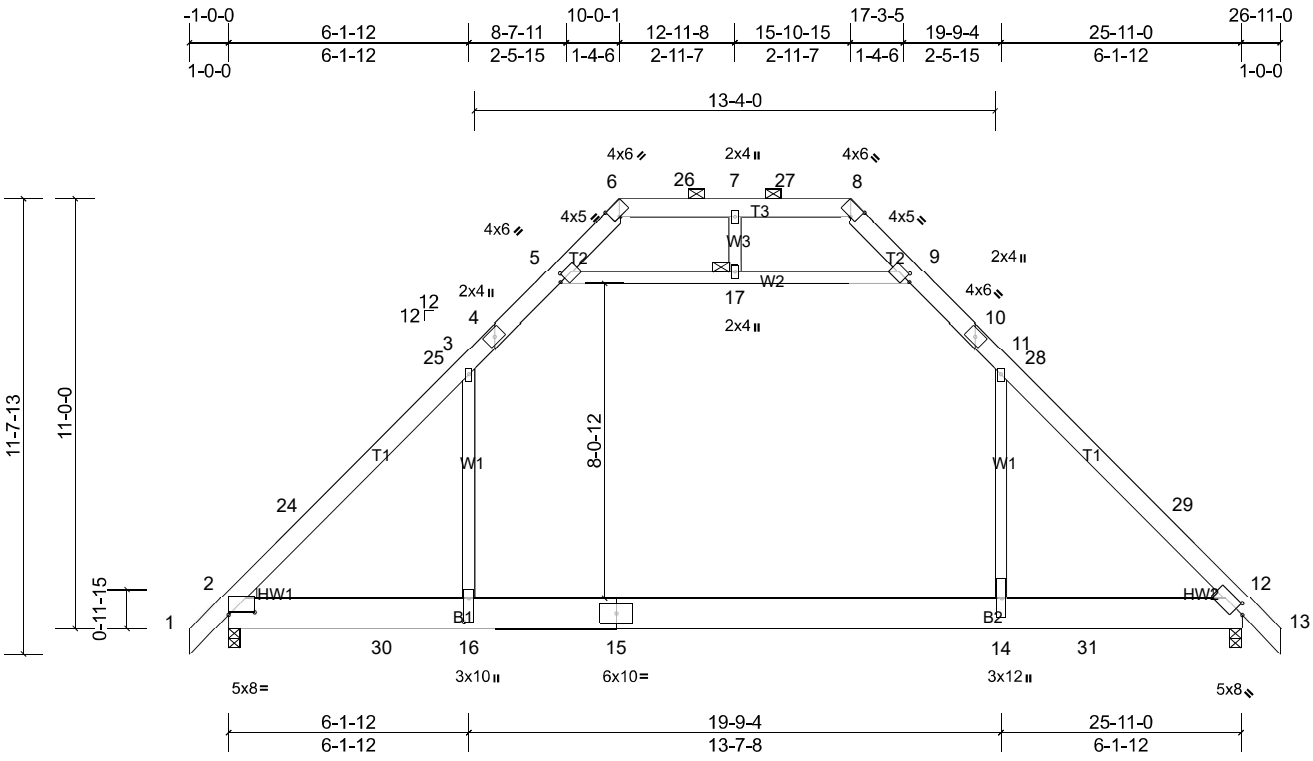
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 4-4-13, Exterior (2) 4-4-13 to 8-7-11, Interior (1) 8-7-11 to 13-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 2 and 78 lb uplift at joint 7.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T2 | Attic | 8 | 1 | Job Reference (optional) |






Scale = 1:59

Plate Offsets (X, Y): [2:0-8-0,0-0-13], [5:0-1-13,0-2-0], [6:0-2-2,Edge], [8:0-2-2,Edge], [9:0-1-13,0-2-0], [12:0-2-8,0-2-8], [16:0-7-4,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.88 | Vert(LL) | -0.37 | 14-16 | >851 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.50 | 14-16 | >620 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.48 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | Attic | -0.21 | 14-16 | >776 | 360 | Weight: 226 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 *Except* T3:2x6 SP No.2 |
| BOT CHORD | 2x10 SP No.2 *Except* B2:2x10 SP No.1 |
| WEBS | 2x4 SP No.3 |
| WEDGE | Left: 2x4 SP No.3 |
| | Right: 2x4 SP No.3 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8. |
| BOT CHORD | Rigid ceiling directly applied or 9-9-4 oc bracing. |
| JOINTS | 1 Brace at Jt(s): 17 |

**REACTIONS** (lb/size) 2=1165/0-3-8, (min. 0-1-13), 12=1165/0-3-8, (min. 0-1-13)
Max Horiz 2=224 (LC 10)
Max Uplift 2=-122 (LC 11), 12=-122 (LC 11)
Max Grav 2=1533 (LC 21), 12=1533 (LC 22)

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

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

| | |
|---|---|
| TOP CHORD | 2-24=-1961/58, 24-25=-1779/88, 3-25=-1759/90, 3-4=-1124/177, 4-5=-1039/196, 5-6=-241/256, 6-26=-52/479, 7-26=-52/479, 7-27=-52/479, 8-27=-52/479, 8-9=-243/256, 9-10=-1041/197, 10-11=-1125/177, 11-28=-1764/90, 28-29=-1784/88, 12-29=-1965/49 |
| BOT CHORD | 2-30=-49/1238, 16-30=0/1238, 15-16=0/1240, 14-15=0/1240, 14-31=0/1238, 12-31=0/1238 |
| WEBS | 3-16=0/1001, 11-14=0/1003, 5-17=-1515/253, 9-17=-1515/253 |

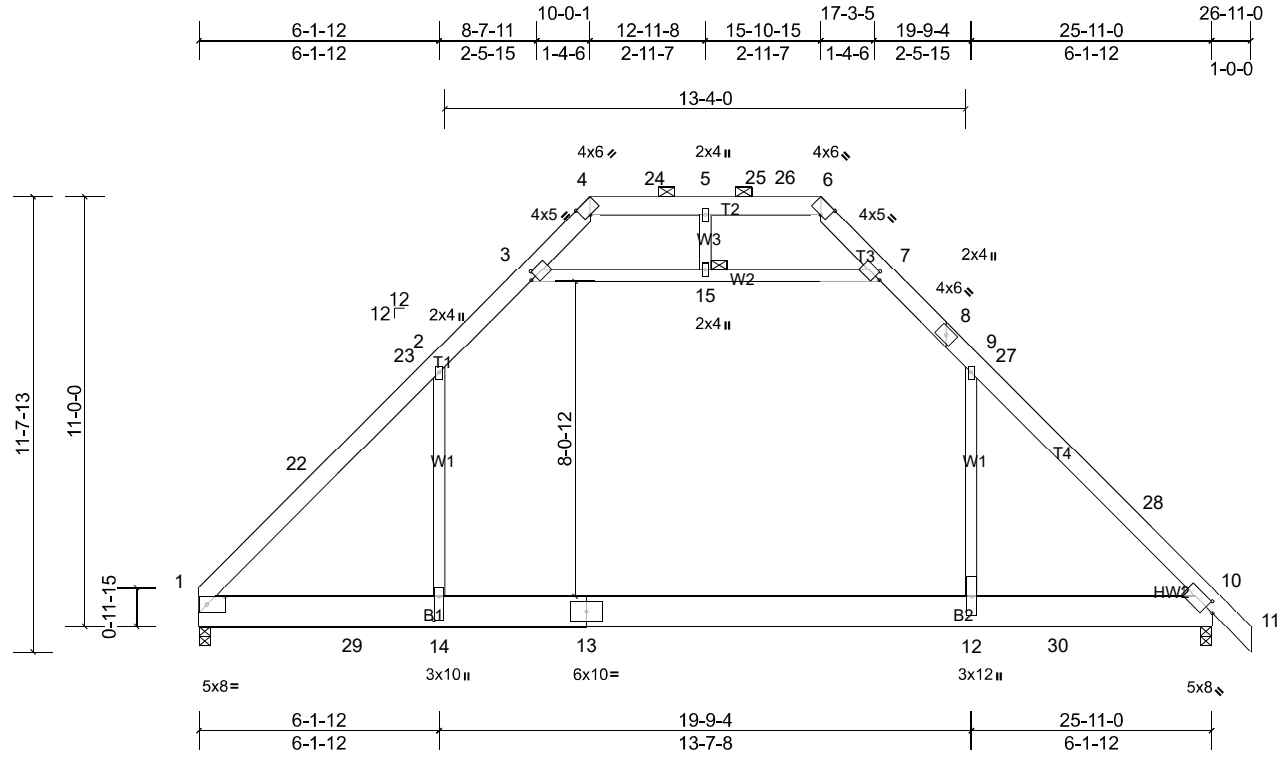
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-0-1, Exterior (2) 10-0-1 to 14-3-0, Interior (1) 14-3-0 to 15-10-15, Exterior (2) 15-10-15 to 20-1-14, Interior (1) 20-1-14 to 26-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Ceiling dead load (5.0 psf) on member(s). 3-5, 9-11, 5-17, 9-17
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2 and 122 lb uplift at joint 12.
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.
10) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T2A | Attic | 8 | 1 | Job Reference (optional) |






Scale = 1:59

| 6-1-12 | 19-9-4 | 25-11-0 |
|---|---|---|
| 6-1-12 | 13-7-8 | 6-1-12 |

Plate Offsets (X, Y): [1:0-2-9,Edge], [3:0-1-13,0-2-0], [4:0-2-2,Edge], [6:0-2-2,Edge], [7:0-1-13,0-2-0], [10:0-2-8,0-2-8], [14:0-7-4,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.89 | Vert(LL) | -0.37 | 12-14 | >851 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.50 | 12-14 | >620 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.48 | Horz(CT) | 0.01 | 1 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | Attic | -0.21 | 12-14 | >776 | 360 | Weight: 221 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 *Except* T2:2x6 SP No.2 |
| BOT CHORD | 2x10 SP No.2 *Except* B2:2x10 SP No.1 |
| WEBS | 2x4 SP No.3 |
| WEDGE | Right: 2x4 SP No.3 |

**REACTIONS** (lb/size) 1=1104/0-3-8, (min. 0-1-12), 10=1166/0-3-8, (min. 0-1-13)
Max Horiz 1=-217 (LC 9)
Max Uplift 1=-86 (LC 11), 10=-123 (LC 11)
Max Grav 1=1477 (LC 21), 10=1534 (LC 22)

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-2-0 oc purlins, except<br>2-0-0 oc purlins (6-0-0 max.): 4-6. |
| BOT CHORD | Rigid ceiling directly applied or 9-9-4 oc bracing. |
| JOINTS | 1 Brace at Jt(s): 15 |

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

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

| | |
|---|---|
| TOP CHORD | 1-22=-1962/69, 22-23=-1781/91, 2-23=-1761/92, 2-3=-1125/198, 3-4=-240/256, 4-24=-52/480, 5-24=-52/480, 5-25=-52/480, 25-26=-52/480, 6-26=-52/480, 6-7=-243/256, 7-8=-1042/198, 8-9=-1127/178, 9-27=-1767/93, 27-28=-1787/91, 10-28=-1969/52 |
| BOT CHORD | 1-29=-47/1240, 14-29=0/1240, 13-14=0/1242, 12-13=0/1242, 12-30=0/1240, 10-30=0/1240 |
| WEBS | 2-14=0/1001, 9-12=0/1003, 3-15=-1516/257, 7-15=-1516/257 |

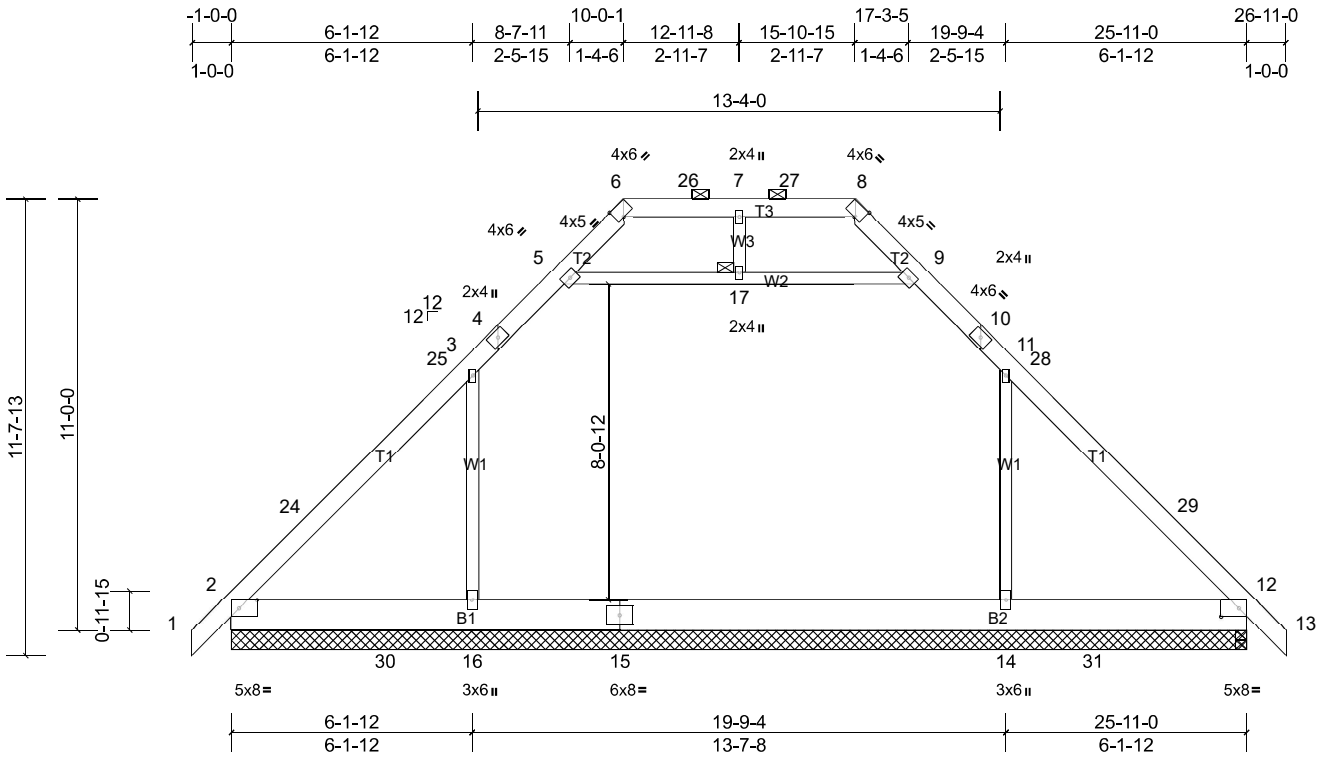
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-0-1, Exterior (2) 10-0-1 to 14-3-0, Interior (1) 14-3-0 to 15-10-15, Exterior (2) 15-10-15 to 20-1-14, Interior (1) 20-1-14 to 26-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Ceiling dead load (5.0 psf) on member(s). 2-3, 7-9, 3-15, 7-15
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 1 and 123 lb uplift at joint 10.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T2B | Attic | 1 | 1 | Job Reference (optional) |






Scale = 1:58.8

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | -0.08 | 14-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.12 | 14-16 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.26 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 225 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.3

**REACTIONS** All bearings 25-11-0. except 12=0-3-8
(lb) - Max Horiz 2=224 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 12 except 14=-158 (LC 11), 16=-158 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) except 2=516 (LC 1), 12=516 (LC 1), 14=963 (LC 22), 16=968 (LC 21)

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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.

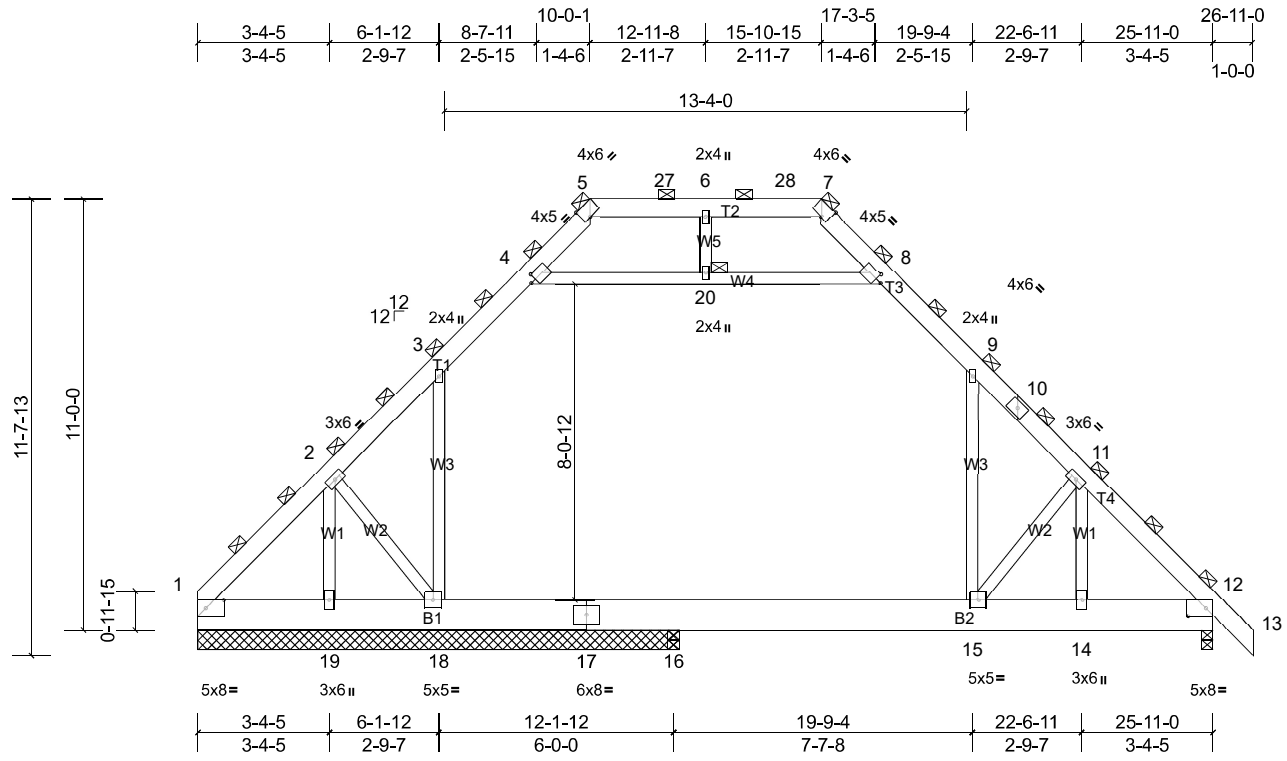
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-493/216, 24-25=-380/84, 3-25=-291/87, 3-4=-474/138, 4-5=-445/155, 5-6=-398/129, 6-26=-291/120, 7-26=-291/120, 7-27=-291/120, 8-27=-291/120, 8-9=-398/129, 9-10=-445/155, 10-11=-474/138, 11-28=-285/83, 28-29=-375/80, 12-29=-490/48
BOT CHORD 2-30=-121/299, 16-30=-60/299, 15-16=-61/298, 14-15=-61/298, 14-31=-60/299, 12-31=-60/299
WEBS 3-16=-370/262, 11-14=-365/262

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-0-1, Exterior (2) 10-0-1 to 14-3-0, Interior (1) 14-3-0 to 15-10-15, Exterior (2) 15-10-15 to 20-1-14, Interior (1) 20-1-14 to 26-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12 except (jt=lb) 16=157, 14=157.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T2CGRD | Attic Girder | 1 | **2** | Job Reference (optional) |






Scale = 1:58.8

Plate Offsets (X, Y): [1:0-2-9,Edge], [4:0-1-13,0-2-0], [5:0-2-2,Edge], [7:0-2-2,Edge], [8:0-1-13,0-2-0], [12:0-2-9,Edge]

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x10 SP No.2 |
| WEBS | 2x4 SP No.3 |

**REACTIONS** All bearings 12-3-8. except 12=0-3-8, 16=0-3-8
(lb) - Max Horiz 1=-325 (LC 5)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 12=-173 (LC 7), 18=-523 (LC 22), 19=-116 (LC 7)
Max Grav All reactions 250 (lb) or less at joint(s) except 1=1013 (LC 18), 12=1529 (LC 18), 16=1576 (LC 11), 18=263 (LC 5), 19=752 (LC 18)

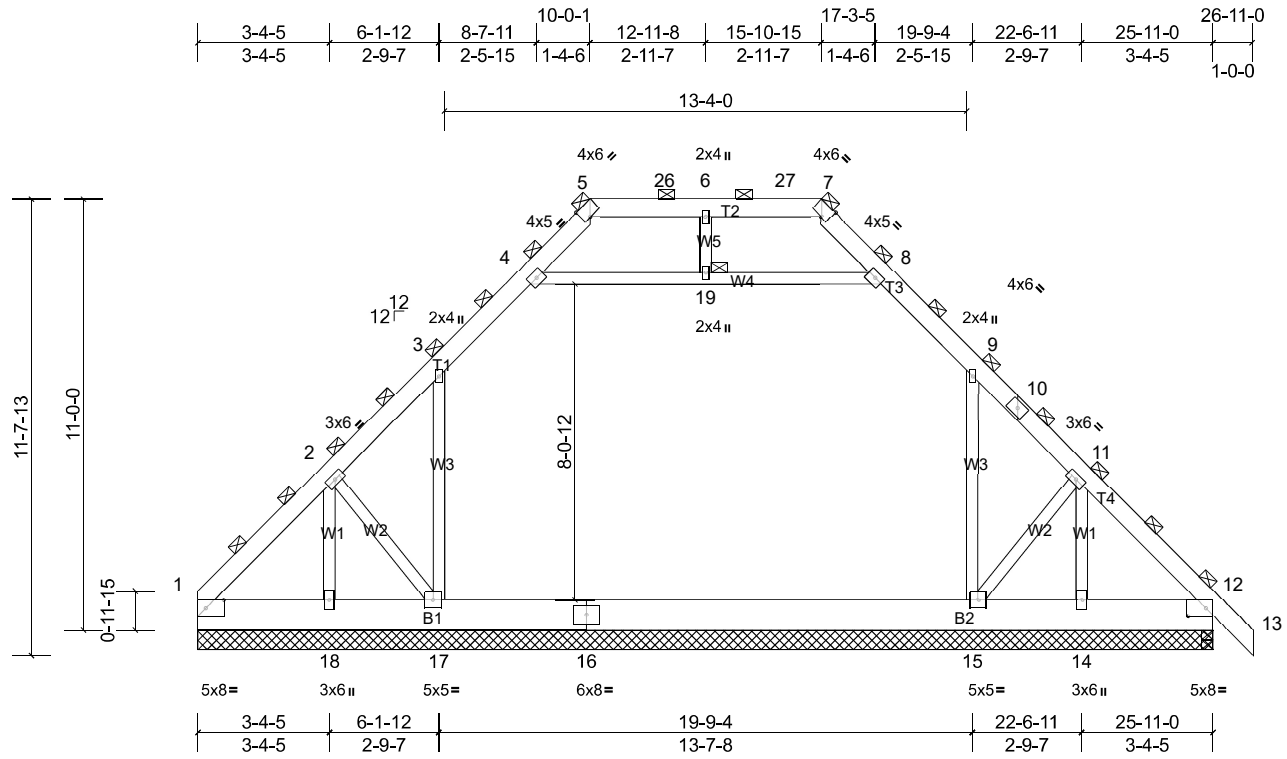
**BRACING**

| | |
|---|---|
| TOP CHORD | 2-0-0 oc purlins (6-0-0 max.) (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): 5, 7, 20 |

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T2GRD | Attic Girder | 1 | **2** | Job Reference (optional) |

Peak Truss Builders LLC, New Hill, user — Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Thu Mar 31 14:52:09 — Page: 1

ID:97FkTYmR4A6q0UX3Yt8pOvzVPRC-Hy510LmdeLpIlj4NMo4YyBSCLsoTUbNziTQBhAzVOma




Scale = 1:58.8

Plate Offsets (X, Y): [1:0-2-9,Edge], [5:0-2-2,Edge], [7:0-2-2,Edge], [12:0-2-9,Edge]

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x10 SP No.2 |
| WEBS | 2x4 SP No.3 |

**REACTIONS** All bearings 25-11-0. except 12=0-3-8

(lb) - Max Horiz 1=-325 (LC 5)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 12, 15, 17 except 14=-427 (LC 11), 18=-424 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 14, 18 except 1=672 (LC 18), 12=747 (LC 1), 15=1385 (LC 18), 17=1379 (LC 17)

**BRACING**

| | |
|---|---|
| TOP CHORD | 2-0-0 oc purlins (6-0-0 max.)<br>(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): 5, 7, 19 |

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T3 | Piggyback Base | 2 | 1 | Job Reference (optional) |



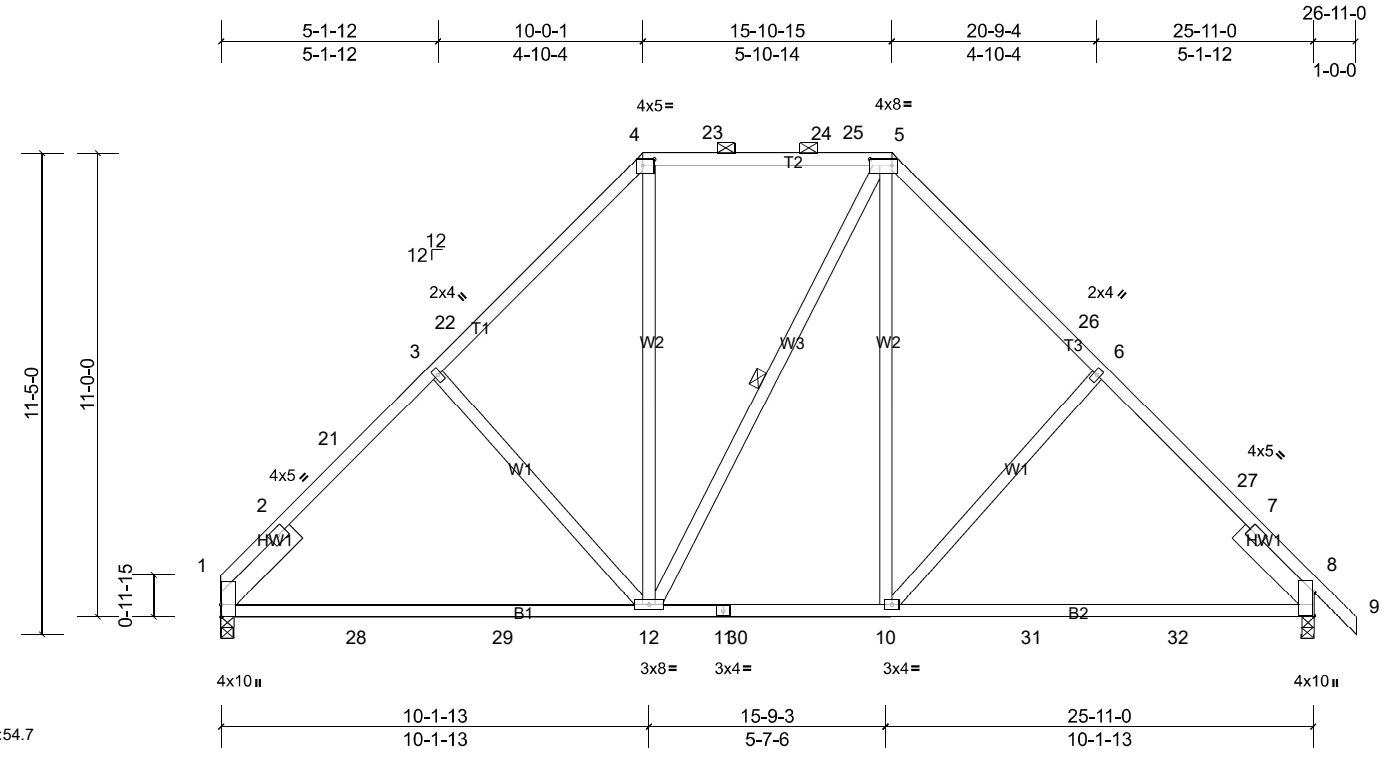



Plate Offsets (X, Y): [1:0-3-8,Edge], [4:0-3-4,0-1-12], [5:0-6-4,0-1-12], [8:0-6-12,0-0-2]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.39 | Vert(LL) | -0.19 | 12-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | -0.36 | 12-15 | >873 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.30 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 174 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 1=1036/0-3-8, (min. 0-1-8), 8=1098/0-3-8, (min. 0-1-8)
Max Horiz 1=-216 (LC 9)
Max Uplift 1=-127 (LC 11), 8=-163 (LC 11)
Max Grav 1=1084 (LC 19), 8=1149 (LC 20)

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-9-13 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 5-12 |

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

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

| | |
|---|---|
| TOP CHORD | 1-2=-863/0, 2-21=-1115/193, 3-21=-1014/214, 3-22=-1012/230, 4-22=-918/268, 4-23=-670/252, 23-24=-670/252, 24-25=-670/252, 5-25=-670/252, 5-26=-929/267, 6-26=-1021/229, 6-27=-1024/213, 7-27=-1136/187, 7-8=-808/0 |
| BOT CHORD | 1-28=-142/909, 28-29=-22/909, 12-29=-22/909, 11-12=0/717, 11-30=0/717, 10-30=0/717, 10-31=0/793, 31-32=0/793, 8-32=0/793 |
| WEBS | 3-12=-276/203, 4-12=-64/397, 5-10=-62/454, 6-10=-276/202 |

**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-0-1, Exterior (2) 10-0-1 to 14-3-0, Interior (1) 14-3-0 to 15-10-15, Exterior (2) 15-10-15 to 20-1-14, Interior (1) 20-1-14 to 26-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 1 and 163 lb uplift at joint 8.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T3A | Piggyback Base | 8 | 1 | Job Reference (optional) |

Peak Truss Builders LLC, New Hill, user — Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Thu Mar 31 14:52:09 — Page: 1

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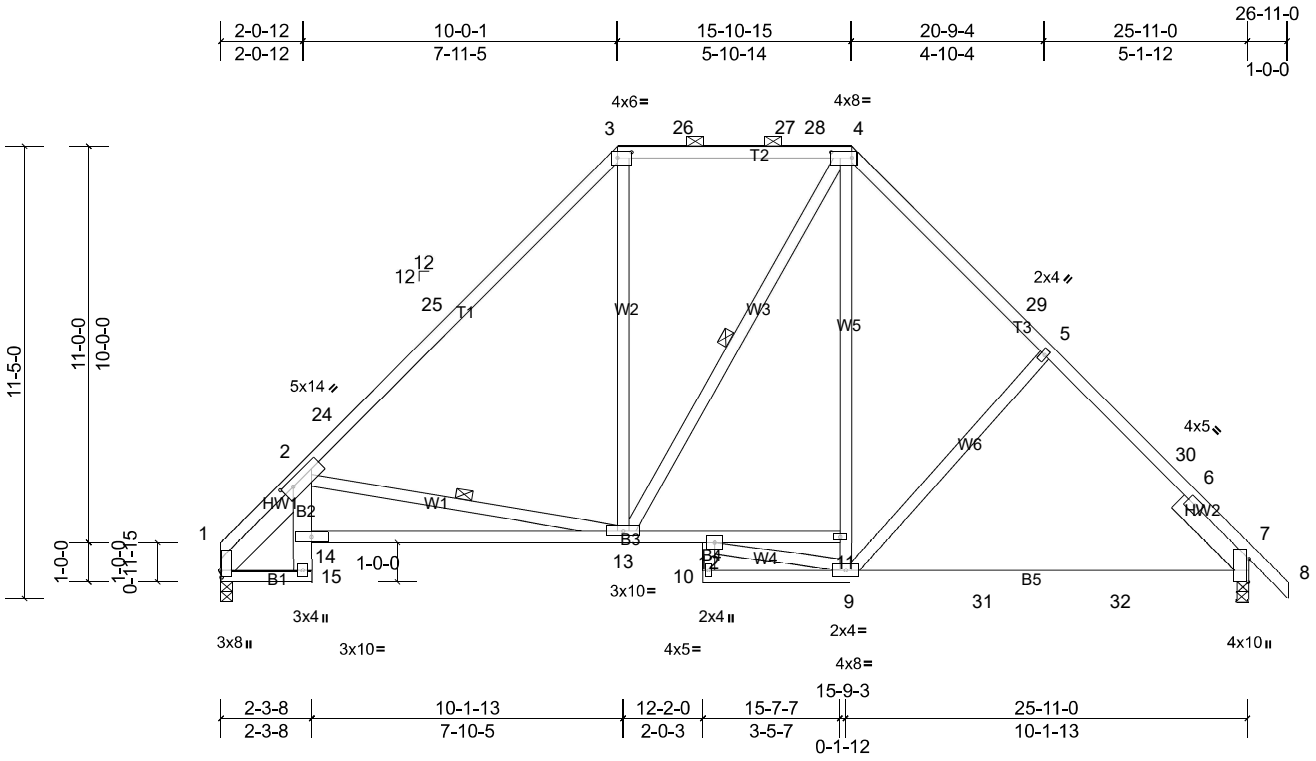



Scale = 1:58.2

Plate Offsets (X, Y): [1:0-2-0,0-0-2], [2:0-3-8,0-2-0], [3:0-4-4,0-1-12], [4:0-6-4,0-1-12], [7:0-7-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.61 | Vert(LL) | -0.19 | 9-22 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.34 | 9-22 | >916 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.30 | Horz(CT) | 0.09 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 190 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 *Except* B2:2x6 SP No.2, B4:2x4 SP No.3 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-9-9, Right 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 1=1036/0-3-8, (min. 0-1-8), 7=1098/0-3-8, (min. 0-1-8)
Max Horiz 1=-216 (LC 9)
Max Uplift 1=-127 (LC 11), 7=-163 (LC 11)

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-8-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-12,9-10. |
| WEBS | 1 Row at midpt 2-13, 4-13 |

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

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

| | |
|---|---|
| TOP CHORD | 1-2=-300/24, 2-24=-1158/149, 24-25=-1000/174, 3-25=-970/210, 3-26=-688/243, 26-27=-688/243, 27-28=-688/243, 4-28=-688/243, 4-29=-870/268, 5-29=-976/229, 5-30=-983/211, 6-30=-1117/185, 6-7=-777/0 |
| BOT CHORD | 1-15=-70/850, 13-14=-215/1545, 12-13=0/647, 9-31=0/738, 31-32=0/738, 7-32=0/738 |
| WEBS | 2-13=-825/367, 3-13=0/319, 9-11=-92/314, 4-11=-89/321, 5-9=-275/205, 9-12=0/564 |

**NOTES**

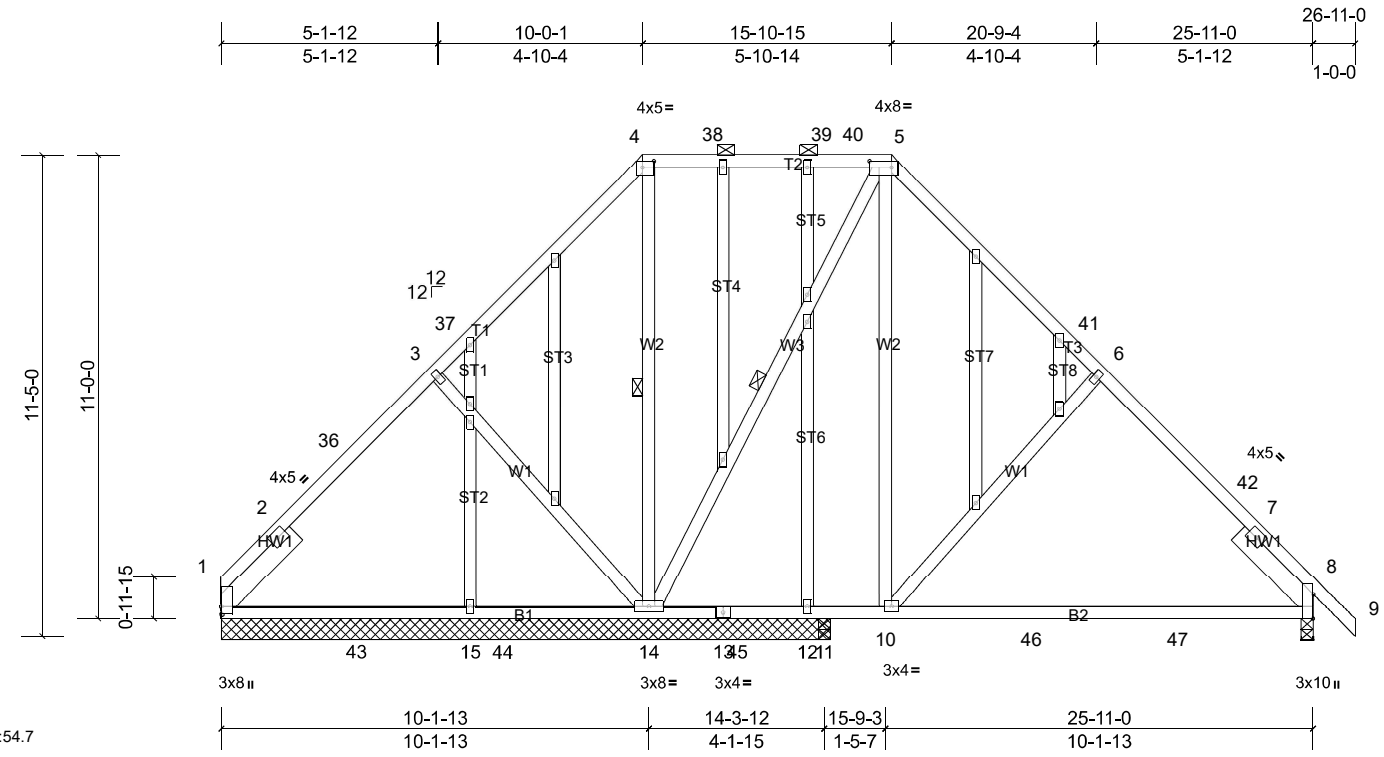
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-0-1, Exterior (2) 10-0-1 to 14-3-0, Interior (1) 14-3-0 to 15-10-15, Exterior (2) 15-10-15 to 20-1-14, Interior (1) 20-1-14 to 26-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 1 and 163 lb uplift at joint 7.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T3SE | Piggyback Base Structural Gable | 1 | 1 | Job Reference (optional) |

Peak Truss Builders LLC, New Hill, user — Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Thu Mar 31 14:52:10 — Page: 1

ID:Lb21dMwfTfCCXEsWA1sKH9zVPPi-l8ePEgnFPfxcvsfZwVbnVP?KFG3TD_w7x79lEczVOmZ




Scale = 1:54.7

Plate Offsets (X, Y): [1:0-2-4,0-0-2], [4:0-3-4,0-1-12], [5:0-6-4,0-1-12], [8:0-7-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.38 | Vert(LL) | -0.17 | 10-34 | >796 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | -0.33 | 10-34 | >421 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.37 | Horz(CT) | -0.01 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 230 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except<br>2-0-0 oc purlins (6-0-0 max.): 4-5. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 4-14, 5-14 |

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

**REACTIONS** All bearings 14-5-8. except 8=0-3-8, 11=0-3-8

(lb) - Max Horiz 1=-216 (LC 9), 28=-216 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 12, 14 except 1=-125 (LC 11), 8=-135 (LC 11), 11=-373 (LC 15), 28=-125 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 11, 15 except 1=488 (LC 20), 8=846 (LC 20), 12=322 (LC 15), 14=791 (LC 1), 28=488 (LC 20)

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

TOP CHORD 2-36=-410/168, 3-36=-365/191, 3-37=-375/207, 4-37=-335/245, 4-38=-293/234, 38-39=-293/234, 39-40=-293/234, 5-40=-293/234, 5-41=-530/227, 6-41=-628/189, 6-42=-714/173, 7-42=-720/147, 7-8=-762/0

BOT CHORD 1-43=-56/411, 15-43=-56/411, 15-44=-56/411, 14-44=-56/411, 13-14=0/419, 13-45=0/419, 12-45=0/419, 11-12=0/419, 10-11=0/419, 10-46=0/511, 46-47=0/511, 8-47=0/511

WEBS 3-14=-277/215, 5-14=-513/0, 5-10=-12/548, 6-10=-289/206

**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-0-1, Exterior (2) 10-0-1 to 14-3-0, Interior (1) 14-3-0 to 15-10-15, Exterior (2) 15-10-15 to 20-1-14, Interior (1) 20-1-14 to 26-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 12 except (jt=lb) 1=124, 8=134, 11=372, 1=124.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T4 | Piggyback Base | 1 | 1 | Job Reference (optional) |

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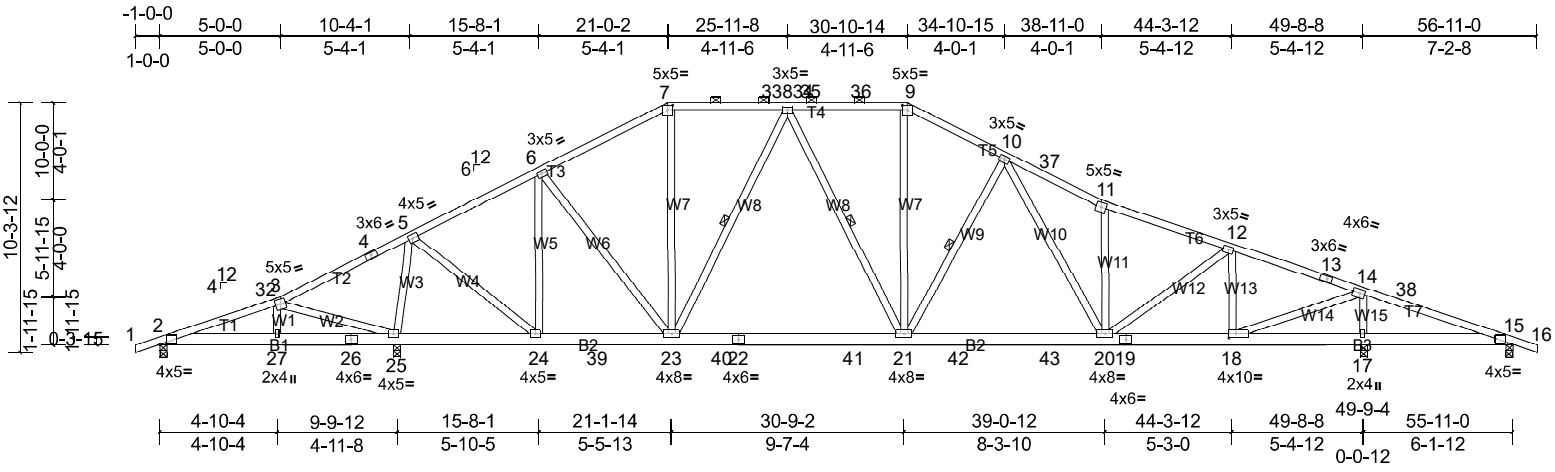


Scale = 1:95.2

Plate Offsets (X, Y): [2:0-3-6,0-0-8], [7:0-2-8,0-2-4], [9:0-2-8,0-2-4], [15:0-3-6,0-0-8], [18:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.39 | Vert(LL) | -0.13 | 21-23 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.58 | Vert(CT) | -0.25 | 21-23 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.95 | Horz(CT) | 0.03 | 17 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 386 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.3 |

**REACTIONS** All bearings 0-3-8.

(lb) - Max Horiz 2=-162 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 15 except 17=-258 (LC 11), 25=-282 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 2, 15 except 17=2102 (LC 1), 25=2310 (LC 19)

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except
2-0-0 oc purlins (4-11-11 max.): 7-9.

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

WEBS 1 Row at midpt 8-23, 8-21, 10-21

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

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

TOP CHORD 2-32=-54/361, 3-32=-30/375, 3-4=-81/741, 4-5=-55/808, 5-6=-1006/208, 6-7=-1374/292, 7-33=-1176/291, 8-33=-1176/291, 8-34=-1547/328, 34-35=-1547/328, 35-36=-1547/328, 9-36=-1547/328, 9-10=-1765/342, 10-37=-2183/406, 11-37=-2263/394, 11-12=-2120/315, 12-13=-1538/240, 13-14=-1615/222, 14-38=-79/783, 15-38=-96/737

BOT CHORD 2-27=-342/100, 26-27=-352/81, 25-26=-352/81, 24-25=-393/131, 24-39=0/923, 23-39=0/923, 23-40=0/1446, 22-40=0/1446, 22-41=0/1446, 21-41=0/1446, 21-42=-68/1742, 42-43=-68/1742, 20-43=-68/1742, 19-20=-102/1483, 18-19=-102/1483, 17-18=-702/139, 15-17=-702/139

WEBS 3-25=-470/98, 5-25=-2058/321, 5-24=-123/1542, 6-24=-863/137, 6-23=0/553, 7-23=-23/369, 8-23=-615/108, 8-21=-14/272, 9-21=-62/557, 10-21=-519/176, 10-20=-96/489, 11-20=-575/170, 12-20=-10/584, 12-18=-794/156, 14-18=-257/2332, 14-17=-1864/306

**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 4-7-2, Interior (1) 4-7-2 to 21-0-2, Exterior (2) 21-0-2 to 26-7-4, Interior (1) 26-7-4 to 30-10-14, Exterior (2) 30-10-14 to 36-6-0, Interior (1) 36-6-0 to 56-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15 except (jt=lb) 25=282, 17=257.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T4A | Piggyback Base | 1 | 1 | Job Reference (optional) |

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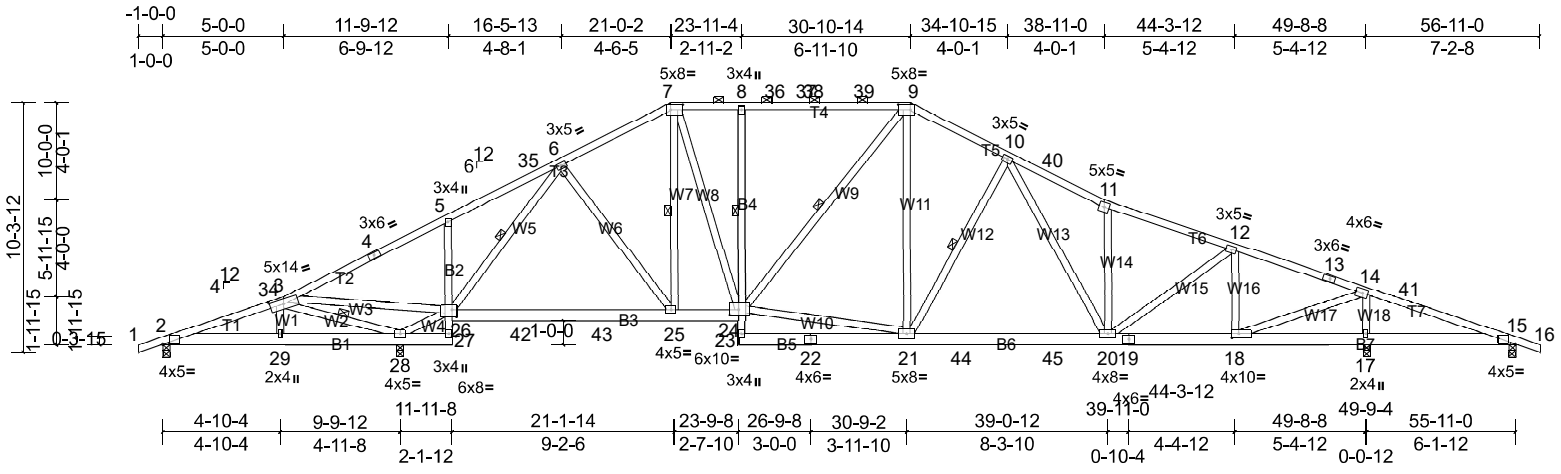


Scale = 1:95.2

Plate Offsets (X, Y): [2:0-3-6,0-0-8], [3:0-6-12,0-2-8], [7:0-6-0,0-2-8], [9:0-6-0,0-2-8], [15:0-3-6,0-0-8], [18:0-3-8,0-2-0], [24:0-4-4,0-2-12], [26:0-2-4,0-3-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.52 | Vert(LL) | -0.13 | 20-21 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.53 | Vert(CT) | -0.25 | 20-21 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.07 | 17 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 410 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x6 SP No.2 *Except* B2,B4:2x4 SP No.3 |
| WEBS | 2x4 SP No.3 *Except* W3:2x4 SP No.2 |

**REACTIONS** All bearings 0-3-8.

(lb) - Max Horiz 2=-162 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 15 except 17=-261 (LC 11), 28=-286 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 2, 15 except 17=2143 (LC 1), 28=2309 (LC 1)

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-1-3 oc purlins, except 2-0-0 oc purlins (4-5-9 max.): 7-9. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. Except: |
| 1 Row at midpt | 8-24 |
| WEBS | 1 Row at midpt 3-28, 6-26, 7-25, 9-24, 10-21 |

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

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

TOP CHORD 2-34=-60/475, 3-34=-48/481, 6-7=-1417/283, 7-8=-1389/318, 8-36=-1394/320, 36-37=-1394/320, 37-38=-1394/320, 38-39=-1394/320, 9-39=-1394/320, 9-10=-1630/341, 10-40=-2067/400, 11-40=-2132/388, 11-12=-2005/309, 12-13=-1450/233, 13-14=-1542/215, 14-41=-91/893, 15-41=-108/839

BOT CHORD 2-29=-426/99, 28-29=-425/93, 26-27=-252/31, 5-26=-387/187, 26-42=0/992, 42-43=0/992, 25-43=0/992, 24-25=0/1226, 8-24=-381/133, 21-44=-64/1640, 44-45=-64/1640, 20-45=-64/1640, 19-20=-95/1413, 18-19=-95/1413, 17-18=-796/151, 15-17=-796/151

WEBS 3-28=-2163/292, 26-28=-2623/449, 3-26=-262/2518, 6-26=-1465/151, 6-25=0/478, 7-24=-131/640, 21-24=-4/1212, 9-21=-47/506, 10-21=-506/168, 10-20=-92/498, 11-20=-571/171, 12-20=-10/575, 12-18=-796/156, 14-18=-263/2357, 14-17=-1902/309

**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 4-7-2, Interior (1) 4-7-2 to 21-0-2, Exterior (2) 21-0-2 to 26-7-4, Interior (1) 26-7-4 to 30-10-14, Exterior (2) 30-10-14 to 36-6-0, Interior (1) 36-6-0 to 56-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15 except (jt=lb) 28=285, 17=261.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T4B | Piggyback Base | 1 | 1 | Job Reference (optional) |

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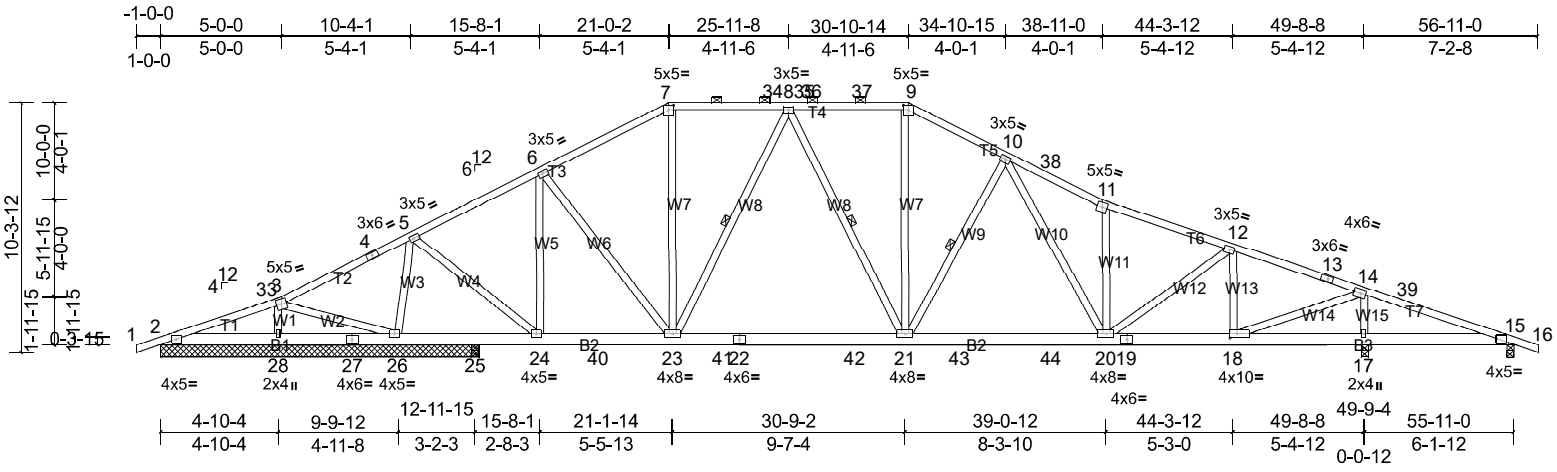


Scale = 1:95.2

Plate Offsets (X, Y): [7:0-2-8,0-2-4], [9:0-2-8,0-2-4], [15:0-3-6,0-0-8], [18:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.38 | Vert(LL) | -0.13 | 21-23 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.24 | 21-23 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.94 | Horz(CT) | 0.03 | 17 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 386 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.3 |

**REACTIONS** All bearings 13-1-11. except 17=0-3-8, 15=0-3-8, 25=0-3-8

(lb) - Max Horiz 2=-162 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 15, 25, 28 except 17=-256 (LC 11), 26=-280 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 2, 15, 28 except 17=2082 (LC 1), 25=317 (LC 19), 26=1932 (LC 19)

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-0-13 oc purlins, except 2-0-0 oc purlins (5-0-6 max.): 7-9.

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

WEBS 1 Row at midpt 8-23, 10-21, 8-21

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

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

TOP CHORD 2-33=-44/309, 3-33=-23/342, 3-4=-88/694, 4-5=-62/761, 5-6=-880/201, 6-7=-1317/288, 7-34=-1124/287, 8-34=-1124/287, 8-35=-1508/326, 35-36=-1508/326, 36-37=-1508/326, 9-37=-1508/326, 9-10=-1721/339, 10-38=-2144/403, 11-38=-2225/391, 11-12=-2084/313, 12-13=-1515/239, 13-14=-1599/220, 14-39=-78/768, 15-39=-95/722

BOT CHORD 2-28=-281/81, 27-28=-293/74, 26-27=-293/74, 25-26=-407/137, 24-25=-407/137, 24-40=0/819, 23-40=0/819, 23-41=0/1406, 22-41=0/1406, 22-42=0/1406, 21-42=0/1406, 21-43=-65/1705, 43-44=-65/1705, 20-44=-65/1705, 19-20=-100/1467, 18-19=-100/1467, 17-18=-687/139, 15-17=-687/139

WEBS 6-24=-962/143, 5-26=-1884/320, 7-23=-21/339, 6-23=0/657, 8-23=-637/109, 9-21=-61/537, 10-21=-522/177, 11-20=-571/170, 10-20=-97/494, 12-18=-780/155, 12-20=-9/571, 14-17=-1845/304, 3-26=-369/111, 14-18=-255/2293, 8-21=-9/291, 5-24=-122/1384

**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 4-7-2, Interior (1) 4-7-2 to 21-0-2, Exterior (2) 21-0-2 to 26-7-4, Interior (1) 26-7-4 to 30-10-14, Exterior (2) 30-10-14 to 36-6-0, Interior (1) 36-6-0 to 56-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 15, 25 except (jt=lb) 26=280, 17=256.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T5 | Piggyback Base | 1 | 1 | Job Reference (optional) |

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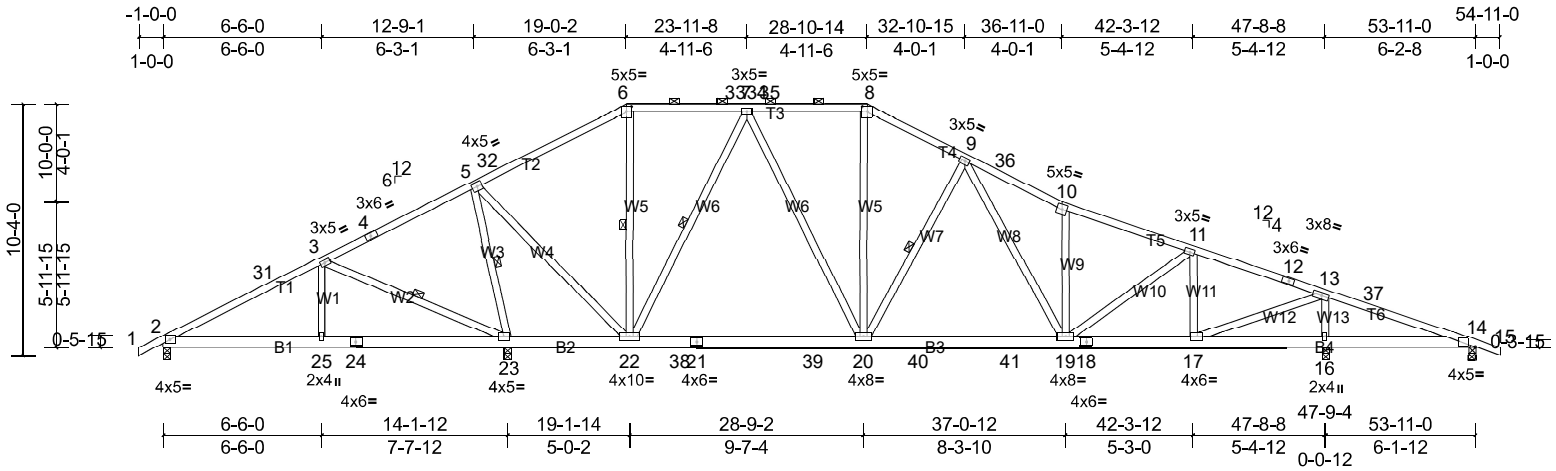



Scale = 1:94.7

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.11 | 20-22 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.20 | 20-22 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.02 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 370 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.3 |

**REACTIONS** All bearings 0-3-8.

(lb) - Max Horiz 2=-172 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 14 except 16=-214 (LC 11), 23=-269 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 14 except 2=486 (LC 23), 16=1761 (LC 1), 23=2152 (LC 1)

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-8-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.

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

WEBS 1 Row at midpt 3-23, 5-23, 6-22, 7-22, 9-20

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

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

TOP CHORD 2-31=-523/37, 3-31=-380/54, 3-4=0/307, 4-5=0/428, 5-32=-513/148, 6-32=-434/179, 6-33=-378/193, 7-33=-378/193, 7-34=-1041/264, 34-35=-1041/264, 8-35=-1041/264, 8-9=-1203/271, 9-36=-1664/341, 10-36=-1744/329, 10-11=-1633/255, 11-12=-1235/202, 12-13=-1318/184, 13-37=-54/592, 14-37=-71/547

BOT CHORD 2-25=-16/402, 24-25=-2/402, 23-24=-2/402, 22-23=-728/226, 22-38=0/777, 21-38=0/777, 21-39=0/777, 20-39=0/777, 20-40=-6/1253, 40-41=-6/1253, 19-41=-6/1253, 18-19=-66/1201, 17-18=-66/1201, 16-17=-521/116, 14-16=-521/116

WEBS 3-23=-644/125, 5-23=-1813/293, 5-22=-106/1513, 7-22=-896/145, 7-20=-16/587, 8-20=-30/306, 9-20=-543/180, 9-19=-104/532, 10-19=-497/161, 11-19=0/368, 11-17=-610/133, 13-17=-194/1833, 13-16=-1534/263

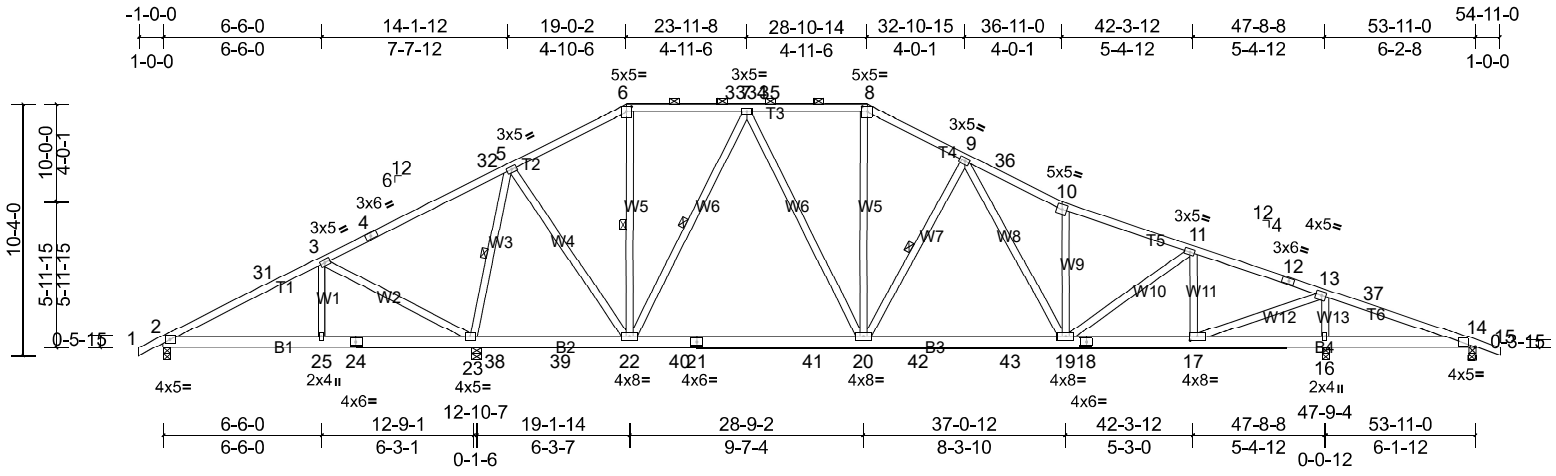
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 4-4-11, Interior (1) 4-4-11 to 19-0-2, Exterior (2) 19-0-2 to 24-4-13, Interior (1) 24-4-13 to 28-10-14, Exterior (2) 28-10-14 to 34-3-9, Interior (1) 34-3-9 to 54-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14 except (jt=lb) 23=269, 16=214.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T5A | Piggyback Base | 1 | 1 | Job Reference (optional) |






Scale = 1:94.7

Plate Offsets (X, Y): [6:0-2-8,0-2-4], [8:0-2-8,0-2-4], [14:0-3-6,0-0-8], [17:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.52 | Vert(LL) | -0.10 | 20-22 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.19 | 20-22 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.78 | Horz(CT) | 0.02 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 369 lb | FT = 20% |

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

**REACTIONS** All bearings 0-3-8. except 23=0-4-15
(lb) - Max Horiz 2=-172 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 14 except 16=-218 (LC 11), 23=-287 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 14 except 2=373 (LC 23), 16=1812 (LC 1), 23=2287 (LC 19)

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-6-9 oc purlins, except
2-0-0 oc purlins (5-10-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-22, 7-22, 9-20, 5-23

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

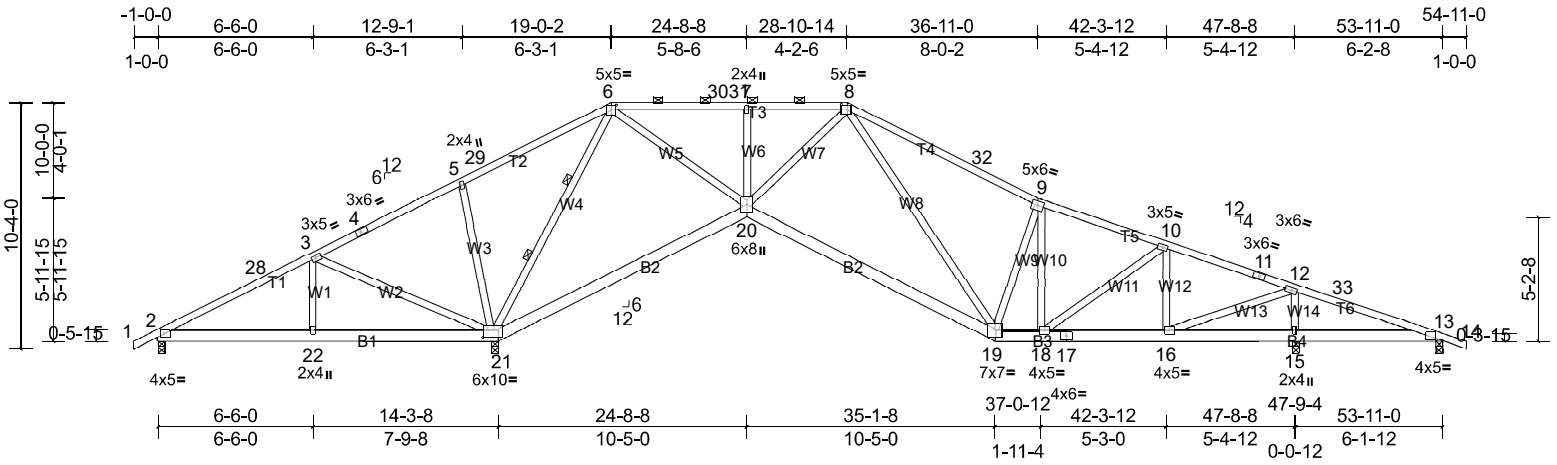
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-31=-291/170, 3-4=-43/522, 4-32=-23/664, 5-32=-2/676, 5-6=-659/202, 6-33=-522/201, 7-33=-522/201, 7-34=-1133/271, 34-35=-1133/271, 8-35=-1133/271, 8-9=-1305/279, 9-36=-1764/348, 10-36=-1844/336, 10-11=-1727/262, 11-12=-1300/208, 12-13=-1376/189, 13-37=-55/604, 14-37=-71/558
BOT CHORD 22-40=0/902, 21-40=0/902, 21-41=0/902, 20-41=0/902, 20-42=-13/1344, 42-43=-13/1344, 19-43=-13/1344, 18-19=-71/1257, 17-18=-71/1257, 16-17=-532/116, 14-16=-532/116
WEBS 7-22=-843/148, 7-20=-11/525, 8-20=-35/354, 9-20=-542/180, 9-19=-103/530, 10-19=-511/162, 11-19=0/402, 11-17=-639/135, 13-17=-200/1910, 13-16=-1583/267, 3-23=-666/167, 5-22=-32/1159, 5-23=-1852/280

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 4-4-11, Interior (1) 4-4-11 to 19-0-2, Exterior (2) 19-0-2 to 24-4-13, Interior (1) 24-4-13 to 28-10-14, Exterior (2) 28-10-14 to 34-3-9, Interior (1) 34-3-9 to 54-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14 except (jt=lb) 16=218, 23=287.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T5B | Piggyback Base | 6 | 1 | Job Reference (optional) |






Scale = 1:96.7

Plate Offsets (X, Y): [6:0-2-8,0-2-4], [8:0-3-0,0-2-8], [13:0-3-6,0-0-8], [21:0-2-7,0-3-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | -0.07 | 19-20 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.24 | 19-20 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.89 | Horz(CT) | 0.08 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 346 lb | FT = 20% |

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

**BRACING**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-8-12 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2 Rows at 1/3 pts 6-21

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

**REACTIONS** All bearings 0-3-8.
(lb) - Max Horiz 2=-172 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 13 except 2=-187 (LC 24), 15=-203 (LC 11), 21=-276 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 2, 13 except 15=1617 (LC 24), 21=2643 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-28=-86/663, 3-28=0/695, 3-4=-2/1026, 4-5=0/1176, 5-29=0/1111, 6-29=0/1263, 6-30=-965/127, 30-31=-965/127, 7-31=-965/127, 7-8=-965/127, 8-32=-1159/339, 9-32=-1267/310, 9-10=-1284/269, 10-11=-1047/205, 11-12=-1102/187, 12-33=-28/579, 13-33=-45/524
BOT CHORD 2-22=-593/70, 21-22=-593/70, 20-21=-297/236, 19-20=0/1112, 18-19=-70/1175, 17-18=-68/993, 16-17=-68/993, 15-16=-498/91, 13-15=-498/91
WEBS 10-16=-494/133, 12-16=-169/1590, 12-15=-1399/252, 5-21=-367/187, 3-21=-676/132, 9-19=-458/203, 6-21=-1934/66, 6-20=0/1446, 7-20=-324/96

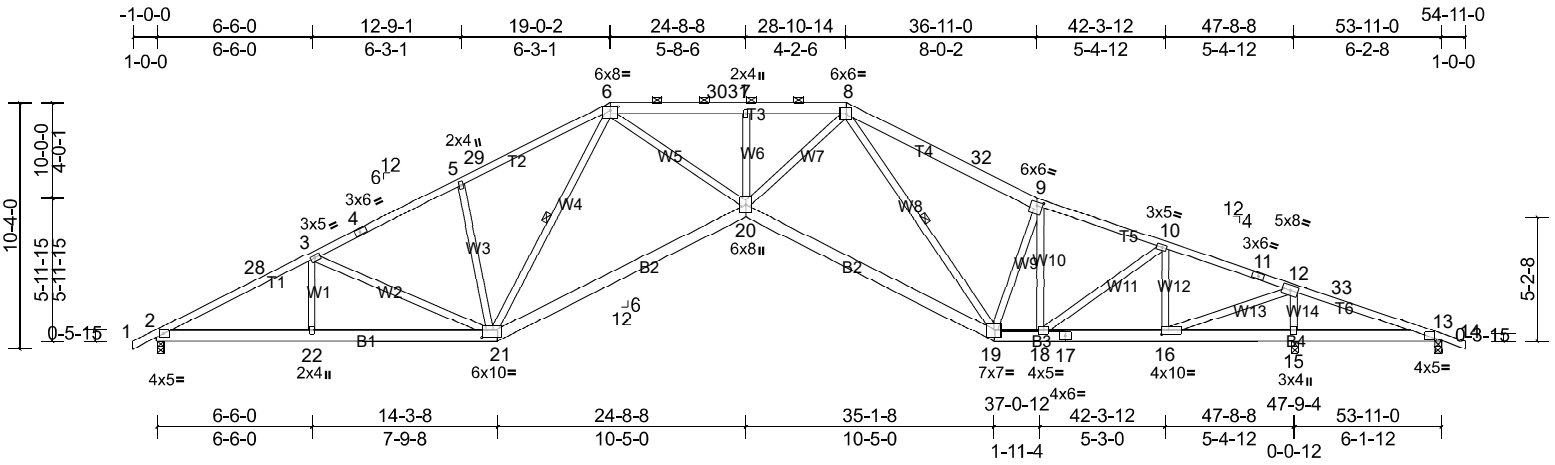
**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 4-4-11, Interior (1) 4-4-11 to 19-0-2, Exterior (2) 19-0-2 to 24-4-13, Interior (1) 24-4-13 to 28-10-14, Exterior (2) 28-10-14 to 34-3-9, Interior (1) 34-3-9 to 54-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=187, 15=203, 21=275.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T5C | Piggyback Base | 1 | 1 | Job Reference (optional) |

Peak Truss Builders LLC, New Hill, user — Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Thu Mar 31 14:52:13 — Page: 1

ID:sUjEm8LMrdd_D9CbcYBv?LzVPef-AjKYsiq7haJBmKN8be9U71dnmT2qQCJZd5OPqxzVOmW




Scale = 1:96.7

Plate Offsets (X, Y): [6:0-4-0,0-1-15], [9:0-3-0,0-2-0], [13:0-3-6,0-0-8], [16:0-3-8,0-2-0], [21:0-2-7,0-3-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.61 | Vert(LL) | -0.32 | 20 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.69 | 20-21 | >834 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.32 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 361 lb | FT = 20% |

**LUMBER**

TOP CHORD 2x4 SP No.1 *Except* T3,T4:2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W13,W5,W7:2x4 SP No.2

**REACTIONS** (lb/size) 2=1880/0-3-8, (min. 0-2-3), 13=-381/0-3-8, (min. 0-1-8), 15=2932/0-3-8, (min. 0-3-7)
Max Horiz 2=-171 (LC 9)
Max Uplift 2=-262 (LC 11), 13=-410 (LC 23), 15=-338 (LC 11)
Max Grav 2=1880 (LC 1), 13=-6 (LC 11), 15=2932 (LC 1)

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-0-13 oc purlins, except
2-0-0 oc purlins (3-0-3 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-11-8 oc bracing: 15-16
4-11-13 oc bracing: 13-15.
WEBS 1 Row at midpt 6-21, 8-19

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

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

TOP CHORD 2-28=-3500/432, 3-28=-3398/449, 3-4=-2936/412, 4-5=-2786/442, 5-29=-2852/487, 6-29=-2760/518, 6-30=-4778/530, 30-31=-4779/529, 7-31=-4779/529, 7-8=-4777/529, 8-32=-2483/475, 9-32=-2586/446, 9-10=-2439/391, 10-11=-1501/259, 11-12=-1557/240, 12-33=-169/2003, 13-33=-186/1946

BOT CHORD 2-22=-307/3059, 21-22=-307/3059, 20-21=-169/3147, 19-20=-180/3388, 18-19=-185/2280, 17-18=-119/1424, 16-17=-119/1424, 15-16=-1847/225, 13-15=-1847/225

WEBS 9-18=-576/64, 10-18=-80/1040, 10-16=-1199/206, 12-15=-2667/381, 5-21=-370/185, 3-21=-558/118, 12-16=-367/3491, 6-21=-762/0, 6-20=-76/2529, 8-20=-73/2565, 8-19=-1387/4, 7-20=-318/95

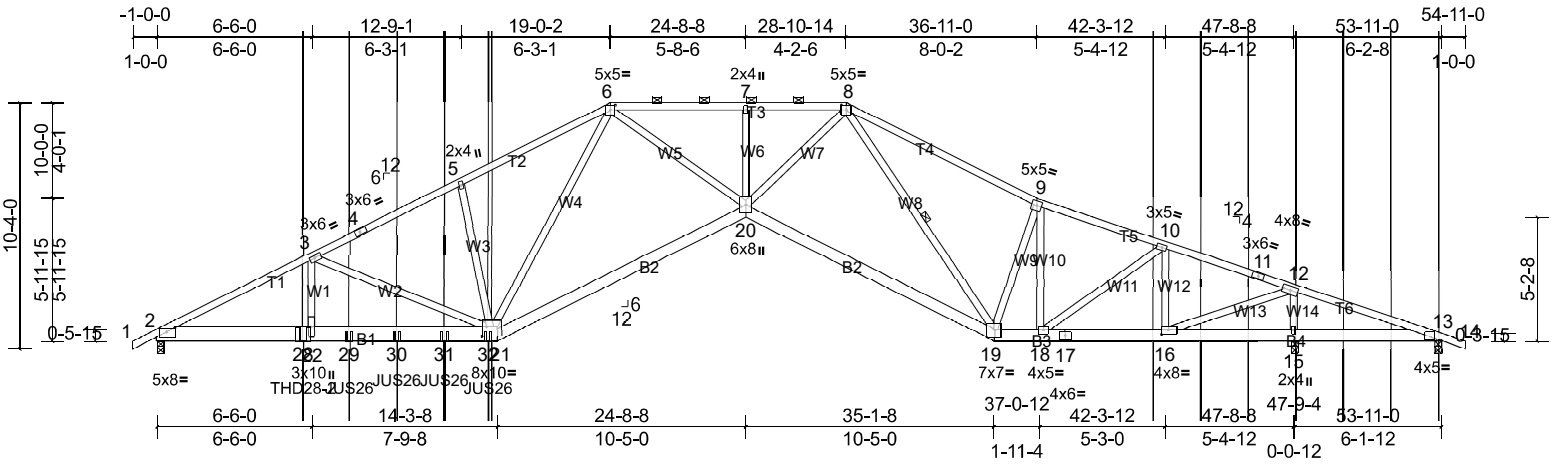
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 4-4-11, Interior (1) 4-4-11 to 19-0-2, Exterior (2) 19-0-2 to 24-4-13, Interior (1) 24-4-13 to 28-10-14, Exterior (2) 28-10-14 to 34-3-9, Interior (1) 34-3-9 to 54-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 2, 338 lb uplift at joint 15 and 410 lb uplift at joint 13.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T5GRD | Piggyback Base Girder | 1 | **2** | Job Reference (optional) |






Scale = 1:96.7

Plate Offsets (X, Y): [2:0-4-0,0-1-15], [6:0-2-8,0-2-4], [8:0-2-8,0-2-4], [13:0-3-6,0-0-8], [16:0-3-8,0-2-0], [21:0-2-7,0-4-12]

| **Loading** | (psf) | **Spacing** | 2-0-0 | **CSI** | | **DEFL** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.29 | 20 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.93 | Vert(CT) | -0.58 | 19-20 | >989 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.95 | Horz(CT) | 0.27 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 712 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* B1:2x8 SP No.1
WEBS 2x4 SP No.3 *Except* W13:2x4 SP No.2

**REACTIONS** (lb/size) 2=4432/0-3-8, (min. 0-2-10), 13=-889/0-3-8, (min. 0-1-8), 15=4142/0-3-8, (min. 0-2-7)
Max Horiz 2=-172 (LC 5)
Max Uplift 2=-711 (LC 7), 13=-907 (LC 16), 15=-553 (LC 7)
Max Grav 2=4432 (LC 1), 13=84 (LC 7), 15=4142 (LC 1)

**BRACING**
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-3-10 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,13-15.
WEBS 1 Row at midpt 8-19

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-9304/1469, 3-4=-6138/991, 4-5=-6065/1013, 5-6=-6060/1090, 6-7=-7669/1054, 7-8=-7669/1054, 8-9=-3592/661, 9-10=-3279/544, 10-11=-1680/292, 11-12=-1740/274, 12-13=-457/3536
BOT CHORD 2-28=-1216/8247, 22-28=-1216/8247, 22-29=-1217/8253, 29-30=-1216/8250, 30-31=-1216/8247, 31-32=-1216/8243, 21-32=-1215/8240, 20-21=-640/5774, 19-20=-484/5070, 18-19=-334/3093, 17-18=-150/1594, 16-17=-150/1594, 15-16=-3299/481, 13-15=-3299/481
WEBS 3-22=-296/2305, 5-21=-395/192, 9-18=-1026/147, 10-16=-1843/320, 10-18=-224/1820, 12-15=-3832/589, 3-21=-3075/550, 12-16=-673/5223, 6-21=-306/614, 6-20=-203/3188, 9-19=0/330, 8-20=-437/4583, 8-19=-2554/209, 7-20=-295/102

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 711 lb uplift at joint 2, 553 lb uplift at joint 15 and 907 lb uplift at joint 13.
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.
10) Use USP THD28-2 (With 28-16d nails into Girder & 16-10d nails into Truss) or equivalent at 6-1-8 from the left end to connect truss(es) T1GRD (2 ply 2x4 SP) to front face of bottom chord.
11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 13-10-12 to connect truss (es) T1P (1 ply 2x4 SP), T1O (1 ply 2x4 SP), T1N (1 ply 2x4 SP), T1M (1 ply 2x4 SP) to front face of bottom chord.

Continued on page 2

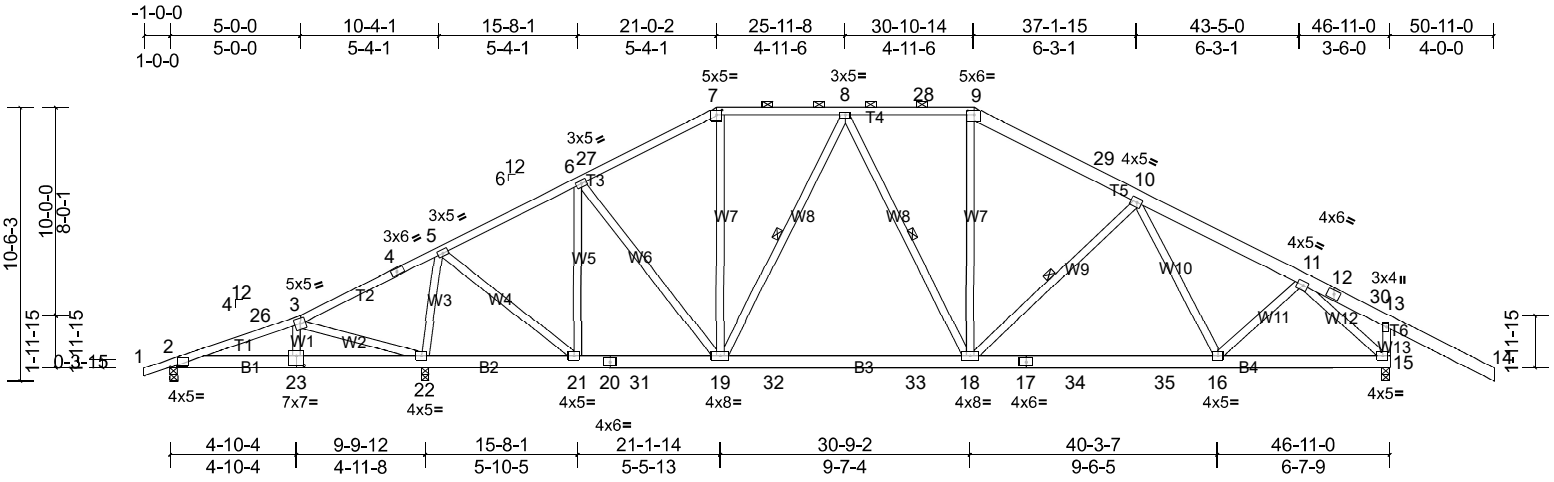
12) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-6=-60, 6-8=-60, 8-9=-60, 9-14=-60, 21-23=-20, 20-21=-20, 19-20=-20, 13-19=-20
   Concentrated Loads (lb)
   Vert: 28=-1107 (F), 29=-537 (F), 30=-537 (F), 31=-537 (F), 32=-537 (F)

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T6 | Piggyback Base | 1 | 1 | Job Reference (optional) |






Scale = 1:88.6

Plate Offsets (X, Y): [2:0-3-6,0-0-8], [7:0-2-8,0-2-4], [9:0-3-0,0-2-0], [23:0-3-8,0-4-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.11 | 18-19 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.20 | 18-19 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.69 | Horz(CT) | 0.04 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 356 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.1 *Except* T5,T6:2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

**REACTIONS** (lb/size) 2=256/0-3-8, (min. 0-1-8), 15=1689/0-3-8, (min. 0-2-0), 22=2102/0-3-8, (min. 0-2-8)
Max Horiz 2=198 (LC 10)
Max Uplift 2=-77 (LC 11), 15=-331 (LC 11), 22=-237 (LC 11)
Max Grav 2=275 (LC 23), 15=1696 (LC 20), 22=2128 (LC 19)

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 5-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-1 max.): 7-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-19, 8-18, 10-18

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

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-18/542, 4-5=0/610, 5-6=-1040/225, 6-27=-1330/265, 7-27=-1266/291, 7-8=-1128/290, 8-28=-1405/305, 9-28=-1405/305, 9-29=-1564/306, 10-29=-1647/275, 10-11=-1806/234, 13-15=-461/363
BOT CHORD 21-22=-255/139, 20-21=0/948, 20-31=0/948, 19-31=0/948, 19-32=0/1361, 32-33=0/1361, 18-33=0/1361, 17-18=-10/1589, 17-34=-10/1589, 34-35=-10/1589, 16-35=-10/1589, 15-16=0/1202
WEBS 3-22=-498/112, 5-22=-1864/271, 5-21=-78/1369, 6-21=-750/110, 6-19=0/445, 7-19=-22/347, 8-19=-505/82, 9-18=-28/455, 10-18=-360/152, 11-16=-21/471, 11-15=-1733/80

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-8-5, Interior (1) 3-8-5 to 21-0-2, Exterior (2) 21-0-2 to 25-11-8, Interior (1) 25-11-8 to 30-10-14, Exterior (2) 30-10-14 to 35-7-3, Interior (1) 35-7-3 to 50-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 2, 237 lb uplift at joint 22 and 331 lb uplift at joint 15.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T6A | Piggyback Base | 3 | 1 | Job Reference (optional) |

Peak Truss Builders LLC, New Hill, user — Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Thu Mar 31 14:52:15 — Page: 1

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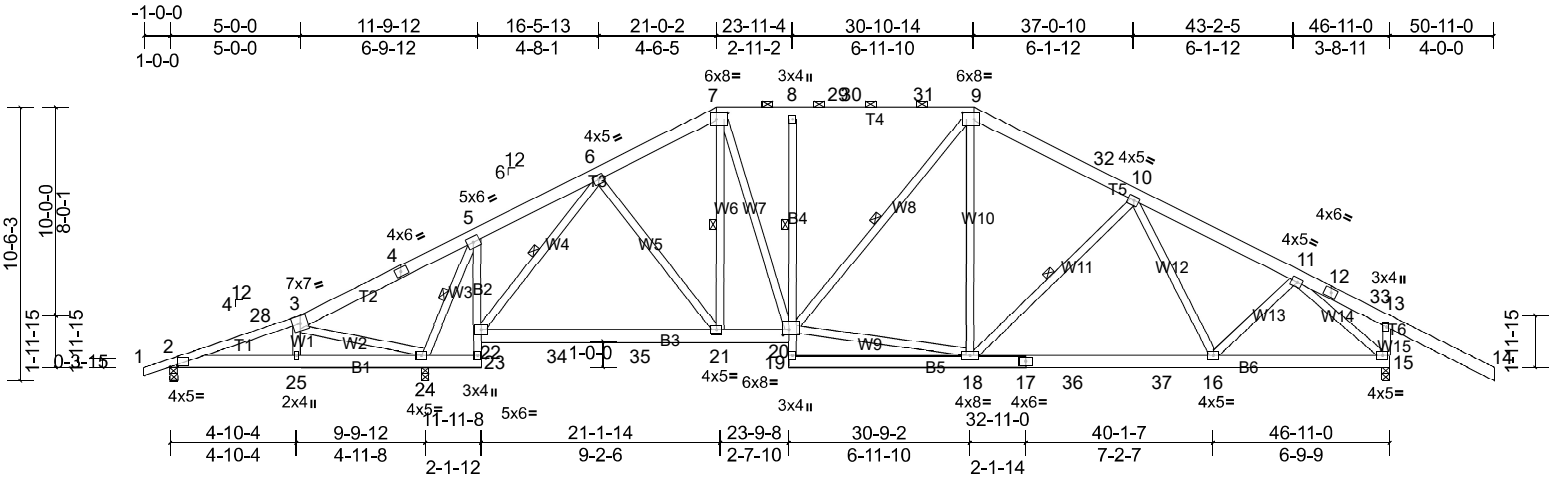



Scale = 1:88.6

Plate Offsets (X, Y): [2:0-3-6,0-0-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [20:0-2-12,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.09 | 16-18 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.18 | 16-18 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.07 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 397 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 *Except* T1:2x4 SP No.1 |
| BOT CHORD | 2x6 SP No.2 *Except* B2,B4:2x4 SP No.3 |
| WEBS | 2x4 SP No.3 |

**REACTIONS** (lb/size) 2=164/0-3-8, (min. 0-1-8), 15=1664/0-3-8, (min. 0-1-15), 24=2220/0-3-8, (min. 0-2-10)
Max Horiz 2=197 (LC 10)
Max Uplift 2=-109 (LC 11), 15=-339 (LC 11), 24=-197 (LC 11)
Max Grav 2=186 (LC 23), 15=1664 (LC 1), 24=2220 (LC 1)

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-5-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. Except: |
| 1 Row at midpt | 8-20 |
| WEBS | 1 Row at midpt 5-24, 6-22, 7-21, 9-20, 10-18 |

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

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

| | |
|---|---|
| TOP CHORD | 2-28=-104/446, 3-28=-14/481, 3-4=0/907, 4-5=0/994, 5-6=-217/276, 6-7=-1326/303, 7-8=-1287/329, 8-29=-1288/330, 29-30=-1288/330, 30-31=-1288/330, 9-31=-1288/330, 9-32=-1420/325, 10-32=-1510/295, 10-11=-1687/249, 13-15=-460/355 |
| BOT CHORD | 2-25=-344/24, 24-25=-353/0, 5-22=0/1128, 22-34=0/896, 34-35=0/896, 21-35=0/896, 20-21=0/1131, 8-20=-362/125, 17-18=-19/1491, 17-36=-19/1491, 36-37=-19/1491, 16-37=-19/1491, 15-16=0/1163 |
| WEBS | 3-24=-498/140, 5-24=-2069/192, 6-22=-1341/25, 6-21=0/434, 7-20=-102/551, 18-20=0/1084, 9-18=0/344, 10-18=-368/138, 11-16=-19/396, 11-15=-1654/100 |

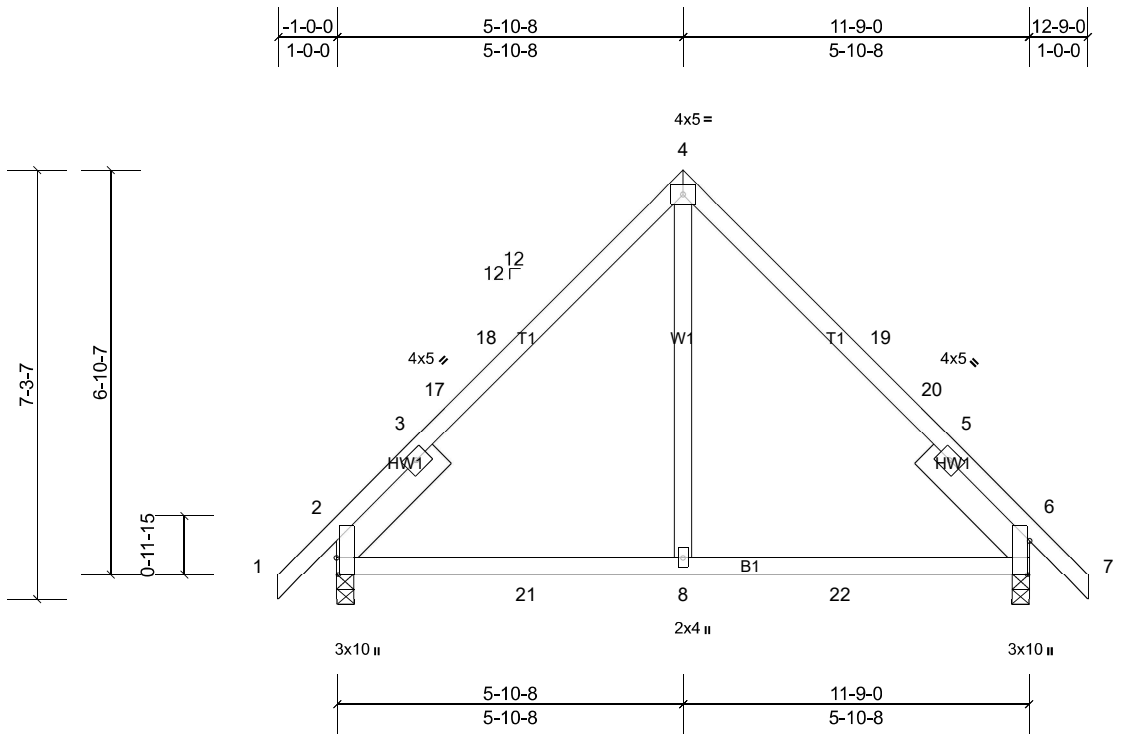
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-8-5, Interior (1) 3-8-5 to 21-0-2, Exterior (2) 21-0-2 to 25-8-7, Interior (1) 25-8-7 to 30-10-14, Exterior (2) 30-10-14 to 35-7-3, Interior (1) 35-7-3 to 50-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x5 MT20 unless otherwise indicated.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 2, 197 lb uplift at joint 24 and 339 lb uplift at joint 15.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T7 | Common | 3 | 1 | Job Reference (optional) |






Scale = 1:39.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [6:0-7-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.04 | 8-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.06 | 8-11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.03 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 68 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0 |

**REACTIONS** (lb/size) 2=530/0-3-8, (min. 0-1-8), 6=530/0-3-8, (min. 0-1-8)
Max Horiz 2=139 (LC 10)
Max Uplift 2=-93 (LC 11), 6=-93 (LC 11)
Max Grav 2=548 (LC 16), 6=548 (LC 17)

**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.

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

| | |
|---|---|
| TOP CHORD | 2-3=-290/146, 3-17=-486/81, 17-18=-434/88, 4-18=-417/114, 4-19=-417/114, 19-20=-434/88, 5-20=-486/81 |
| BOT CHORD | 2-21=-87/327, 8-21=0/327, 8-22=0/327, 6-22=0/327 |
| WEBS | 4-8=-9/308 |

**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-10-8, Exterior (2) 5-10-8 to 8-10-8, Interior (1) 8-10-8 to 12-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 2 and 93 lb uplift at joint 6.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T7GE | Common Supported Gable | 1 | 1 | Job Reference (optional) |

Peak Truss Builders LLC, New Hill, user — Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Thu Mar 31 14:52:16 — Page: 1

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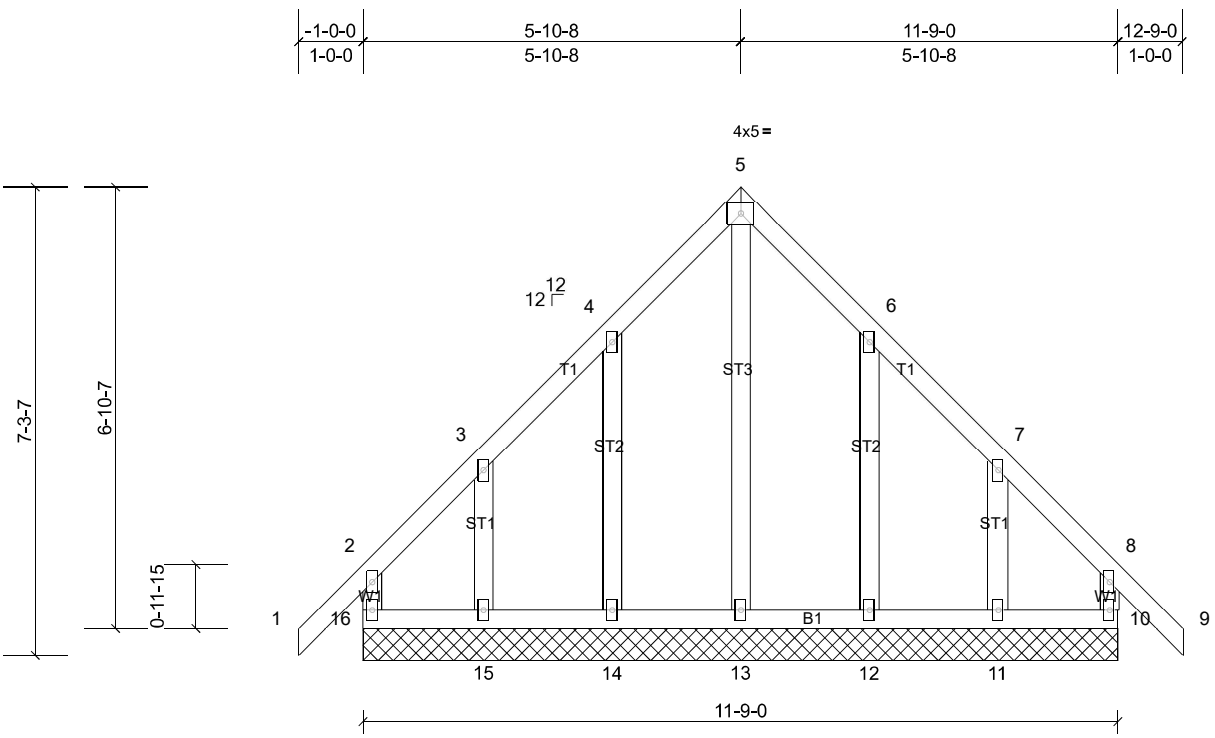



Scale = 1:35.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 78 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 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 11-9-0.

(lb) - Max Horiz 16=162 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 10, 12, 14, 16 except 11=-105 (LC 11), 15=-105 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 10, 11, 12, 14, 15, 16 except 13=253 (LC 11)

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

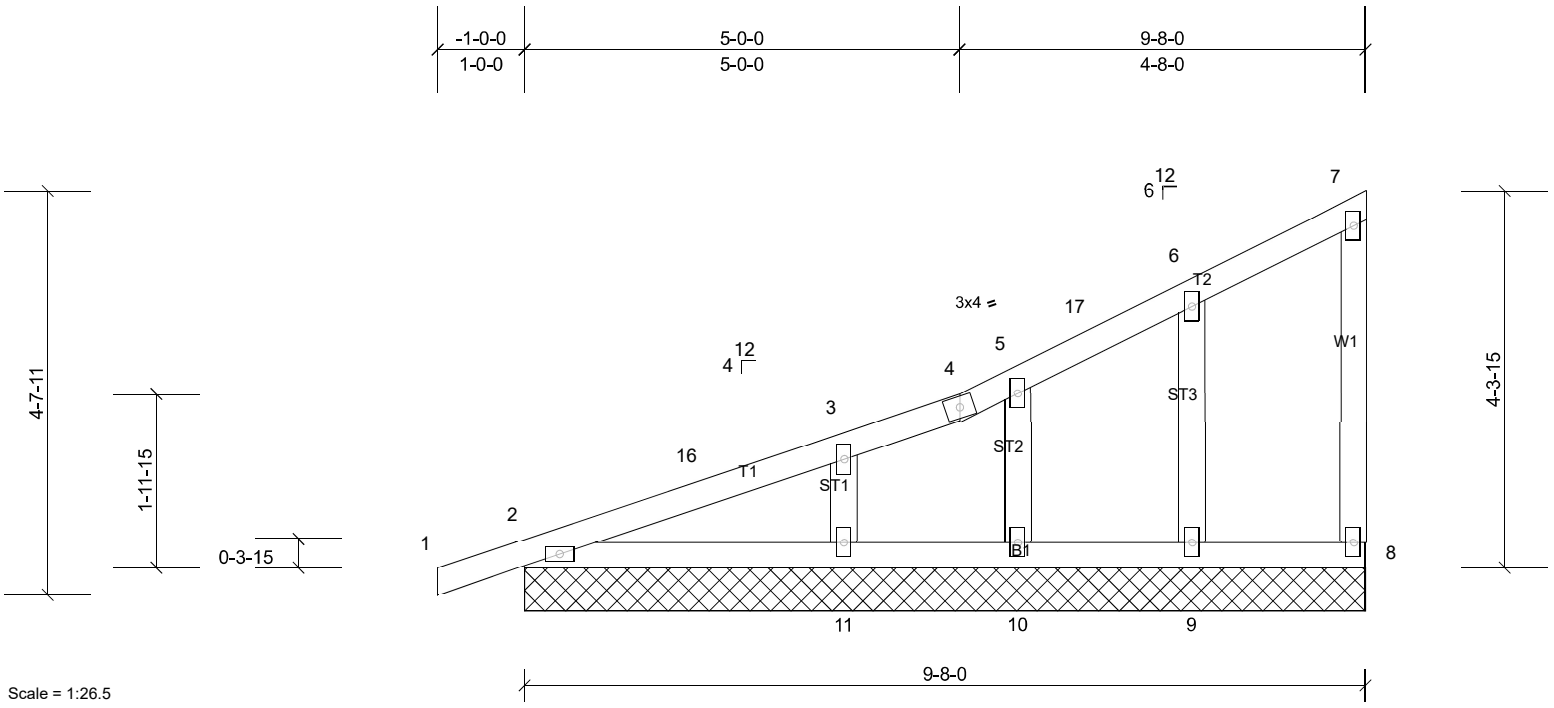
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 1-10-8, Exterior (2) 1-10-8 to 5-10-8, Corner (3) 5-10-8 to 8-10-8, Exterior (2) 8-10-8 to 12-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 12 except (jt=lb) 15=105, 11=105.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T8GE | Roof Special Supported Gable | 1 | 1 | Job Reference (optional) |






Scale = 1:26.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 46 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING**

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

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

**REACTIONS** All bearings 9-8-0.
(lb) - Max Horiz 2=128 (LC 10), 12=128 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 9, 10, 11, 12
Max Grav All reactions 250 (lb) or less at joint(s) 2, 8, 9, 10, 12 except 11=282 (LC 1)

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

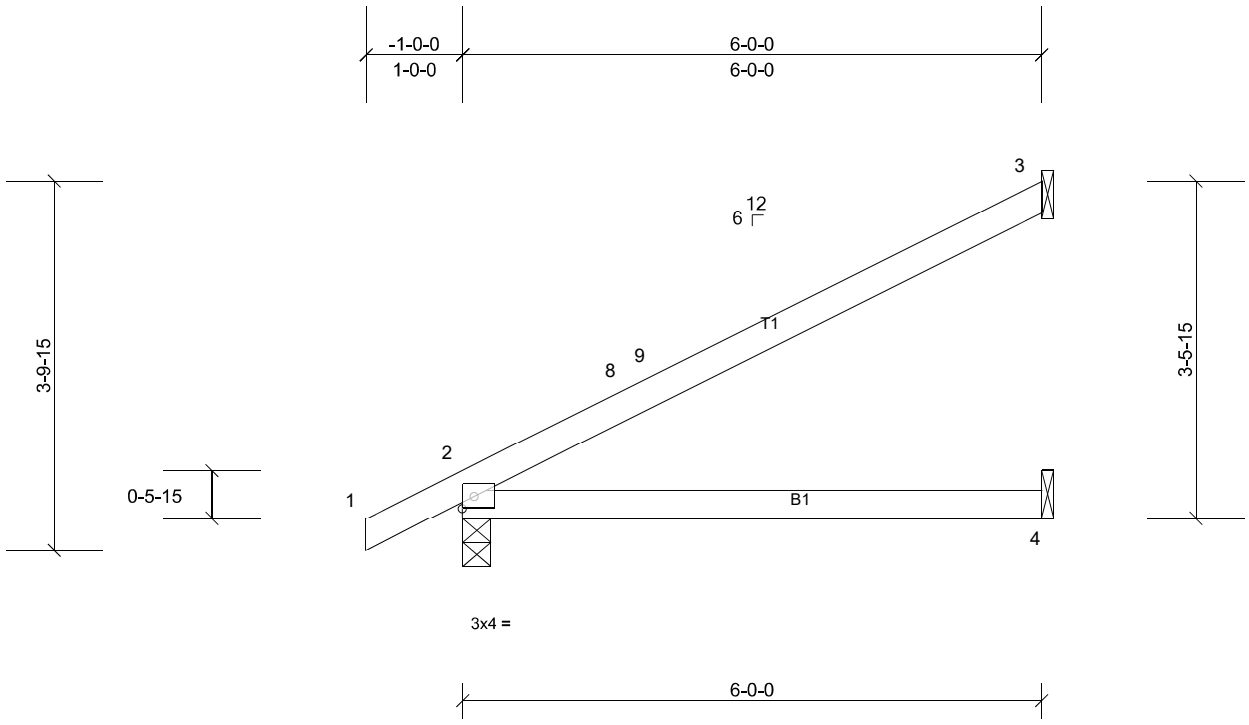
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 9-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 9, 10, 11, 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T9 | Jack-Open | 6 | 1 | Job Reference (optional) |






Scale = 1:23.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | 0.05 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.11 | 4-7 | >671 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 21 lb | FT = 20% |

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

**REACTIONS** (lb/size) 2=303/0-3-8, (min. 0-1-8), 3=158/ Mechanical, (min. 0-1-8), 4=75/ Mechanical, (min. 0-1-8)
Max Horiz 2=124 (LC 11)
Max Uplift 2=-39 (LC 11), 3=-72 (LC 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.

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

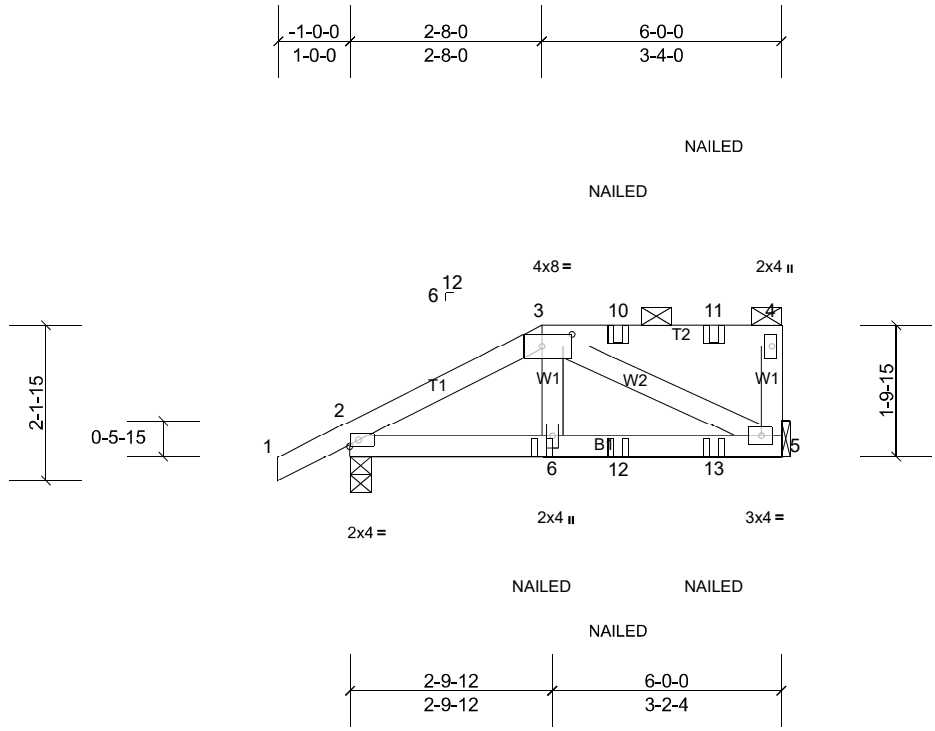
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 3 and 39 lb uplift at joint 2.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T9GRD | Jack-Closed Girder | 1 | 1 | Job Reference (optional) |






Scale = 1:32.1

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | 0.00 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | -0.01 | 5-6 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.07 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 28 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size) 2=297/0-3-8, (min. 0-1-8), 5=222/ Mechanical, (min. 0-1-8)
Max Horiz 2=53 (LC 6)
Max Uplift 2=-71 (LC 7), 5=-49 (LC 7)
Max Grav 2=297 (LC 1), 5=223 (LC 12)

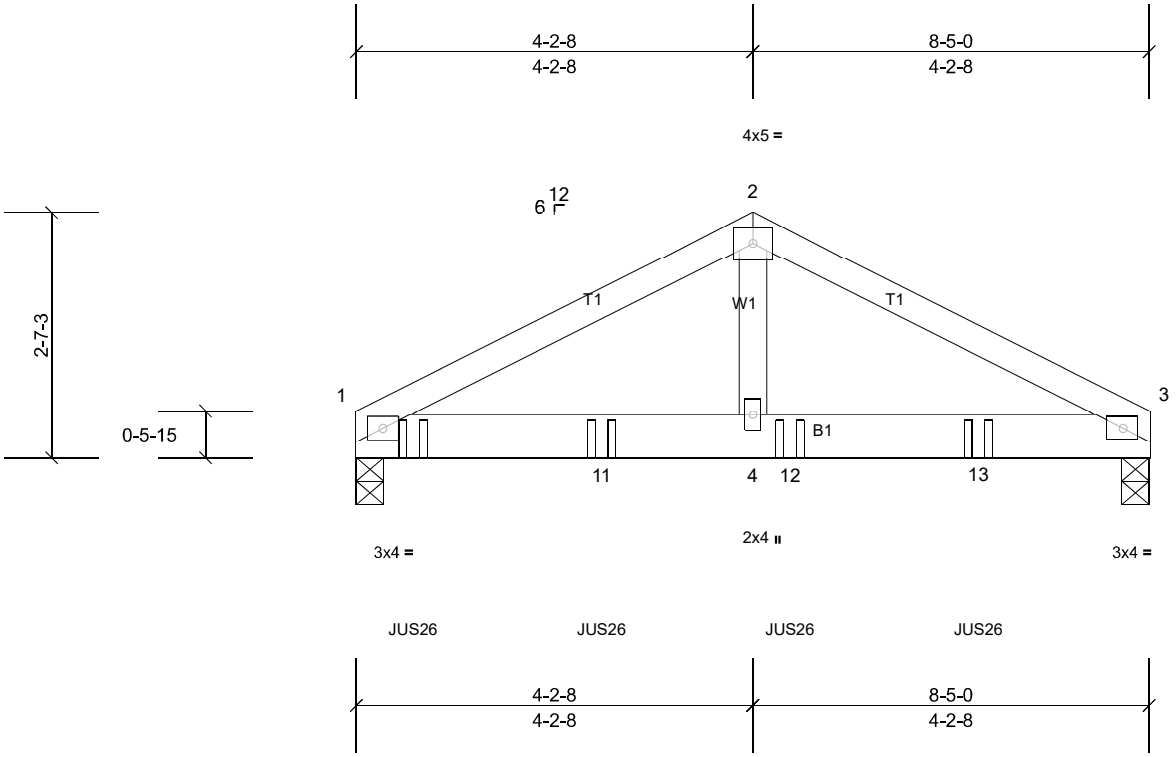
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-275/44

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 2 and 49 lb uplift at joint 5.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 12=5 (F), 13=5 (F)

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T10AGRD | Common Girder | 1 | **2** | Job Reference (optional) |






Scale = 1:24.5

| **Loading** | (psf) | **Spacing** | 2-0-0 | **CSI** | | **DEFL** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.12 | Vert(LL) | -0.01 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.03 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.28 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 74 lb | FT = 20% |

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

**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=1533/0-3-8, (min. 0-1-8), 3=1227/0-3-8, (min. 0-1-8)
Max Horiz 1=31 (LC 6)
Max Uplift 1=-171 (LC 7), 3=-144 (LC 7)

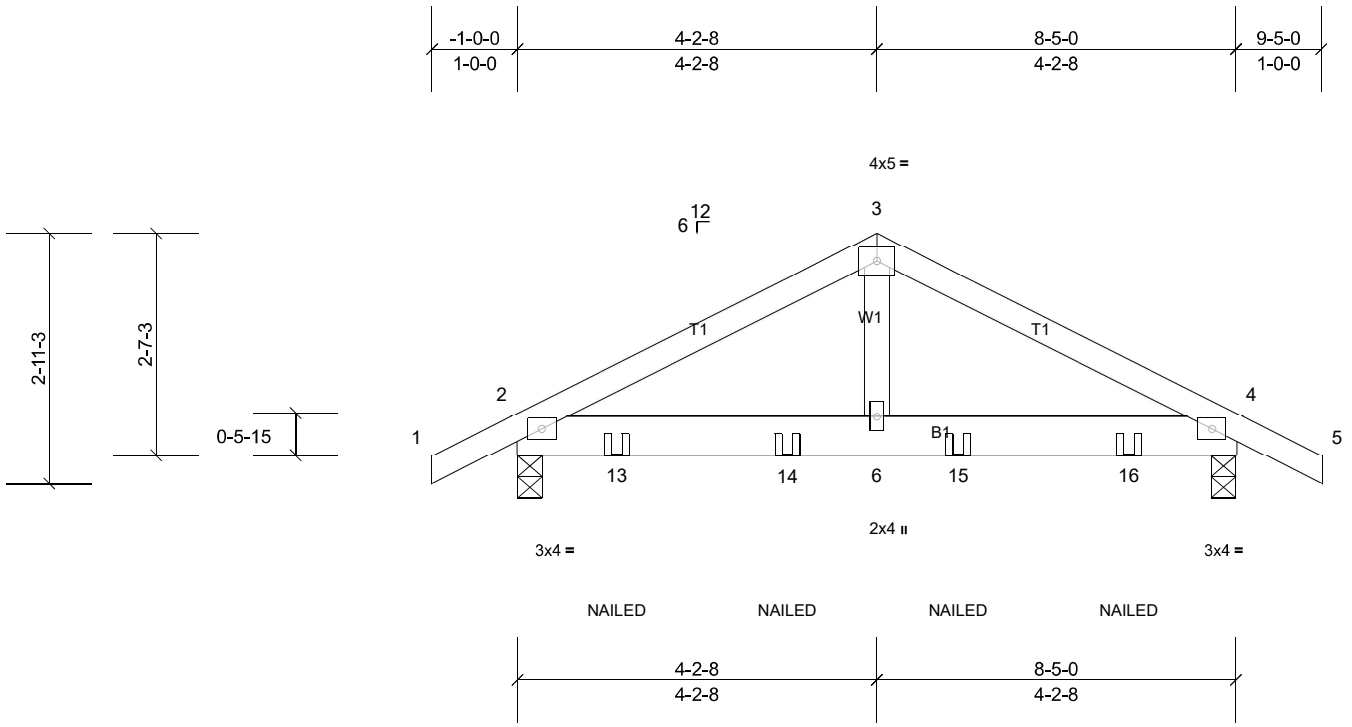
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1791/223, 2-3=-1793/223
BOT CHORD 1-11=-149/1569, 4-11=-149/1569, 4-12=-149/1569, 12-13=-149/1569, 3-13=-149/1569
WEBS 2-4=-126/1348

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 1 and 144 lb uplift at joint 3.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left end to 6-7-4 to connect truss(es) T1J (1 ply 2x4 SP), T1I (1 ply 2x4 SP) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-525 (B), 11=-521 (B), 12=-521 (B), 13=-521 (B)

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T10GRD | Common Girder | 1 | 1 | Job Reference (optional) |






Scale = 1:27

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | 0.01 | 6-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.01 | 6-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.09 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 40 lb | FT = 20% |

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

**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=455/0-3-8, (min. 0-1-8), 4=454/0-3-8, (min. 0-1-8)
Max Horiz 2=-39 (LC 5)
Max Uplift 2=-136 (LC 7), 4=-138 (LC 7)

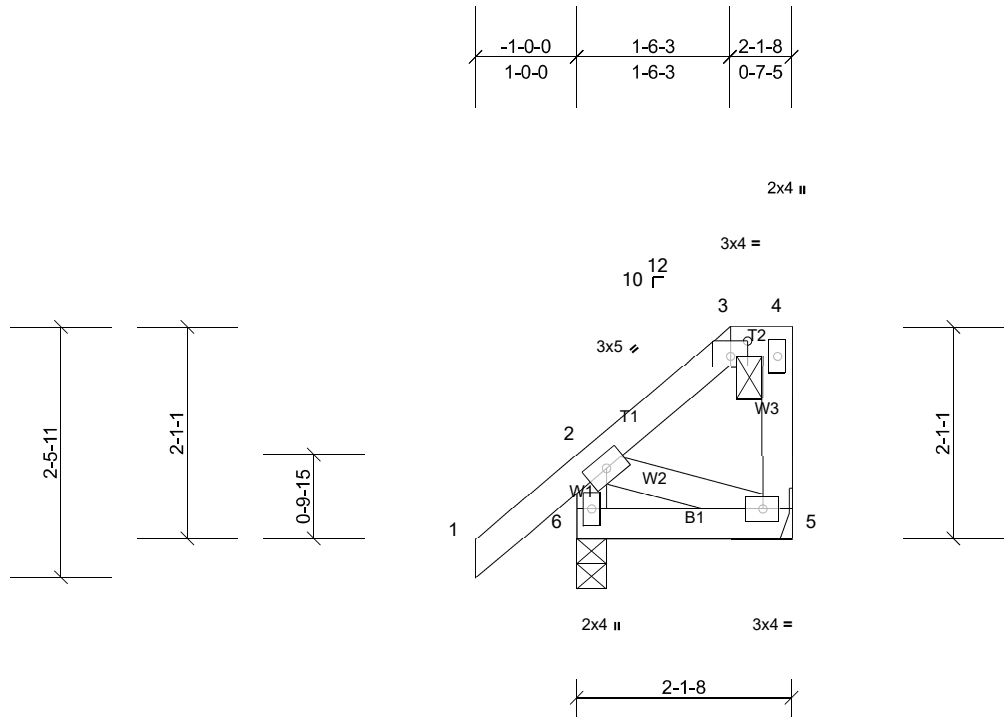
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-515/147, 3-4=-515/147
BOT CHORD 2-13=-56/410, 13-14=-56/410, 6-14=-56/410, 6-15=-56/410, 15-16=-56/410, 4-16=-56/410

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2 and 138 lb uplift at joint 4.
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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 7-10=-20
Concentrated Loads (lb)
Vert: 13=-25 (F), 14=-33 (F), 15=-33 (F), 16=-25 (F)

| Job | Truss | Truss Type | Qty | Ply | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T11 | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:22.8

Plate Offsets (X, Y): [3:0-2-0,0-1-13]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | 0.00 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 5-6 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 14 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. |
| 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** (lb/size) 5=52/ Mechanical, (min. 0-1-8), 6=164/0-3-8, (min. 0-1-8)
Max Horiz 6=68 (LC 8)
Max Uplift 5=-29 (LC 8), 6=-48 (LC 11)
Max Grav 5=61 (LC 16), 6=164 (LC 1)

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

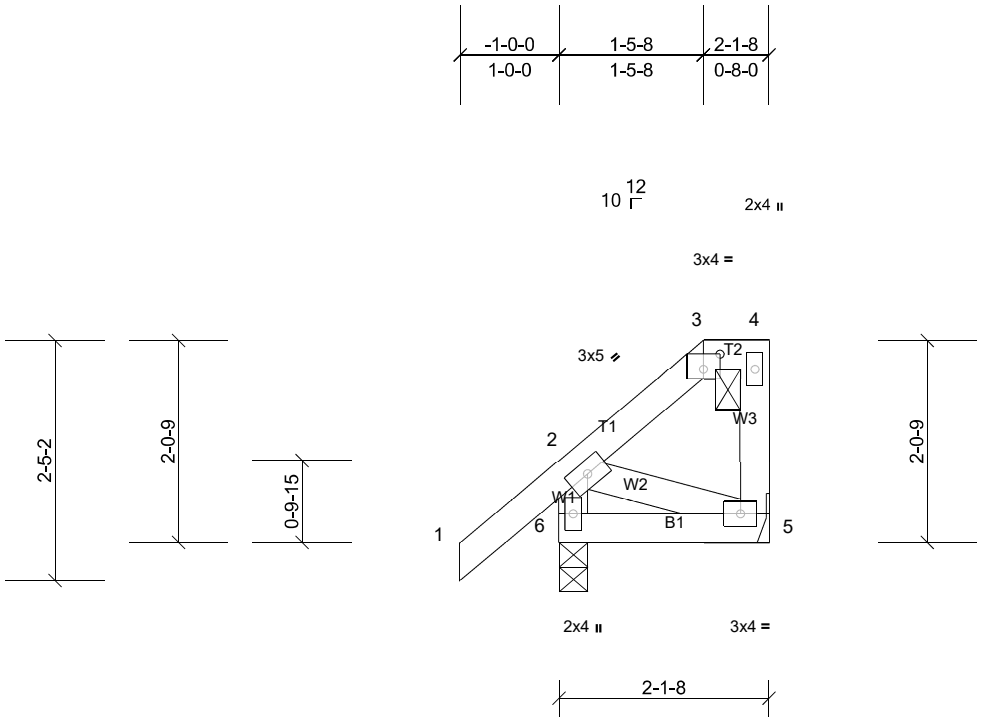
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 6 and 29 lb uplift at joint 5.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T11A | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:23.3

Plate Offsets (X, Y): [3:0-2-0,0-1-13]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | 0.00 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 5-6 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 14 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
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** (lb/size) 5=52/ Mechanical, (min. 0-1-8), 6=164/0-3-8, (min. 0-1-8)
Max Horiz 6=66 (LC 8)
Max Uplift 5=-28 (LC 8), 6=-48 (LC 11)
Max Grav 5=60 (LC 16), 6=164 (LC 1)

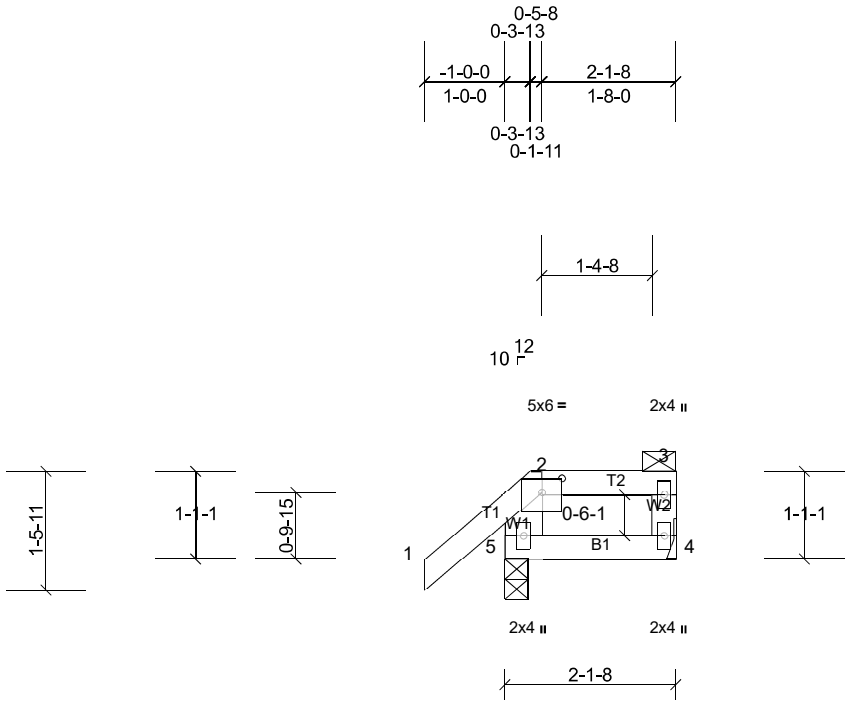
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 6 and 28 lb uplift at joint 5.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T11B | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:28.7

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.12 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | Weight: 11 lb | FT = 20% |

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

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
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** (lb/size) 4=44/ Mechanical, (min. 0-1-8), 5=170/0-3-8, (min. 0-1-8)
Max Horiz 5=76 (LC 11)
Max Uplift 4=-11 (LC 8), 5=-97 (LC 11)

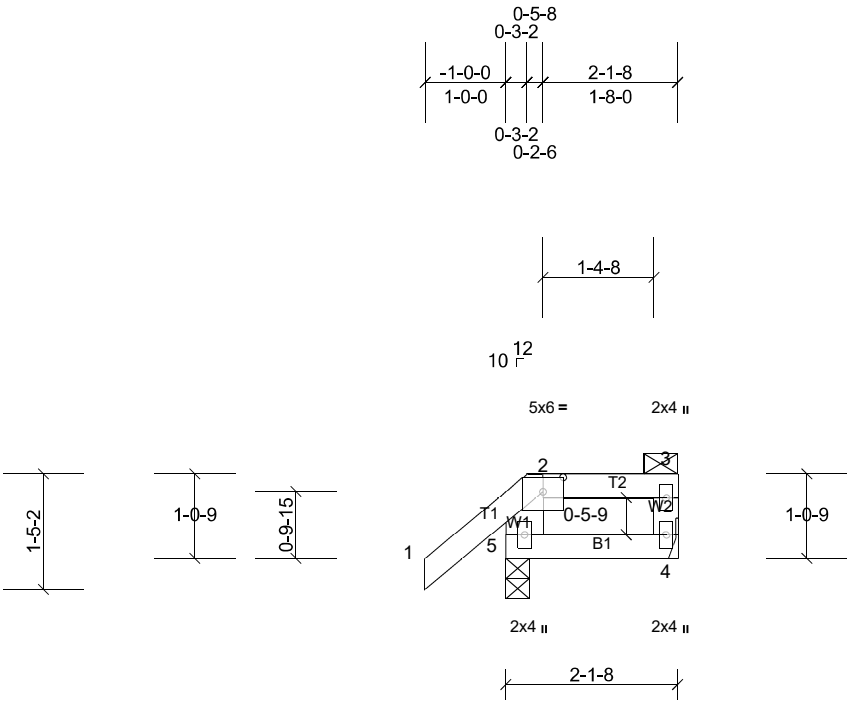
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 1-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 4 and 97 lb uplift at joint 5.
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) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T11C | Half Hip | 1 | 1 | Job Reference (optional) |






Scale = 1:28.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.12 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | n/a | - | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 11 lb | FT = 20% |

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

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
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=44/ Mechanical, (min. 0-1-8), 5=170/0-3-8, (min. 0-1-8)
Max Horiz 5=90 (LC 11)
Max Uplift 4=-7 (LC 8), 5=-94 (LC 11)

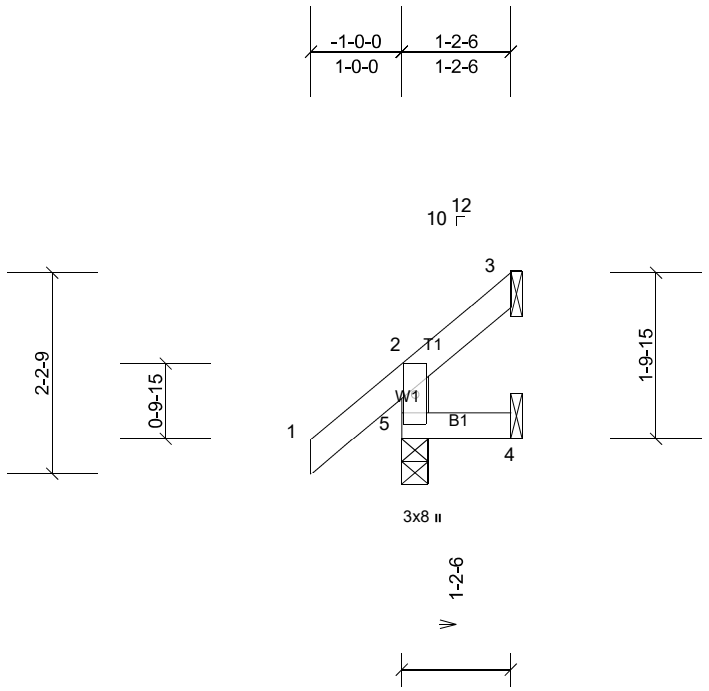
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 1-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 5 and 7 lb uplift at joint 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.
7) 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | T13 | Jack-Open | 2 | 1 | Job Reference (optional) |






Scale = 1:25.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| 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-MR | | | | | | | Weight: 7 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 1-2-6 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) 3=3/ Mechanical, (min. 0-1-8), 4=1/ Mechanical, (min. 0-1-8), 5=148/0-3-8, (min. 0-1-8)
Max Horiz 5=87 (LC 11)
Max Uplift 3=-13 (LC 11), 4=-9 (LC 11), 5=-28 (LC 11)
Max Grav 3=11 (LC 9), 4=13 (LC 9), 5=148 (LC 1)

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

**NOTES**
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5, 13 lb uplift at joint 3 and 9 lb uplift at joint 4.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V1 | Valley | 1 | 1 | Job Reference (optional) |

Peak Truss Builders LLC, New Hill, user — Run: 8.43 S Feb 3 2021 Print: 8.430 S Feb 3 2021 MiTek Industries, Inc. Thu Mar 31 14:52:19 — Page: 1

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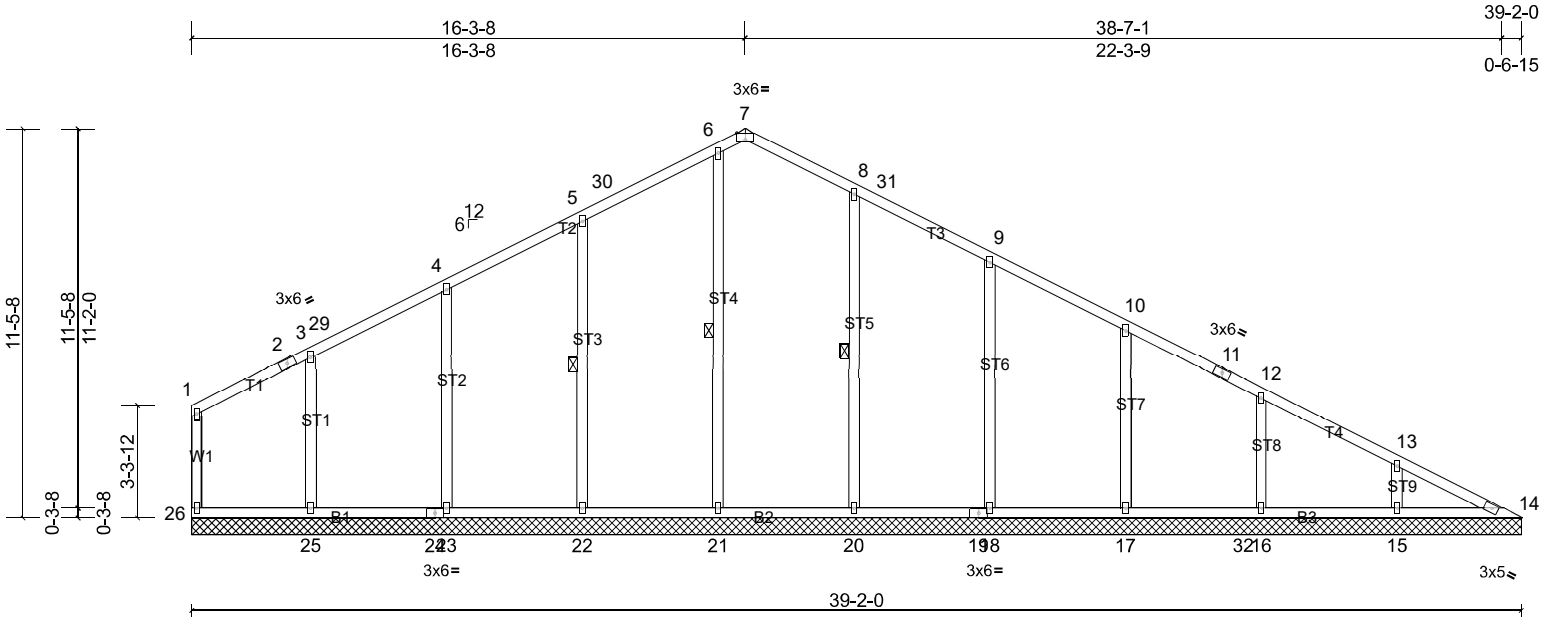



Scale = 1:67.9

Plate Offsets (X, Y): [7:0-3-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.27 | Horiz(TL) | 0.01 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 211 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**REACTIONS** All bearings 39-2-0.

(lb) - Max Horiz 26=-229 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 15, 16, 17, 18, 23, 25, 26 except 22=-115 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 14, 26 except 15=344 (LC 1), 16=351 (LC 17), 17=437 (LC 17), 18=424 (LC 17), 20=440 (LC 17), 21=431 (LC 17), 22=441 (LC 16), 23=432 (LC 16), 25=378 (LC 16)

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

TOP CHORD 5-30=-158/285, 6-30=-137/302, 7-8=-154/296

WEBS 5-22=-251/162

**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 8-20, 6-21, 5-22

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

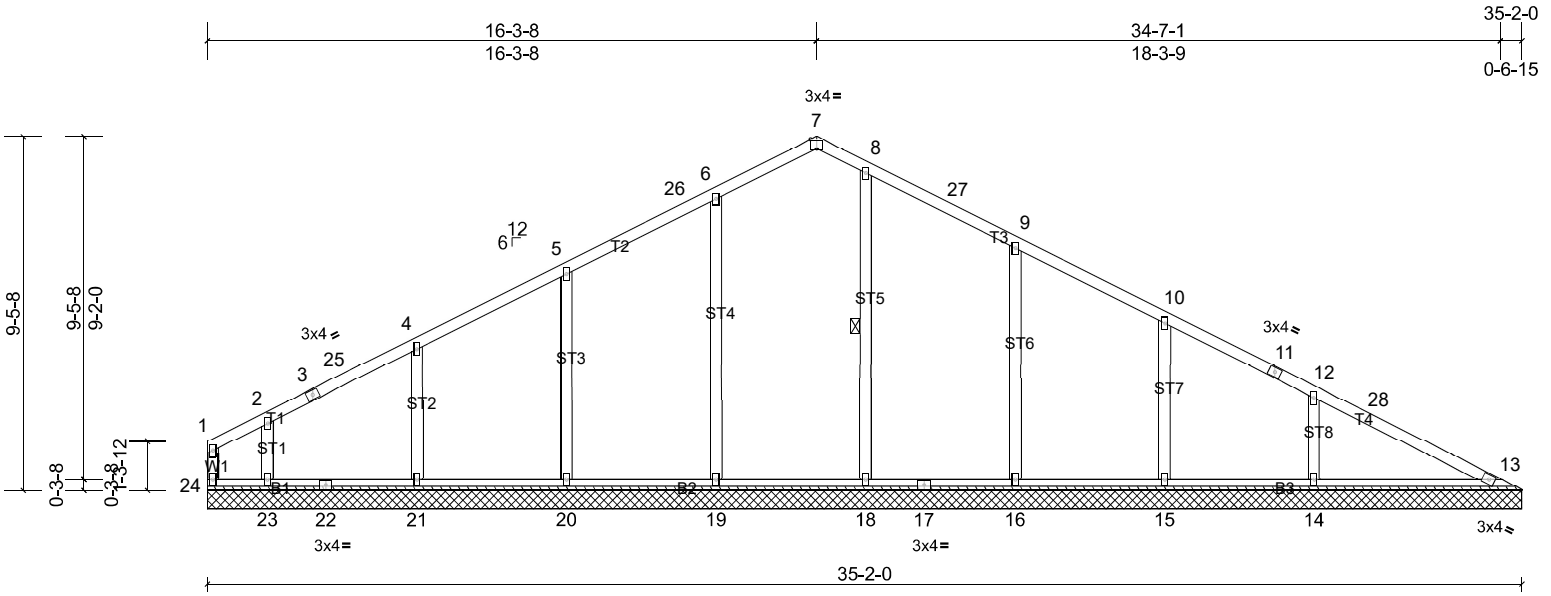
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=39ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-1-12 to 4-0-9, Interior (1) 4-0-9 to 16-3-8, Exterior (2) 16-3-8 to 20-2-5, Interior (1) 20-2-5 to 39-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 23, 25, 18, 17, 16, 15 except (jt=lb) 22=114.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V2 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:61.6

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.23 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.27 | Horiz(TL) | 0.01 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 170 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 8-18 |

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

**REACTIONS** All bearings 35-2-0.
(lb) - Max Horiz 24=-161 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 14, 15, 19, 20, 21, 24 except 16=-103 (LC 11), 23=-169 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 13, 24 except 14=424 (LC 21), 15=335 (LC 17), 16=445 (LC 17), 18=409 (LC 17), 19=413 (LC 16), 20=435 (LC 16), 21=376 (LC 16), 23=257 (LC 16)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 9-16=-253/151, 12-14=-308/153

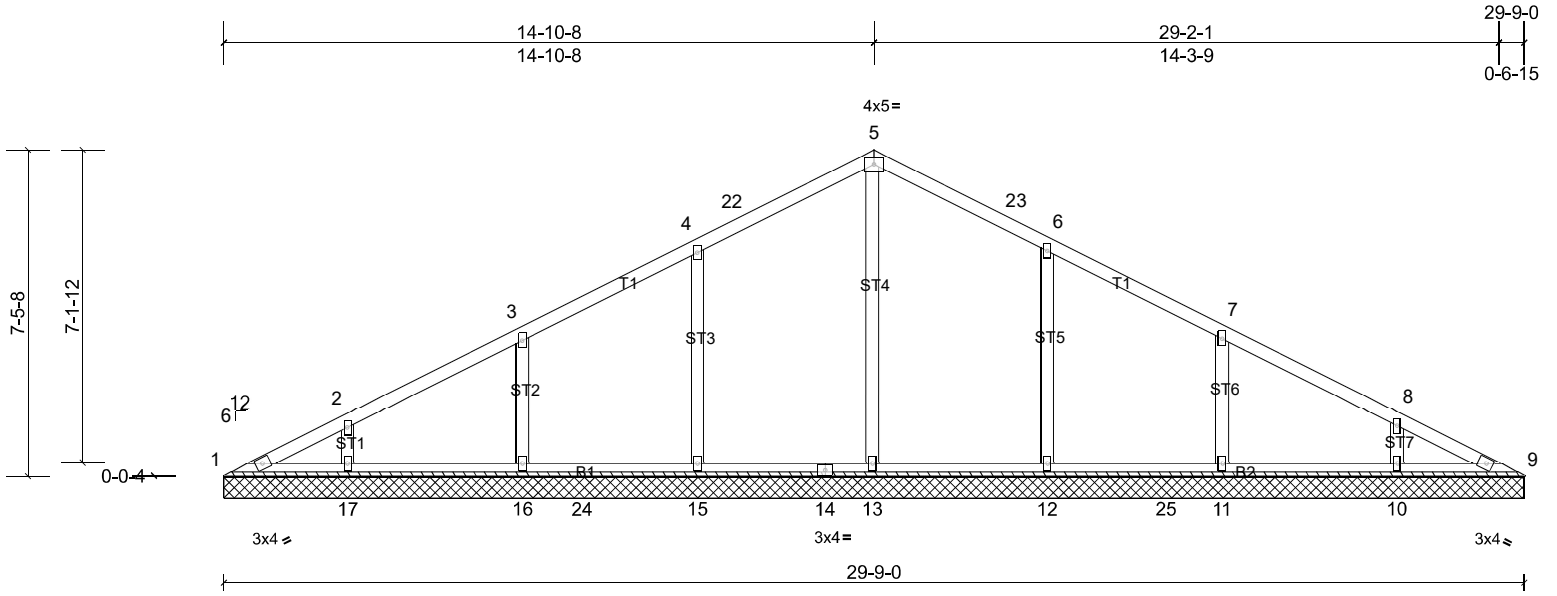
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-1-12 to 3-7-15, Interior (1) 3-7-15 to 16-3-8, Exterior (2) 16-3-8 to 19-9-11, Interior (1) 19-9-11 to 34-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 19, 20, 21, 15, 14 except (jt=lb) 23=168, 16=103.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V3 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:52.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.20 | Horiz(TL) | 0.00 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 128 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

**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 29-9-0.
(lb) - Max Horiz 1=-108 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 12, 15, 16, 17
Max Grav All reactions 250 (lb) or less at joint(s) 1, 9 except 10=308 (LC 1), 11=329 (LC 17), 12=438 (LC 17), 13=389 (LC 16), 15=440 (LC 16), 16=327 (LC 16), 17=305 (LC 1)

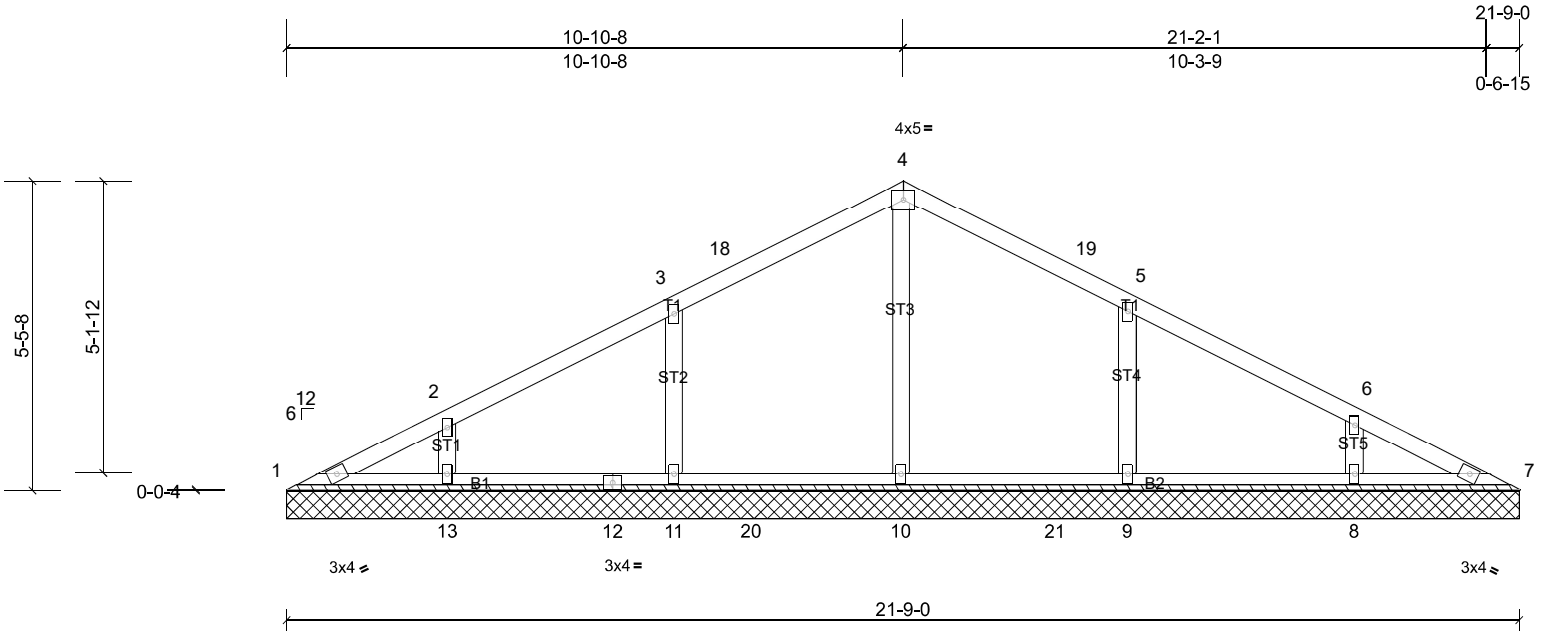
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-15=-261/127, 6-12=-257/125

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 2-10-8, Interior (1) 2-10-8 to 14-11-0, Exterior (2) 14-11-0 to 17-11-0, Interior (1) 17-11-0 to 29-9-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 16, 17, 12, 11, 10.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V4 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:40.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.11 | Horiz(TL) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 85 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

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

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

**REACTIONS** All bearings 21-9-0.
(lb) - Max Horiz 1=-79 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 11, 13
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=303 (LC 1), 9=346 (LC 17), 10=390 (LC 16), 11=348 (LC 16), 13=298 (LC 1)

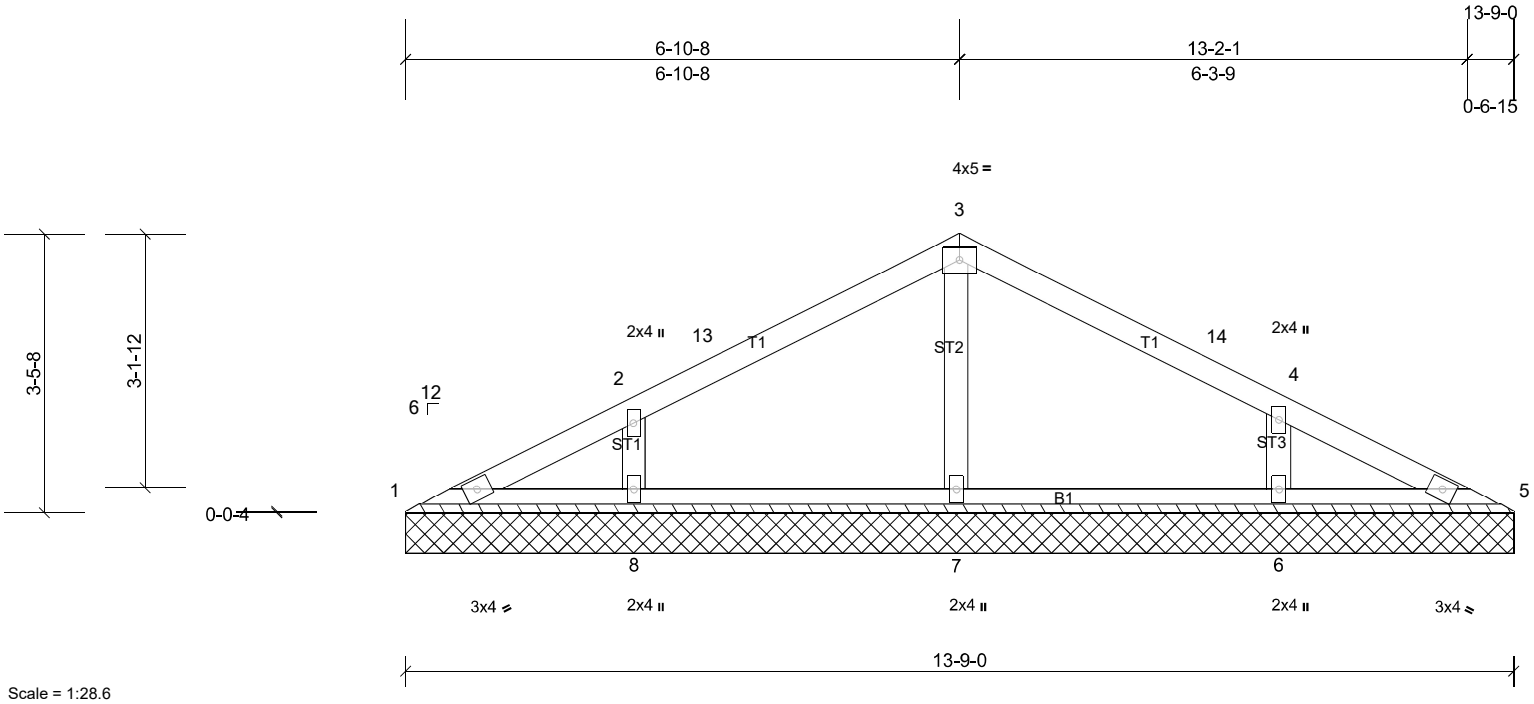
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-268/133, 5-9=-264/131

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=22ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 2-10-8, Interior (1) 2-10-8 to 10-11-0, Exterior (2) 10-11-0 to 13-11-0, Interior (1) 13-11-0 to 21-9-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 13, 9, 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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V5 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:28.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 48 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

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

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

**REACTIONS** All bearings 13-9-0.
(lb) - Max Horiz 1=-49 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 8
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=326 (LC 21), 7=304 (LC 1), 8=326 (LC 20)

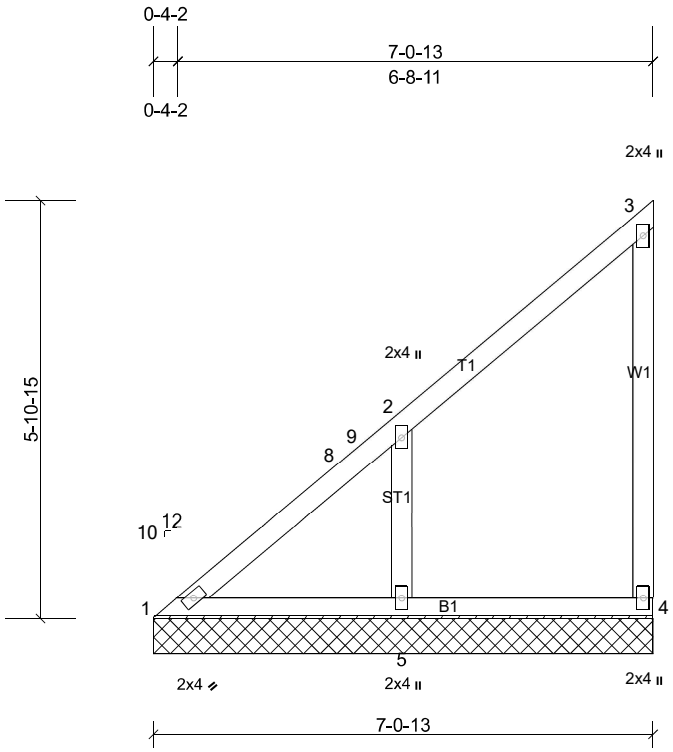
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-8 to 2-10-8, Interior (1) 2-10-8 to 6-11-0, Exterior (2) 6-11-0 to 9-11-0, Interior (1) 9-11-0 to 13-9-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V6 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:32.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.45 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 35 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING**

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

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

**REACTIONS** (lb/size) 1=107/7-0-13, (min. 0-1-8), 4=102/7-0-13, (min. 0-1-8), 5=345/7-0-13, (min. 0-1-8)
Max Horiz 1=174 (LC 8)
Max Uplift 4=-40 (LC 8), 5=-130 (LC 11)
Max Grav 1=146 (LC 17), 4=117 (LC 16), 5=355 (LC 16)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-272/242, 8-9=-255/260, 2-9=-253/266
WEBS 2-5=-266/171

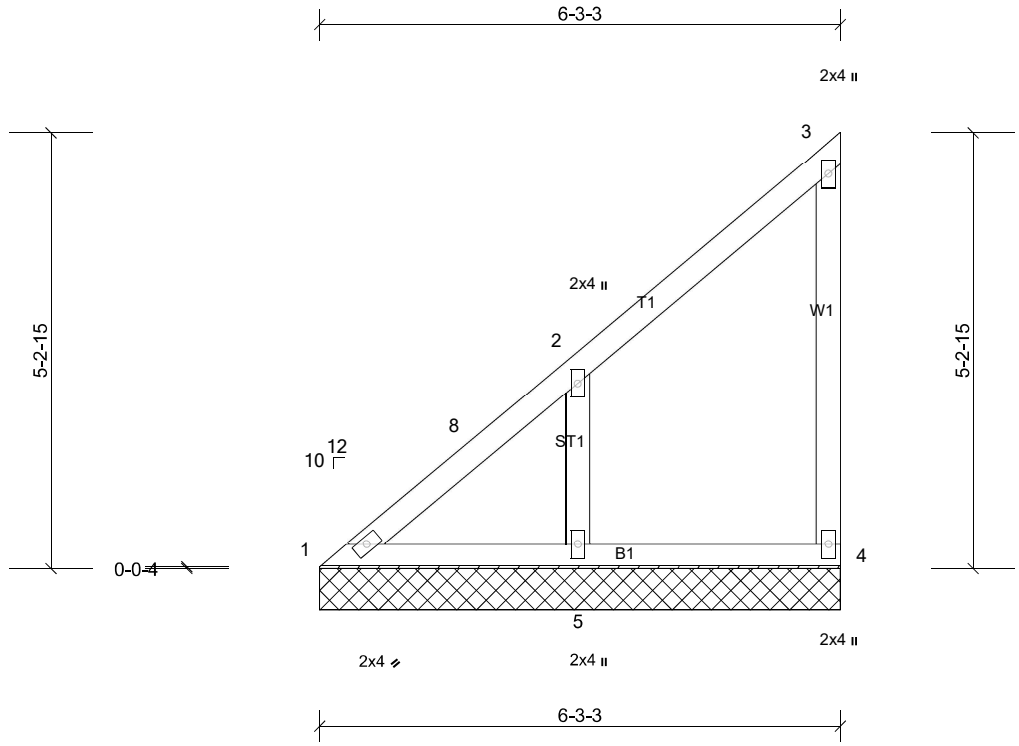
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 6-11-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 4 and 130 lb uplift at joint 5.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V7 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:27.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.34 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 31 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**REACTIONS** (lb/size) 1=95/6-3-3, (min. 0-1-8), 4=90/6-3-3, (min. 0-1-8), 5=305/6-3-3, (min. 0-1-8)
Max Horiz 1=153 (LC 8)
Max Uplift 4=-35 (LC 8), 5=-114 (LC 11)
Max Grav 1=129 (LC 17), 4=104 (LC 16), 5=314 (LC 16)

**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.

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

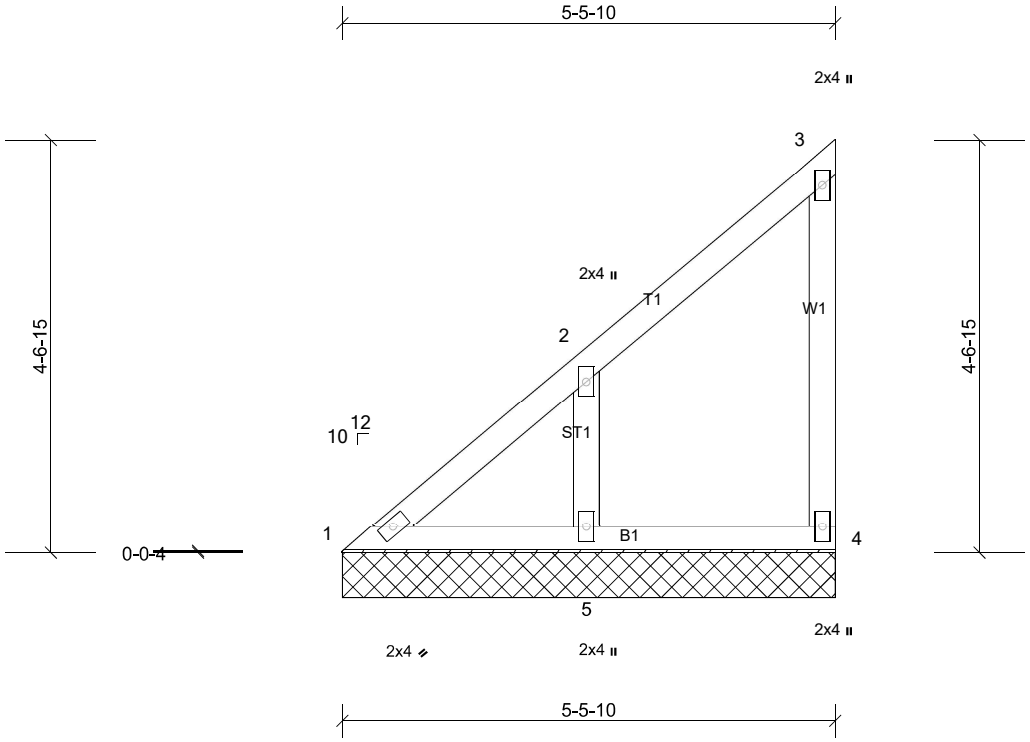
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-1-10, Interior (1) 3-1-10 to 6-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4 and 114 lb uplift at joint 5.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V8 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:25.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.25 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 26 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**REACTIONS** (lb/size) 1=83/5-5-10, (min. 0-1-8), 4=78/5-5-10, (min. 0-1-8), 5=265/5-5-10, (min. 0-1-8)
Max Horiz 1=132 (LC 8)
Max Uplift 4=-31 (LC 8), 5=-97 (LC 11)
Max Grav 1=112 (LC 17), 4=90 (LC 16), 5=272 (LC 16)

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-5-10 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.

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

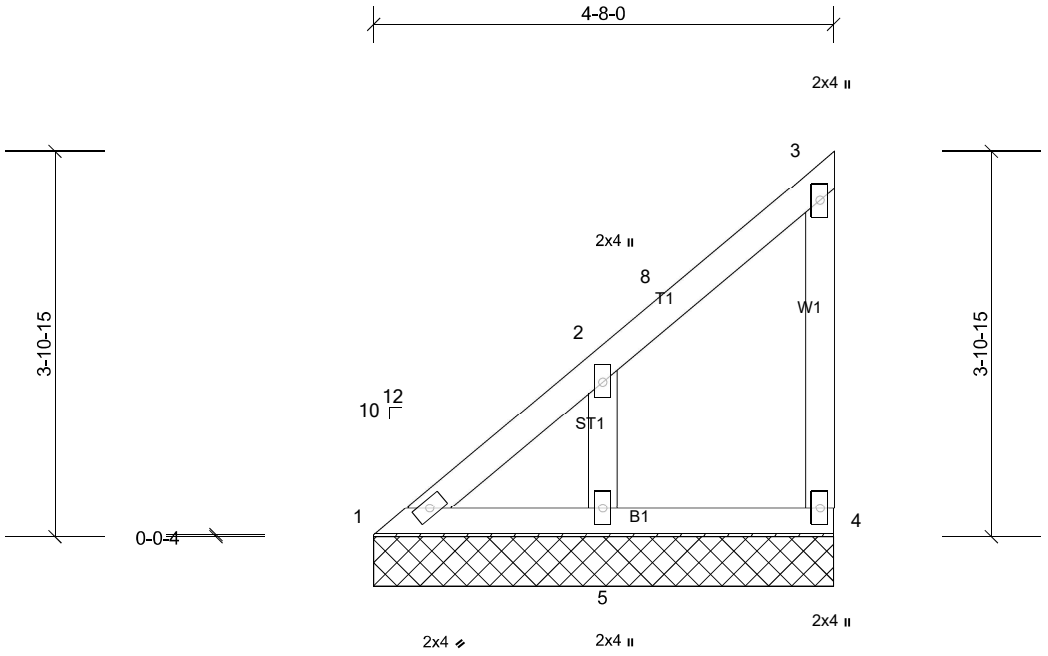
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 2-8-13, Interior (1) 2-8-13 to 5-4-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 4 and 97 lb uplift at joint 5.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V9 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:23.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 22 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-8-5 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=72/4-8-0, (min. 0-1-8), 4=66/4-8-0, (min. 0-1-8), 5=225/4-8-0, (min. 0-1-8)
Max Horiz 1=111 (LC 8)
Max Uplift 4=-26 (LC 8), 5=-80 (LC 11)
Max Grav 1=95 (LC 17), 4=76 (LC 16), 5=230 (LC 16)

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

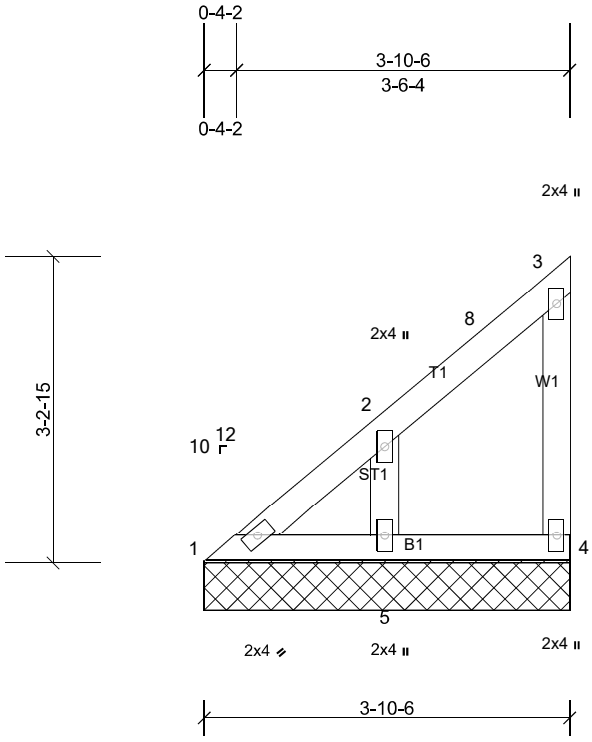
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-6-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 80 lb uplift at joint 5.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V10 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:24.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 18 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-10-6 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=59/3-10-6, (min. 0-1-8), 4=54/3-10-6, (min. 0-1-8), 5=184/3-10-6, (min. 0-1-8)
Max Horiz 1=90 (LC 8)
Max Uplift 4=-21 (LC 8), 5=-63 (LC 11)
Max Grav 1=78 (LC 17), 4=63 (LC 16), 5=188 (LC 16)

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

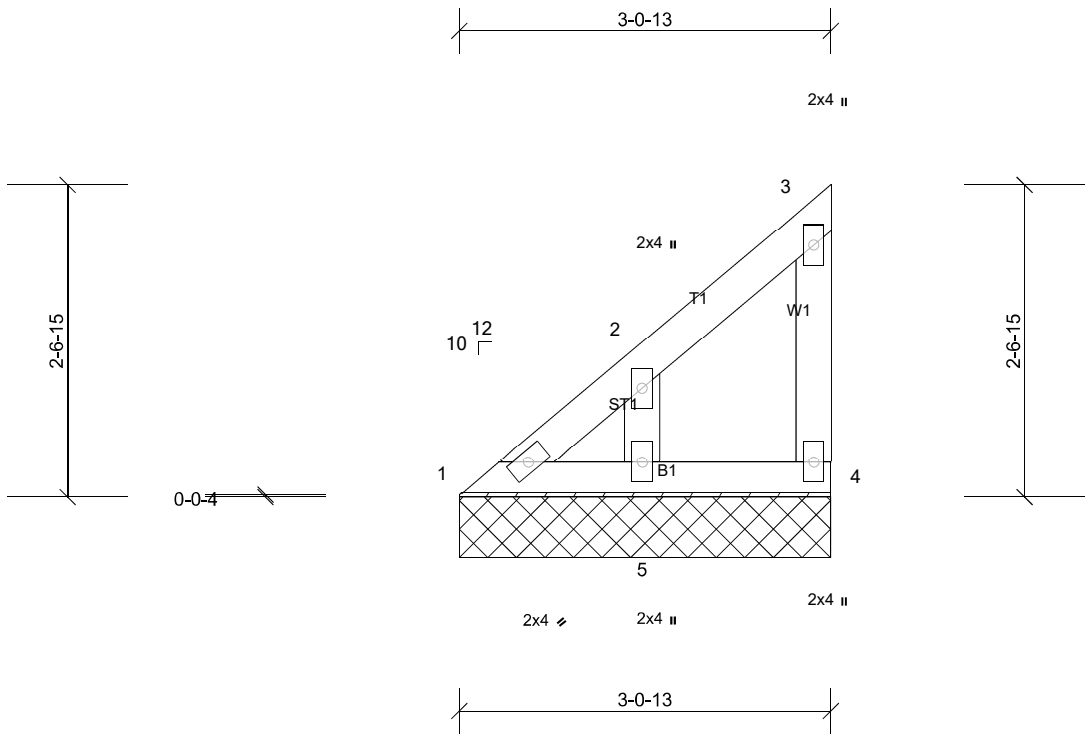
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 3-8-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 4 and 63 lb uplift at joint 5.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V11 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:19

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 14 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-0-13 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=47/3-0-13, (min. 0-1-8), 4=43/3-0-13, (min. 0-1-8), 5=144/3-0-13, (min. 0-1-8)
Max Horiz 1=69 (LC 8)
Max Uplift 4=-16 (LC 8), 5=-47 (LC 11)
Max Grav 1=61 (LC 17), 4=49 (LC 16), 5=146 (LC 16)

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

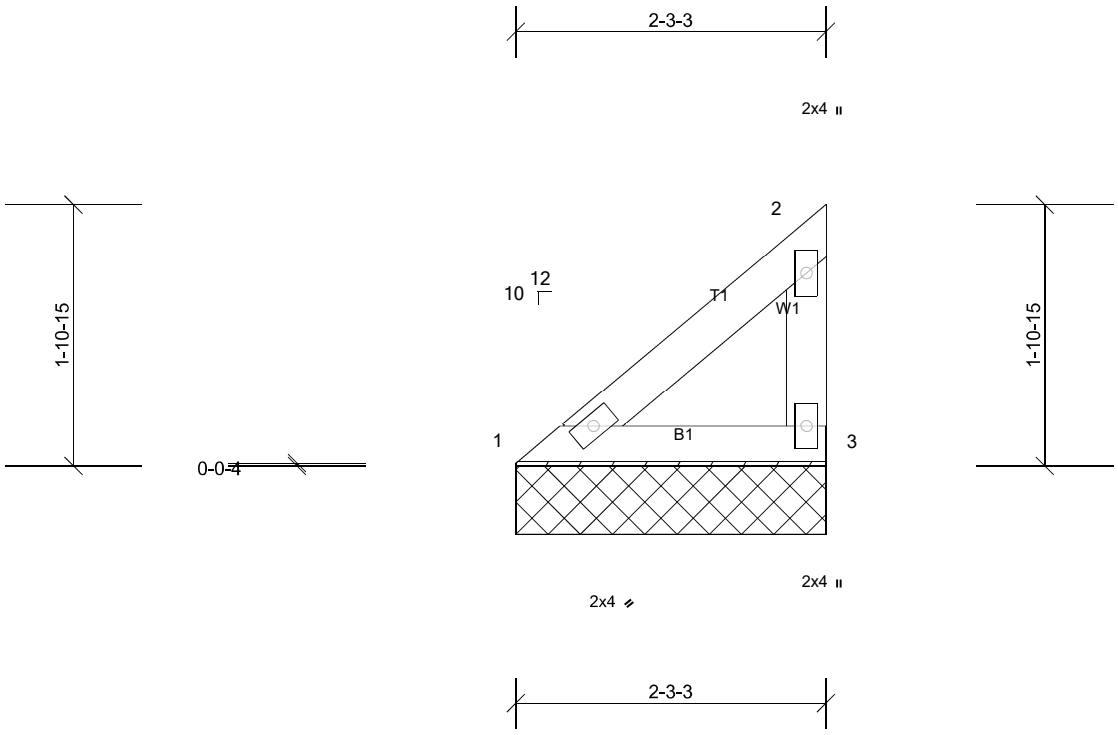
**NOTES**

1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 4 and 47 lb uplift at joint 5.
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 | Callahan Resd-Roof |
|---|---|---|---|---|---|
| Q-2200570-1 | V12 | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:16.8

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 9 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 2-3-3 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=85/2-3-3, (min. 0-1-8), 3=85/2-3-3, (min. 0-1-8)
Max Horiz 1=48 (LC 8)
Max Uplift 1=-2 (LC 11), 3=-19 (LC 11)
Max Grav 1=85 (LC 1), 3=90 (LC 16)

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

**NOTES**
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 3 and 2 lb uplift at joint 1.
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