

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J0520-1989
Weaver

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E14840226 thru E14840247

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



September 9, 2020

Gilbert, Eric

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

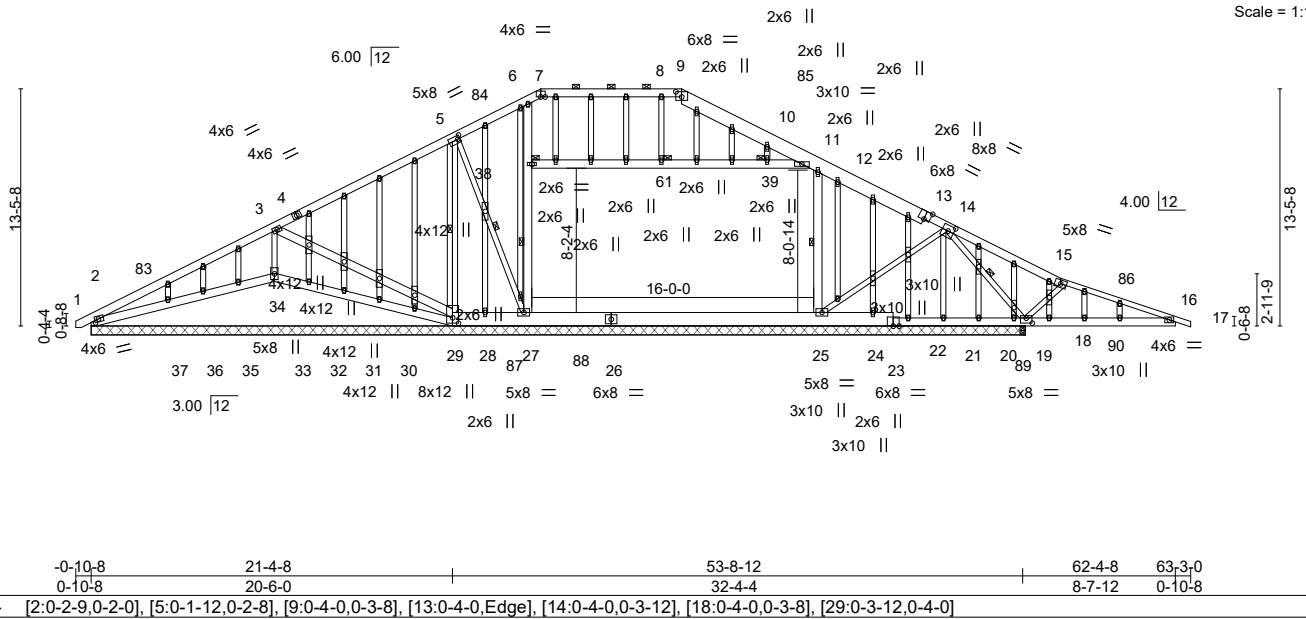
| | | | | | | |
|-------------------|---------------|---------------------|----------|----------|------------------------------------|-----------|
| Job J0520-1989 | Truss A1GE | Truss Type GABLE | Qty 1 | Ply 1 | Weaver Job Reference (optional) | E14840226 |
|-------------------|---------------|---------------------|----------|----------|------------------------------------|-----------|

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.330 s Jul 8 2020 MiTek Industries, Inc. Wed Sep 9 09:36:44 2020 Page 1
ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-Kg8ALR9bnUoFPBI5QYYZ9E5sRwrI?sNWQoPV04yfQ0H

| | | | | | |
|---------|---------|--------|---------|--------|--------|
| -0-10-8 | 39-4-7 | 49-4-0 | 55-10-8 | 62-4-8 | 63-3-0 |
| 0-10-8 | 38-5-15 | 9-11-9 | 6-6-8 | 6-6-0 | 0-10-8 |

Scale = 1:130.7



| | | | | | | | | | |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|----------------|----------|
| LOADING (psf) | SPACING- | 2-0-0 | CSL | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.45 | Vert(LL) | -0.10 25-27 | >999 | 360 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.37 | Vert(CT) | -0.14 25-27 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.44 | Horz(CT) | 0.01 18 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.01 2-37 | >999 | 240 | Weight: 693 lb | FT = 20% |

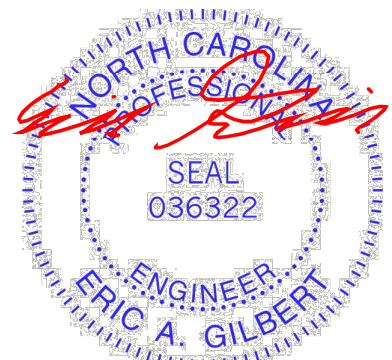
| | | |
|--|-----------------|---|
| LUMBER- | BRACING- | |
| TOP CHORD | TOP CHORD | Structural wood sheathing directly applied or 5-9-10 oc purlins, except |
| 2x6 SP No.1 *Except* | | 2-0-0 oc purlins (6-0-0 max.): 7-9. |
| 9-13: 2x10 SP No.1, 15-17: 2x4 SP No.1 | | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| BOT CHORD | BOT CHORD | 1 Row at midpt |
| 2x6 SP No.1 *Except* | | 27-38, 12-25, 5-29, 5-27, 14-18 |
| 26-29: 2x10 SP No.1, 23-26: 1.5 X 9.25 Master Chord LVL 2.0E | | 1 Brace at Jt(s): 38, 39, 61 |
| WEBS | WEBS | |
| 2x4 SP No.2 *Except* | | |
| 3-29,6-27,12-25,11-38: 2x6 SP No.1 | | |
| OTHERS | JOINTS | |
| 2x4 SP No.2 | | |

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

| | |
|-------------------|--|
| REACTIONS. | All bearings 53-0-0. |
| (lb) - Max Horz | 2=266(LC 12) |
| Max Uplift | All uplift 100 lb or less at joint(s) 37, 36 except 2=-154(LC 13), 34=-428(LC 12), 29=-178(LC 12), 25=-262(LC 13), 18=-929(LC 9), 28=-668(LC 18), 24=-659(LC 18), 19=-616(LC 3) |
| Max Grav | All reactions 250 lb or less at joint(s) 37, 36, 35, 33, 32, 31, 30, 21, 20 except 2=353(LC 1), 34=1230(LC 1), 29=326(LC 26), 27=1155(LC 18), 25=1292(LC 21), 18=2306(LC 25), 18=2304(LC 1), 22=310(LC 18), 19=329(LC 9) |

| | |
|----------------|--|
| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 2-3=-472/267, 3-5=-900/613, 5-6=-827/784, 6-7=-744/729, 9-10=-825/716, 10-11=-922/681, 11-12=-895/658, 12-14=-802/393, 14-15=-1002/1155, 15-16=-964/910, 7-8=-694/747, 8-9=-694/747 |
| BOT CHORD | 2-37=-100/363, 36-37=-68/327, 35-36=-82/346, 34-35=-78/339, 33-34=-80/341, 32-33=-80/343, 31-32=-80/343, 30-31=-80/343, 29-30=-80/342, 28-29=-55/677, 27-28=-52/678, 25-27=-31/661, 24-25=-45/372, 22-24=-57/372, 21-22=-45/372, 20-21=-45/372, 19-20=-45/372, 18-19=-45/372, 16-18=-799/998 |
| WEBS | 3-29=-70/434, 14-25=-300/545, 3-34=-1052/623, 12-25=-658/601, 5-29=-433/306, 14-18=-1866/1204 |

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 25-6-1, Corner(3) 25-6-1 to 29-10-14, Exterior(2) 29-10-14 to 33-6-0, Corner(3) 33-6-0 to 37-10-13, Exterior(2) 37-10-13 to 62-4-8 zone; cantilever right exposed ; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.



September 9, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



| Job | Truss | Truss Type | Qty | Ply | Weaver |
|------------|-------|------------|-----|-----|--------|
| J0520-1989 | A1GE | GABLE | 1 | 1 | |

E14840226

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.330 s Jul 8 2020 MiTek Industries, Inc. Wed Sep 9 09:36:44 2020 Page 2
ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-Kg8ALR9bnUoFPBI5QYYZ9E5sRwrl?sNWQoPV04yfQ0H**NOTES-**

- 4) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 36 except (jt=lb) 2=154, 34=428, 29=178, 25=262, 18=929, 28=668, 24=659, 19=616.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

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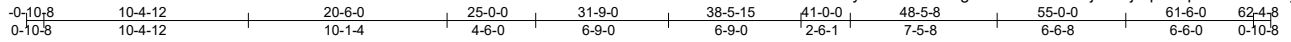


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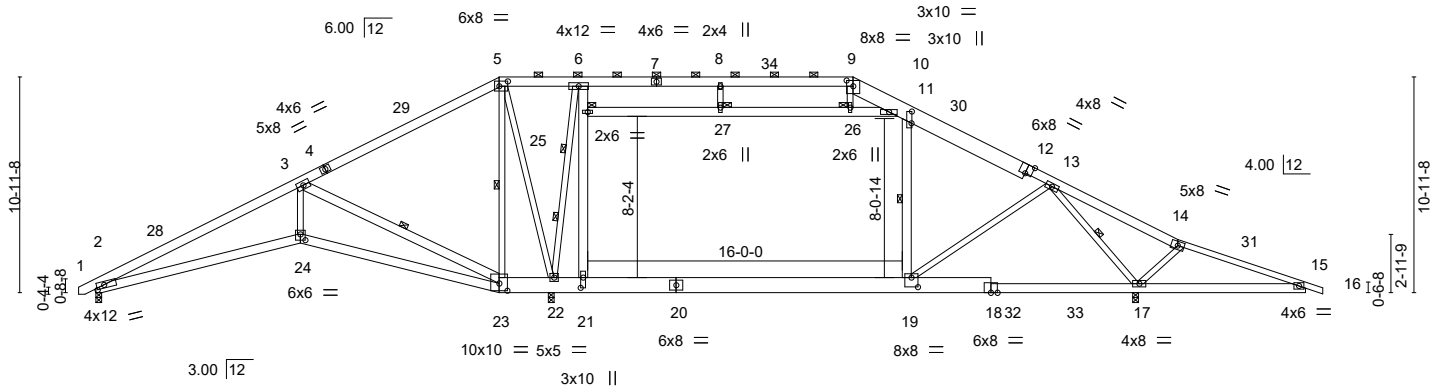
| | | | | | | |
|-------------------|-------------|--------------------------|----------|----------|------------------------------------|-----------|
| Job J0520-1989 | Truss A2 | Truss Type ROOF TRUSS | Qty 5 | Ply 1 | Weaver Job Reference (optional) | E14840227 |
|-------------------|-------------|--------------------------|----------|----------|------------------------------------|-----------|

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.330 s Jul 8 2020 MiTek Industries, Inc. Wed Sep 9 09:37:11 2020 Page 1
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Scale = 1:117.1



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [2:0-4-9,0-2-0], [5:0-5-4,0-3-0], [9:0-4-0,0-3-8], [11:0-7-2,0-0-4], [12:0-4-0,Edge], [19:0-4-0,0-5-12], [21:0-6-4,0-1-8], [23:0-5-0,0-4-7], [24:0-3-0,0-3-8] |
|-----------------------|---|

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.83 | Vert(LL) | -0.44 | 19-21 | >813 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.92 | Vert(CT) | -0.74 | 19-21 | >481 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 1.00 | Horz(CT) | 0.28 | 17 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.11 | 2-24 | >999 | | |
| | | | | | | | | Weight: 530 lb | FT = 20% |

| | | |
|--|-----------------|---|
| LUMBER- | BRACING- | |
| TOP CHORD | TOP CHORD | Structural wood sheathing directly applied or 2-8-11 oc purlins, except |
| 9-12: 2x10 SP No.1, 14-16: 2x4 SP No.1 | | 2-0-0 oc purlins (4-3-4 max.): 5-9. |
| BOT CHORD | BOT CHORD | Rigid ceiling directly applied or 2-2-0 oc bracing. |
| 20-23: 1.5 X 9.25 Master Chord LVL 2.0E, 18-20: 2x10 SP No.1 | WEBS | 1 Row at midpt 3-23, 11-19, 5-23, 13-17 |
| WEBS | | 2 Rows at 1/3 pts 6-22 |
| 2x4 SP No.2 *Except* | JOINTS | 1 Brace at Jt(s): 25, 26, 27 |
| 3-23,6-21,11-19,10-25: 2x6 SP No.1, 6-22: 2x4 SP No.1 | | |

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

REACTIONS. (size) 2=0-3-8 (min. 0-1-11), 22=0-3-8 (min. 0-1-8), 17=0-3-8 (min. 0-3-8)
Max Horz 2=-141(LC 10)
Max Grav 2=1519(LC 2), 22=1863(LC 26), 17=2992(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4752/151, 3-5=-1847/80, 9-10=-2227/76, 10-11=-2254/29, 11-13=-2560/0, 13-14=-863/1150, 14-15=-853/907, 5-6=-1789/60, 6-8=-2150/36, 8-9=-2154/35
BOT CHORD 2-24=-1/4274, 23-24=0/4265, 22-23=0/1580, 21-22=0/2145, 19-21=0/2178, 17-19=0/1463, 15-17=-796/858
WEBS 3-23=-3004/317, 6-22=-2685/0, 21-25=0/2203, 6-25=0/2281, 13-19=-95/1105, 3-24=0/2264, 11-19=-252/555, 9-26=0/348, 5-23=-433/209, 5-22=0/1152, 13-17=-3324/511

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-0, Exterior(2) 20-6-0 to 24-7-8, Interior(1) 24-7-8 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 10-11, 25-27, 26-27, 10-26; Wall dead load (5.0psf) on member(s).21-25, 11-19
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21



September 9, 2020

Continued on page 2

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818 Soundside Road
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| Job | Truss | Truss Type | Qty | Ply | Weaver |
|------------|-------|------------|-----|-----|--------|
| J0520-1989 | A2 | ROOF TRUSS | 5 | 1 | |

E14840227

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.330 s Jul 8 2020 MiTek Industries, Inc. Wed Sep 9 09:37:11 2020 Page 2
ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-2sGN0gUXQnCCQ8LJHVjXulwjNipwVqxGVdVQS0yfQ?s**NOTES-**

- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

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| Job | Truss | Truss Type | Qty | Ply | Weaver |
|------------|-------|------------|-----|-----|--------|
| J0520-1989 | A2A | ROOF TRUSS | 1 | 1 | |

E14840228

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.330 s Jul 8 2020 MiTek Industries, Inc. Wed Sep 9 09:37:31 2020 Page 2
 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-SiUxDWj4jwjaXqr7gwuaZ8YmWtIBW_AREclU9nyfQ?Y

NOTES-

- 9) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

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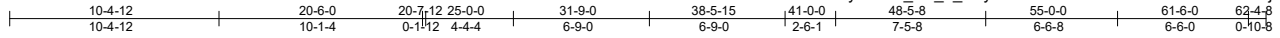


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|-------------------|-------------|--------------------------|----------|----------|--------|-----------|
| Job J0520-1989 | Truss A3 | Truss Type ROOF TRUSS | Qty 3 | Ply 1 | Weaver | E14840229 |
|-------------------|-------------|--------------------------|----------|----------|--------|-----------|

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.330 s Jul 8 2020 MiTek Industries, Inc. Wed Sep 9 09:37:47 2020 Page 1
 ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC_nR_a_w6yrkUSt3CcHBKDWCVKDXGFdov6AKjwfyFQ?!



Scale = 1:114.4

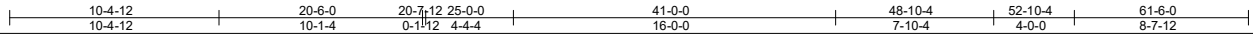
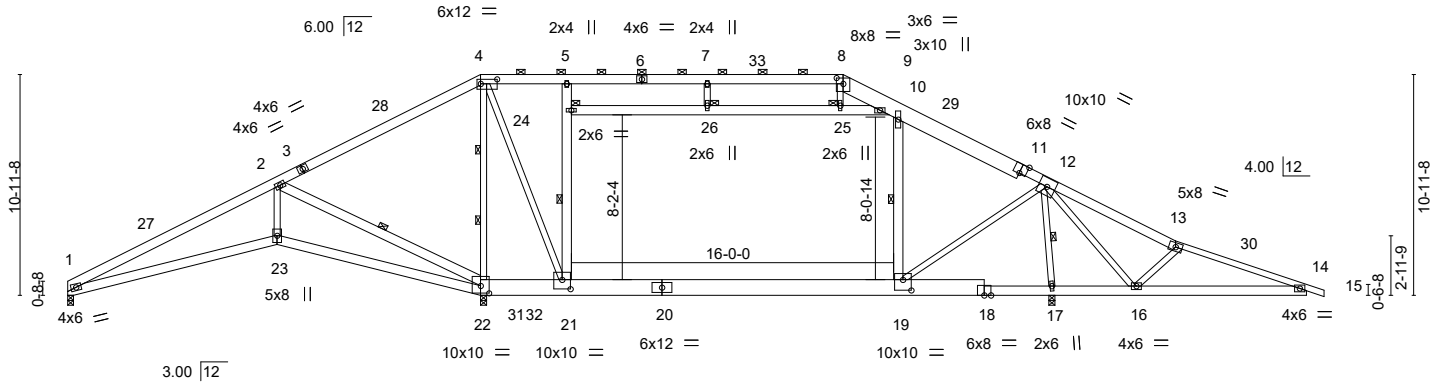


Plate Offsets (X,Y)-- [4:0-9-12,0-2-12], [8:0-4-0,0-3-8], [11:0-4-0,Edge], [19:0-5-0,0-6-4], [21:0-5-0,0-5-8], [22:0-5-0,0-4-7]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.71 | Vert(LL) | -0.36 | 19-21 | >947 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.85 | Vert(CT) | -0.56 | 19-21 | >611 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.84 | Horz(CT) | 0.13 | 17 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.06 | 1-23 | >999 | | |
| | | | | | | | | Weight: 521 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
 8-11: 2x10 SP No.1, 13-15: 2x4 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 20-22: 1.5 X 9.25 Master Chord LVL 2.0E, 18-20: 2x10 SP No.1
 WEBS 2x4 SP No.2 *Except*
 2-22,5-21,10-19,9-24: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except 2-0-0 oc purlins (5-10-1 max.): 4-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 2-22, 21-24, 10-19, 12-17
 2 Rows at 1/3 pts 4-22
 JOINTS 1 Brace at Jt(s): 24, 25, 26

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

REACTIONS. (size) 1=0-3-8 (min. 0-1-8), 22=0-3-8 (min. 0-1-14), 17=0-3-8 (req. 0-3-9)
 Max Horz 1=-142(LC 10)
 Max Uplift 1=-4(LC 12)
 Max Grav 1=874(LC 24), 22=2474(LC 2), 17=3006(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2245/0, 2-4=-492/97, 8-9=-1370/10, 9-10=-1336/0, 10-12=-1416/0,
 12-13=-840/1213, 13-14=-832/973, 4-5=-1201/0, 5-7=-1222/0, 7-8=-1226/0
 BOT CHORD 1-23=-33/1991, 22-23=-32/1983, 21-22=-29/642, 19-21=0/1221, 17-19=-1231/1170,
 16-17=-1298/1186, 14-16=-857/839
 WEBS 2-22=-1990/254, 21-24=-943/229, 5-24=-714/241, 12-19=-460/2642, 2-23=0/1163,
 10-19=-905/520, 8-25=0/350, 12-16=-442/457, 4-22=-2381/36, 4-21=0/2460,
 12-17=-3107/787

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-0, Exterior(2) 20-6-0 to 24-9-4, Interior(1) 24-9-4 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 9-10, 24-26, 25-26, 9-25; Wall dead load (5.0psf) on member(s).21-24, 10-19
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21

Continued on page 2



September 9, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



| Job | Truss | Truss Type | Qty | Ply | Weaver |
|------------|-------|------------|-----|-----|--------|
| J0520-1989 | A3 | ROOF TRUSS | 3 | 1 | |

E14840229

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.330 s Jul 8 2020 MiTek Industries, Inc. Wed Sep 9 09:37:47 2020 Page 2
ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-_nR_a_w6yrkJSt3CcHBKDWCZVKDxGFdov6AKjwyfQ?I**NOTES-**

- 9) WARNING: Required bearing size at joint(s) 17 greater than input bearing size.
- 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



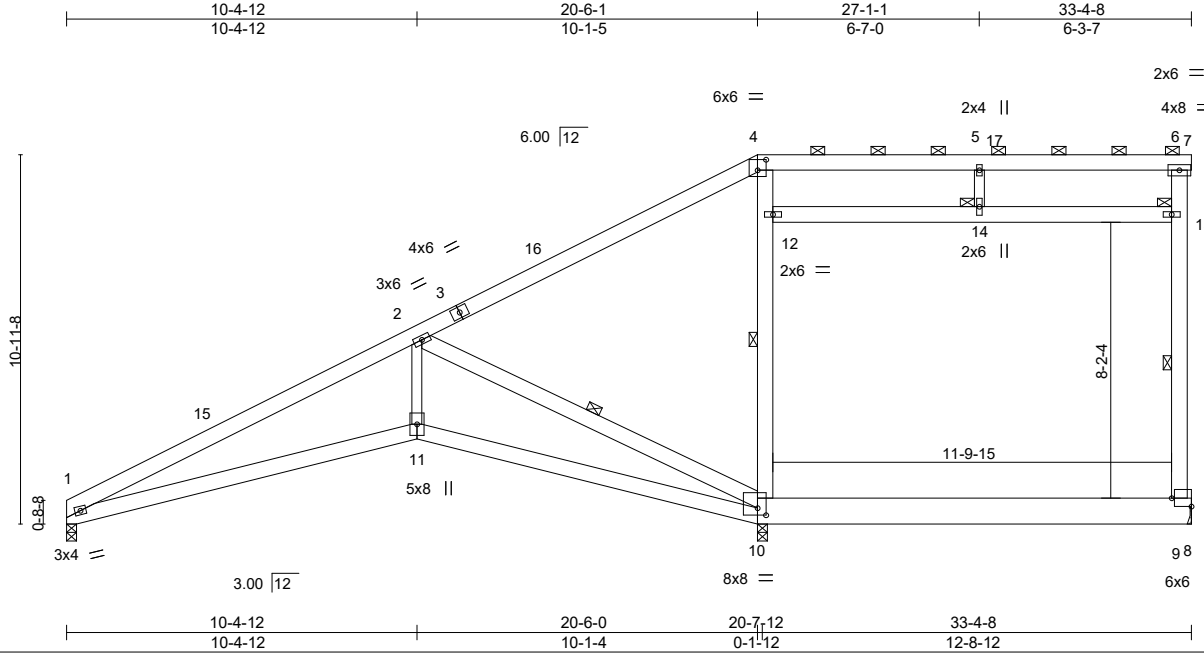
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840230 |
| J0520-1989 | A4 | ROOF TRUSS | 3 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:19:47 2020 Page 1

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Scale = 1:68.4

Plate Offsets (X,Y)-- [4:0-3-0,0-3-12], [9:Edge,0-7-0], [10:0-3-0,0-2-8]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.50 | Vert(LL) | -0.24 | 9-10 | >629 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.93 | Vert(CT) | -0.35 | 9-10 | >436 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.60 | Horz(CT) | 0.11 | 9 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.08 | 1-11 | >999 | Weight: 289 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 8-10: 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 2-11,5-14: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 9-13, 2-10, 10-12
 JOINTS 1 Brace at Jt(s): 6, 13, 14

REACTIONS.

(size) 9=Mechanical, 1=0-3-8, 10=0-3-8
 Max Horz 1=343(LC 12)
 Max Grav 9=1093(LC 2), 1=809(LC 1), 10=1861(LC 2)

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

TOP CHORD 1-2=-1961/301, 2-4=-333/203, 9-13=-523/107, 6-13=-371/100
 BOT CHORD 1-11=-935/1730, 10-11=-933/1720
 WEBS 2-11=-328/1031, 2-10=-1810/826, 10-12=-836/436, 4-12=-589/425

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFERS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-4-8 zone; C-C for members and forces & MWFERS 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 12-14, 13-14; Wall dead load (5.0psf) on member(s).10-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-10
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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.



September 9, 2020

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840231 |
| J0520-1989 | A4A | ROOF TRUSS | 1 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:19:49 2020 Page 1
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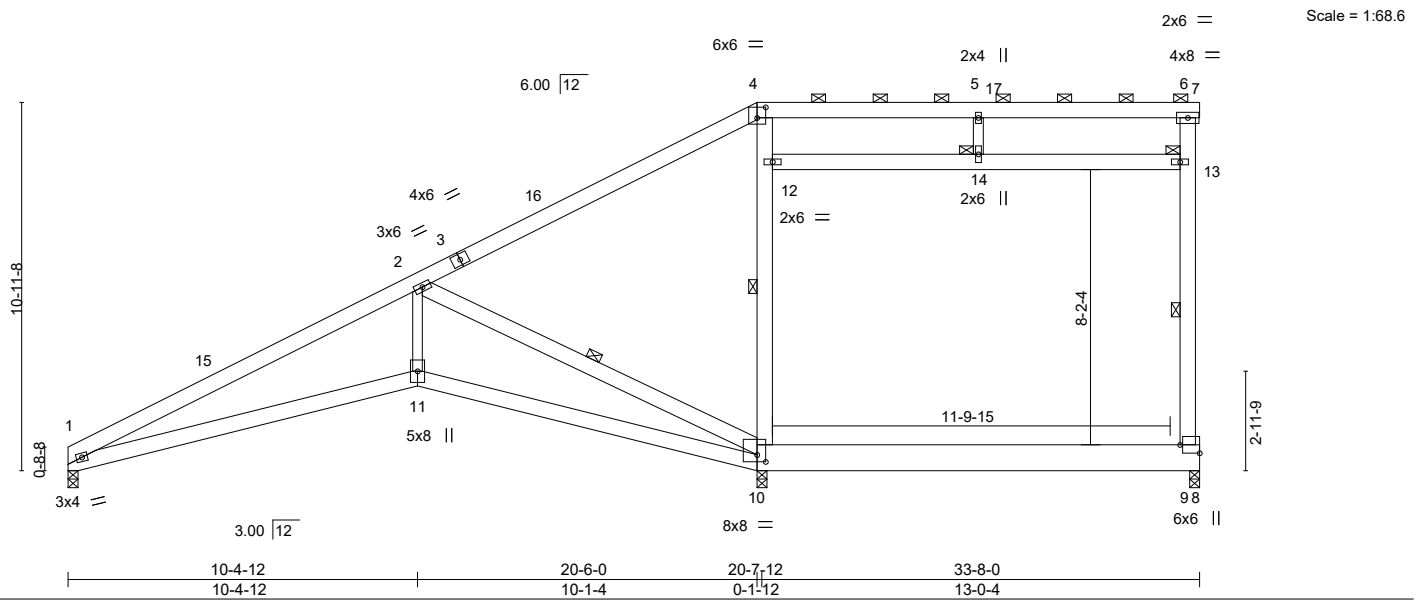


Plate Offsets (X,Y)-- [4:0-3-0,0-3-12], [9:Edge,0-7-0], [10:0-3-0,0-2-8]

| LOADING (psf) | SPACING- | CS.I. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.52 | Vert(LL) -0.26 | 9-10 | >589 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.98 | Vert(CT) -0.38 | 9-10 | >407 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.60 | Horz(CT) 0.11 | 9 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) 0.08 | 1-11 | >999 | 240 | Weight: 292 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

| LUMBER- | BRACING- |
|--------------------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7. |
| BOT CHORD 2x6 SP No.1 *Except* | BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. |
| 8-10: 2x10 SP No.1 | WEBS 1 Row at midpt 9-13, 2-10, 10-12 |
| WEBS 2x6 SP No.1 *Except* | JOINTS 1 Brace at Jt(s): 6, 13, 14 |
| 2-11,5-14: 2x4 SP No.2 | |

REACTIONS. (size) 9=0-3-8, 1=0-3-8, 10=0-3-8
 Max Horz 1=343(LC 12)
 Max Grav 9=1120(LC 2), 1=811(LC 1), 10=1883(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1965/303, 2-4=-332/200, 9-13=-536/110, 6-13=-382/106
 BOT CHORD 1-11=-936/1733, 10-11=-935/1723
 WEBS 2-11=-329/1032, 2-10=-1808/827, 10-12=-846/437, 4-12=-594/425

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-8-0 zone;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Ceiling dead load (10.0 psf) on member(s). 12-14, 13-14; Wall dead load (5.0psf) on member(s).10-12
 - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-10
 - 7) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Attic room checked for L/360 deflection.

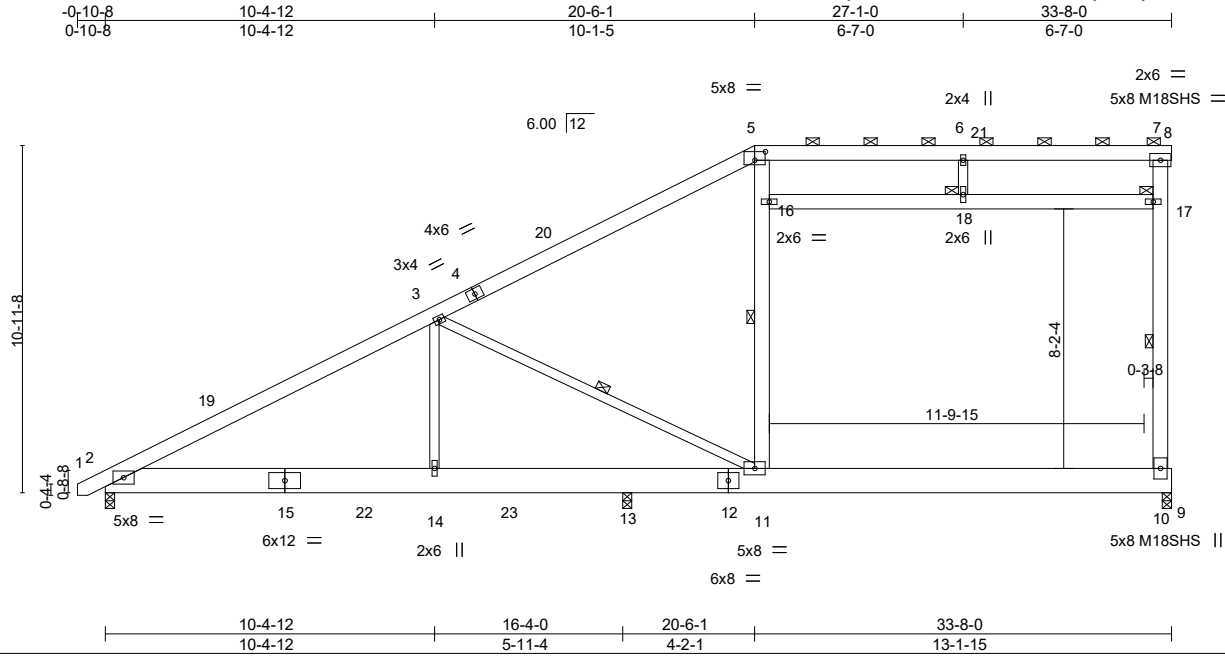


September 9,2020

| | | | | | | |
|-------------------|-------------|--------------------------|----------|----------|--------|-----------|
| Job J0520-1989 | Truss A5 | Truss Type ROOF TRUSS | Qty 4 | Ply 1 | Weaver | E14840232 |
|-------------------|-------------|--------------------------|----------|----------|--------|-----------|

Comtech, Inc., Fayetteville, NC 28309, Mitek

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8.330 s Jul 8 2020 MiTek Industries, Inc. Wed Sep 9 09:38:17 2020 Page 1



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.63 | in (loc) l/defl L/d | MT20 | 197/144 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.58 | Vert(LL) -0.28 10-11 >726 360 | M18SHS | 197/144 |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.52 | Vert(CT) -0.51 10-11 >395 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) -0.00 10 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.10 10-11 >999 240 | | |
| | | | | Weight: 295 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 1.5 X 9.25 Master Chord LVL 2.0E *Except*
 2-15: 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 3-14,3-11,6-18: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.
 BOT CHORD Rigid ceiling directly applied or 5-2-10 oc bracing.
 WEBS 1 Row at midpt 10-17, 3-11, 11-16
 JOINTS 1 Brace at Jt(s): 7, 17, 18

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

REACTIONS.

(size) 10=0-3-8 (min. 0-1-8), 2=0-3-8 (min. 0-1-8), 13=0-3-8 (min. 0-1-10)
 Max Horz 2=345(LC 12)
 Max Uplift 2=-37(LC 12)
 Max Grav 10=1269(LC 2), 2=621(LC 1), 13=2097(LC 2)

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

TOP CHORD 2-3=-417/220, 3-5=-308/138, 10-17=-559/113, 7-17=-413/111
 BOT CHORD 2-14=-422/308, 13-14=-422/308, 11-13=-422/308
 WEBS 3-14=-631/188, 3-11=-157/312, 11-16=-779/421, 5-16=-534/411

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-8-0 zone;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 16-18, 17-18; Wall dead load (5.0psf) on member(s).11-16
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.



September 9, 2020

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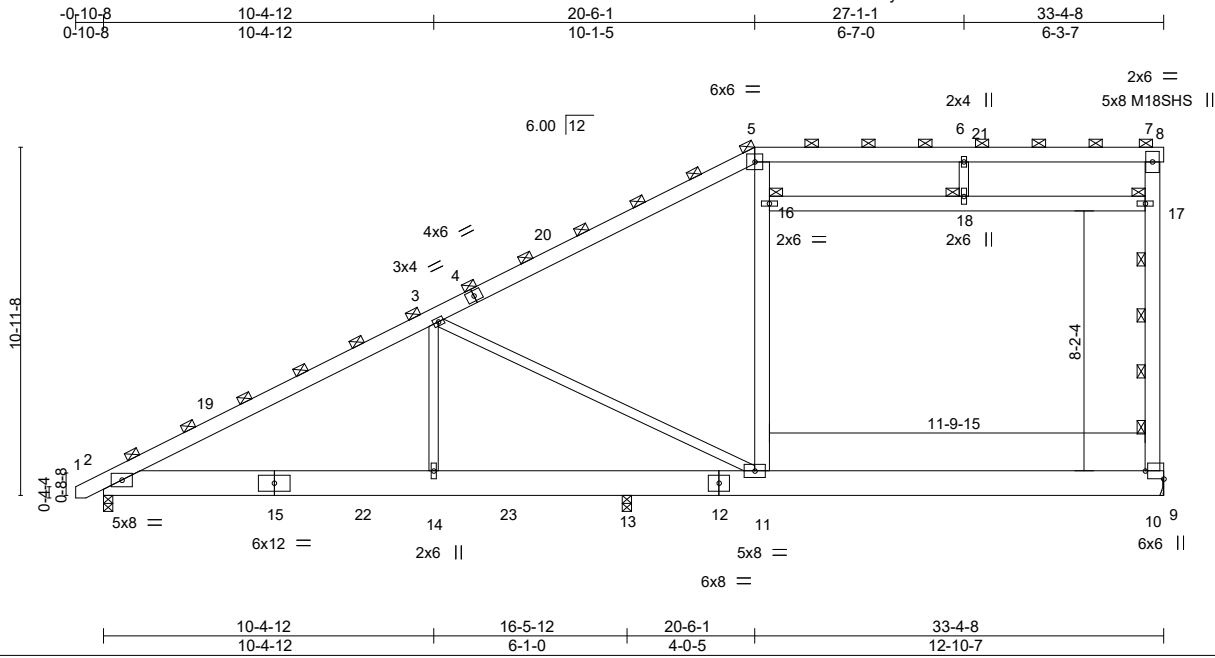


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|--------------------------|----------|----------|--------|-----------|
| Job J0520-1989 | Truss A6 | Truss Type ROOF TRUSS | Qty 2 | Ply 2 | Weaver | E14840233 |
|-------------------|-------------|--------------------------|----------|----------|--------|-----------|

Comtech, Inc., Fayetteville, NC 28309, Mitek

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Scale = 1:72.5

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 3-6-0 | TC 0.56 | in (loc) l/defl L/d | MT20 | 197/144 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.51 | Vert(LL) -0.23 10-11 >864 360 | M18SHS | 244/190 |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.43 | Vert(CT) -0.42 10-11 >470 240 | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-S | Horz(CT) -0.00 10 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.08 10-11 >999 240 | Weight: 585 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals |
| BOT CHORD 1.5 X 9.25 Master Chord LVL 2.0E *Except* 2-15: 2x10 SP No.1 | (Switched from sheeted: Spacing > 2-0-0). |
| WEBS 2x6 SP No.1 *Except* 3-14,3-11,6-18: 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| | JOINTS 1 Brace at Jt(s): 5, 7, 16, 17, 18 |

REACTIONS. (size) 10=Mechanical, 2=0-3-8 (min. 0-1-8), 13=0-3-8 (min. 0-1-8)
Max Horz 2=603(LC 12)
Max Uplift 2=-62(LC 12)
Max Grav 10=2185(LC 2), 2=1093(LC 1), 13=3607(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-753/340, 3-5=-540/247, 5-6=-349/23, 6-7=-348/23, 10-17=-956/193,
7-17=-706/184
BOT CHORD 2-14=-735/559, 13-14=-735/559, 11-13=-735/559, 10-11=-279/346
WEBS 3-14=-1060/333, 3-11=-308/537, 11-16=-1346/735, 5-16=-927/719, 16-18=-209/281,
17-18=-209/281, 6-18=-69/267

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- 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.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 16-18, 17-18; Wall dead load (5.0psf) on member(s). 11-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
- Refer to girder(s) for truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 9, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|--------------------------|----------|-----------------|------------------------------------|-----------|
| Job J0520-1989 | Truss A6 | Truss Type ROOF TRUSS | Qty 2 | Ply 2 | Weaver Job Reference (optional) | E14840233 |
|-------------------|-------------|--------------------------|----------|-----------------|------------------------------------|-----------|

Comtech, Inc., Fayetteville, NC 28309, Mitek

8.330 s Jul 8 2020 MiTek Industries, Inc. Wed Sep 9 09:38:33 2020 Page 2
ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-eeDNDITz7zXnzxb2lx?74D6TCs0319YZUGJmKFyfQ_a

NOTES-

- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Attic room checked for L/360 deflection.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

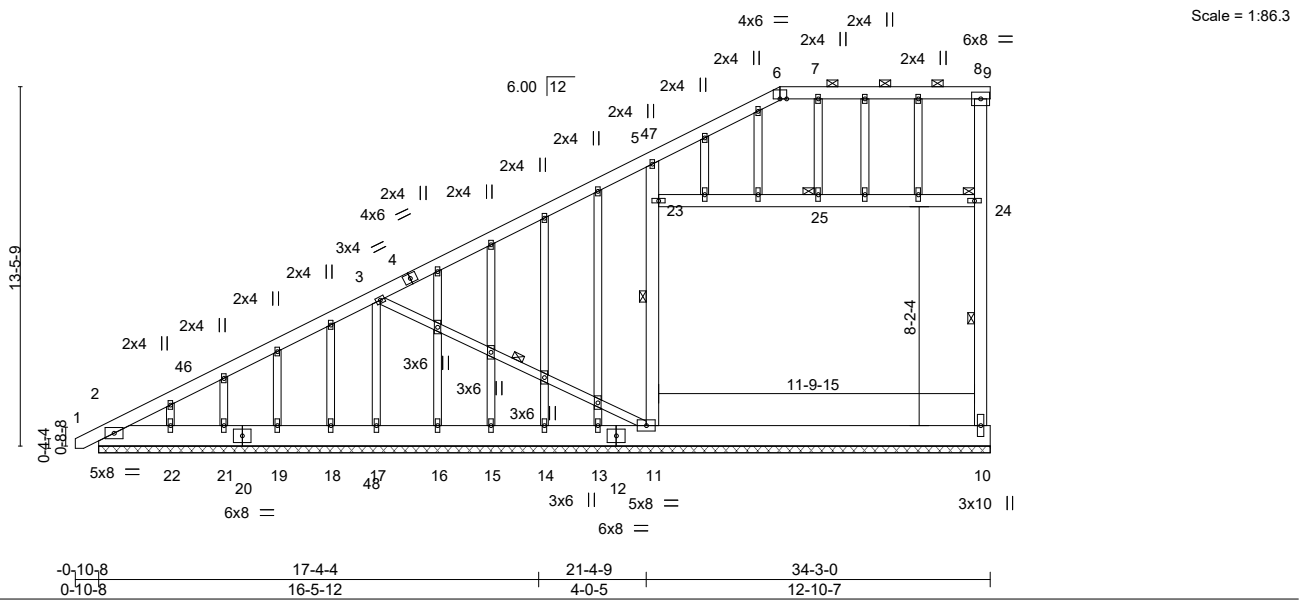
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840234 |
| J0520-1989 | A7GE | GABLE | 1 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:19:55 2020 Page 1
 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-kIBXnCPqNZgpXxLG5XjOxyQwBUx5YE?PKUc53yfQG2



| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|---------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.46 | Vert(LL) 0.00 | 1 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.29 | Vert(CT) 0.00 | 1 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.33 | Horz(CT) 0.13 | 9 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 402 lb | FT = 20% |

| LUMBER- | BRACING- |
|---------------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9. |
| BOT CHORD 2x10 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11. |
| WEBS 2x6 SP No.1 *Except* | WEBS 1 Row at midpt 10-24, 3-11, 11-23 |
| OTHERS 2x4 SP No.2 | JOINTS 1 Brace at Jt(s): 24, 25 |

REACTIONS. All bearings 33-4-8.
 (lb) - Max Horz 2=613(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 21 except 9=452(LC 1), 10=-214(LC 9), 17=-291(LC 12), 11=-184(LC 12), 22=-219(LC 12), 13=-712(LC 18)
 Max Grav All reactions 250 lb or less at joint(s) 9, 2, 14, 15, 16, 18, 19, 21 except 10=1059(LC 2), 17=561(LC 1), 11=1723(LC 2), 22=396(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-681/327, 3-5=-648/361, 5-6=-308/33, 10-24=-933/545, 8-24=-819/535
 BOT CHORD 2-22=-419/281, 21-22=-419/281, 19-21=-419/281, 18-19=-419/281, 17-18=-419/281, 16-17=-419/281, 15-16=-419/281, 14-15=-419/281, 13-14=-419/281, 11-13=-419/281
 WEBS 3-17=-519/342, 3-11=-134/268, 11-23=-920/760, 5-23=-727/751, 23-25=-270/273, 24-25=-270/273

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 25-6-1, Corner(3) 25-6-1 to 29-10-14, Exterior(2) 29-10-14 to 33-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x6 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 23-25, 24-25; Wall dead load (5.0psf) on member(s). 11-23
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 21 except (jt=lb) 9=452, 10=214, 17=291, 11=184, 22=219, 13=712.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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TRENCO
 ENGINEERING BY
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|-----------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840235 |
| J0520-1989 | B1 | PIGGYBACK ATTIC | 1 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:19:56 2020 Page 1

ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-CULv?YQT8spf95vSFEdUALWBbiZqzjd_E9eVvfQG1

0-11-0 5-0-12 5-3-8 17-6-4 22-7-0 23-6-0
 0-11-0 5-0-12 0-2-12 12-2-12 5-0-12 0-11-0

4x6 =

Scale = 1:82.1

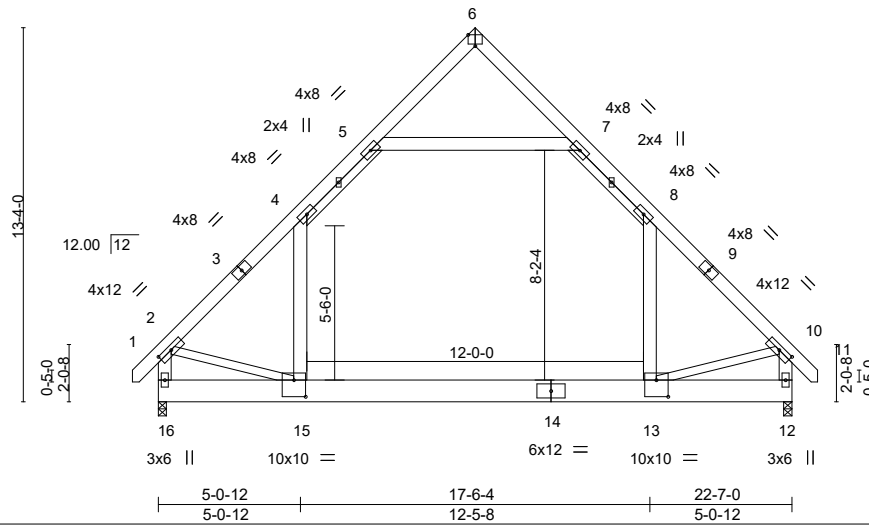


Plate Offsets (X,Y)-- [2:0-6-0,0-1-12], [6:0-3-0,Edge], [10:0-6-0,0-1-12], [13:0-5-0,0-7-0], [15:0-5-0,0-7-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.81 | Vert(LL) -0.25 | 13-15 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.78 | Vert(CT) -0.41 | 13-15 | >651 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.51 | Horz(CT) 0.01 | 12 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.07 | 13-15 | >999 | 240 | Weight: 246 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 2-15,10-13,4-5,7-8: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-2-13 oc bracing.

REACTIONS.

(size) 16=0-3-8, 12=0-3-8
 Max Horz 16=-344(LC 10)
 Max Grav 16=1538(LC 21), 12=1538(LC 20)

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

TOP CHORD 2-4=-1733/0, 4-5=-1047/184, 7-8=-1047/184, 8-10=-1732/0, 2-16=-1694/41,
 10-12=-1695/42
 BOT CHORD 15-16=-309/550, 13-15=0/1088, 12-13=-84/327
 WEBS 4-15=0/756, 8-13=0/756, 5-7=-1124/224, 2-15=0/885, 10-13=0/891

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 11-4-0, Corner(3) 11-4-0 to 15-8-13, Exterior(2) 15-8-13 to 23-5-2 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a live load of 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Attic room checked for L/360 deflection.



September 9,2020

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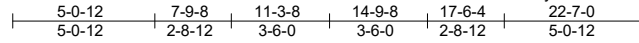
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840236 |
| J0520-1989 | B2 | ATTIC | 8 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:20:01 2020 Page 1

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4x6 =

Scale = 1:82.1

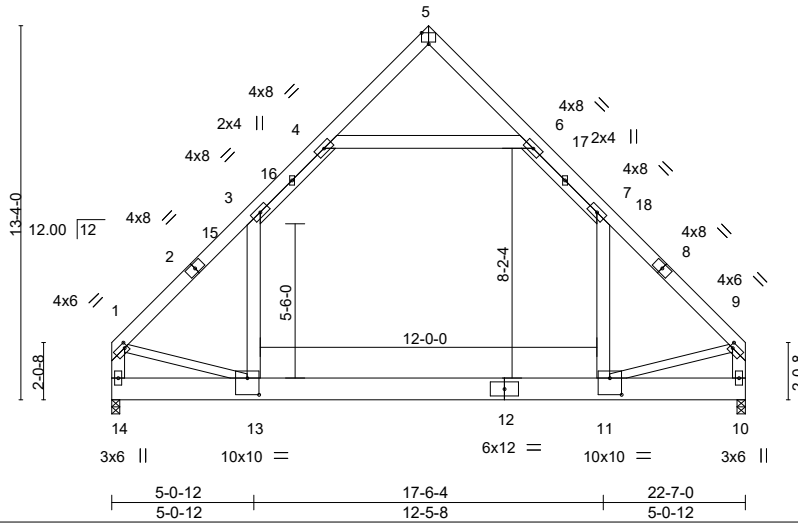


Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [5:0-3-0,Edge], [9:0-1-4,0-2-0], [11:0-5-0,0-7-0], [13:0-5-0,0-7-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.80 | Vert(LL) -0.25 | 11-13 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.78 | Vert(CT) -0.42 | 11-13 | >637 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.51 | Horz(CT) 0.01 | 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.07 | 11-13 | >999 | 240 | Weight: 240 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 1-13,9-11,3-4,6-7: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-1-6 oc bracing.

REACTIONS.

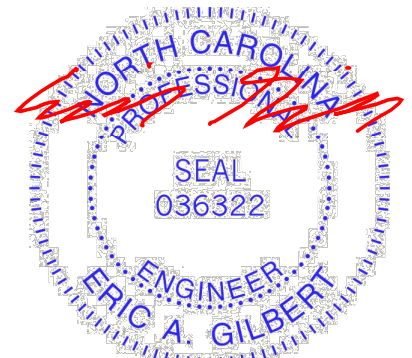
(size) 10=0-3-8, 14=0-3-8
 Max Horz 14=-265(LC 8)
 Max Grav 10=1497(LC 20), 14=1497(LC 21)

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

TOP CHORD 1-3=-1716/0, 3-4=-1049/146, 6-7=-1048/146, 7-9=-1716/0, 1-14=-1651/0, 9-10=-1652/0
 BOT CHORD 13-14=-278/422, 11-13=0/1070
 WEBS 4-6=-1135/154, 3-13=0/729, 7-11=0/729, 1-13=0/958, 9-11=0/961

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-4-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- Attic room checked for L/360 deflection.



September 9,2020

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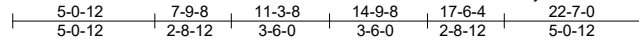
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840237 |
| J0520-1989 | B3 | ATTIC | 1 | 2 | | |

Comtech, Inc., Fayetteville, NC - 28314,

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4x6 =

Scale = 1:82.1

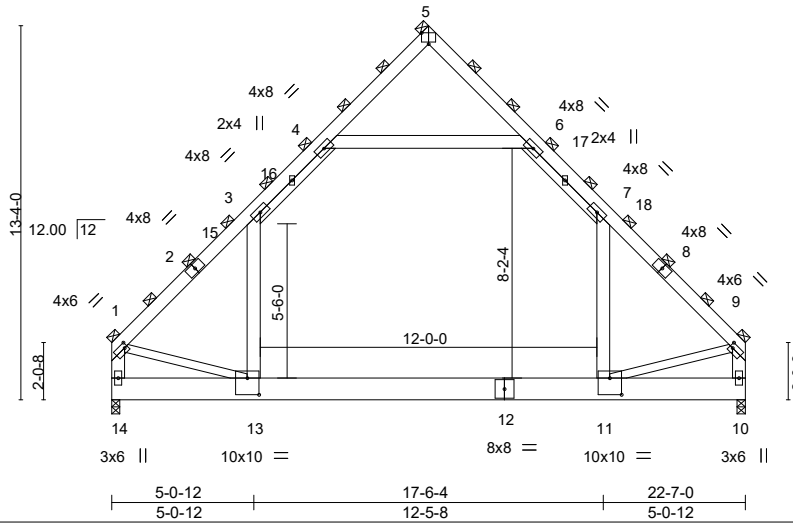


Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [5:0-3-0,Edge], [9:0-1-4,0-2-0], [11:0-5-0,0-7-0], [13:0-5-0,0-7-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.92 | Vert(LL) -0.25 | 11-13 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.86 | Vert(CT) -0.42 | 11-13 | >637 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.24 | Horz(CT) 0.01 | 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.07 | 11-13 | >999 | 240 | Weight: 481 lb | FT = 20% |

| LUMBER- | BRACING- |
|--------------------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals |
| BOT CHORD 2x10 SP No.1 | (Switched from sheeted: Spacing > 2-8-0). |
| WEBS 2x6 SP No.1 *Except* | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| 1-13,9-11,3-4,6-7: 2x4 SP No.2 | |

REACTIONS. (size) 10=0-3-8, 14=0-3-8
 Max Horz 14=530(LC 8)
 Max Grav 10=2994(LC 20), 14=2994(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-3432/0, 3-4=-2097/291, 4-5=-295/314, 5-6=-295/314, 6-7=-2097/291, 7-9=-3432/0,
 1-14=-3302/0, 9-10=-3303/0
 BOT CHORD 13-14=-556/843, 11-13=0/2141, 10-11=-127/452
 WEBS 4-6=-2270/307, 3-13=0/1458, 7-11=0/1458, 1-13=0/1915, 9-11=0/1922

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s), 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s), 3-13, 7-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room, 11-13
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



September 9, 2020

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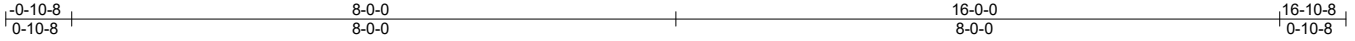
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840238 |
| J0520-1989 | P1 | COMMON | 4 | 1 | | |

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8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:20:06 2020 Page 1

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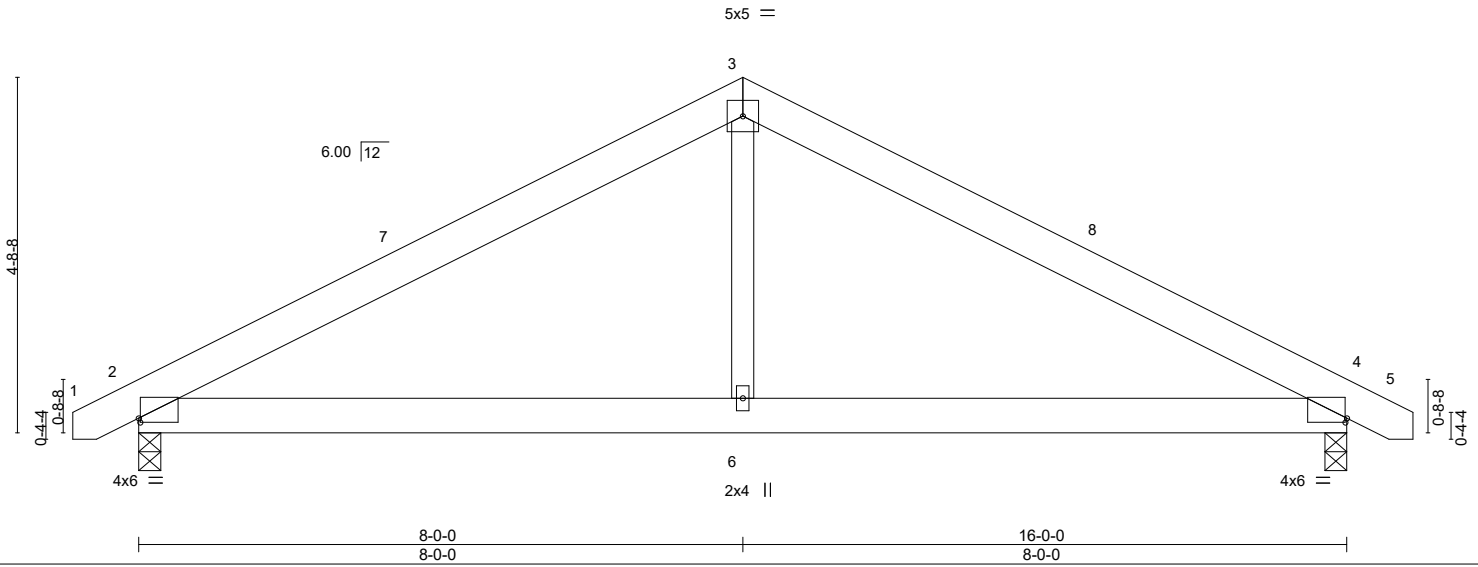


Plate Offsets (X,Y)-- [2:0-0-4,0-0-11], [4:0-0-4,0-0-11]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.29 | Vert(LL) | 0.06 | 4-6 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.24 | Vert(CT) | -0.05 | 4-6 | >999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.13 | Horz(CT) | 0.01 | 4 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 90 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

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

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

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-873/842, 3-4=-873/840
 BOT CHORD 2-6=-615/675, 4-6=-615/675
 WEBS 3-6=-478/381

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-8-10 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=-142, 4=-142.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 9, 2020

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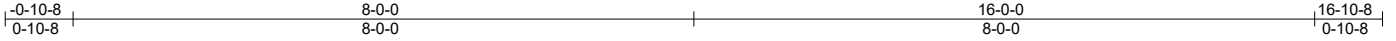
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840239 |
| J0520-1989 | P1GE | GABLE | 1 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:20:09 2020 Page 1

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-K?1pj?ad4sRpD5PyyTzgVvOs5qH0NxY3dVuLaFyfQfQ



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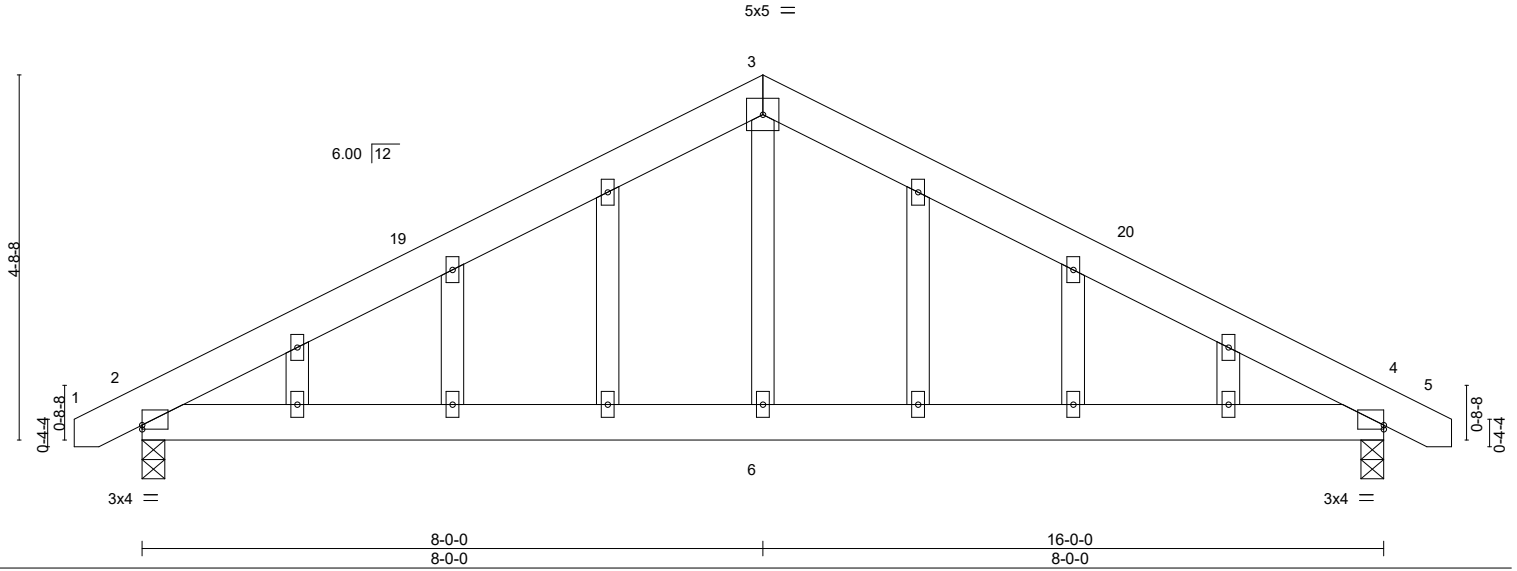


Plate Offsets (X,Y)-- [2:0-0-0,0-0-11], [4:0-0-0,0-0-11]

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

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=-88(LC 17)
 Max Uplift 2=-153(LC 12), 4=-153(LC 13)
 Max Grav 2=680(LC 1), 4=680(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-873/238, 3-4=-873/236
 BOT CHORD 2-6=-77/675, 4-6=-77/675
 WEBS 3-6=0/381

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=153, 4=153.
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 9, 2020

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840240 |
| J0520-1989 | PB1 | PIGGYBACK | 9 | 1 | | |

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ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-GN9a8gctcThXSPZL1u?8aKTCeEz4rr0M4pNSf7yfQFo

8-11-15
8-11-15

17-11-15
9-0-0

Scale = 1:30.8

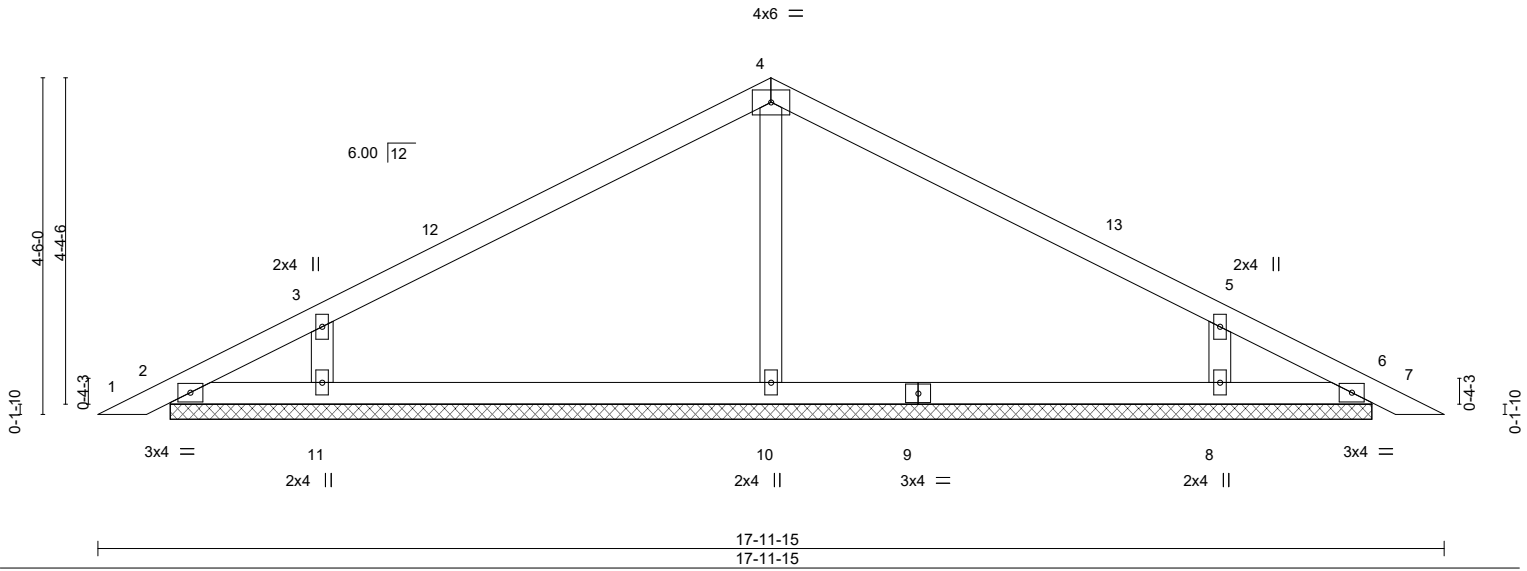


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.31 | Vert(LL) | -0.00 | 7 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.20 | Vert(CT) | -0.00 | 7 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.09 | Horz(CT) | 0.00 | 6 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 62 lb | FT = 20% |

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

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

REACTIONS. All bearings 16-0-12.
(lb) - Max Horz 2=56(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 11=-105(LC 12), 8=-105(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 10=428(LC 1), 11=440(LC 23), 8=440(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=-298/101, 3-11=-356/260, 5-8=-356/263

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 13-4-12, Interior(1) 13-4-12 to 17-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 11=105, 8=105.
 - Non Standard bearing condition. Review required.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 9, 2020

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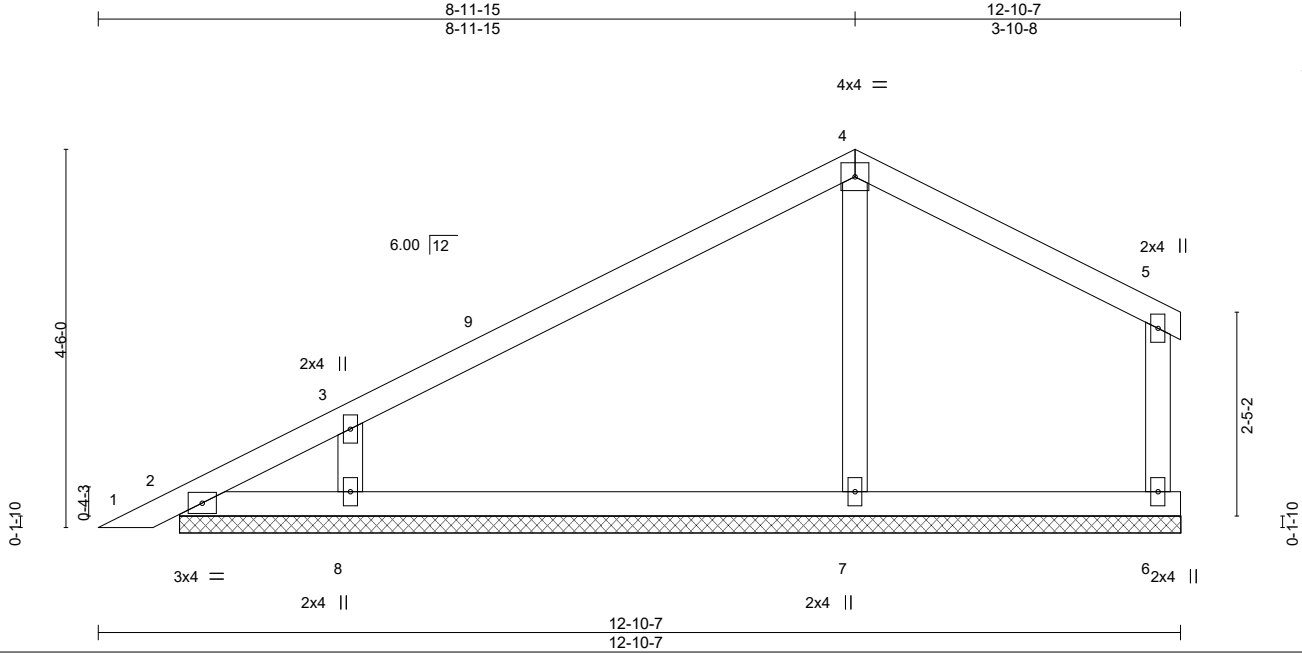


818 Soundside Road
Edenton, NC 27932

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|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840241 |
| J0520-1989 | PB2 | PIGGYBACK | 3 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:20:13 2020 Page 1
 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-CmGKZMd785yFhijj8J1cglYYgSgAJlcfY7sZj0yfQFm



Scale = 1:27.4

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.32 | Vert(LL) | 0.00 | 1 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.16 | Vert(CT) | -0.00 | 1 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.08 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 49 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 11-10-14.
 (lb) - Max Horz 2=102(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=103(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=387(LC 1), 8=447(LC 23)

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

WEBS 4-7=-277/173, 3-8=-356/285

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 12-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (jt=lb) 8=103.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 9, 2020

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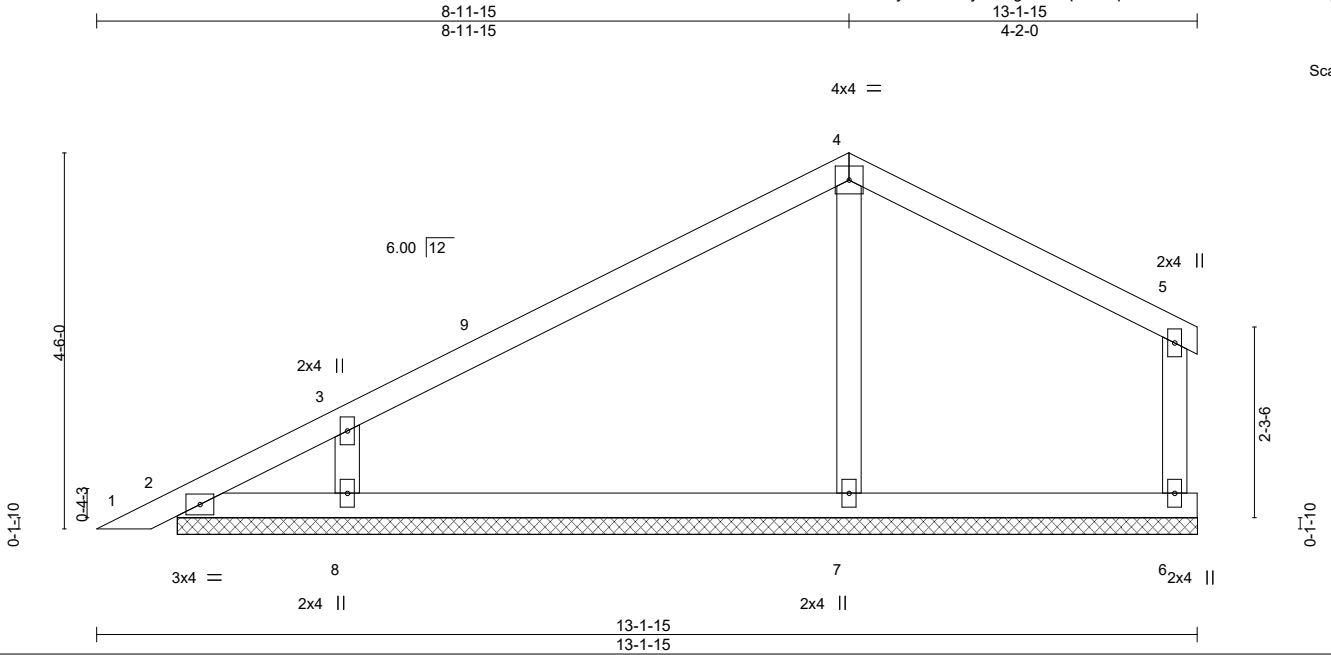


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840242 |
| J0520-1989 | PB3 | PIGGYBACK | 5 | 1 | | |

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8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:20:16 2020 Page 1
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| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|-----|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.32 | Vert(LL) 0.00 | 1 | n/r | 120 | | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.16 | Vert(CT) -0.00 | 1 | n/r | 120 | | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.08 | Horz(CT) 0.00 | 6 | n/a | n/a | | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | | Weight: 50 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | | |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 12-2-6.
 (lb) - Max Horz 2=99(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=104(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=390(LC 1), 8=447(LC 23)

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

WEBS 4-7=-279/166, 3-8=-356/282

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 12-10-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (jt=lb) 8=104.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 9, 2020

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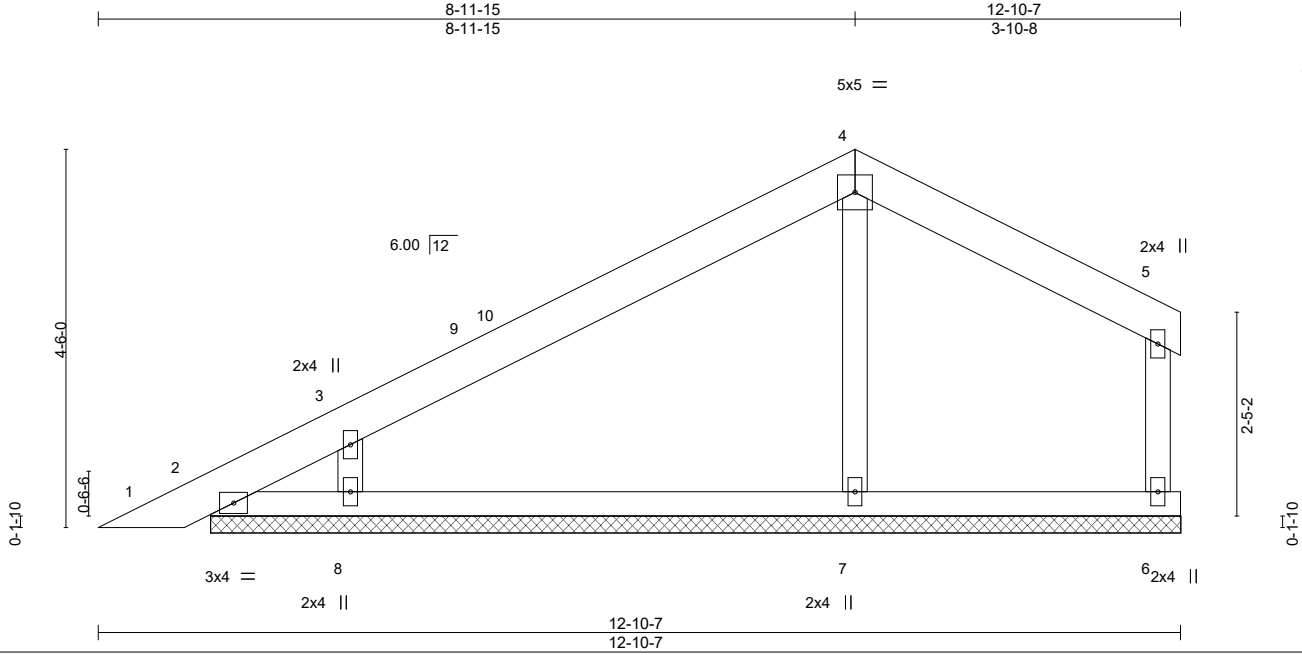


818 Soundside Road
 Edenton, NC 27932

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|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840243 |
| J0520-1989 | PB4 | PIGGYBACK | 2 | 2 | | |

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8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:20:17 2020 Page 1
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| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----|-------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.07 | Vert(LL) 0.00 | 1 | n/r | 120 | | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.08 | Vert(CT) -0.00 | 1 | n/r | 120 | | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.03 | Horz(CT) 0.00 | 6 | n/a | n/a | | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | | | |
| | Code IRC2015/TPI2014 | | | | | | | Weight: 121 lb | FT = 20% |

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 11-6-7.
 (lb) - Max Horz 2=99(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=111(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=391(LC 1), 8=455(LC 23)

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

WEBS 4-7=-282/182, 3-8=-349/301

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-2 to 4-10-15, Interior(1) 4-10-15 to 8-11-15, Exterior(2) 8-11-15 to 12-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (jt=lb) 8=111.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 9, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



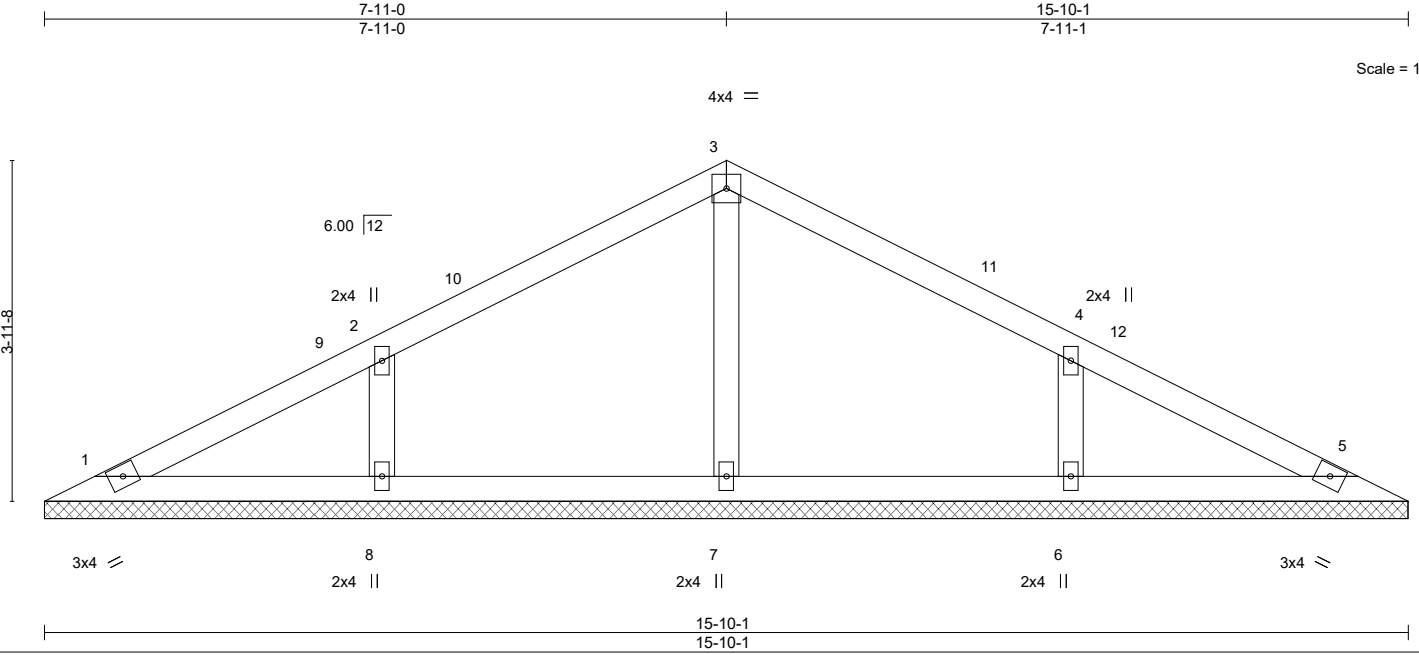
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840244 |
| J0520-1989 | VP1 | VALLEY | 1 | 1 | | |

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ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-Zj4Dc4hGzdaYoUbhxsdnNpFR4TOb_0NOhPZKODyfQFh



Scale = 1:26.8

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

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.15 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.08 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.05 | Horz(CT) | 0.00 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 57 lb | FT = 20% |

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

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

REACTIONS. All bearings 15-10-1.
 (lb) - Max Horz 1=-48(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=271(LC 1), 8=346(LC 23), 6=346(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-261/201, 4-6=-261/201

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-7 to 5-0-3, Interior(1) 5-0-3 to 7-11-0, Exterior(2) 7-11-0 to 12-3-13, Interior(1) 12-3-13 to 15-2-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.
 - 6) Non Standard bearing condition. Review required.



September 9, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

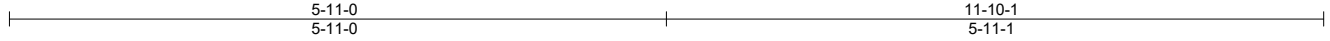


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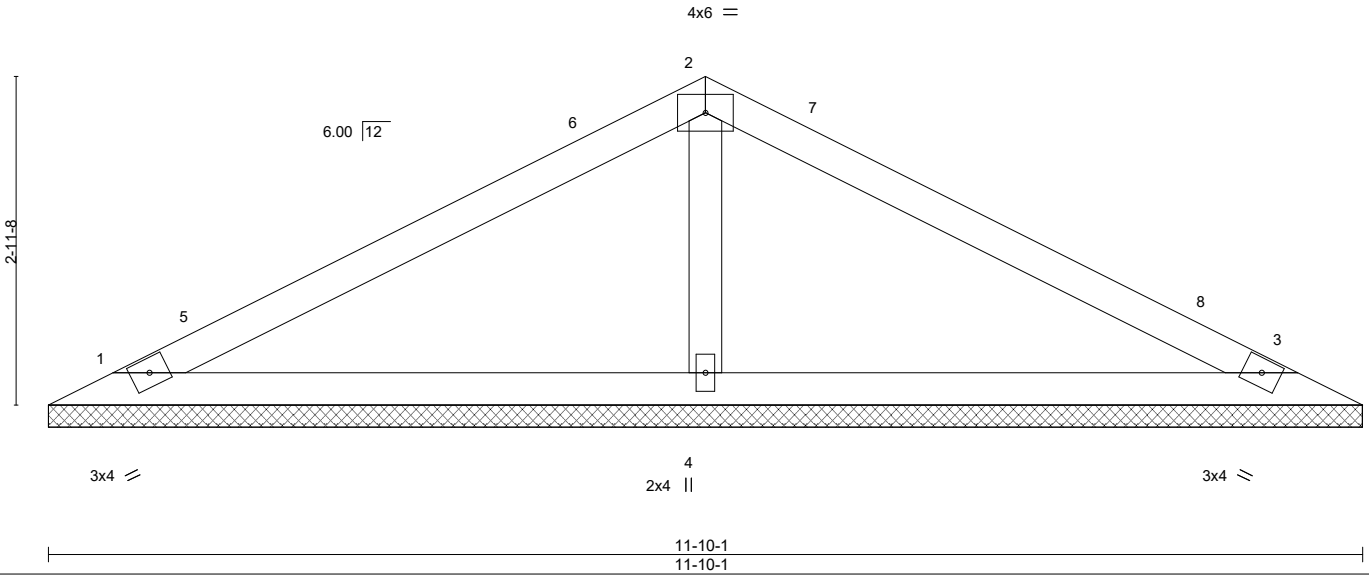
| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840245 |
| J0520-1989 | VP2 | VALLEY | 1 | 1 | | |

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8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:20:19 2020 Page 1
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Scale = 1:20.8



| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.30 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.20 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.05 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 39 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=11-10-1, 3=11-10-1, 4=11-10-1
 Max Horz 1=-35(LC 10)
 Max Uplift 1=-26(LC 12), 3=-32(LC 13)
 Max Grav 1=196(LC 23), 3=196(LC 24), 4=460(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-304/188

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-7 to 5-0-3, Interior(1) 5-0-3 to 5-11-0, Exterior(2) 5-11-0 to 10-3-13, Interior(1) 10-3-13 to 11-2-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- Non Standard bearing condition. Review required.



September 9, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

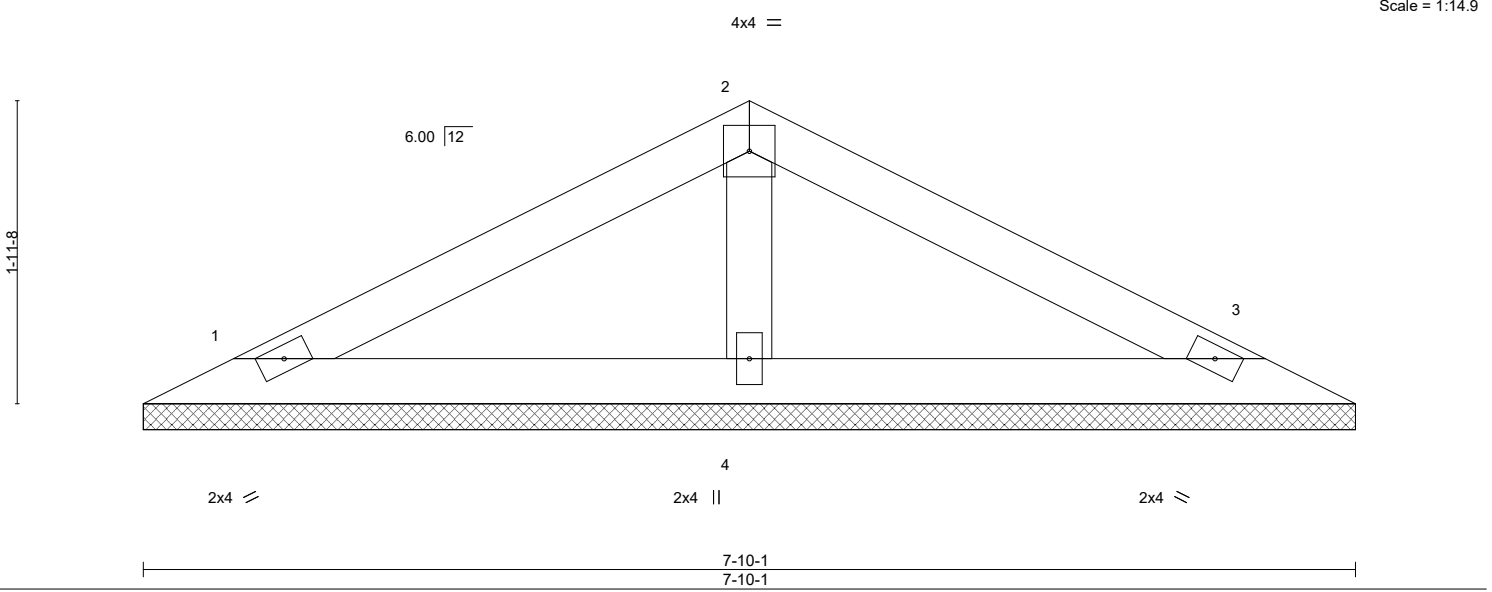
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840246 |
| J0520-1989 | VP3 | VALLEY | 1 | 1 | | |

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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.15 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.08 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.02 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 25 lb | FT = 20% |

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

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

REACTIONS. (size) 1=7-10-1, 3=7-10-1, 4=7-10-1
 Max Horz 1=-21(LC 8)
 Max Uplift 1=-21(LC 12), 3=-25(LC 13)
 Max Grav 1=134(LC 1), 3=134(LC 1), 4=260(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 6) Non Standard bearing condition. Review required.

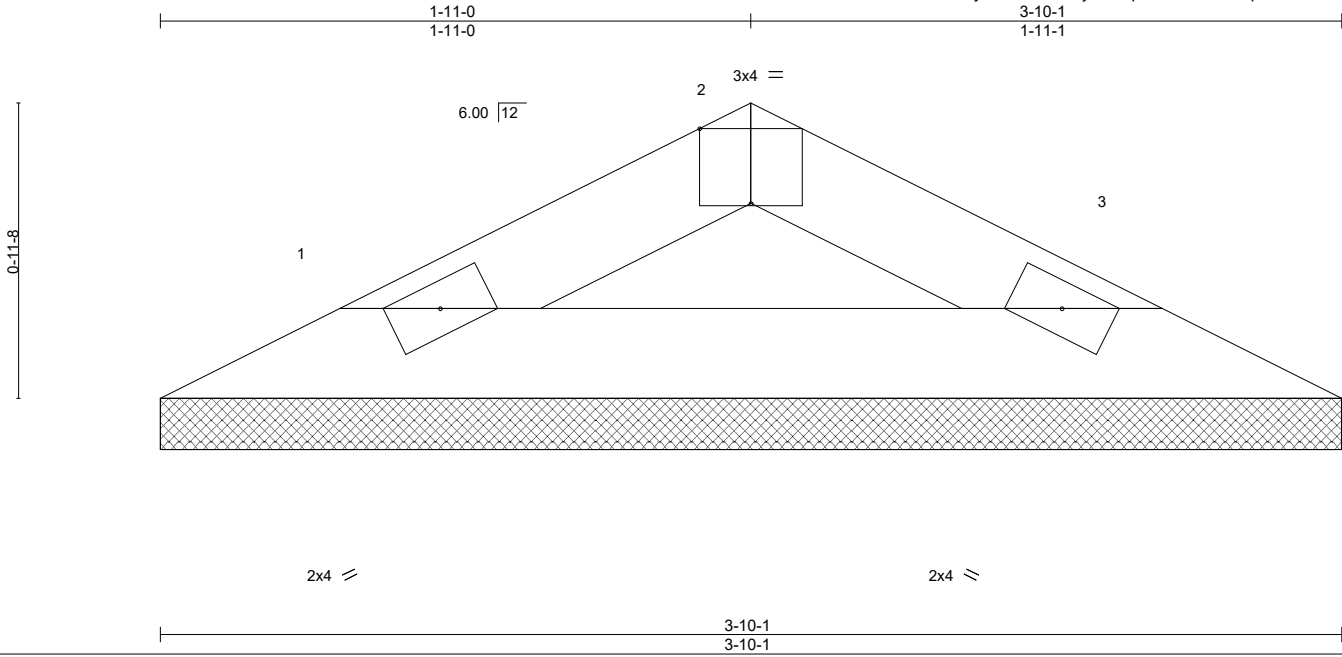


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| | | | | | | |
|------------|-------|------------|-----|-----|--------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Weaver | E14840247 |
| J0520-1989 | VP4 | VALLEY | 1 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Wed Sep 9 08:20:20 2020 Page 1
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Scale = 1:7.5

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

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-10-1, 3=3-10-1
 Max Horz 1=-8(LC 8)
 Max Uplift 1=-6(LC 12), 3=-6(LC 13)
 Max Grav 1=104(LC 1), 3=104(LC 1)

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

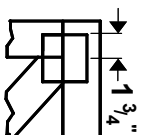
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - Non Standard bearing condition. Review required.



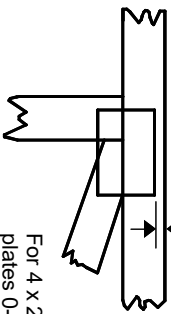
September 9,2020

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

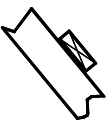
* Plate location details available in **MITtek 2020 software** or upon request.

PLATE SIZE

4 X 4

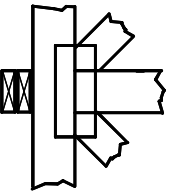
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



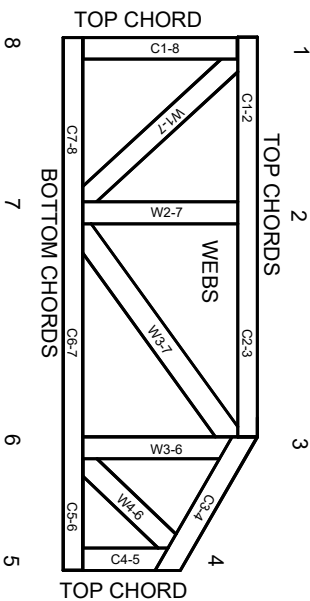
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR 1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

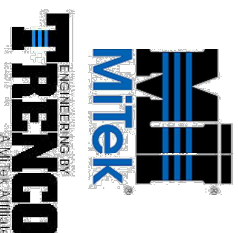
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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative for l bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



MITtek Engineering Reference Sheet: MIT-7473 rev. 5/19/2020