

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0421-2290
Stout/Lot 17 Forest Ridge/Harnett

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: E15666779 thru E15666799

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



April 28, 2021

Gilbert, Eric

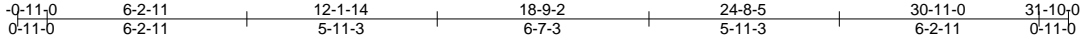
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666779 |
| J0421-2290 | A01 | PIGGYBACK BASE | 4 | 1 | Job Reference (optional) | |

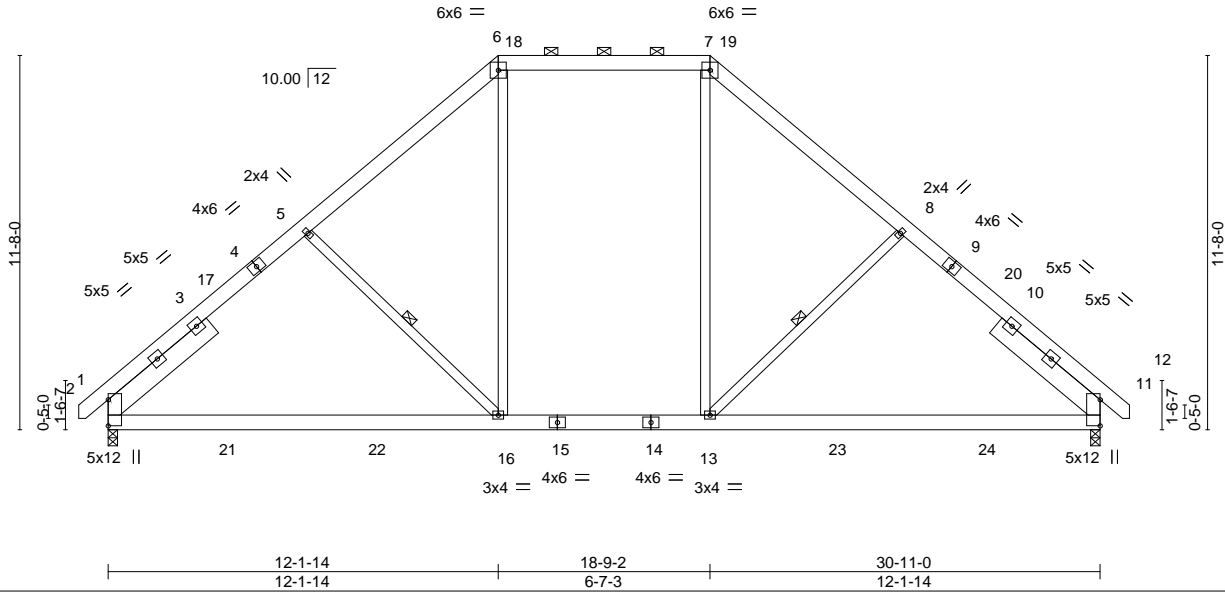
Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:71.8



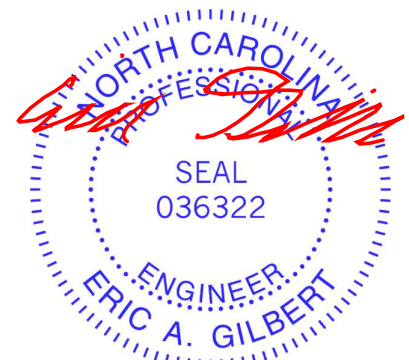
| | | | | | |
|----------------------|----------------------|-------------|------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.19 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.65 | Vert(LL) -0.29 2-16 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.15 | Vert(CT) -0.44 2-16 >850 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.03 11 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.19 2-16 >999 240 | | |
| | | | | Weight: 251 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 2-0-0 oc purlins (6-0-0 max.): 6-7. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 | WEBS 1 Row at midpt 5-16, 8-13 |
| SLIDER Left 2x8 SP No.1 - 4-3-7, Right 2x8 SP No.1 -x 4-3-7 | |

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=-267(LC 8)
 Max Uplift 2=-52(LC 12), 11=-52(LC 13)
 Max Grav 2=1486(LC 19), 11=1486(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-1649/413, 5-6=-1429/436, 6-7=-1033/408, 7-8=-1429/436, 8-11=-1649/413
 BOT CHORD 2-16=-183/1268, 13-16=-14/1079, 11-13=-162/1122
 WEBS 5-16=-347/270, 6-16=-69/560, 7-13=-69/560, 8-13=-347/270

- 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) -0-9-11 to 3-7-2, Interior(1) 3-7-2 to 12-1-14, Exterior(2) 12-1-14 to 18-4-9, Interior(1) 18-4-9 to 18-9-2, Exterior(2) 18-9-2 to 24-10-5, Interior(1) 24-10-5 to 31-8-11 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.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2 and 52 lb uplift at joint 11.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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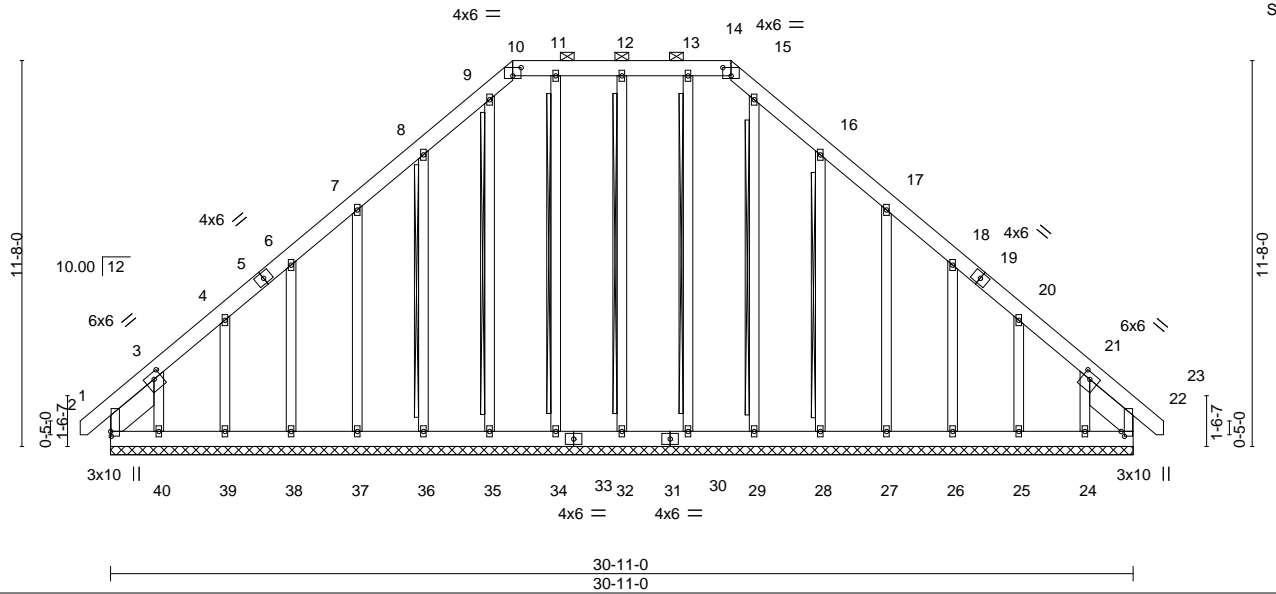
| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666780 |
| J0421-2290 | A01GE | GABLE | 1 | 1 | Job Reference (optional) | |

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ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-LceOQYIVo_V8eHpeEjOhPbtMBK15WxiD8MVStPzMU?0

-0-11-0 12-1-14 18-9-2 30-11-0 31-10-0
 0-11-0 12-1-14 6-7-3 12-1-14 0-11-0



Scale = 1:69.7

Plate Offsets (X,Y)-- [2:0-1-12,0-0-3], [3:0-2-12,0-2-4], [10:0-3-0,0-3-0], [14:0-3-0,0-3-0], [21:0-2-12,0-2-4], [22:0-1-12,0-1-3]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.06 | Vert(LL) -0.00 | 22 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.03 | Vert(CT) -0.00 | 22 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.14 | Horz(CT) 0.01 | 22 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 336 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x8 SP No.1 -x 2-0-3, Right 2x8 SP No.1 -x 2-0-3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-14.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 12-32, 11-34, 9-35, 8-36, 13-30, 15-29, 16-28
 WEBS Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS.

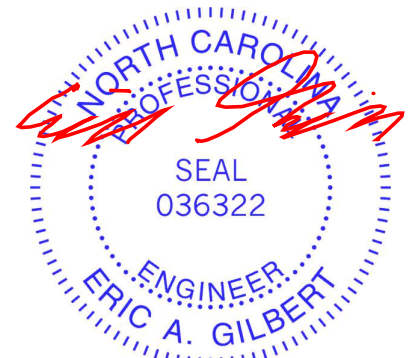
All bearings 30-11-0.
 (lb) - Max Horz 2--333(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 34, 35, 30 except 22--116(LC 11), 36--120(LC 12), 37--115(LC 12), 38--107(LC 12), 39--123(LC 12), 40--299(LC 12), 28--121(LC 13), 27--116(LC 13), 26--108(LC 13), 25--121(LC 13), 2--234(LC 10), 24--266(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 32, 34, 35, 36, 37, 38, 39, 30, 29, 28, 27, 26, 25, 24 except 22--314(LC 13), 40--255(LC 10), 2--394(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3--511/355, 3-4--271/232, 8-9--255/273, 9-10--234/254, 14-15--234/254, 15-16--255/270, 21-22--417/262, 10-11--233/261, 11-12--233/261, 12-13--233/261, 13-14--233/261
 BOT CHORD 2-40--188/273, 39-40--188/273, 38-39--188/273, 37-38--188/273, 36-37--188/273, 35-36--188/273, 34-35--188/273, 32-34--188/273, 30-32--188/273, 29-30--188/273, 28-29--188/273, 27-28--188/273, 26-27--188/273, 25-26--188/273, 24-25--188/273, 22-24--188/273
 WEBS 3-40--247/297, 21-24--245/266

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; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2x4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide



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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 | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666780 |
| J0421-2290 | A01GE | GABLE | 1 | 1 | Job Reference (optional) | |

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NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 34, 35, 30 except (jt=lb) 22=116, 36=120, 37=115, 38=107, 39=123, 40=299, 28=121, 27=116, 26=108, 25=121, 2=234, 24=266.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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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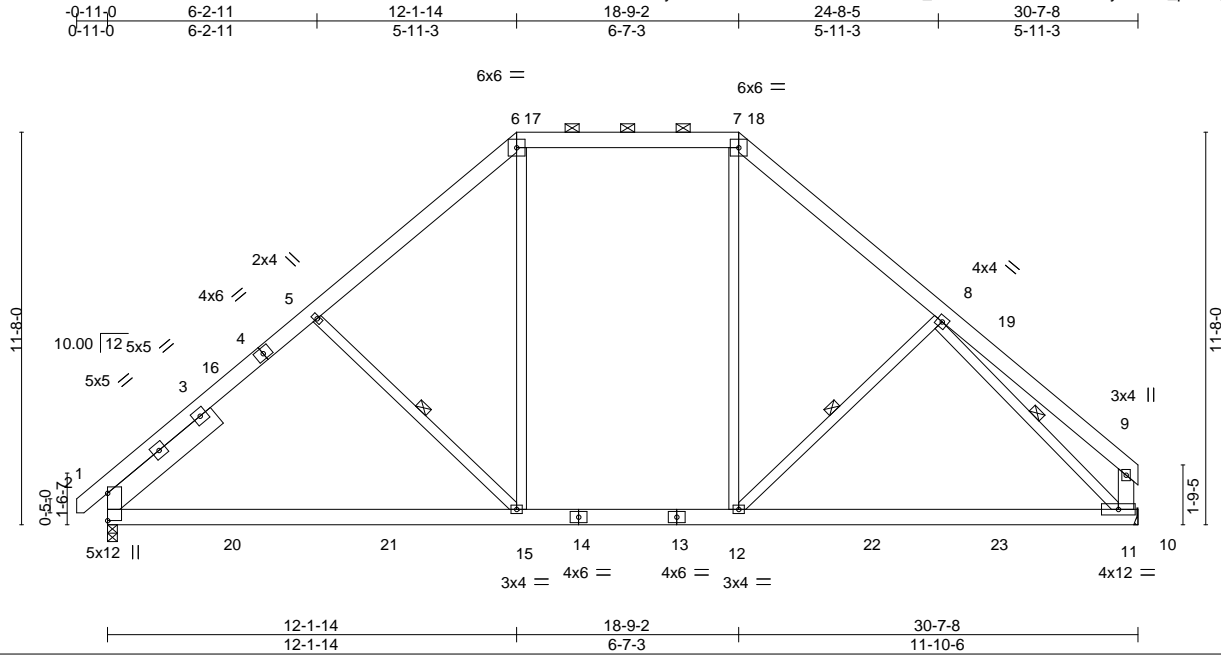
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 Edenton, NC 27932

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|------------|-------|----------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666781 |
| J0421-2290 | A02 | PIGGYBACK BASE | 7 | 1 | Job Reference (optional) | |

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| | | | | | | | | | |
|----------------------|----------------------|-------------|----------------|------|-------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.35 | Vert(LL) -0.33 | 2-15 | >999 | 360 | | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.67 | Vert(CT) -0.50 | 2-15 | >726 | 240 | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.31 | Horz(CT) 0.03 | 11 | n/a | n/a | | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.19 | 2-15 | >999 | 240 | | Weight: 248 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.): 6-7. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* | WEBS 1 Row at midpt 5-15, 8-12, 8-11 |
| 9-11: 2x6 SP No.1 | |
| SLIDER Left 2x8 SP No.1 -x 4-3-7 | |

REACTIONS. (size) 2=0-3-8, 11=Mechanical
 Max Horz 2=283(LC 9)
 Max Uplift 2=-52(LC 12), 11=-33(LC 13)
 Max Grav 2=1453(LC 19), 11=1390(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-1593/405, 5-6=-1372/428, 6-7=-981/402, 7-8=-1362/431, 8-9=-640/106, 9-11=-510/107
 BOT CHORD 2-15=-247/1236, 12-15=-53/1030, 11-12=-206/1023
 WEBS 5-15=-361/271, 6-15=-64/553, 7-12=-68/493, 8-12=-289/251, 8-11=-1049/339

- 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) 0-9-11 to 3-7-2, Interior(1) 3-7-2 to 12-1-14, Exterior(2) 12-1-14 to 18-4-9, Interior(1) 18-4-9 to 18-9-2, Exterior(2) 18-9-2 to 24-10-5, Interior(1) 24-10-5 to 30-3-4 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
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



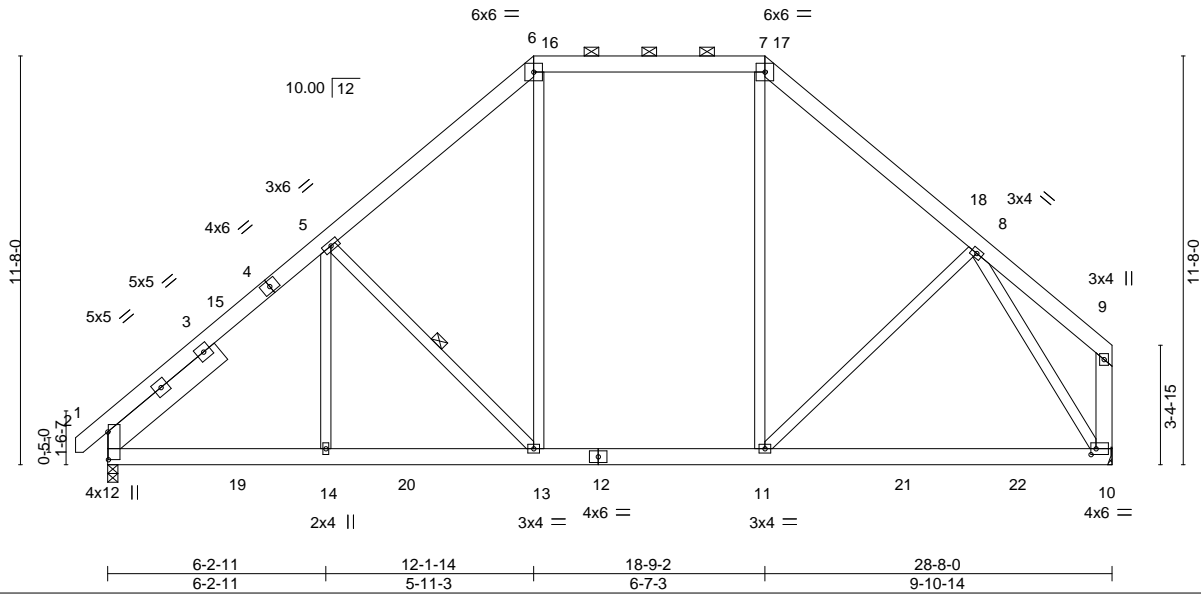
April 28, 2021

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|------------|-------|----------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666782 |
| J0421-2290 | A03 | PIGGYBACK BASE | 8 | 1 | Job Reference (optional) | |

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ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-ENtvGvo?sC?a7v7PTZTdaR1_UxHFSYWp3_Tg?AzMU_y



Scale = 1:65.8

Plate Offsets (X,Y)-- [2:0-9-8,0-0-3], [10:0-1-12,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.30 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.53 | Vert(LL) -0.15 13-14 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.99 | Vert(CT) -0.22 13-14 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.02 10 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.16 13-14 >999 240 | Weight: 248 lb | FT = 20% |

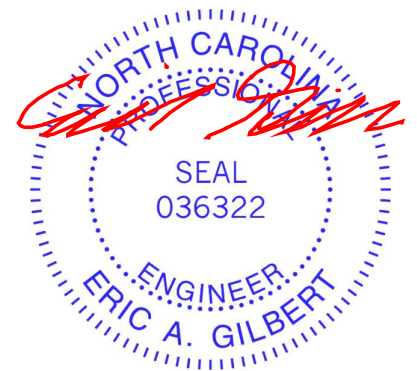
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 9-10: 2x6 SP No.1
 SLIDER Left 2x8 SP No.1 -x 4-3-3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-13

REACTIONS. (size) 2=0-3-8, 10=Mechanical
 Max Horz 2=303(LC 9)
 Max Uplift 2=-51(LC 12), 10=-28(LC 13)
 Max Grav 2=1374(LC 19), 10=1321(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-1654/341, 5-6=-1172/416, 6-7=-846/385, 7-8=-1183/388
 BOT CHORD 2-14=-294/1265, 13-14=-294/1265, 11-13=-115/895, 10-11=-199/676
 WEBS 5-13=-537/256, 6-13=-77/438, 7-11=-21/394, 8-11=-98/307, 8-10=-1206/357, 5-14=0/389

- 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) -0-9-11 to 3-7-2, Interior(1) 3-7-2 to 12-1-14, Exterior(2) 12-1-14 to 18-4-9, Interior(1) 18-4-9 to 18-9-2, Exterior(2) 18-9-2 to 24-10-5, Interior(1) 24-10-5 to 28-5-4 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
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666783 |
| J0421-2290 | A03GE | GABLE | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

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ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-687Q5HrWvRV0bWQAI0YZkHCg3ZjnORWO_cRu8xzMU_u

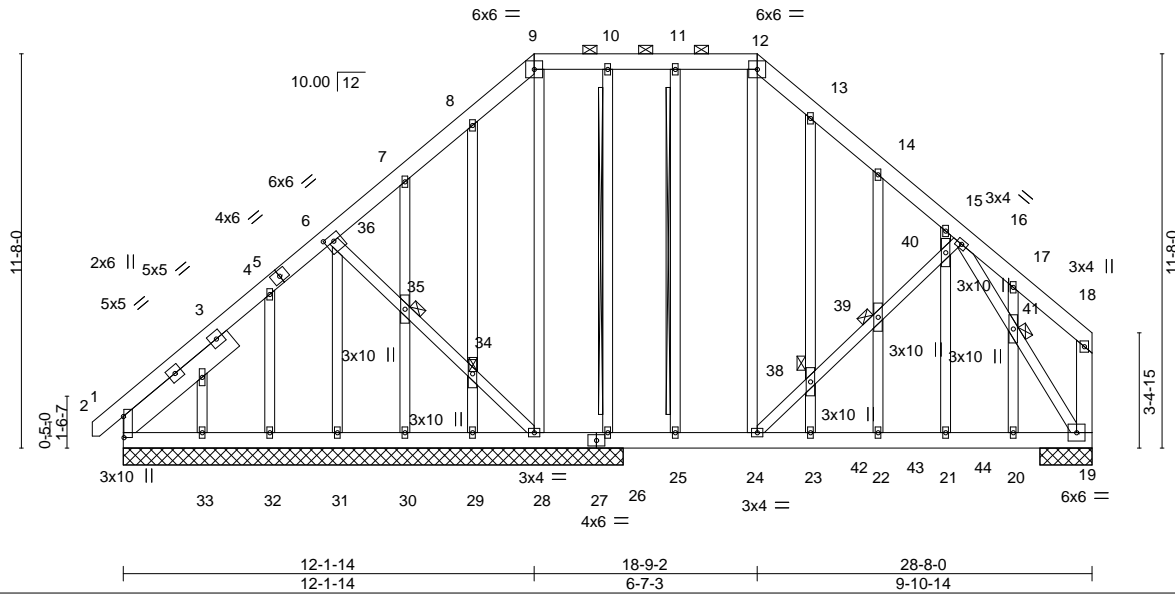


Plate Offsets (X,Y)-- [2:0-7-8,0-0-3], [6:0-3-0,0-2-4], [36:0-0-4,0-2-6]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.19 | Vert(LL) 0.07 | 22-23 | >999 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.24 | Vert(CT) -0.08 | 22-23 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.67 | Horz(CT) 0.01 | 19 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 354 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 18-19: 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x8 SP No.1 -x 4-3-7

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.): 9-12. Rigid ceiling directly applied or 10-0-0 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 10-26, 11-25
 WEBS Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.
 JOINTS 1 Brace at Jt(s): 34, 35, 38, 39, 41

REACTIONS. All bearings 14-9-8 except (jt=length) 19=1-6-8.
 (lb) - Max Horz 2=377(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 29, 31, 33 except 2=311(LC 4), 28=617(LC 20), 19=481(LC 9), 26=163(LC 4), 30=121(LC 8), 32=247(LC 27)
 Max Grav All reactions 250 lb or less at joint(s) 29, 30, 33 except 2=793(LC 34), 28=414(LC 9), 19=1148(LC 1), 26=478(LC 20), 31=267(LC 1), 32=266(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=959/474, 4-6=783/425, 6-7=862/495, 7-8=887/581, 8-9=807/596, 9-10=618/496, 10-11=617/496, 11-12=618/496, 12-13=733/544, 13-14=820/523, 14-15=860/444, 15-16=1056/536
 BOT CHORD 2-33=171/517, 32-33=171/517, 31-32=171/517, 30-31=171/517, 29-30=171/517, 28-29=171/517, 26-28=165/602, 25-26=165/602, 24-25=165/602, 23-24=296/638, 22-23=296/638, 21-22=296/638, 20-21=296/638, 19-20=296/638
 WEBS 9-28=307/405, 12-24=213/262, 16-41=1242/532, 19-41=1095/468, 4-32=237/285, 15-40=166/285, 21-40=151/267

- 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; end vertical right exposed; 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 2x4 MT20 unless otherwise indicated.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 31, 33 except (jt=lb) 2=311, 28=617, 19=481, 26=163, 30=121, 32=247.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666783 |
| J0421-2290 | A03GE | GABLE | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Apr 27 15:17:09 2021 Page 2
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-687Q5HrWvRV0bWQAiOYZkHCg3ZjnORWO_cRu8xzMU_u

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 55 lb up at 16-6-12, 45 lb down and 55 lb up at 18-6-12, 45 lb down and 55 lb up at 20-2-12, 45 lb down and 55 lb up at 21-8-4, and 45 lb down and 55 lb up at 23-4-4, and 45 lb down and 55 lb up at 25-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-60, 9-12=-60, 12-18=-60, 2-19=-20
Concentrated Loads (lb)
Vert: 24=-45(B) 25=-45(B) 23=-45(B) 42=-45(B) 43=-45(B) 44=-45(B)

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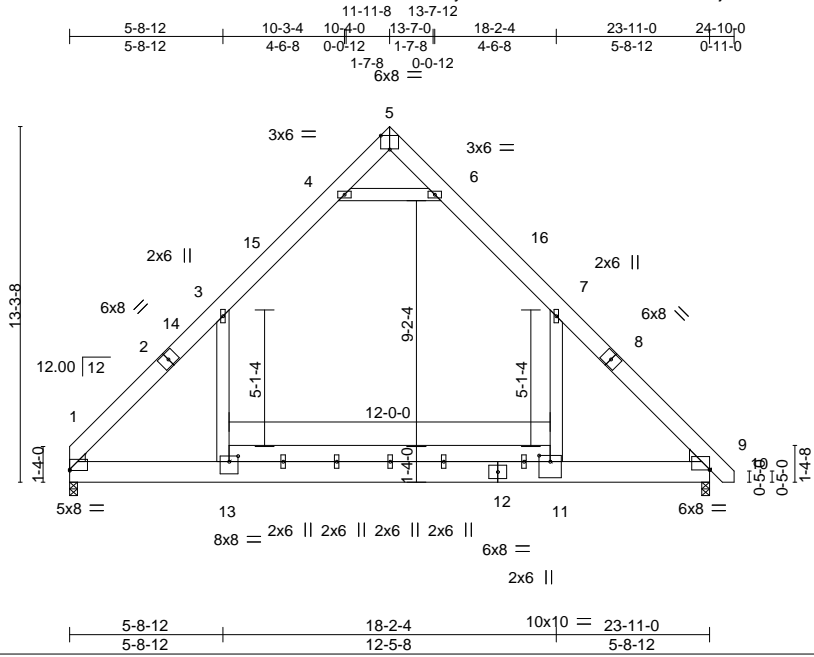
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666784 |
| J0421-2290 | B01 | ATTIC | 2 | 1 | Job Reference (optional) | |

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Scale = 1:86.1

Plate Offsets (X,Y)-- [1:0-0-0,0-0-8], [5:0-4-0,Edge], [9:0-0-0,0-0-4], [11:0-5-0,0-2-12], [13:0-4-0,0-2-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.91 | Vert(LL) -0.29 | 11-13 | >968 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.82 | Vert(CT) -0.51 | 11-13 | >552 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.14 | Horz(CT) 0.01 | 9 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.11 | 11-13 | >999 | 240 | | |
| | | | | | | | Weight: 279 lb | FT = 20% |

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x10 SP No.1 *Except*
 11-13: 2x8 SP No.1
 WEBS 2x6 SP No.1
 WEDGE
 Left: 2x4 SP No.3, Right: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-4-10 oc bracing.

REACTIONS.

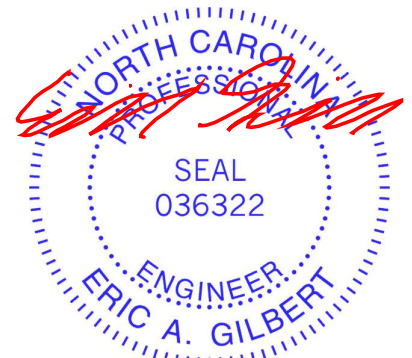
(size) 1=0-3-8, 9=0-3-8
 Max Horz 1=302(LC 8)
 Max Grav 1=1541(LC 21), 9=1577(LC 21)

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

TOP CHORD 1-3=-2031/0, 3-4=-1103/167, 4-5=-43/677, 5-6=-48/681, 6-7=-1098/163, 7-9=-2059/0
 BOT CHORD 1-13=0/1150, 11-13=0/1150, 9-11=0/1150
 WEBS 4-6=-1960/287, 3-13=0/984, 7-11=0/1026

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 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 24-7-6 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.



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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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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



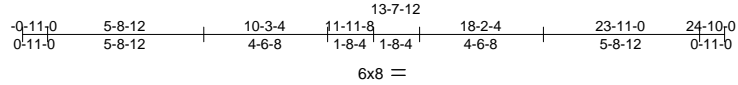
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666785 |
| J0421-2290 | B01GE | GABLE | 1 | 1 | Job Reference (optional) | |

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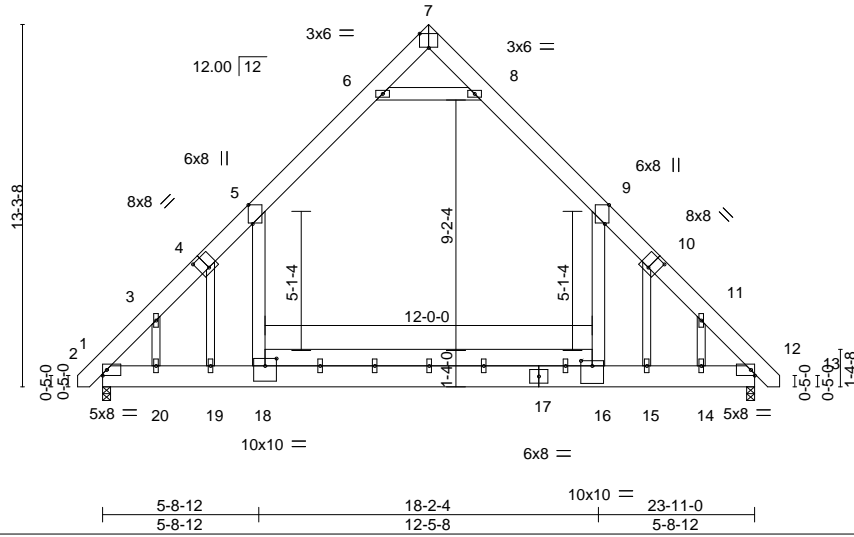


Plate Offsets (X,Y)-- [4:0-4-0,0-6-0], [5:0-8-6,Edge], [7:0-4-0,Edge], [9:0-8-6,Edge], [10:0-4-0,0-6-0], [16:0-5-0,0-2-4], [18:0-5-0,0-3-4]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.94 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.74 | Vert(LL) -0.25 16-18 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.25 | Vert(CT) -0.44 16-18 >647 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 12 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.13 16-18 >999 240 | Weight: 297 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x8 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins. |
| BOT CHORD 2x10 SP No.1 *Except* 16-18: 2x8 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x6 SP No.1 | |
| OTHERS 2x4 SP No.2 | |

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=-379(LC 10)
 Max Grav 2=1570(LC 20), 12=1570(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1976/0, 3-4=-1733/0, 4-5=-2220/29, 5-6=-1109/203, 6-7=-64/622, 7-8=-65/622,
 8-9=-1109/203, 9-10=-2219/28, 10-11=-1733/0, 11-12=-1975/0
 BOT CHORD 2-20=0/1231, 19-20=0/1236, 18-19=0/1178, 16-18=0/1178, 15-16=0/1178, 14-15=0/1232,
 12-14=0/1225
 WEBS 6-8=-1854/382, 5-18=0/1471, 9-16=0/1471, 4-19=-901/146, 10-15=-901/146

- 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 Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x6 MT20 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-8; Wall dead load (5.0psf) on member(s).5-18, 9-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18
 - Attic room checked for L/360 deflection.



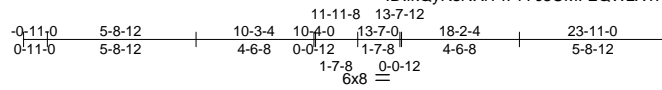
April 28, 2021

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666786 |
| J0421-2290 | B02 | ATTIC | 5 | 1 | Job Reference (optional) | |

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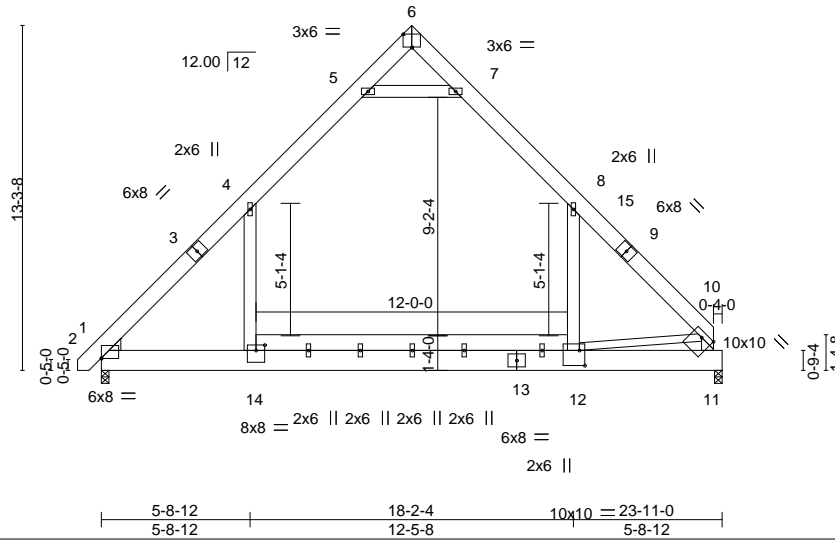


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [6:0-4-0,Edge], [11:0-1-15,0-1-15], [12:0-2-8,0-7-0], [14:0-4-0,0-2-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.90 | Vert(LL) -0.29 | 12-14 | >971 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.82 | Vert(CT) -0.50 | 12-14 | >557 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.16 | Horz(CT) 0.01 | 11 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.11 | 12-14 | >999 | 240 | | |
| | | | | | | | Weight: 285 lb | FT = 20% |

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x10 SP No.1 *Except*
 12-14: 2x8 SP No.1
 WEBS 2x6 SP No.1 *Except*
 10-12: 2x4 SP No.2

WEDGE
 Left: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=316(LC 9)
 Max Grav 2=1550(LC 20), 11=1542(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1994/0, 4-5=-1065/173, 5-6=-50/656, 6-7=-49/635, 7-8=-1082/173, 8-10=-1844/0,
 10-11=-1667/0
 BOT CHORD 2-14=0/1107, 12-14=0/1107, 11-12=-93/431
 WEBS 5-7=-1875/296, 4-14=0/992, 8-12=0/846, 10-12=-3/777

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) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 11-11-8, Exterior(2) 11-11-8 to 18-2-4, Interior(1) 18-2-4 to 23-4-4 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s). 4-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Attic room checked for L/360 deflection.



April 28, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666787 |
| J0421-2290 | C01 | COMMON | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

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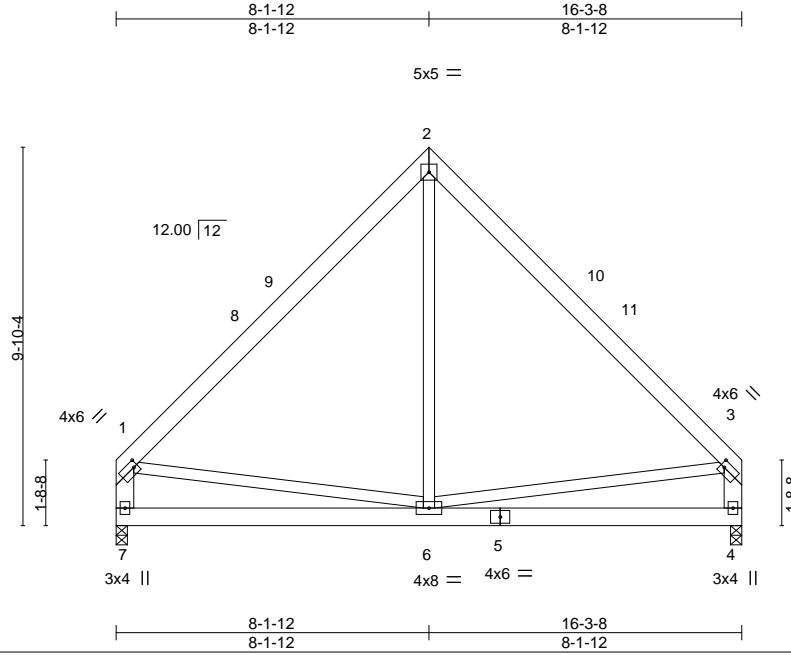


Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [3:0-1-4,0-2-0]

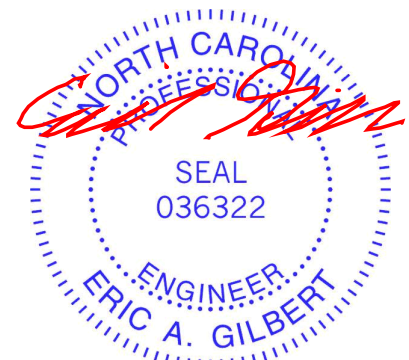
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.29 | Vert(LL) | -0.02 | 6-7 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.18 | Vert(CT) | -0.04 | 6-7 | >999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.12 | Horz(CT) | 0.00 | 4 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) | 0.00 | 6 | >999 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 135 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. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 1-7,3-4: 2x6 SP No.1 | |

REACTIONS. (size) 4=0-3-8, 7=0-3-8
 Max Horz 7=238(LC 9)
 Max Uplift 4=-27(LC 12), 7=-27(LC 13)
 Max Grav 4=633(LC 1), 7=633(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-597/185, 2-3=-597/185, 1-7=-562/196, 3-4=-562/196
 BOT CHORD 6-7=-280/369, 4-6=-152/262
 WEBS 2-6=0/315, 1-6=-106/254, 3-6=-112/260

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) 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) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-1-12, Exterior(2) 8-1-12 to 12-6-9, Interior(1) 12-6-9 to 16-0-12 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7.



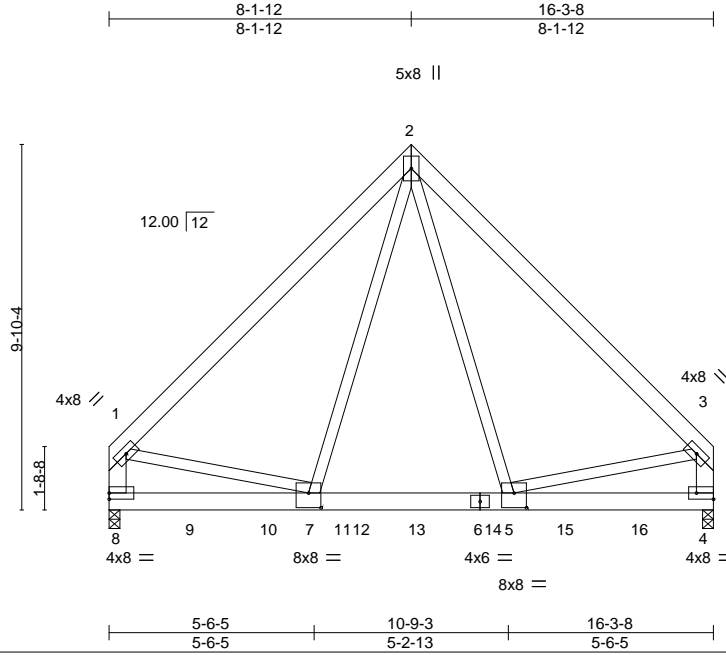
April 28, 2021

| | | | | | | |
|------------|-------|---------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666788 |
| J0421-2290 | C01GR | COMMON GIRDER | 1 | 2 | Job Reference (optional) | |

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ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-IGHaP2zQKpuSQcmHsCE8hc9Yq_JqTTU0Wpbz1ozMU_j



Scale = 1:62.1

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

| 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) -0.06 | 5-7 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.85 | Vert(CT) -0.11 | 5-7 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.40 | Horz(CT) 0.01 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.03 | 5-7 | >999 | 240 | | |
| | | | | | | | Weight: 283 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-8,3-4: 2x6 SP No.1

BRACING-

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

REACTIONS.

(size) 8=0-3-8, 4=0-3-8
 Max Horz 8=-238(LC 25)
 Max Uplift 8=-168(LC 9), 4=-170(LC 8)
 Max Grav 8=5109(LC 2), 4=5167(LC 2)

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

TOP CHORD 1-2=-4747/232, 2-3=-4726/232, 1-8=-4159/167, 3-4=-4136/167
 BOT CHORD 7-8=-310/751, 5-7=-105/2367, 4-5=-135/623
 WEBS 2-5=-98/3167, 2-7=-99/3221, 1-7=-169/2772, 3-5=-172/2739

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: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=168, 4=170.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1301 lb down and 48 lb up at 2-2-12, 1301 lb down and 48 lb up at 4-2-12, 1289 lb down and 48 lb up at 6-2-12, 1256 lb down and 48 lb up at 8-2-12, 1293 lb down and 48 lb up at 10-2-12, and 1301 lb down and 48 lb up at 12-2-12, and 1301 lb down and 48 lb up at 14-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 4-8=-20



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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.

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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 | Stout/Lot 17 Forest Ridge/Harnett | E15666788 |
| J0421-2290 | C01GR | COMMON GIRDER | 1 | 2 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Apr 27 15:17:20 2021 Page 2
 ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-IGHaP2zQKpuSQcmHsCE8hc9Yq_JqTTU0Wpbz1ozMU_j

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 6=-1117(B) 9=-1117(B) 10=-1117(B) 11=-1117(B) 13=-1117(B) 15=-1117(B) 16=-1117(B)

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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| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666789 |
| J0421-2290 | C01SG | GABLE | 1 | 1 | Job Reference (optional) | |

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ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-irzi130lckG1HgVsXLorEn5gCXMguASCnqde7zMU_g

0-10-8 8-1-12 16-3-8 17-2-0
0-10-8 8-1-12 8-1-12 0-10-8

5x5 =

Scale = 1:62.4

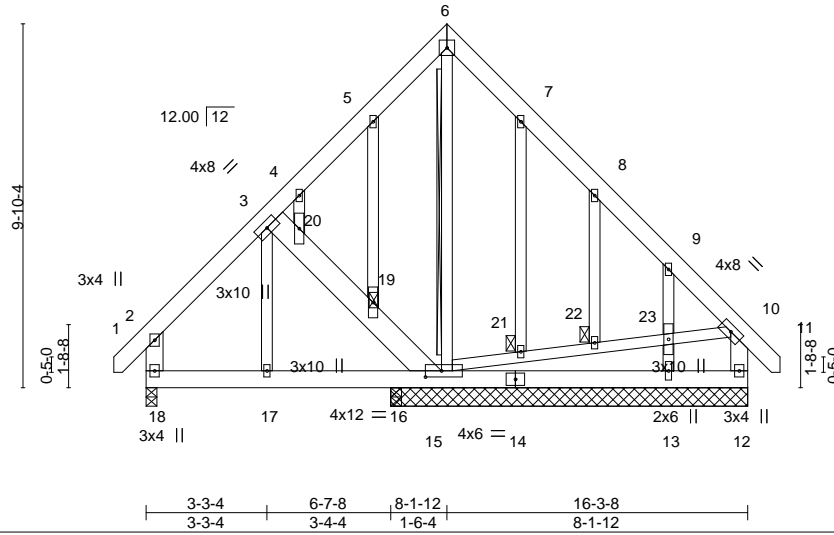


Plate Offsets (X,Y)-- [15:0-5-4,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.12 | Vert(LL) -0.01 | 13-15 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.09 | Vert(CT) -0.01 | 13-15 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.14 | Horz(CT) 0.00 | 12 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.00 | 17 | >999 | 240 | | |
| | | | | | | | Weight: 182 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-18,10-12: 2x6 SP No.1, 3-15: 2x8 SP No.1
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 6-15
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 19, 21, 22

REACTIONS.

All bearings 9-8-0 except (jt=length) 18=0-3-8, 16=0-3-8, 16=0-3-8.
(lb) - Max Horz 18=-328(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 18, 16 except 12=-166(LC 11), 15=-109(LC 12), 13=-373(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 16, 16 except 15=584(LC 1), 18=312(LC 1), 13=523(LC 20)

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

TOP CHORD 9-10=-280/243, 2-18=-256/152
BOT CHORD 17-18=-225/293, 16-17=-225/292, 15-16=-225/292
WEBS 6-15=-302/0, 3-20=-269/225, 19-20=-288/224, 15-19=-350/288, 9-23=-434/363, 13-23=-522/443

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 Exterior(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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 16 except (jt=lb) 12=166, 15=109, 13=373.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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| | | | | | | |
|------------|-------|----------------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666790 |
| J0421-2290 | D01GE | COMMON SUPPORTED GAB | 1 | 1 | Job Reference (optional) | |

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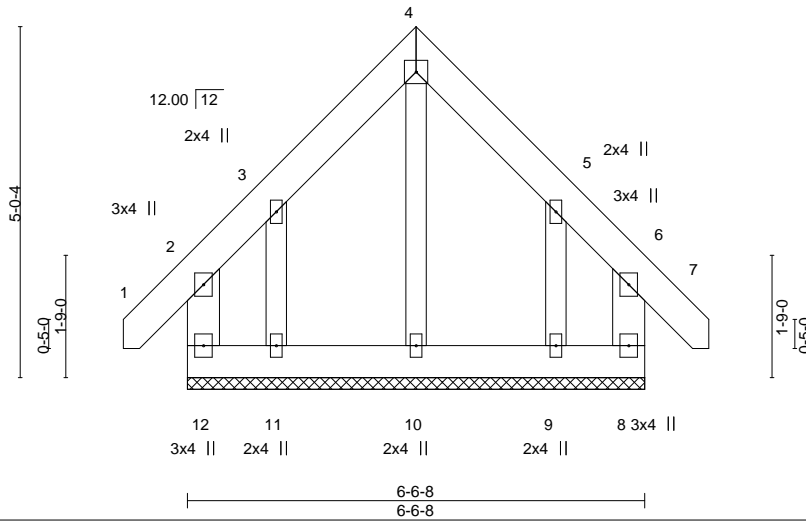
8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Apr 27 15:17:24 2021 Page 1

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4x4 =

Scale = 1:33.0



| | | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------|-------|--------|-----|---------------|-------------|
| 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 0.04 | Vert(LL) | -0.00 | 6 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.04 | Vert(CT) | -0.00 | 6 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.04 | Horz(CT) | -0.00 | 8 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-R | | | | | | Weight: 61 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1
 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 6-6-8.
 (lb) - Max Horz 12=-185(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 12=-141(LC 8), 8=-127(LC 9), 11=-160(LC 9), 9=-151(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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) gable end zone and C-C Exterior(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
- 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.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 12, 127 lb uplift at joint 8, 160 lb uplift at joint 11 and 151 lb uplift at joint 9.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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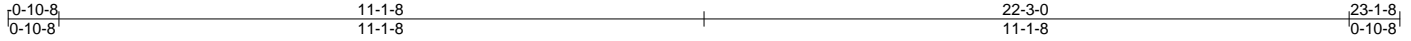
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666791 |
| J0421-2290 | G1-GE | GABLE | 1 | 1 | Job Reference (optional) | |

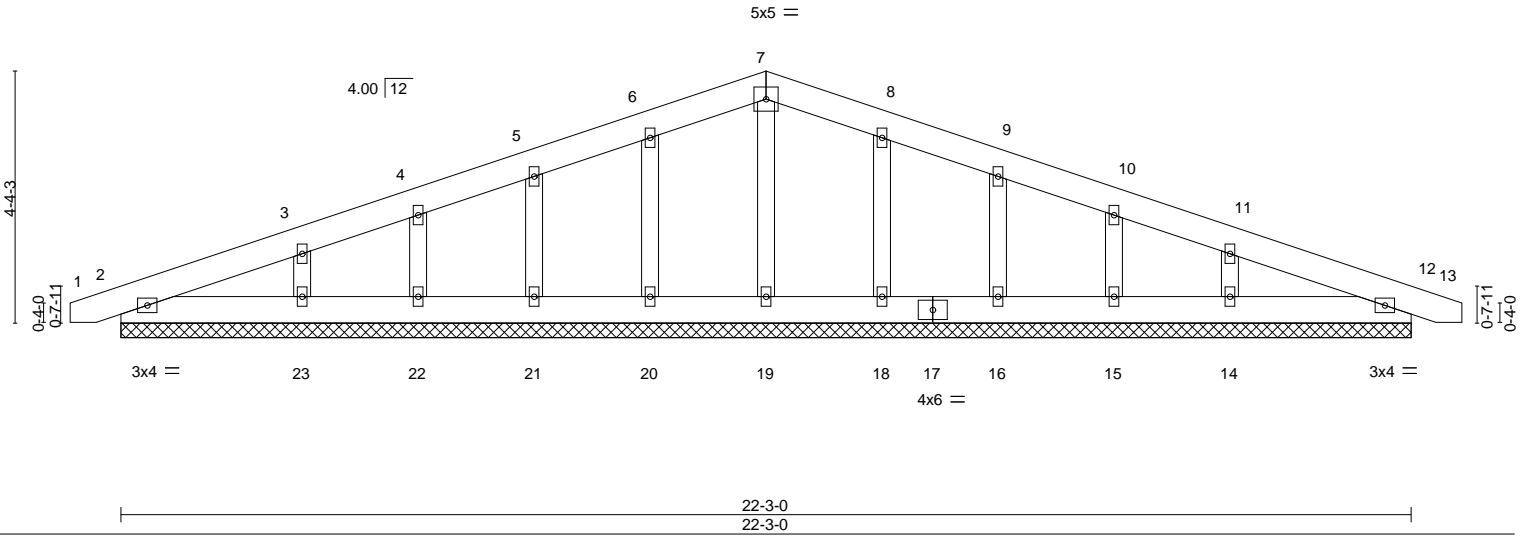
Comtech, Inc., Fayetteville, NC - 28314,

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Scale = 1:39.7



| | | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|------|-------|--------|-----|----------------|-------------|
| 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 0.03 | Vert(LL) | 0.00 | 12 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.02 | Vert(CT) | 0.00 | 12 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 138 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 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 22-3-0.
 (lb) - Max Horz 2=-79(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 20, 21, 22, 23, 18, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 12, 2, 19, 20, 21, 22, 23, 18, 16, 15, 14

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 20, 21, 22, 23, 18, 16, 15, 14.



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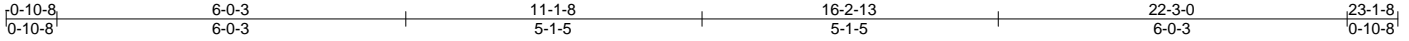
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| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666792 |
| J0421-2290 | G2 | COMMON | 5 | 1 | Job Reference (optional) | |

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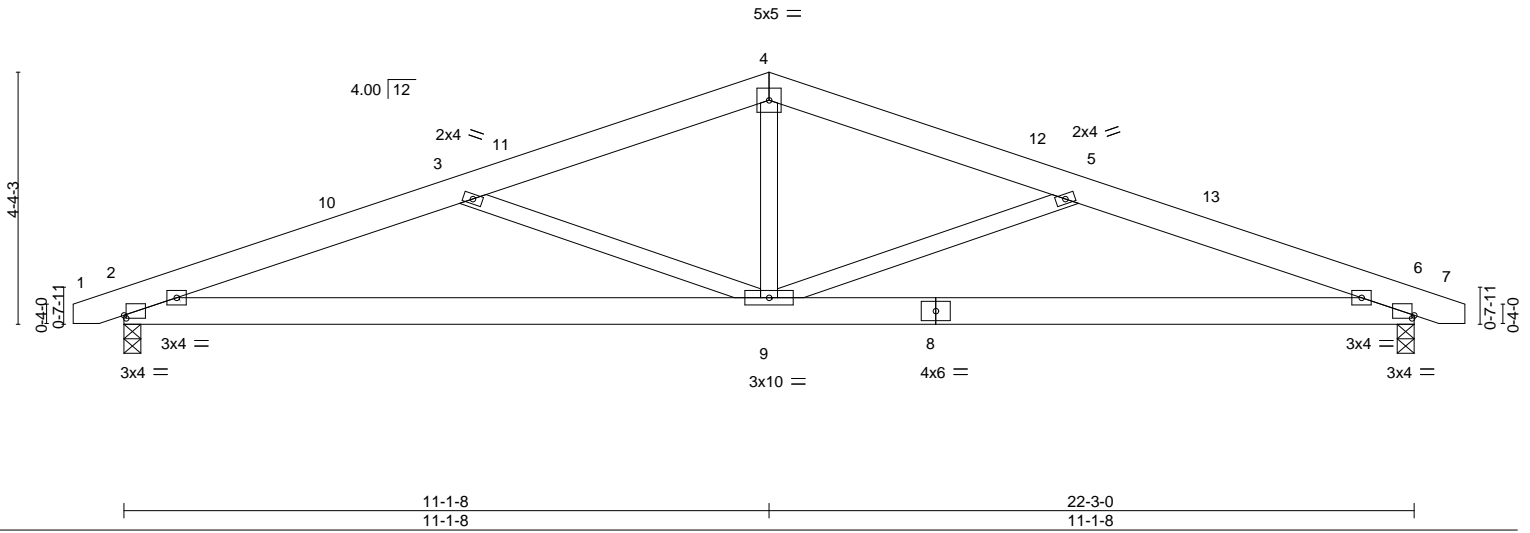


Plate Offsets (X,Y)-- [2:0-0-7,0-0-10], [6:0-0-7,0-0-10]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.17 | Vert(LL) -0.08 | 6-9 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.45 | Vert(CT) -0.18 | 6-9 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.26 | Horz(CT) 0.03 | 6 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.04 | 9 | >999 | 240 | | |
| | | | | | | | Weight: 133 lb | FT = 20% |

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 5-6-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
 Max Horz 2=-47(LC 13)
 Max Uplift 6=-98(LC 9), 2=-98(LC 8)
 Max Grav 6=926(LC 1), 2=926(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1887/501, 3-4=-1449/332, 4-5=-1449/332, 5-6=-1887/501
 BOT CHORD 2-9=-419/1733, 6-9=-420/1733
 WEBS 4-9=-33/612, 5-9=-474/266, 3-9=-474/266

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-5 to 3-9-8, Interior(1) 3-9-8 to 11-2-0, Exterior(2) 11-2-0 to 15-6-13, Interior(1) 15-6-13 to 22-11-5 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



April 28, 2021

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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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



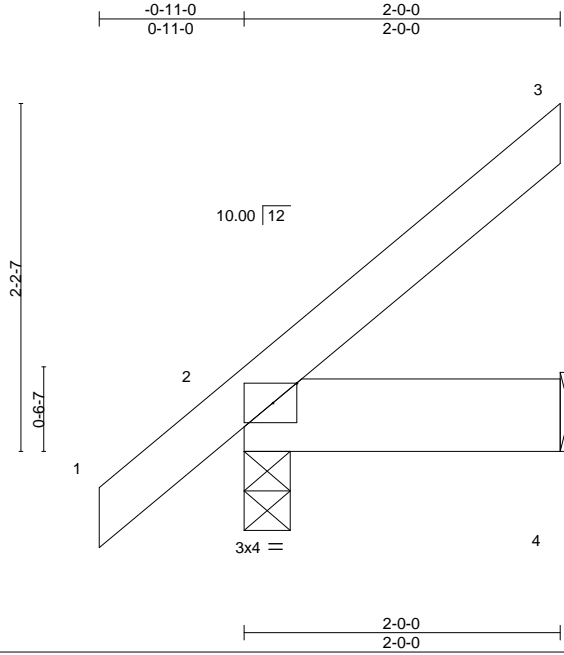
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666793 |
| J0421-2290 | J02 | JACK-OPEN | 8 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Apr 27 15:17:29 2021 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-X_K_I743Ca1A?by0tbvFYV14Pdaa4etLajHxsnzMU_a



SUPPORT END BY OTHERS.

Scale = 1:14.6

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

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|-----------------|-----------------|----------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.30 | Vert(LL) | -0.00 | 2 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.10 | Vert(CT) | -0.00 | 2-4 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL 10.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | Weight: 11 lb | FT = 20% |

LUMBER-

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

BRACING-

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

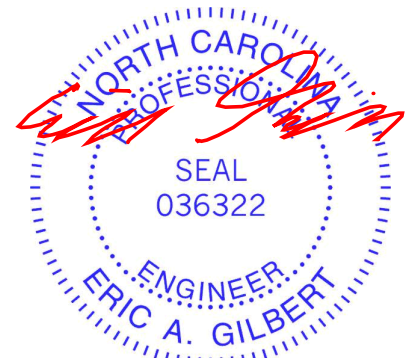
REACTIONS.

(size) 2=0-3-8, 4=Mechanical
Max Horz 2=93(LC 9)
Max Uplift 2=-18(LC 9), 4=-35(LC 9)
Max Grav 2=149(LC 1), 4=66(LC 19)

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

NOTES-

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



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666794 |
| J0421-2290 | M01 | MONOPITCH | 15 | 1 | Job Reference (optional) | |

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ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-X_K_I743Ca1A?by0tbvFYV10wdV14TyLajHxsnzMU_a



Scale = 1:24.3

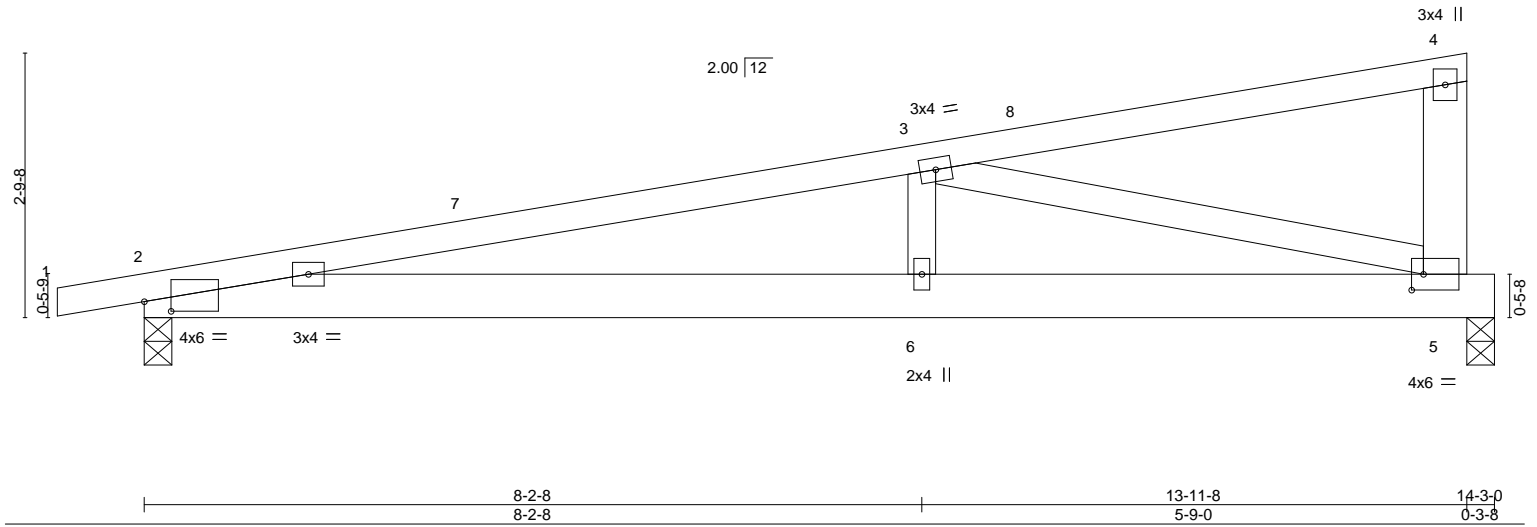


Plate Offsets (X,Y)-- [2:0-3-6,0-1-4], [5:0-1-8,0-2-0]

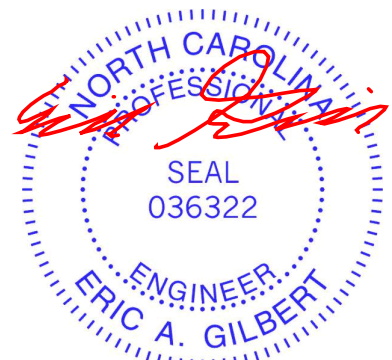
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.52 | Vert(LL) -0.07 | 2-6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.39 | Vert(CT) -0.15 | 2-6 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.76 | Horz(CT) 0.02 | 5 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) 0.15 | 2-6 | >999 | 240 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 70 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 6-1-3 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 4-5: 2x6 SP No.1 | |

REACTIONS. (size) 5=0-3-8, 2=0-3-8
Max Horz 2=81(LC 8)
Max Uplift 5=-215(LC 8), 2=-243(LC 8)
Max Grav 5=541(LC 1), 2=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1485/1380
BOT CHORD 2-6=-1426/1420, 5-6=-1426/1420
WEBS 3-6=-383/311, 3-5=-1420/1417

- 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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 13-8-12 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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=215, 2=243.



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| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666795 |
| J0421-2290 | M01GE | GABLE | 1 | 1 | Job Reference (optional) | |

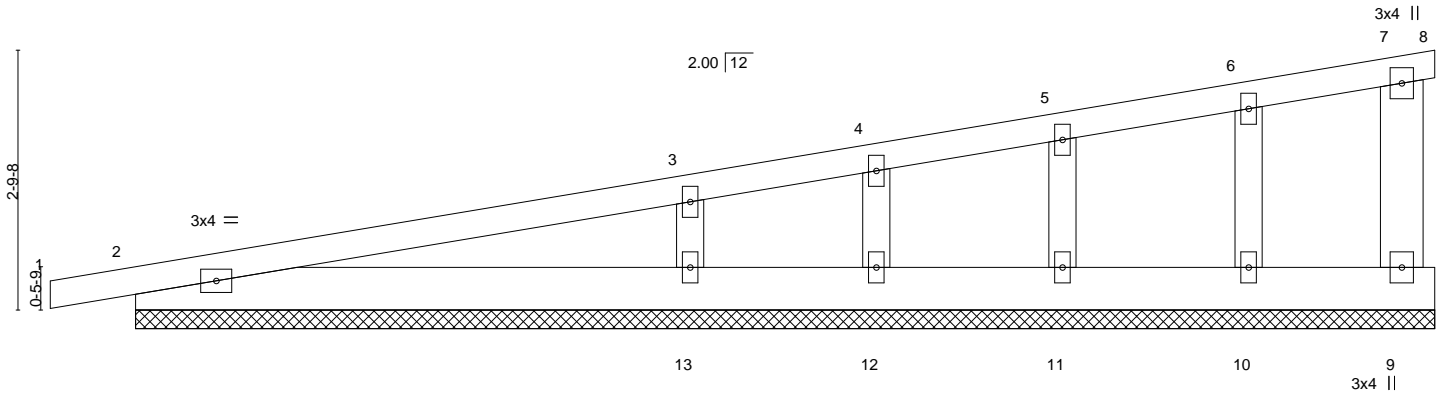
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Apr 27 15:17:30 2021 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-?BuMVS5hzu91dIXCRJQU4jaFk0wop5TUpN0VODzMU_Z
13-11-8
13-11-8

-0-11-0
0-11-0

Scale = 1:24.8



| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|---------------|-------------|
| 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 0.26 | Vert(LL) | -0.00 | 1 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.10 | Vert(CT) | 0.01 | 1 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.04 | Horz(CT) | -0.00 | 8 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 67 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1
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 13-11-8.
(lb) - Max Horz 2=117(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 2, 10, 11, 12 except 13=154(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 8, 9, 10, 11, 12 except 2=253(LC 1), 13=513(LC 1)

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

WEBS 3-13=330/242

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) gable end zone and C-C Exterior(2) 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 2, 10, 11, 12 except (jt=lb) 13=154.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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Edenton, NC 27932

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|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666796 |
| J0421-2290 | M02GE | GABLE | 1 | 1 | Job Reference (optional) | |

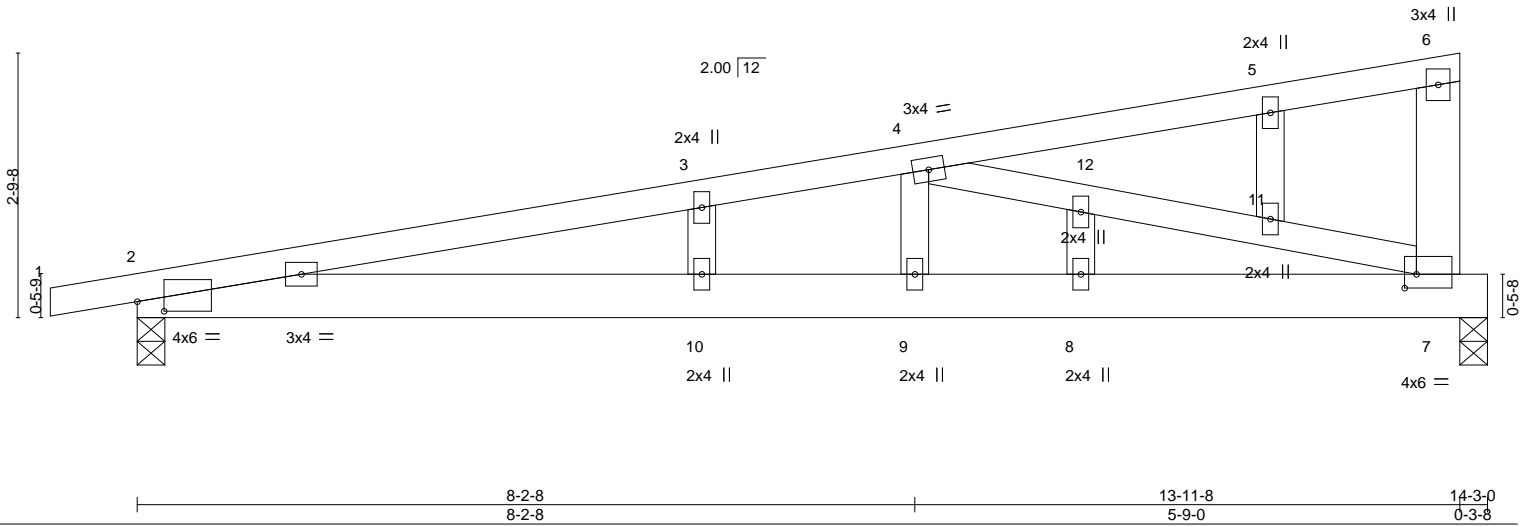
Comtech, Inc., Fayetteville, NC - 28314,

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Scale = 1:24.3



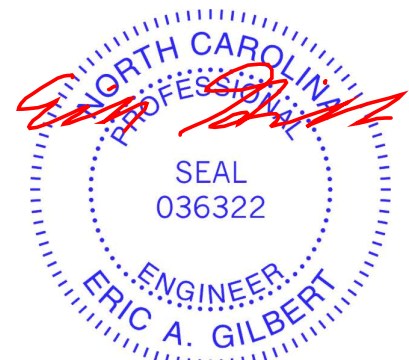
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|------------------------------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.39 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.44 | Vert(LL) 0.19 2-10 >862 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.93 | Vert(CT) -0.18 2-10 >919 240 | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Horz(CT) -0.02 7 n/a n/a | Weight: 74 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 5-7-11 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 6-7: 2x6 SP No.1 | |
| OTHERS 2x4 SP No.2 | |

REACTIONS. (size) 7=0-3-8, 2=0-3-8
 Max Horz 2=115(LC 8)
 Max Uplift 7=-314(LC 8), 2=-352(LC 8)
 Max Grav 7=541(LC 1), 2=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1439/1554, 3-4=-1409/1579
 BOT CHORD 2-10=-1621/1381, 9-10=-1621/1381, 8-9=-1621/1381, 7-8=-1621/1381
 WEBS 4-9=-472/357, 4-12=-1401/1639, 11-12=-1392/1639, 7-11=-1450/1692

- 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) gable end zone and C-C Exterior(2) 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
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable studs spaced at 2-0-0 oc.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=314, 2=352.



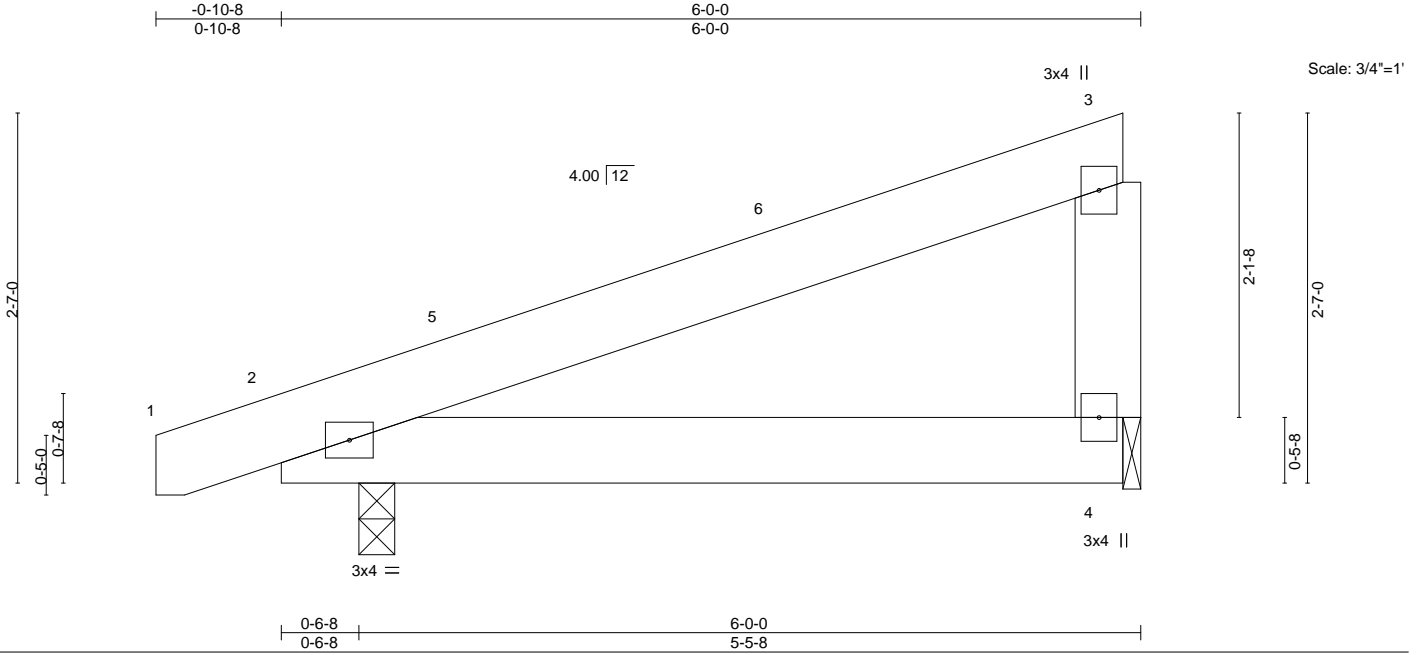
April 28, 2021

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666797 |
| J0421-2290 | M03 | Monopitch | 5 | 1 | Job Reference (optional) | |

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ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-PmZU8U7aGpXcUCGn6RzBiLCmlEsr0StxVKF9?YzMU_W



| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|-----|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.30 | Vert(LL) -0.01 | 2-4 | >999 | 360 | | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.40 | Vert(CT) -0.03 | 2-4 | >999 | 240 | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) 0.00 | | n/a | n/a | | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | Wind(LL) 0.03 | 2-4 | >999 | 240 | | Weight: 34 lb | FT = 20% |

LUMBER-

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

BRACING-

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

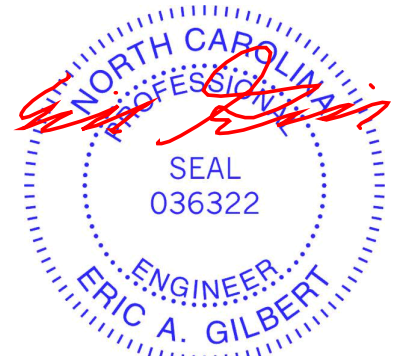
REACTIONS.

(size) 2=0-3-0, 4=0-1-8
 Max Horz 2=73(LC 8)
 Max Uplift 2=110(LC 8), 4=97(LC 8)
 Max Grav 2=284(LC 1), 4=222(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 5-9-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=110.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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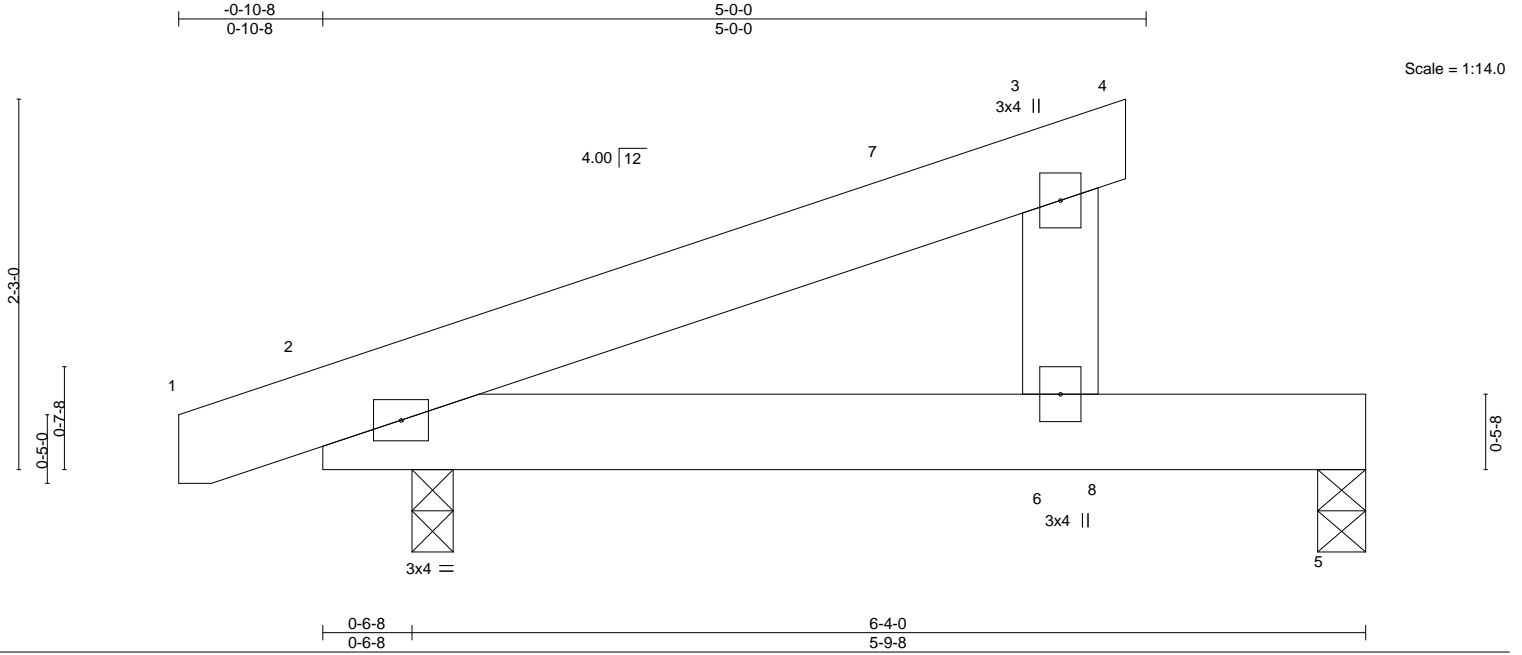
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|--------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666798 |
| J0421-2290 | M04 | Roof Special | 4 | 1 | Job Reference (optional) | |

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| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.34 | Vert(LL) -0.05 | 2-6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.60 | Vert(CT) -0.11 | 2-6 | >674 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.00 | Horz(CT) 0.00 | | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | Wind(LL) 0.17 | 2-6 | >427 | 240 | Weight: 32 lb | FT = 20% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-2-10 oc bracing.

REACTIONS.

(size) 5=0-3-8, 2=0-3-0
 Max Horz 2=62(LC 8)
 Max Uplift 5=193(LC 8), 2=-152(LC 8)
 Max Grav 5=478(LC 1), 2=383(LC 1)

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

NOTES-

- 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) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 4-10-8 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=193, 2=152.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 2-5=-20
 Concentrated Loads (lb)
 Vert: 8=-400



April 28, 2021

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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



818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Stout/Lot 17 Forest Ridge/Harnett | E15666799 |
| J0421-2290 | PB01 | PIGGYBACK | 21 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Apr 27 15:17:35 2021 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-M8hFZA9qoQnKjWPAEs?gnmH9v1eLUM7DyekG3QzMU_U



Scale = 1:18.1

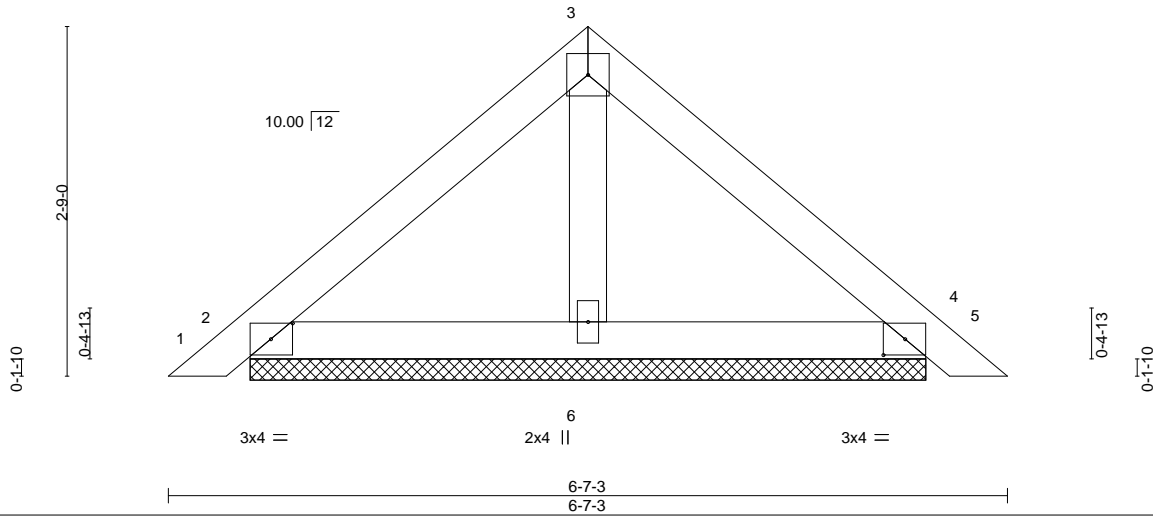


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-2-1,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|---------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.10 | Vert(LL) 0.00 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.05 | Vert(CT) 0.00 | 5 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.02 | Horz(CT) 0.00 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | | Weight: 24 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) 2=5-3-12, 4=5-3-12, 6=5-3-12
 Max Horz 2=-77(LC 10)
 Max Uplift 2=-51(LC 12), 4=-61(LC 13)
 Max Grav 2=150(LC 1), 4=150(LC 1), 6=175(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) gable end zone and C-C Exterior(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
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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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 **MITek 20/20 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/TFP 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, ESR1988
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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



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 Tor I 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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.