

RE: J0822-3990
 Lot 128 Ballard Woods

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J0822-3990
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
 Wind Code: ASCE 7-10 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 26 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|----------|-----|-----------|------------|----------|
| 1 | I50597787 | A1 | 3/4/2022 | 21 | I50597807 | PB2A | 3/4/2022 |
| 2 | I50597788 | A1GE | 3/4/2022 | 22 | I50597808 | PB2GE | 3/4/2022 |
| 3 | I50597789 | A2 | 3/4/2022 | 23 | I50597809 | VB1 | 3/4/2022 |
| 4 | I50597790 | A3 | 3/4/2022 | 24 | I50597810 | VB2 | 3/4/2022 |
| 5 | I50597791 | A4 | 3/4/2022 | 25 | I50597811 | VB3 | 3/4/2022 |
| 6 | I50597792 | A4A | 3/4/2022 | 26 | I50597812 | VB4 | 3/4/2022 |
| 7 | I50597793 | A4B | 3/4/2022 | | | | |
| 8 | I50597794 | A5 | 3/4/2022 | | | | |
| 9 | I50597795 | A5GE | 3/4/2022 | | | | |
| 10 | I50597796 | B1 | 3/4/2022 | | | | |
| 11 | I50597797 | B1GE | 3/4/2022 | | | | |
| 12 | I50597798 | B2 | 3/4/2022 | | | | |
| 13 | I50597799 | B2GRD | 3/4/2022 | | | | |
| 14 | I50597800 | C1GE | 3/4/2022 | | | | |
| 15 | I50597801 | C2 | 3/4/2022 | | | | |
| 16 | I50597802 | M1 | 3/4/2022 | | | | |
| 17 | I50597803 | M2 | 3/4/2022 | | | | |
| 18 | I50597804 | PB1 | 3/4/2022 | | | | |
| 19 | I50597805 | PB1GE | 3/4/2022 | | | | |
| 20 | I50597806 | PB2 | 3/4/2022 | | | | |

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

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



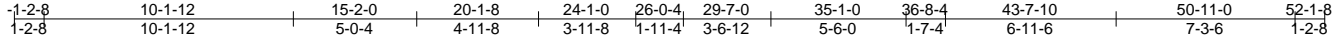
March 04, 2022

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597787 |
| J0822-3990 | A1 | ATTIC | 3 | 1 | Job Reference (optional) | |

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ID:JMEBCgqIYAxJXNflaGNpWVyrYVZ-3EfAcyZF_wMAOJFFM6Hhntq9OsQdLTvw7F3vj0zeJpy



Scale = 1:93.8

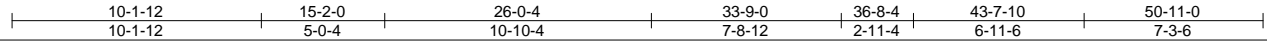
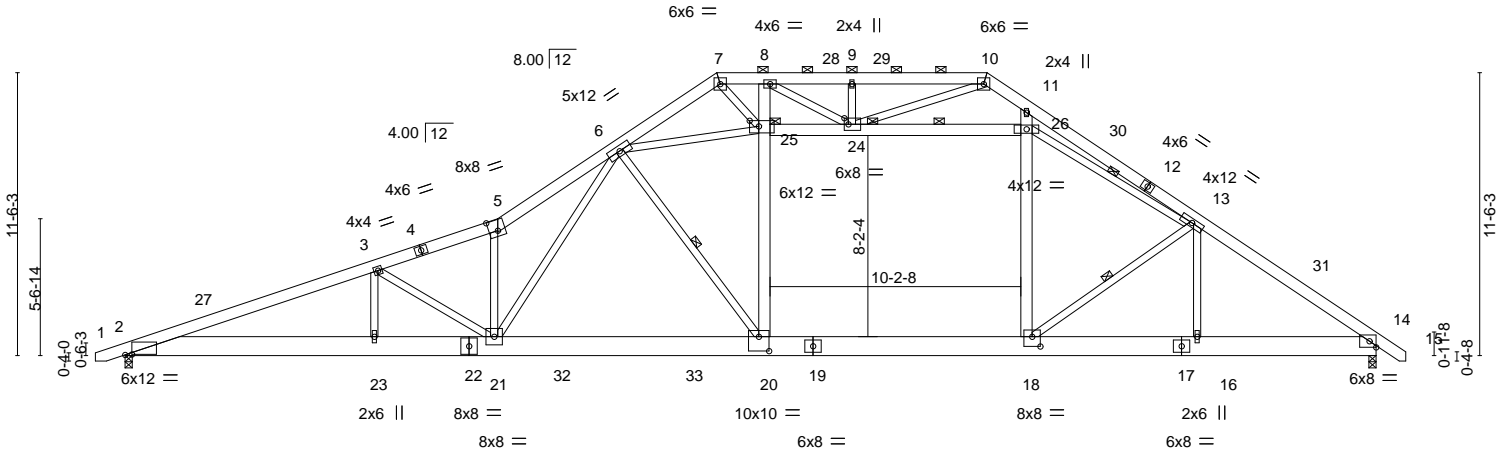


Plate Offsets (X,Y)-- [2:0-3-5,0-0-4], [5:0-4-4,0-5-4], [18:0-4-0,0-4-12], [20:0-5-0,0-7-0], [24:0-2-0,0-3-0], [25:0-4-8,0-2-12]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.64 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.75 | Vert(LL) -0.37 20-21 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.82 | Vert(CT) -0.73 20-21 >835 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.12 14 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.21 20-21 >999 240 | | |
| | | | | Weight: 513 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 2-5-3 oc purlins, except 2-0-0 oc purlins (3-11-12 max.): 7-10. |
| BOT CHORD 2x10 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 8-20,11-18,25-26: 2x6 SP No.1 | WEBS 1 Row at midpt 13-18, 24-26, 6-20, 13-26 |
| | JOINTS 1 Brace at Jt(s): 24, 25 |

REACTIONS. (size) 2=0-3-8, 14=0-3-8
 Max Horz 2=279(LC 11)
 Max Grav 2=2451(LC 2), 14=2696(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=6601/508, 3-5=6014/410, 5-6=6872/566, 6-7=3051/209, 7-8=3806/232, 8-9=3169/282, 9-10=3169/282, 10-11=1588/209, 11-13=1802/79, 13-14=4130/185
 BOT CHORD 2-23=371/6199, 21-23=371/6199, 20-21=20/4083, 18-20=0/3416, 16-18=23/3268, 14-16=22/3268
 WEBS 3-23=0/275, 3-21=826/222, 20-25=32/1859, 8-25=144/377, 18-26=0/861, 11-26=235/255, 13-18=221/357, 24-25=630/739, 24-26=2194/158, 9-24=289/166, 6-20=1307/319, 6-25=1370/123, 13-26=2304/161, 5-21=2034/251, 6-21=333/3124, 10-24=129/2014, 8-24=781/38, 7-25=26/1987

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 24-1-13, Exterior(2) 24-1-13 to 28-6-10, Interior(1) 28-6-10 to 35-0-3, Exterior(2) 35-0-3 to 39-5-0, Interior(1) 39-5-0 to 51-11-15 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.
 - Ceiling dead load (10.0 psf) on member(s). 24-25, 24-26; Wall dead load (5.0psf) on member(s). 20-25, 18-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20
 - 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.



| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597788 |
| J0822-3990 | A1GE | GABLE | 1 | 1 | Job Reference (optional) | |

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| | | | | | | | | | | | |
|-------|-------|--------|--------|---------|--------|--------|--------|----------|---------|---------|--------|
| 1-2-8 | 8-8-5 | 14-5-4 | 15-2-0 | 20-5-10 | 24-1-0 | 29-7-0 | 35-1-0 | 36-10-12 | 43-7-10 | 50-11-0 | 52-1-8 |
| 1-2-8 | 8-8-5 | 5-8-15 | 0-8-12 | 5-3-10 | 3-7-6 | 5-6-0 | 5-6-0 | 1-9-12 | 6-8-14 | 7-3-6 | 1-2-8 |

Scale: 1/8"=1'

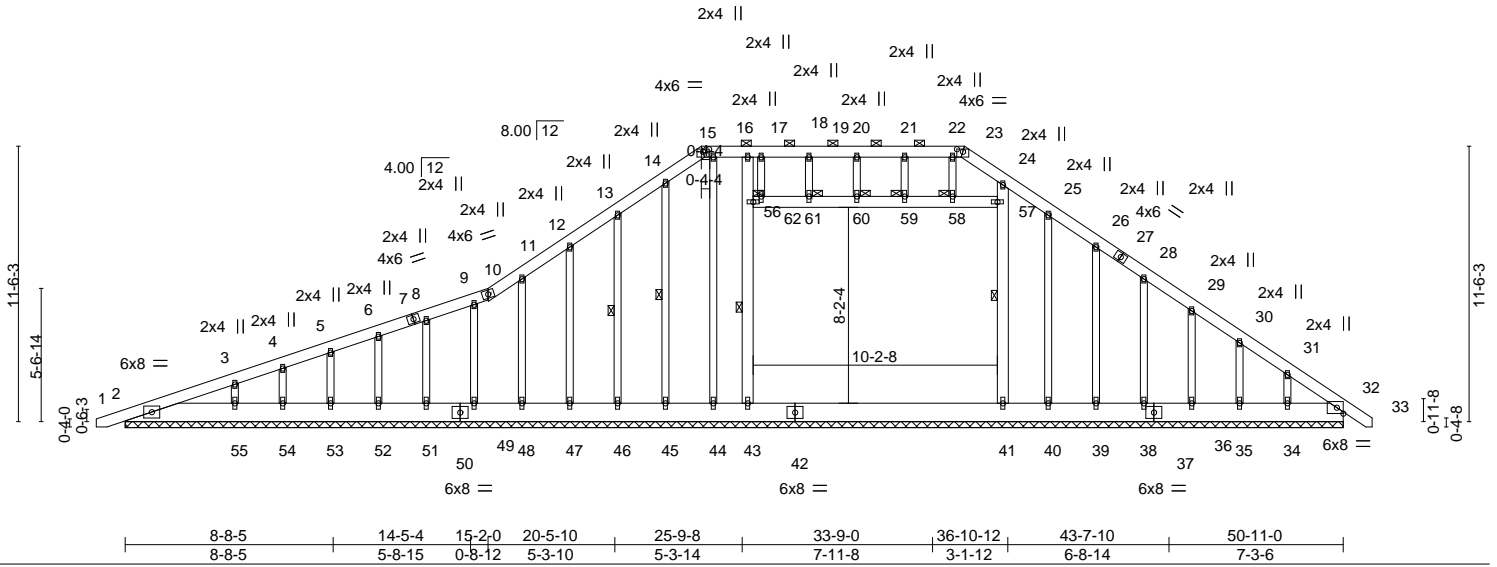


Plate Offsets (X,Y)-- [15:0-3-0,0-1-5], [23:0-3-0,0-1-5]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.36 | Vert(LL) -0.00 | 32 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.23 | Vert(CT) 0.00 | 32 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.26 | Horz(CT) 0.01 | 32 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 544 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.): 15-23. |
| BOT CHORD 2x10 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x6 SP No.1 *Except* 9-49: 2x4 SP No.2 | WEBS 1 Row at midpt 43-56, 41-57, 14-45, 13-46 |
| OTHERS 2x4 SP No.2 | JOINTS 1 Brace at Jt(s): 56, 58, 59, 60, 61 |

REACTIONS. All bearings 50-11-0.
 (lb) - Max Horz 2=369(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 32, 45, 47, 48, 51, 52, 53, 54, 39, 38, 36, 35, 49 except 44=-842(LC 18), 46=-100(LC 12), 55=-113(LC 8), 40=-572(LC 18), 34=-134(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 44, 45, 46, 47, 48, 51, 52, 53, 54, 40, 38, 36, 35, 34, 49 except 2=312(LC 1), 43=1595(LC 27), 41=1233(LC 27), 32=402(LC 1), 55=369(LC 1), 39=293(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-474/6, 3-4=-436/58, 4-5=-413/83, 5-6=-397/117, 6-8=-379/150, 8-9=-359/183, 9-10=-367/216, 10-11=-368/227, 11-12=-407/237, 12-13=-406/229, 13-14=-420/284, 14-15=-406/312, 15-16=-386/300, 16-17=-386/300, 17-18=-398/299, 18-19=-398/299, 19-20=-398/299, 20-21=-398/299, 21-22=-398/299, 22-23=-398/299, 23-24=-526/321, 24-25=-343/267, 25-26=-405/209, 26-28=-405/137, 28-29=-401/142, 29-30=-401/147, 30-31=-434/153, 31-32=-506/170
 BOT CHORD 2-55=-125/415, 54-55=-125/415, 53-54=-125/415, 52-53=-125/415, 51-52=-125/415, 49-51=-125/415, 48-49=-125/415, 47-48=-125/415, 46-47=-125/415, 45-46=-125/415, 44-45=-125/415, 43-44=-125/415, 41-43=-124/409, 40-41=-125/412, 39-40=-125/412, 38-39=-125/412, 36-38=-125/412, 35-36=-125/412, 34-35=-125/412, 32-34=-125/412
 WEBS 43-56=-828/217, 17-56=-904/256, 41-57=-563/63, 24-57=-481/91, 18-62=-53/303, 16-44=-133/333

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



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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 ANSITPI 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 | Lot 128 Ballard Woods | I50597788 |
| J0822-3990 | A1GE | GABLE | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

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 ID:JMEBCgqYAxJXNflaGNpWVyrYVZ-x?ugRJcm18sctxZ1byMdxj?vITviGOFW2s16snzeJpu

- NOTES-**
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 10) Ceiling dead load (10.0 psf) on member(s). 56-62, 61-62, 60-61, 59-60, 58-59, 57-58; Wall dead load (5.0psf) on member(s).43-56, 41-57
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 32, 45, 47, 48, 51, 52, 53, 54, 39, 38, 36, 35, 49 except (jt=lb) 44=842, 46=100, 55=113, 40=572, 34=134.
 - 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.

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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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597789 |
| J0822-3990 | A2 | ATTIC | 7 | 1 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314,

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ID:JMEBCqYAxJXNflaGNpWVyrYZ-QCS3fdOoS_TV58D8ftsUwY?ZiB5?hMgGWnfODzeJpt

| | | | | | | | | | | | | |
|--------|---------|--------|--------|---------|--------|--------|--------|--------|---------|---------|---------|--------|
| -1-2-8 | 10-1-12 | 15-2-0 | 20-1-8 | 26-0-4 | 26-5-4 | 33-7-4 | 40-9-4 | 41-2-4 | 47-1-0 | 52-9-12 | 58-11-8 | 60-2-0 |
| 1-2-8 | 10-1-12 | 5-0-4 | 4-11-8 | 5-10-12 | 0-5-0 | 7-2-0 | 7-2-0 | 0-5-0 | 5-10-12 | 5-8-12 | 6-1-12 | 1-2-8 |

Scale = 1:108.6

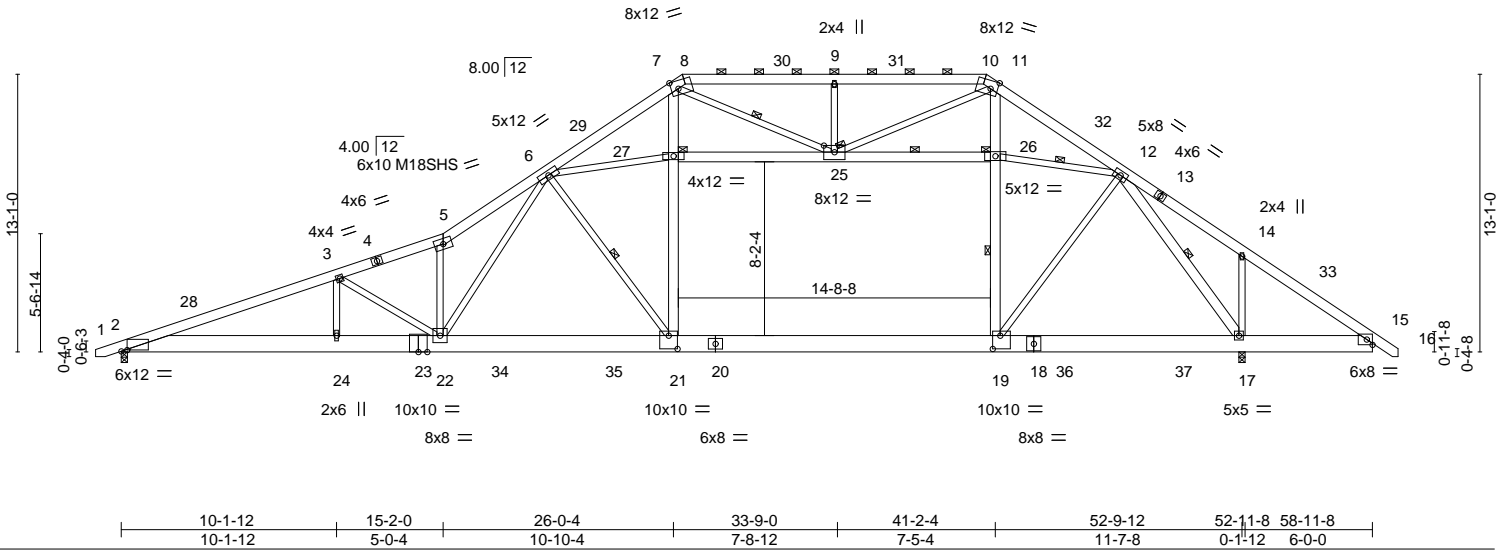


Plate Offsets (X,Y)-- [2:0-3-5,0-0-12], [8:0-4-0,Edge], [10:0-4-0,Edge], [19:0-4-4,0-7-8], [21:0-5-0,0-7-8], [25:0-6-0,0-3-12]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.67 | Vert(LL) -0.43 21-22 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.47 | Vert(CT) -0.84 21-22 >748 240 | M18SHS | 244/190 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.94 | Horz(CT) 0.10 17 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.24 21-22 >999 240 | | |
| | | | | Weight: 613 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|--|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 2-3-0 oc purlins, except 2-0-0 oc purlins (4-10-1 max.): 8-10. |
| BOT CHORD 2x10 SP 2400F 2.0E | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-17. |
| WEBS 2x4 SP No.2 *Except* 7-21,11-19,26-27,12-17: 2x6 SP No.1 | WEBS 1 Row at midpt 6-21, 19-26, 25-26, 12-17, 12-26, 7-25 |
| | JOINTS 1 Brace at Jt(s): 25, 26, 27 |

REACTIONS. (size) 2=0-3-8, 17=0-3-8
 Max Horz 2=317(LC 11)
 Max Grav 2=2663(LC 2), 17=3751(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-7245/379, 3-5=-6617/293, 5-6=-7544/427, 6-7=-4411/146, 7-8=-2053/220, 8-9=-2302/186, 9-10=-2302/186, 10-11=-2063/211, 11-12=-589/254, 12-14=-191/505, 14-15=-389/532
 BOT CHORD 2-24=-248/6810, 22-24=-248/6810, 21-22=0/4622, 19-21=0/3577, 17-19=0/1936, 15-17=-374/421
 WEBS 3-24=0/284, 3-22=-840/209, 6-22=-310/3194, 6-21=-1771/359, 21-27=0/2580, 7-27=0/2653, 19-26=-1214/376, 11-26=-1391/440, 14-17=-445/273, 25-26=-3479/286, 9-25=-369/223, 12-17=-3899/187, 12-26=-3453/283, 12-19=-2/2733, 11-25=-294/2478, 7-25=-1550/44, 6-27=-256/200, 5-22=-2188/206

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 26-6-1, Exterior(2) 26-6-1 to 30-10-14, Interior(1) 30-10-14 to 40-8-7, Exterior(2) 40-8-7 to 45-1-4, Interior(1) 45-1-4 to 60-0-7 zone; cantilever 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.
 - 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 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.
 - Ceiling dead load (10.0 psf) on member(s). 25-27, 25-26; Wall dead load (5.0psf) on member(s).21-27, 19-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21
 - 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.



March 4, 2022

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 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597790 |
| J0822-3990 | A3 | ATTIC | 3 | 1 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:24 2022 Page 1

ID:JMEBCgqIYAxJXNflaGNpWVyrYVZ-Maap4LfeK3EBkOHbG4vKZLDp_gkqTazykqGmS6zeJpr
 1-2-8 10-1-12 15-2-0 20-1-8 26-0-4 26-5-4 33-7-4 40-9-4 41-2-4 44-9-4 51-4-0 58-11-8 60-2-0
 1-2-8 10-1-12 5-0-4 4-11-8 5-10-12 0-5-0 7-2-0 7-2-0 0-5-0 3-7-0 6-6-12 7-7-8 1-2-8

Scale = 1:108.4

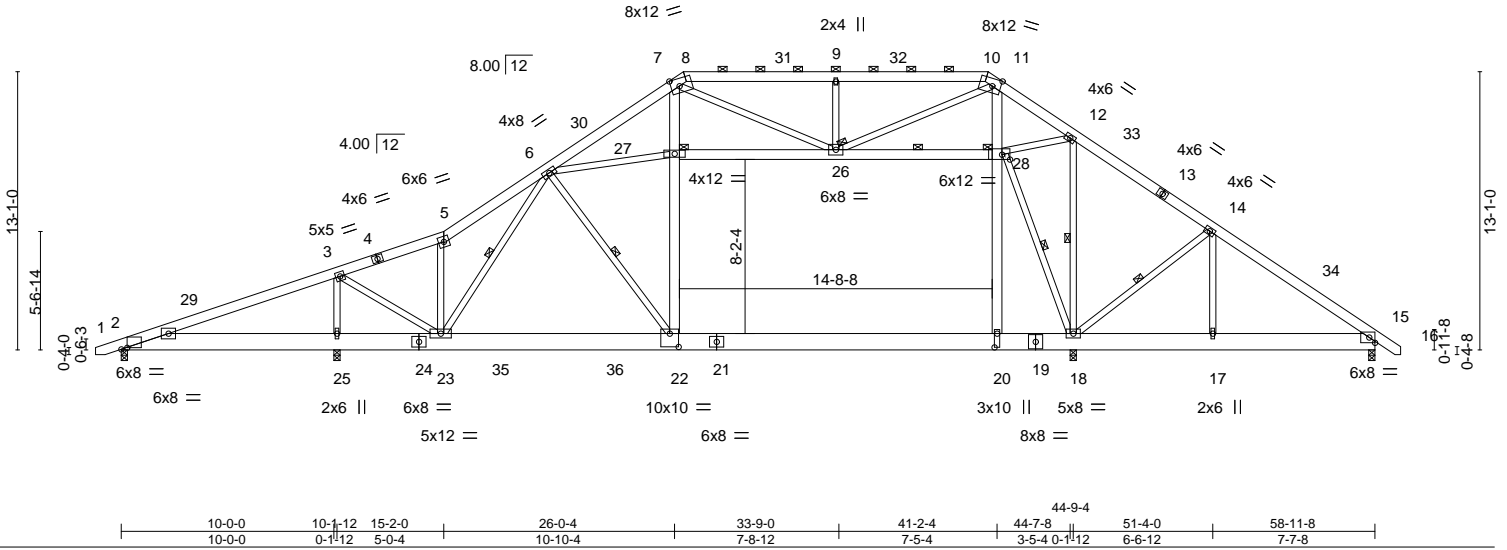


Plate Offsets (X,Y)-- [2:0-3-5,0-0-14], [8:0-4-12,0-0-4-4], [10:0-4-12,0-0-4-4], [20:0-7-12,0-0-1-8], [22:0-5-0,0-0-7-8], [28:0-4-8,0-2-12]

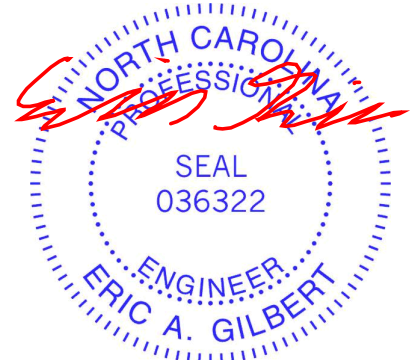
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.42 | Vert(LL) -0.25 20-22 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.97 | Vert(CT) -0.42 20-22 >991 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 1.00 | Horz(CT) 0.03 15 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.12 20-22 >999 240 | | |
| | | | | Weight: 615 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins, except 2-0-0 oc purlins (5-9-5 max.): 8-10. |
| BOT CHORD 2x10 SP 2400F 2.0E *Except* 15-19,19-21: 2x10 SP No.1 | BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 7-22,11-20,27-28: 2x6 SP No.1 | WEBS 1 Row at midpt 6-23, 6-22, 26-28, 12-18, 14-18, 18-28 |
| | JOINTS 1 Brace at Jt(s): 26, 27, 28 |

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 25=317(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 18 except 2=264(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 2 except 15=1156(LC 2), 18=1968(LC 27), 25=3096(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-177/1197, 3-5=-1304/119, 5-6=-1457/223, 6-7=-2640/421, 7-8=-1591/386, 8-9=-1759/388, 9-10=-1759/388, 10-11=-1580/388, 11-12=-516/90, 12-14=-1226/222, 14-15=-1574/452
 BOT CHORD 2-25=-1031/239, 23-25=-1082/233, 22-23=-46/1937, 20-22=0/1907, 18-20=0/1877, 17-18=-209/1190, 15-17=-209/1190
 WEBS 6-23=-1172/256, 22-27=-162/1257, 7-27=-43/1343, 20-28=-188/1646, 11-28=-849/234, 26-27=-23/323, 26-28=-1575/373, 9-26=-417/222, 11-26=-298/1607, 7-26=-559/112, 6-27=-24/308, 5-23=-519/146, 12-18=-137/369, 14-18=-526/478, 3-25=-2638/401, 3-23=-171/2704, 18-28=-2459/397, 12-28=-703/239, 14-17=-251/296

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-11-13 to 3-5-0, Interior(1) 3-5-0 to 26-6-1, Exterior(2) 26-6-1 to 30-10-14, Interior(1) 30-10-14 to 40-8-7, Exterior(2) 40-8-7 to 45-1-4, Interior(1) 45-1-4 to 60-0-7 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
 - 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.
 - Ceiling dead load (10.0 psf) on member(s). 26-27, 26-28; Wall dead load (5.0psf) on member(s).22-27, 20-28
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 2=264.
 - 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.



March 4, 2022

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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

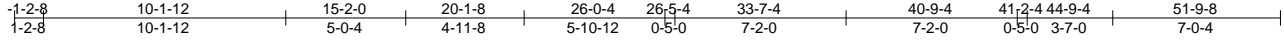


| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597791 |
| J0822-3990 | A4 | ATTIC | 1 | 1 | Job Reference (optional) | |

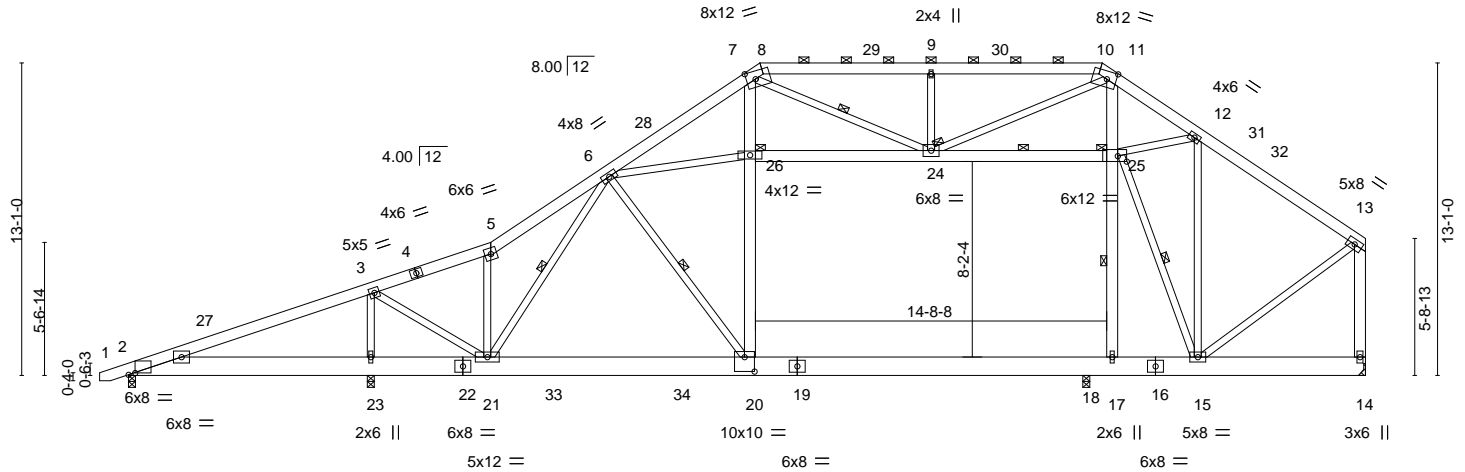
Comtech, Inc, Fayetteville, NC - 28314,

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ID:JMBCGqIYAxJXNflaGNpWVyrYVZ-lziZV1gvshVuziR_NVxoemIKUTcxZBFB8tX_zeJpp



Scale: 1/8"=1'



| | | | | | |
|-----------------------|-------------------|------------------|--------------------|-------------------|-------------------|
| Plate Offsets (X,Y)-- | [2:0-3-5,0-0-14], | [8:0-4-8,0-4-0], | [10:0-4-12,0-4-0], | [20:0-5-0,0-7-4], | [25:0-4-8,0-2-12] |
|-----------------------|-------------------|------------------|--------------------|-------------------|-------------------|

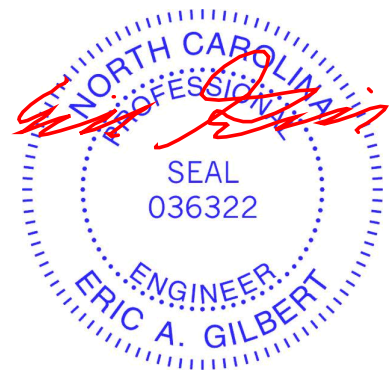
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.43 | Vert(LL) -0.21 18-20 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.82 | Vert(CT) -0.34 18-20 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.69 | Horz(CT) 0.02 14 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.10 18-20 >999 240 | | |
| | | | | Weight: 567 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|--|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-10. |
| BOT CHORD 2x10 SP 2400F 2.0E *Except* 14-16,16-19: 2x10 SP No.1 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 7-20,11-17,25-26,13-14: 2x6 SP No.1 | WEBS 1 Row at midpt 6-20, 17-25, 24-25, 6-21, 7-24, 15-25 |
| | JOINTS 1 Brace at Jt(s): 24, 25, 26 |

REACTIONS. All bearings 0-3-8 except (jt=length) 14=Mechanical.
 (lb) - Max Horz 23=308(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=281(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 2 except 23=2897(LC 26), 14=1241(LC 1), 18=1613(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-216/1386, 3-5=-955/61, 5-6=-1059/158, 6-7=-2636/406, 7-8=-1267/339, 8-9=-1379/332, 9-10=-1379/332, 10-11=-1259/340, 11-12=-70/724, 12-13=-943/182, 13-14=-1166/203
 BOT CHORD 2-23=-1211/276, 21-23=-1194/55, 20-21=-201/1501, 18-20=-121/1303, 17-18=-121/1303, 15-17=-122/1297
 WEBS 3-23=-2475/383, 6-20=-321/164, 20-26=-166/1381, 7-26=-55/1537, 17-25=-652/195, 11-25=-1410/317, 12-15=-28/905, 24-26=-8/867, 24-25=-1834/408, 13-15=-34/857, 9-24=-429/227, 3-21=-149/2507, 12-25=-1305/351, 6-26=-5/849, 6-21=-1082/247, 11-24=-362/2079, 7-24=-980/93, 5-21=-426/128, 15-25=-1712/219

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-11-13 to 3-5-0, Interior(1) 3-5-0 to 26-6-1, Exterior(2) 26-6-1 to 30-10-14, Interior(1) 30-10-14 to 40-8-7, Exterior(2) 40-8-7 to 45-1-4, Interior(1) 45-1-4 to 51-6-12 zone; porch left 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.
 - Ceiling dead load (10.0 psf) on member(s). 24-26, 24-25; Wall dead load (5.0psf) on member(s).20-26, 17-25
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 17-18
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 281 lb uplift at joint 2.
 - 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.

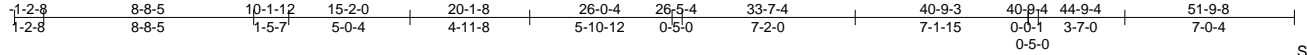


| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597792 |
| J0822-3990 | A4A | ATTIC | 1 | 2 | Job Reference (optional) | |

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ID:JMEBCgqIYAxJXNflaGNpWVyrYVZ-ELqKvj9OllcD0bNVw_GjBo65H7rPRxYfSE_ctzeJpn



Scale: 1/8"=1'

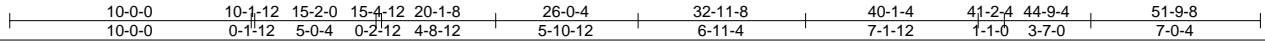
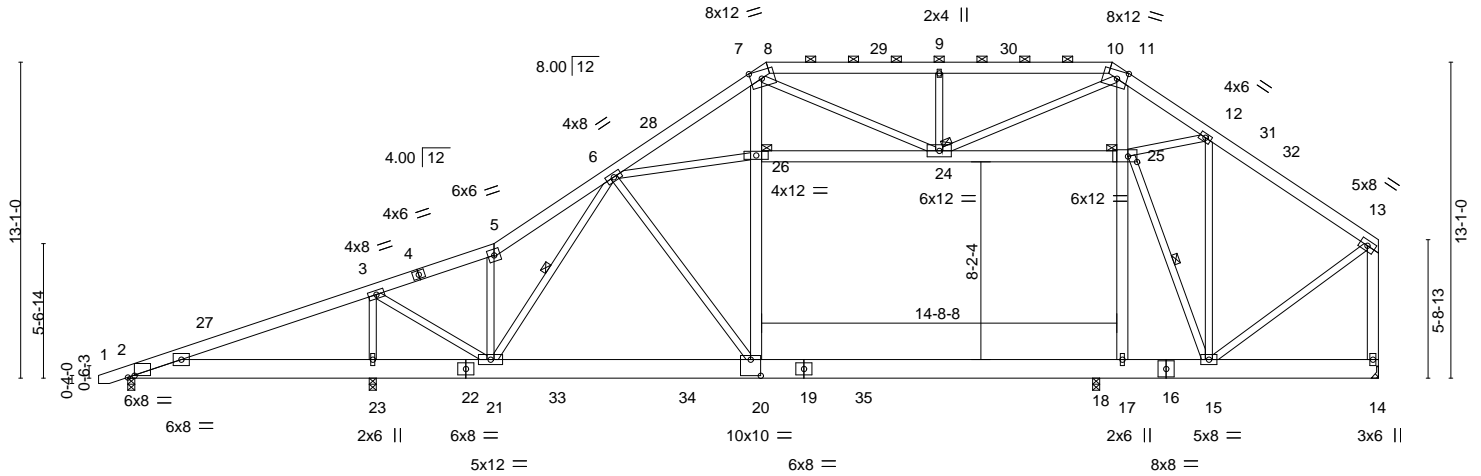


Plate Offsets (X,Y)-- [2:0-3-5,0-0-14], [8:0-5-8,0-4-0], [10:0-5-0,0-4-0], [20:0-5-0,0-8-0], [25:0-4-8,0-2-12]

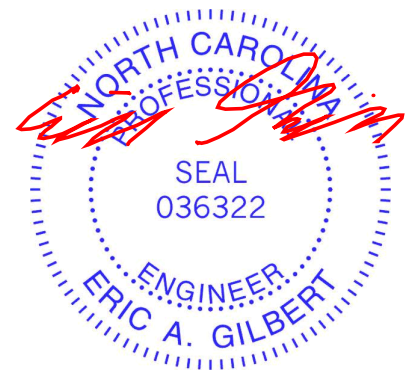
| LOADING (psf) | SPACING- | CSL | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|-----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.35 | Vert(LL) -0.40 | 18-20 | >894 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.90 | Vert(CT) -0.59 | 18-20 | >606 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.80 | Horz(CT) 0.02 | 14 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.35 | 18-20 | >999 | 240 | | |
| | | | | | | | Weight: 1134 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.): 8-10. |
| BOT CHORD 2x10 SP 2400F 2.0E *Except* 14-16: 2x10 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-23,21-23. |
| WEBS 2x4 SP No.2 *Except* 7-20,11-17,25-26,13-14: 2x6 SP No.1 | WEBS 1 Row at midpt 6-21, 15-25 |
| | JOINTS 1 Brace at Jt(s): 24, 25, 26 |

REACTIONS. All bearings 0-3-8 except (jt=length) 14=Mechanical.
 (lb) - Max Horz 23=308(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 14 except 2=703(LC 18), 23=539(LC 9), 18=163(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 2 except 23=5171(LC 2), 14=1879(LC 2), 18=3049(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1000/2917, 3-5=-1222/185, 5-6=-1369/301, 6-7=-6607/2398, 7-8=-2206/813, 8-9=-2491/889, 9-10=-2491/889, 10-11=-2212/800, 11-12=-650/1815, 12-13=-1437/425, 13-14=-1739/490
 BOT CHORD 2-23=-2697/1042, 21-23=-2697/820, 20-21=-915/2901, 18-20=-884/2850, 17-18=-884/2850, 15-17=-871/2819
 WEBS 3-23=-4254/1259, 20-26=-1659/4242, 7-26=-1647/4591, 17-25=-348/769, 11-25=-2939/1078, 12-15=-628/2013, 24-26=-897/2581, 24-25=-4341/1651, 13-15=-310/1413, 9-24=-403/196, 3-21=-1196/4569, 12-25=-2795/1087, 6-26=-878/2530, 6-21=-3430/1413, 11-24=-1494/4350, 7-24=-3214/1290, 5-21=-502/169, 15-25=-4625/1690

- 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 0-2-0 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 26-6-1, Exterior(2) 26-6-1 to 30-10-14, Interior(1) 30-10-14 to 40-8-6, Exterior(2) 40-8-6 to 45-1-3, Interior(1) 45-1-3 to 51-6-12 zone; porch left 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.
 - Ceiling dead load (10.0 psf) on member(s). 24-26, 24-25; Wall dead load (5.0psf) on member(s).20-26, 17-25
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room: 18-20, 17-18



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 | Lot 128 Ballard Woods | I50597792 |
| J0822-3990 | A4A | ATTIC | 1 | 2 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:28 2022 Page 2
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NOTES-

- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=703, 23=539, 18=163.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3848 lb down and 1908 lb up at 30-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-60, 5-8=-60, 8-10=-60, 10-13=-60, 2-20=-20, 17-20=-40, 14-17=-20, 25-26=-20
 - Drag: 20-26=-10, 17-25=-10
 - Concentrated Loads (lb)
 - Vert: 35=-1608(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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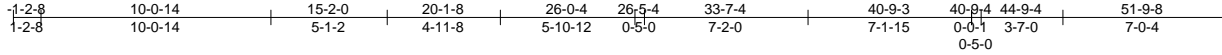
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597793 |
| J0822-3990 | A4B | ATTIC | 1 | 2 | Job Reference (optional) | |

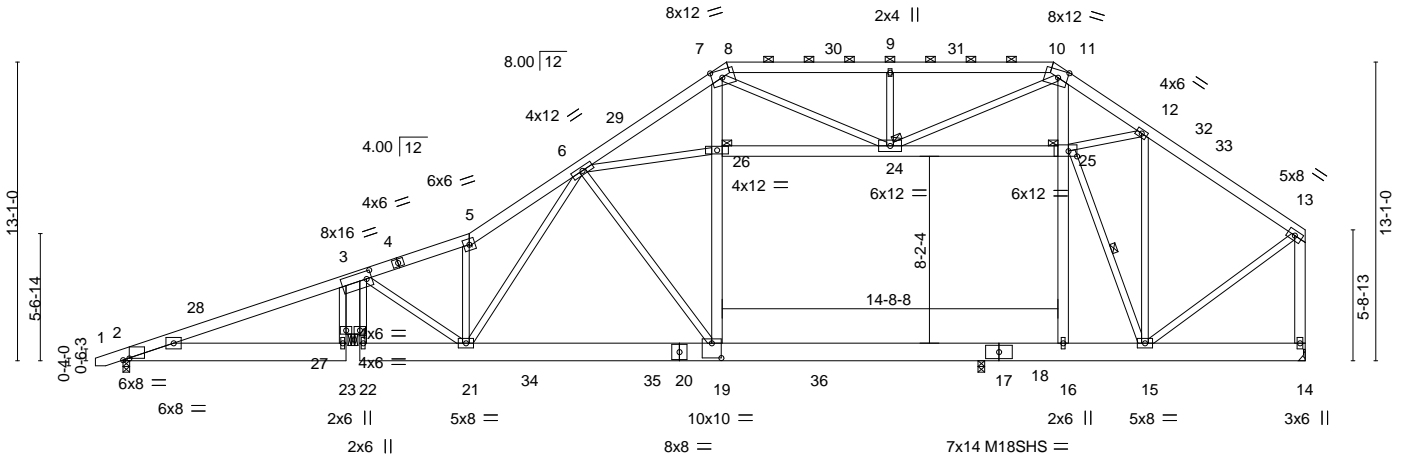
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:30 2022 Page 1

ID:JMEBCgqIYAxJXNflaGNpWVyrYVZ-Bkx4KOjPww?KSJlclL0koctS_5p7IKRr6mj5glzeJpl



Scale = 1:100.9



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [2:0-3-5,0-0-14], [3:0-2-12,0-4-0], [8:0-5-8,0-4-0], [10:0-5-0,0-4-0], [19:0-5-0,0-7-12], [25:0-4-8,0-2-12] |
|-----------------------|---|

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|-----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.32 | Vert(LL) -0.30 18-19 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.91 | Vert(CT) -0.44 18-19 >751 240 | M18SHS | 244/190 |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.87 | Horz(CT) 0.01 2 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.14 18-19 >999 240 | | |
| | | | | Weight: 1151 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.): 8-10. |
| BOT CHORD 2x10 SP No.1 *Except* 17-20,20-22: 2x10 SP 2400F 2.0E | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-23,21-22. |
| WEBS 2x4 SP No.2 *Except* 3-27: 2x8 SP 2400F 2.0E, 7-19,11-16,25-26,13-14: 2x6 SP No.1 | WEBS 1 Row at midpt 15-25 |
| | JOINTS 1 Brace at Jt(s): 24, 25, 26 |

REACTIONS. All bearings 0-3-8 except (jt=length) 14=Mechanical, 27=0-5-4.
 (lb) - Max Horz 27=308(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 27 except 2=104(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 2=271(LC 1), 14=1773(LC 2), 27=3795(LC 2), 18=3767(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-131/924, 3-5=-2392/260, 5-6=-2693/385, 6-7=-6471/816, 7-8=-1916/406, 8-9=-2151/408, 9-10=-2151/408, 10-11=-1925/391, 11-12=-294/2612, 12-13=-1385/227, 13-14=-1705/257
 BOT CHORD 2-23=-796/201, 21-22=-766/19, 19-21=-370/3068, 18-19=-235/2480, 16-18=-235/2480, 15-16=-235/2474
 WEBS 23-27=-295/130, 3-27=-3460/510, 6-19=-951/226, 19-26=-482/4252, 7-26=-395/4629, 16-25=-1037/273, 11-25=-3519/546, 12-15=-221/2622, 24-26=-224/2846, 24-25=-4599/697, 13-15=-93/1386, 9-24=-405/222, 3-21=-316/3551, 12-25=-3440/584, 6-26=-217/2790, 6-21=-1618/231, 11-24=-636/4665, 7-24=-3471/370, 5-21=-831/192, 15-25=-3751/415

- 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 0-2-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 26-6-1, Exterior(2) 26-6-1 to 30-10-14, Interior(1) 30-10-14 to 40-8-6, Exterior(2) 40-8-6 to 45-1-3, Interior(1) 45-1-3 to 51-6-12 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide



Continue between the bottom chord and any other members, with BCDL = 10.0psf.

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 ANSITPI 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 | Lot 128 Ballard Woods |
| J0822-3990 | A4B | ATTIC | 1 | 2 | 150597793 |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:30 2022 Page 2
 ID:JMEBCgqIYAxJXNflaGNpWVyrYVZ-Bkx4KOjPww?KSJllcL0kocstS_5p7tKR6mj5glzeJpl

NOTES-

- 9) Ceiling dead load (10.0 psf) on member(s). 24-26, 24-25; Wall dead load (5.0psf) on member(s).19-26, 16-25
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 16-18
- 11) Refer to girder(s) for truss to truss connections.
- 12) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27 except (jt=lb) 2=104.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2833 lb down and 557 lb up at 30-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-8=-60, 8-10=-60, 10-13=-60, 2-23=-20, 25-26=-20, 19-22=-20, 16-19=-40, 14-16=-20
 Drag: 19-26=-10, 16-25=-10

Concentrated Loads (lb)

Vert: 36=-1608(F)

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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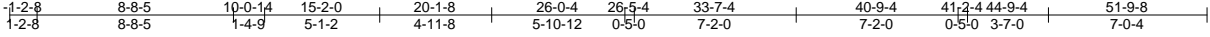
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597794 |
| J0822-3990 | A5 | ATTIC | 6 | 1 | | |

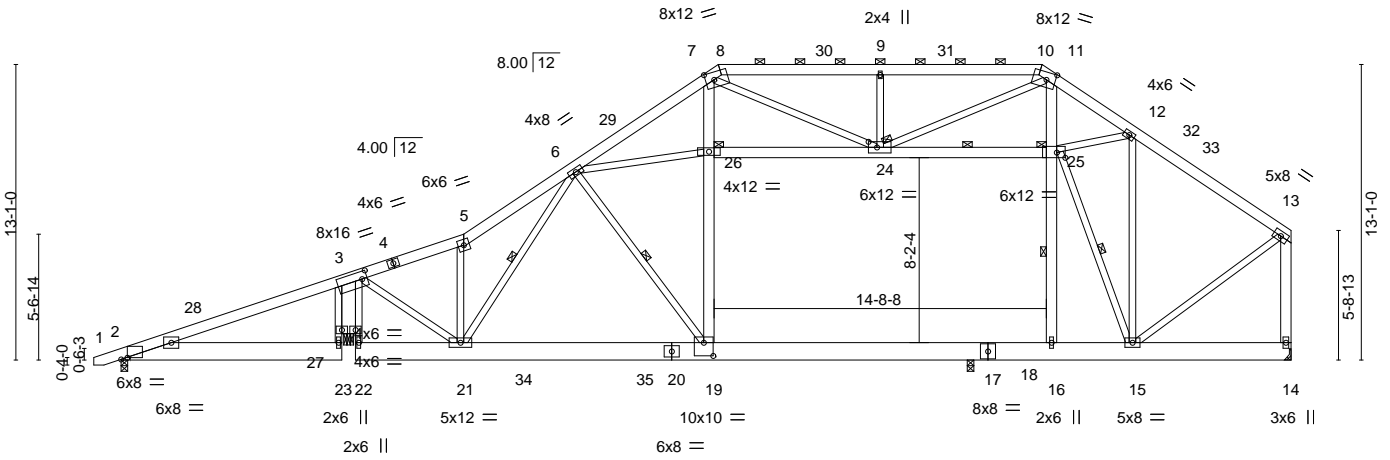
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:32 2022 Page 1

ID:JMEBCgq1YAxJXNflaGNpWVyrYVZ-773r14fRXF2hdu8km2C11ynVuYFLC?8Z4CBlezeJp



Scale = 1:102.0



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [2:0-3-5,0-0-14], [3:0-2-12,0-4-0], [8:0-4-8,0-4-0], [10:0-4-12,0-4-0], [19:0-5-0,0-7-0], [24:0-4-8,0-3-0], [25:0-4-8,0-2-12] |
|-----------------------|---|

| LOADING (psf) | SPACING- | CSL | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.39 | Vert(LL) -0.13 18-19 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.68 | Vert(CT) -0.22 18-19 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.99 | Horz(CT) 0.01 2 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.05 19-21 >999 240 | | |
| | | | | Weight: 575 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x4 SP No.2 *Except*
 3-27: 2x8 SP No.1, 7-19,11-16,25-26,13-14: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-8-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-10.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-23,21-22.
 WEBS 1 Row at midpt 6-19, 16-25, 24-25, 6-21, 15-25
 JOINTS 1 Brace at Jt(s): 24, 25, 26

REACTIONS. All bearings 0-3-8 except (jt=length) 14=Mechanical, 27=0-5-4.
 (lb) - Max Horz 27=308(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 27 except 2=116(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 2=337(LC 1), 14=1594(LC 1), 27=2448(LC 2), 18=1418(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-81/492, 3-5=-1682/120, 5-6=-1883/226, 6-7=-2586/31, 7-8=-1316/286, 8-9=-1436/266, 9-10=-1436/266, 10-11=-1315/284, 11-12=-225/525, 12-13=-1247/198, 13-14=-1529/223
 BOT CHORD 2-23=-357/108, 21-22=-373/0, 19-21=-122/1778, 18-19=-44/1481, 16-18=-44/1481, 15-16=-46/1478
 WEBS 3-27=-2333/296, 6-19=-530/155, 19-26=0/1288, 7-26=0/1421, 16-25=-366/120, 11-25=-1228/92, 12-15=-8/966, 24-26=-44/667, 24-25=-1827/155, 13-15=-53/1182, 9-24=-421/230, 3-21=-72/2252, 12-25=-1351/176, 6-26=-45/647, 6-21=-385/0, 11-24=-97/1972, 7-24=-862/172, 5-21=-622/150, 15-25=-1543/29

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 26-6-1, Exterior(2) 26-6-1 to 30-10-14, Interior(1) 30-10-14 to 40-8-7, Exterior(2) 40-8-7 to 45-1-4, Interior(1) 45-1-4 to 51-6-12 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.
 - Ceiling dead load (10.0 psf) on member(s). 24-26, 24-25; Wall dead load (5.0psf) on member(s).19-26, 16-25
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 16-18
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27 except (jt=lb) 2=116.



Computer generated representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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 ANSITPI1 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 | Lot 128 Ballard Woods | I50597794 |
| J0822-3990 | A5 | ATTIC | 6 | 1 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:32 2022 Page 2
 ID:JMEBCgqYAxJXNflaGNpWVyrYVZ-773rl4IfRFXF2hdu8km2Ct1ynVuYFLC?8Z4CBlezeJpj

NOTES-

12) 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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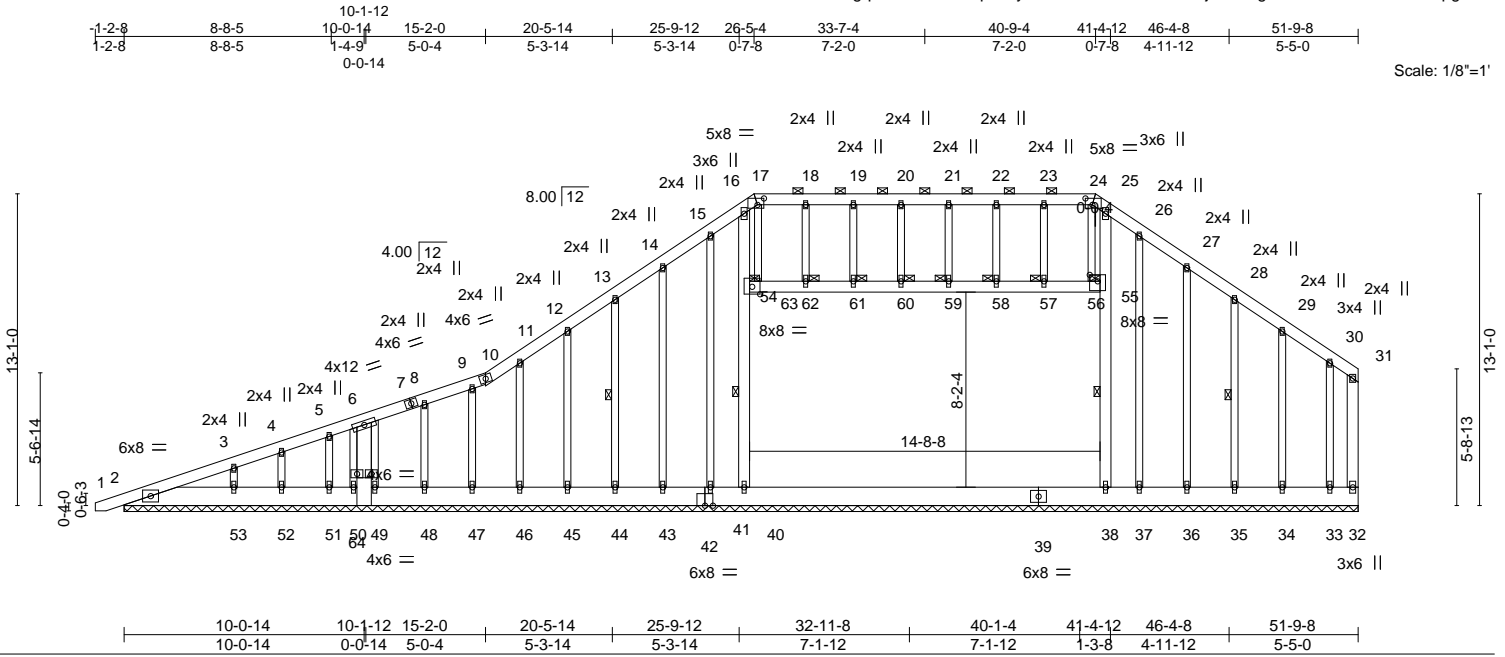


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597795 |
| J0822-3990 | A5GE | GABLE | 1 | 1 | Job Reference (optional) | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:35 2022 Page 1
ID:JMEBCgqYAxJXNflaGNpWVyrYVZ-XilzN6nYkSddY4djPucvVgaGf6eiYhXaG2QRlZzeJpg



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [17:0-3-4,0-3-4], [24:0-3-8,0-3-4], [54:0-4-0,0-3-12], [55:0-4-0,0-3-4] |
|-----------------------|---|

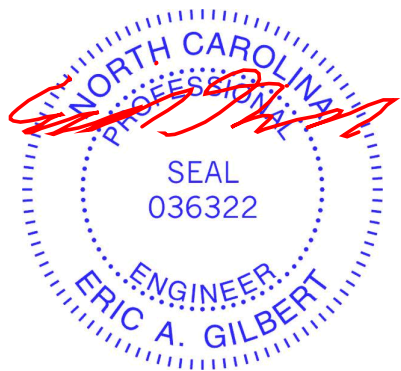
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|--------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.46 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.44 | Vert(LL) -0.00 1 n/r 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.49 | Vert(CT) 0.00 1 n/r 120 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 32 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 629 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x6 SP No.1 *Except* 10-17,24-31: 2x6 SP 2400F 2.0E | 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.): 17-24. |
| BOT CHORD 2x10 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x6 SP No.1 *Except* 6-64: 2x8 SP No.1, 6-49,6-50: 2x4 SP No.2 | WEBS 1 Row at midpt 40-54, 38-55, 13-44, 28-35 |
| OTHERS 2x4 SP No.2 | JOINTS 1 Brace at Jt(s): 54, 55, 57, 58, 59, 60, 61, 62 |

REACTIONS. All bearings 51-9-8.
(lb) - Max Horz 2=409(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 50, 40, 32, 43, 44, 45, 46, 47, 48, 51, 52, 36, 34, 49 except 2=105(LC 8), 41=1650(LC 18), 53=114(LC 8), 37=1651(LC 18), 35=100(LC 13), 33=107(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 50, 32, 44, 45, 46, 47, 48, 51, 52, 35, 34, 33, 49 except 40=2725(LC 26), 38=2726(LC 2), 43=303(LC 20), 53=365(LC 1), 36=312(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-372/90, 3-4=-322/120, 4-5=-305/141, 5-6=-282/158, 6-8=-275/189, 10-11=-251/255, 11-12=-251/266, 12-13=-228/259, 13-14=-216/300, 14-15=-225/350, 15-16=-151/475, 16-17=-837/512, 17-18=-305/331, 18-19=-305/331, 19-20=-305/331, 20-21=-305/331, 21-22=-305/331, 22-23=-305/331, 23-24=-305/331, 24-25=-844/513, 25-26=-122/461, 26-27=-225/305
WEBS 40-54=-1354/387, 16-54=-2123/631, 38-55=-1354/334, 25-55=-2135/585, 24-56=-342/1178, 17-63=-342/1163, 15-41=-167/486, 26-37=-182/486

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph 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.
 - 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 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.
 - Ceiling dead load (10.0 psf) on member(s). 54-63, 62-63, 61-62, 60-61, 59-60, 58-59, 57-58, 56-57, 55-56; Wall dead load (5.0psf)



| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | I50597795 |
| J0822-3990 | A5GE | GABLE | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:35 2022 Page 2
 ID:JMEBCgqIYAxJXNflaGNpWVyrYVZ-XilzN6nYkSddY4djPucvVgaGf6eiYhXaG2QrLzzeJpg

NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 50, 40, 32, 43, 44, 45, 46, 47, 48, 51, 52, 36, 34, 49 except (jt=lb) 2=105, 41=1650, 53=114, 37=1651, 35=100, 33=107.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 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.

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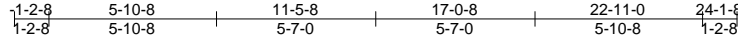
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|-----------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597796 |
| J0822-3990 | B1 | COMMON | 2 | 1 | | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MITek Industries, Inc. Fri Mar 4 11:08:37 2022 Page 1

ID:JMEBCgqYAxJXNflaGNpWVyrYZ-U4skoopoG3tLoOn5XJeNa5fhBvLj0X2tjMvyQszeJpe



5x5 =

Scale = 1:80.8

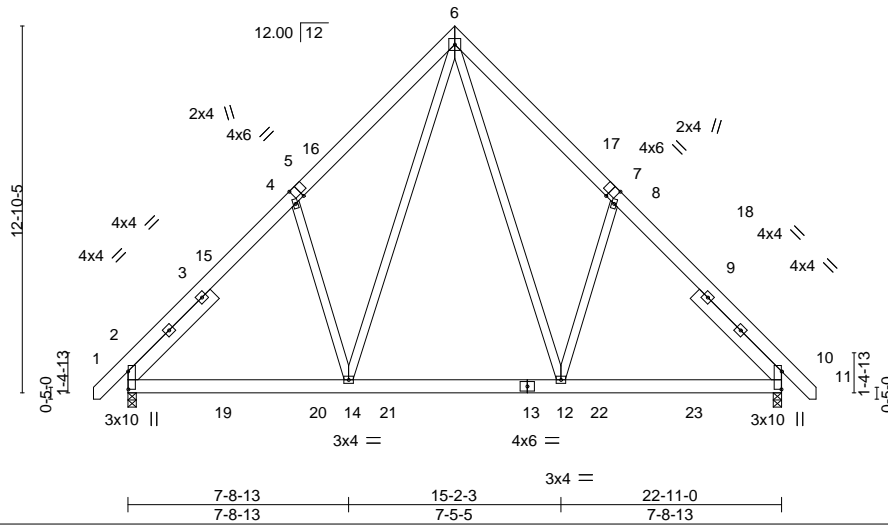


Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [5:0-3-0,Edge], [7:0-3-0,Edge], [10:0-7-9,0-0-2]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.13 | Vert(LL) -0.04 | 12-14 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.27 | Vert(CT) -0.06 | 12-14 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.68 | Horz(CT) 0.01 | 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.01 | 14 | >999 | 240 | | |
| | | | | | | | Weight: 215 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 4-3-6, Right 2x6 SP No.1 4-3-6

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.

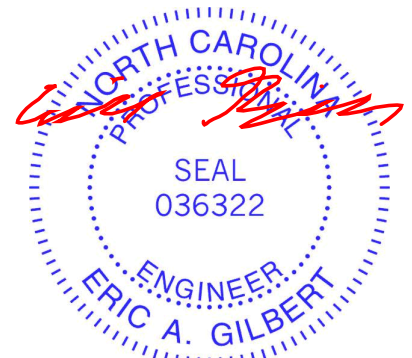
(size) 2=0-3-8, 10=0-3-8
Max Horz 2=301(LC 11)
Max Uplift 2=-40(LC 12), 10=-40(LC 13)
Max Grav 2=1140(LC 19), 10=1141(LC 20)

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

TOP CHORD 2-4=-1254/250, 4-6=-1105/451, 6-8=-1106/451, 8-10=-1255/250
BOT CHORD 2-14=-100/908, 12-14=-10/633, 10-12=-4/787
WEBS 6-12=-241/682, 8-12=-419/336, 6-14=-241/679, 4-14=-419/336

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 11-5-8, Exterior(2) 11-5-8 to 15-10-5, Interior(1) 15-10-5 to 24-0-2 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 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) 2, 10.



March 4, 2022

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

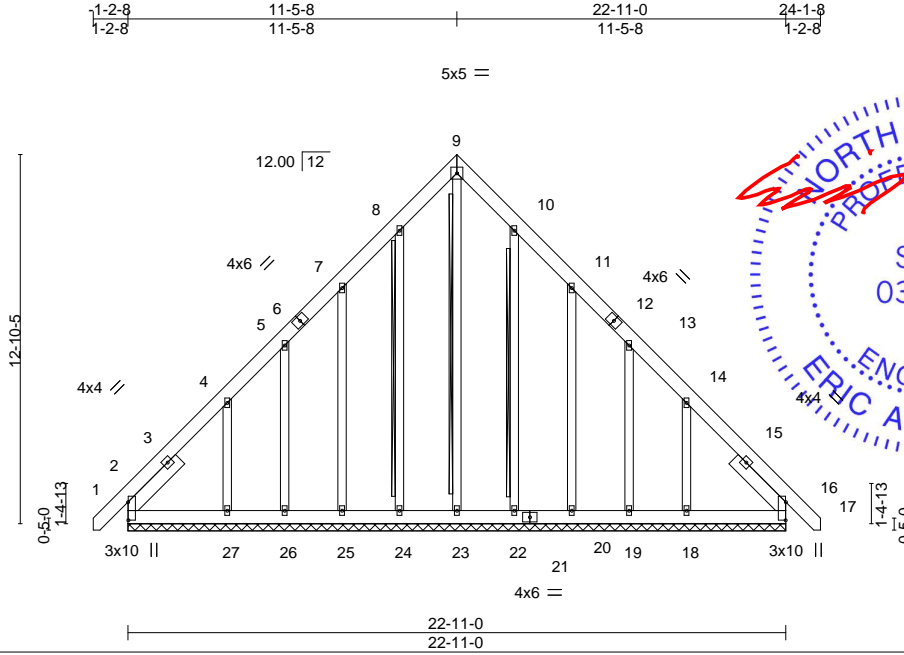


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|----------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597797 |
| J0822-3990 | B1GE | COMMON SUPPORTED GAB | 1 | 1 | Job Reference (optional) | |

Comtech, Inc., Fayetteville, NC - 28314,

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 ID:JMEBCgqYAXJXNflaGNpWVyrYVZ-yHQ607qQ1N?BPYMI409c71CtOJk714z0y0fWylzeJpd



Scale = 1:80.3

Plate Offsets (X,Y)-- [2:0-7-9,0-0-2], [16:0-7-9,0-0-2]

| 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 | 16 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.07 | Vert(CT) 0.00 | 16 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.26 | Horz(CT) 0.01 | 16 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 250 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 2-6-10, Right 2x6 SP No.1 2-6-10

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 9-23, 8-24, 10-22
 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 22-11-0.
 (lb) - Max Horz 2=-376(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 26, 22, 19, 16 except 2=-123(LC 8), 25=-165(LC 12), 27=-355(LC 12), 20=-168(LC 13), 18=-342(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 24, 25, 26, 22, 20, 19 except 2=354(LC 20), 23=314(LC 13), 27=349(LC 19), 18=335(LC 20), 16=315(LC 22)

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

TOP CHORD 2-4=-414/284, 7-8=-245/260, 8-9=-301/311, 9-10=-301/311, 14-16=-362/207
 BOT CHORD 2-27=-194/335, 26-27=-195/336, 25-26=-195/336, 24-25=-196/336, 23-24=-196/336, 22-23=-196/336, 20-22=-196/336, 19-20=-195/336, 18-19=-195/336, 16-18=-194/334
 WEBS 9-23=-315/252, 4-27=-348/350, 14-18=-348/340

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 23, 24, 26, 22, 19, 16 except (jt=lb) 2=123, 25=165, 27=355, 20=168, 18=342.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

March 4, 2022

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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



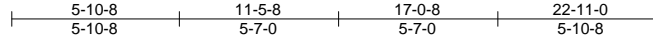
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597798 |
| J0822-3990 | B2 | COMMON | 4 | 1 | Job Reference (optional) | |

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5x5 =

Scale = 1:80.8

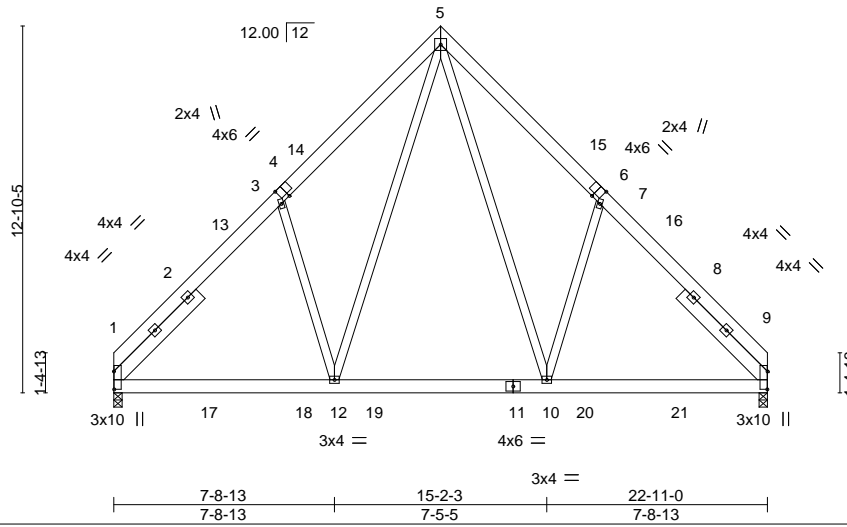


Plate Offsets (X,Y)-- [1:0-7-9,0-0-2], [4:0-3-0,Edge], [6:0-3-0,Edge], [9:0-7-9,0-0-2]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.13 | Vert(LL) | -0.04 | 10-12 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.27 | Vert(CT) | -0.06 | 10-12 | >999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.69 | Horz(CT) | 0.01 | 9 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) | 0.01 | 12 | >999 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 207 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 4-3-6, Right 2x6 SP No.1 4-3-6

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.

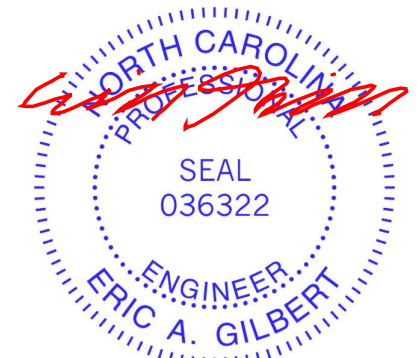
(size) 1=0-3-8, 9=0-3-8
 Max Horz 1=-295(LC 8)
 Max Uplift 1=-35(LC 13), 9=-35(LC 12)
 Max Grav 1=1094(LC 20), 9=1095(LC 19)

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

TOP CHORD 1-3=-1258/257, 3-5=-1111/466, 5-7=-1112/466, 7-9=-1259/257
 BOT CHORD 1-12=-104/910, 10-12=-13/632, 9-10=-17/788
 WEBS 5-10=-243/687, 7-10=-418/338, 5-12=-243/684, 3-12=-418/338

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 11-5-8, Exterior(2) 11-5-8 to 15-10-5, Interior(1) 15-10-5 to 22-11-0 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 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) 1, 9.



March 4, 2022

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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



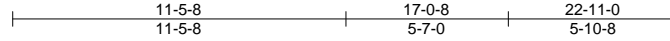
818 Soundside Road
 Edenton, NC 27932

| | | | | | |
|------------|-------|------------|-----|-----|-----------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods |
| J0822-3990 | B2GRD | COMMON | 1 | 3 | 150597799 |

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5x8 ||

Scale = 1:79.2

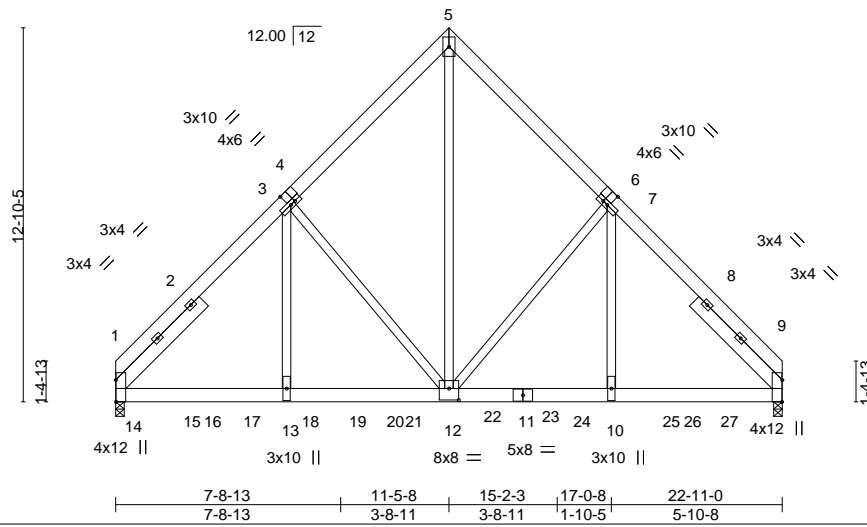


Plate Offsets (X,Y)-- [1:0-9-1,Edge], [4:0-3-0,Edge], [6:0-3-0,Edge], [9:0-9-1,Edge], [12:0-4-0,0-4-12]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.74 | Vert(LL) -0.07 | 10-12 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.81 | Vert(CT) -0.15 | 10-12 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.68 | Horz(CT) 0.04 | 9 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.03 | 1-13 | >999 | 240 | | |
| | | | | | | | Weight: 636 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 4-3-2, Right 2x6 SP No.1 4-3-2

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=0-3-8, 9=0-3-8
 Max Horz 1=-295(LC 6)
 Max Grav 1=8541(LC 2), 9=8810(LC 1)

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

TOP CHORD 1-3=-8294/0, 3-5=-6330/0, 5-7=-6312/0, 7-9=-9600/0
 BOT CHORD 1-13=0/5451, 12-13=0/5457, 10-12=0/6320, 9-10=0/6308
 WEBS 5-12=0/8319, 7-10=0/4736, 3-13=0/2678, 3-12=-1510/141, 7-12=-2921/0

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1227 lb down at 0-5-12, 1773 lb down and 46 lb up at 2-6-0, 473 lb down at 4-6-12, 479 lb down at 6-6-12, 504 lb down at 8-6-12, 1726 lb down at 10-1-8, 1574 lb down at 10-11-12, 1574 lb down at 12-11-12, 1574 lb down at 14-11-12, 1574 lb down at 16-11-12, and 1574 lb down at 18-11-12, and 1574 lb down at 20-11-12 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: 1-5=-60, 5-9=-60, 1-9=-20



March 4, 2022

Continued on page 2

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|----------------|----------------------|----------|-----------------|---|-----------|
| Job J0822-3990 | Truss B2GRD | Truss Type COMMON | Qty 1 | Ply 3 | Lot 128 Ballard Woods Job Reference (optional) | 150597799 |
|-------------------|----------------|----------------------|----------|-----------------|---|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 10=-1574(B) 14=-1227(B) 15=-1550(B) 17=-435(B) 18=-435(B) 20=-435(B) 21=-1668(B) 22=-1574(B) 23=-1574(B) 24=-1574(B) 25=-1574(B) 27=-1574(B)

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|----------------------|-----|-----|-----------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597800 |
| J0822-3990 | C1GE | COMMON SUPPORTED GAB | 1 | 1 | | |

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5x5 =

Scale = 1:53.9

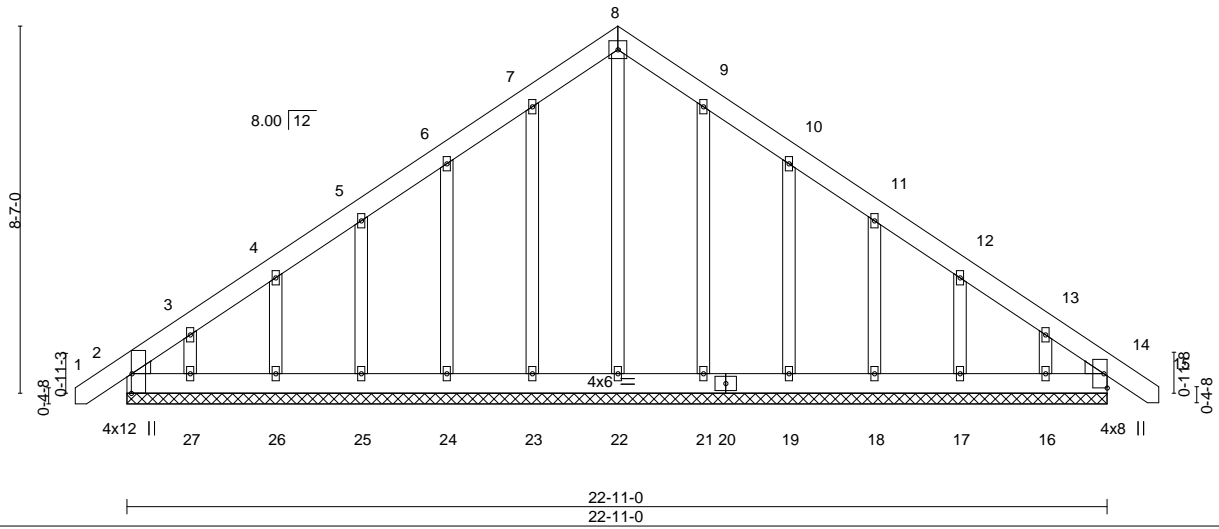


Plate Offsets (X,Y)-- [2:0-5-8,Edge]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|-----------------|-----------------|----------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.03 | Vert(LL) | -0.00 | 14 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.02 | Vert(CT) | -0.00 | 14 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.15 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCDL 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | |
| | | | | | | | | | Weight: 193 lb | FT = 20% |

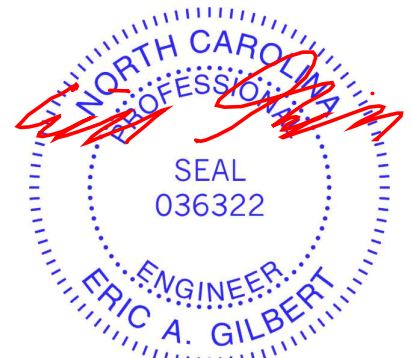
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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 22-11-0.
(lb) - Max Horz 2=251(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 21, 19, 18, 17, 14 except 27=-129(LC 12), 16=-120(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-270/199

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for live 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) 2, 23, 24, 25, 26, 21, 19, 18, 17, 14 except (jt=lb) 27=129, 16=120.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14.



March 4, 2022

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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 | Lot 128 Ballard Woods | 150597801 |
| J0822-3990 | C2 | COMMON | 5 | 1 | | |

Comtech, Inc, Fayetteville, NC - 28314,

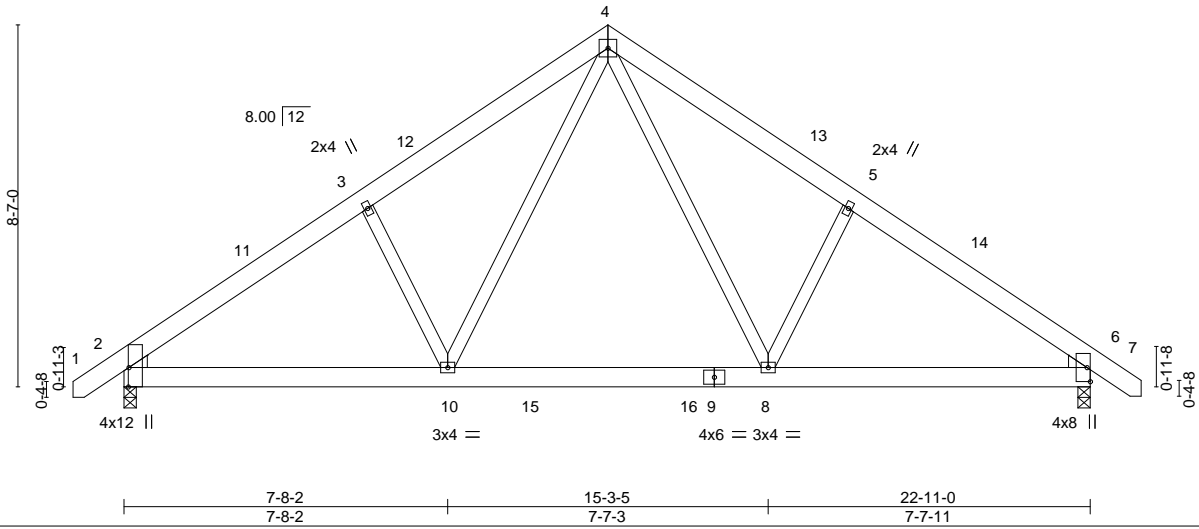
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:43 2022 Page 1

ID:JMEEBCgqLYAxJXNflaGNpWVyrYZ-IEE?3rtZsveUWJEftalnqMviGKPXQNeI5HMhdVzeJpY



5x5 =

Scale = 1:54.6



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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.22 | Vert(LL) -0.06 | 8-10 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.25 | Vert(CT) -0.09 | 8-10 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.17 | Horz(CT) 0.02 | 6 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.02 | 10 | >999 | 240 | | |
| | | | | | | | Weight: 165 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 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, 6=0-3-8
Max Horz 2=200(LC 11)
Max Uplift 2=-63(LC 12), 6=-63(LC 13)
Max Grav 2=993(LC 19), 6=993(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1278/267, 3-4=-1158/342, 4-5=-1156/342, 5-6=-1276/266
BOT CHORD 2-10=-105/1087, 8-10=0/729, 6-8=-110/955
WEBS 4-8=-121/560, 5-8=-326/224, 4-10=-122/565, 3-10=-331/225

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 11-5-12, Exterior(2) 11-5-12 to 15-10-9, Interior(1) 15-10-9 to 23-11-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



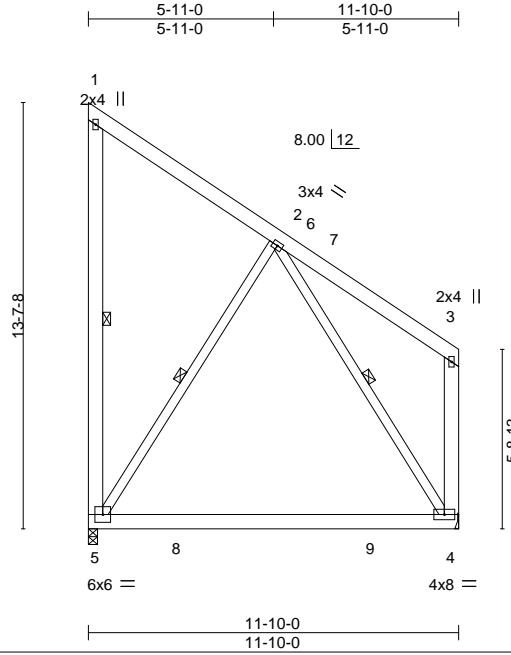
March 4, 2022

| | | | | | |
|------------|-------|--------------|-----|-----|-----------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods |
| J0822-3990 | M1 | Roof Special | 3 | 1 | 150597802 |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:44 2022 Page 1

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Scale = 1:73.6

| | | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------|-------|--------|-----|----------------|-------------|
| 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 0.33 | Vert(LL) | -0.34 | 4-5 | >397 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.70 | Vert(CT) | -0.49 | 4-5 | >278 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.24 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | -0.00 | 4-5 | >999 | 240 | | |
| | | | | | | | | | Weight: 133 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 2-5,2-4: 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 8-11-2 oc bracing.
 WEBS 1 Row at midpt 1-5, 2-5, 2-4

REACTIONS.

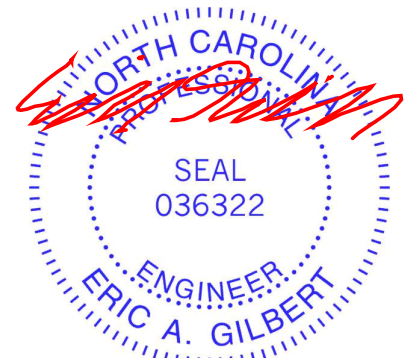
(size) 5=0-3-8, 4=Mechanical
 Max Horz 5=-247(LC 13)
 Max Uplift 5=-248(LC 13)
 Max Grav 5=667(LC 20), 4=544(LC 22)

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

WEBS 2-5=-465/384

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 6-5-7, Interior(1) 6-5-7 to 11-7-4 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, with BCDL = 10.0psf.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=248.



March 4, 2022

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 | Lot 128 Ballard Woods | 150597803 |
| J0822-3990 | M2 | ROOF SPECIAL | 3 | 1 | Job Reference (optional) | |

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8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:44 2022 Page 1

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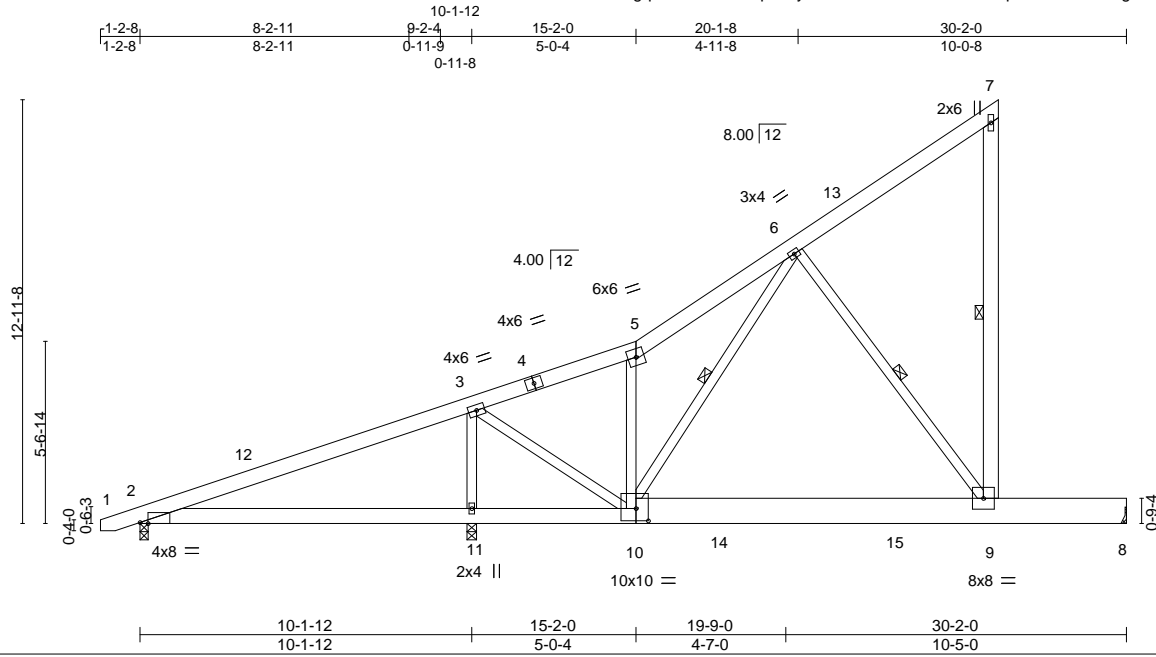


Plate Offsets (X,Y)-- [2:0-2-15,Edge], [10:0-4-8,0-4-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.69 | Vert(LL) -0.28 | 9-10 | >847 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.72 | Vert(CT) -0.50 | 9-10 | >479 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.51 | Horz(CT) -0.03 | 8 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.16 | 9-10 | >999 | 240 | | |
| | | | | | | | Weight: 241 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 8-10: 2x10 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 4-9-13 oc bracing.
 WEBS 1 Row at midpt 7-9, 6-9, 6-10

REACTIONS.

(size) 2=0-3-0, 11=0-3-8, 8=Mechanical
 Max Horz 2=408(LC 12)
 Max Uplift 2=-509(LC 19), 11=-188(LC 12), 8=-32(LC 12)
 Max Grav 2=72(LC 12), 11=2436(LC 2), 8=845(LC 2)

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

TOP CHORD 2-3=-584/2375, 3-5=-382/487, 5-6=-369/641
 BOT CHORD 2-11=-2159/118, 10-11=-2159/118
 WEBS 3-11=-2293/375, 3-10=-79/2072, 6-10=-841/266

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 26-0-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=509, 11=188.
- 6) 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: 1-5=-60, 5-7=-60, 2-9=-20, 8-9=-50



March 4, 2022

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

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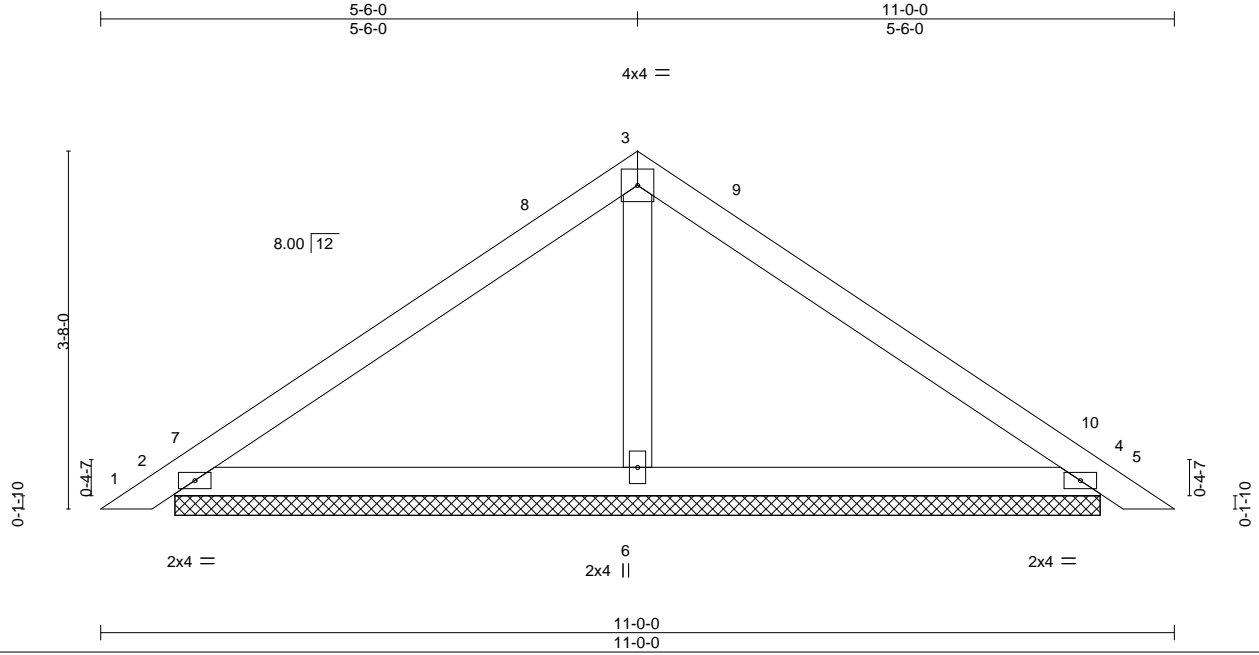
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597804 |
| J0822-3990 | PB1 | PIGGYBACK | 3 | 1 | Job Reference (optional) | |

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Scale = 1:23.6

| | | | | | |
|----------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.22 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.16 | Vert(LL) 0.01 5 n/r 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.05 | Vert(CT) 0.01 5 n/r 120 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 4 n/a n/a | Weight: 38 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.

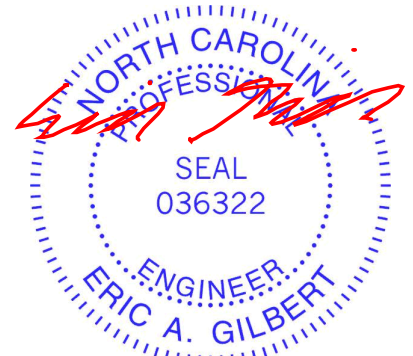
REACTIONS.

(size) 2=9-5-12, 4=9-5-12, 6=9-5-12
 Max Horz 2=-84(LC 10)
 Max Uplift 2=-30(LC 12), 4=-39(LC 13)
 Max Grav 2=219(LC 1), 4=219(LC 1), 6=380(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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-2 to 4-7-15, Interior(1) 4-7-15 to 5-6-0, Exterior(2) 5-6-0 to 9-10-13, Interior(1) 9-10-13 to 10-8-14 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 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.



March 4, 2022

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

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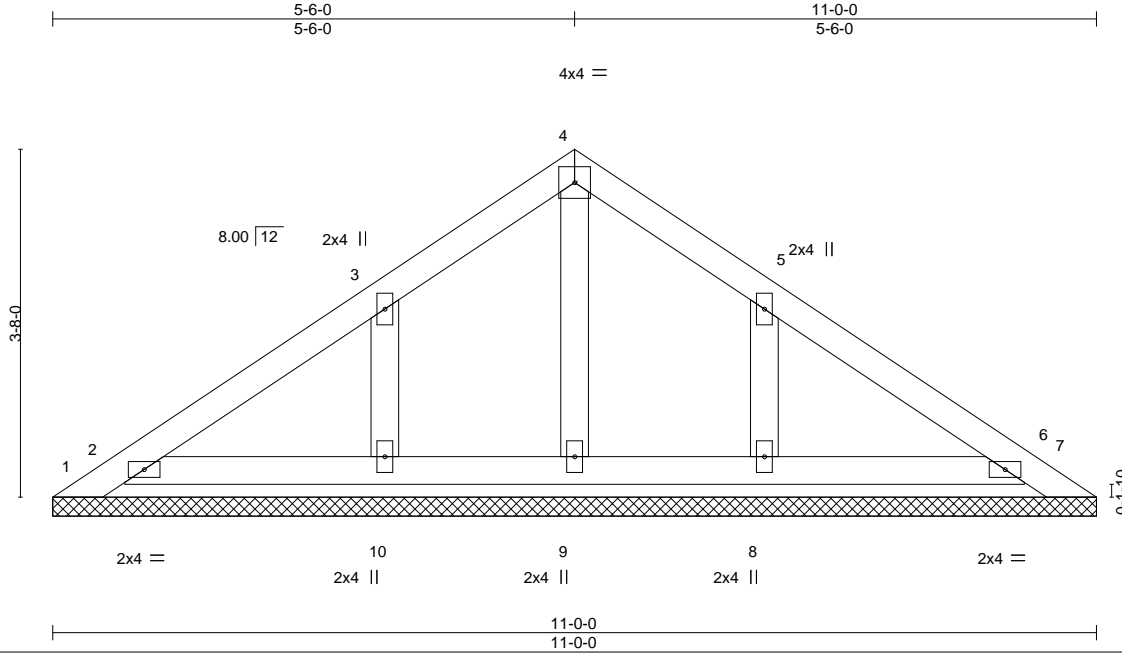
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|----------------|---------------------|----------|----------|---|-----------|
| Job J0822-3990 | Truss PB1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 128 Ballard Woods Job Reference (optional) | 150597805 |
|-------------------|----------------|---------------------|----------|----------|---|-----------|

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Scale = 1:24.3

| | | | | | |
|----------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.06 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.04 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 6 n/a n/a | Weight: 43 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.

All bearings 11-0-0.

(lb) - Max Horz 1=105(LC 11)

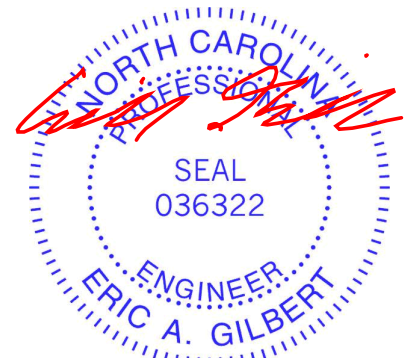
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 6 except 1=105(LC 19), 10=114(LC 12), 8=113(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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) 7, 2, 6 except (jt=lb) 1=105, 10=114, 8=113.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 4, 2022

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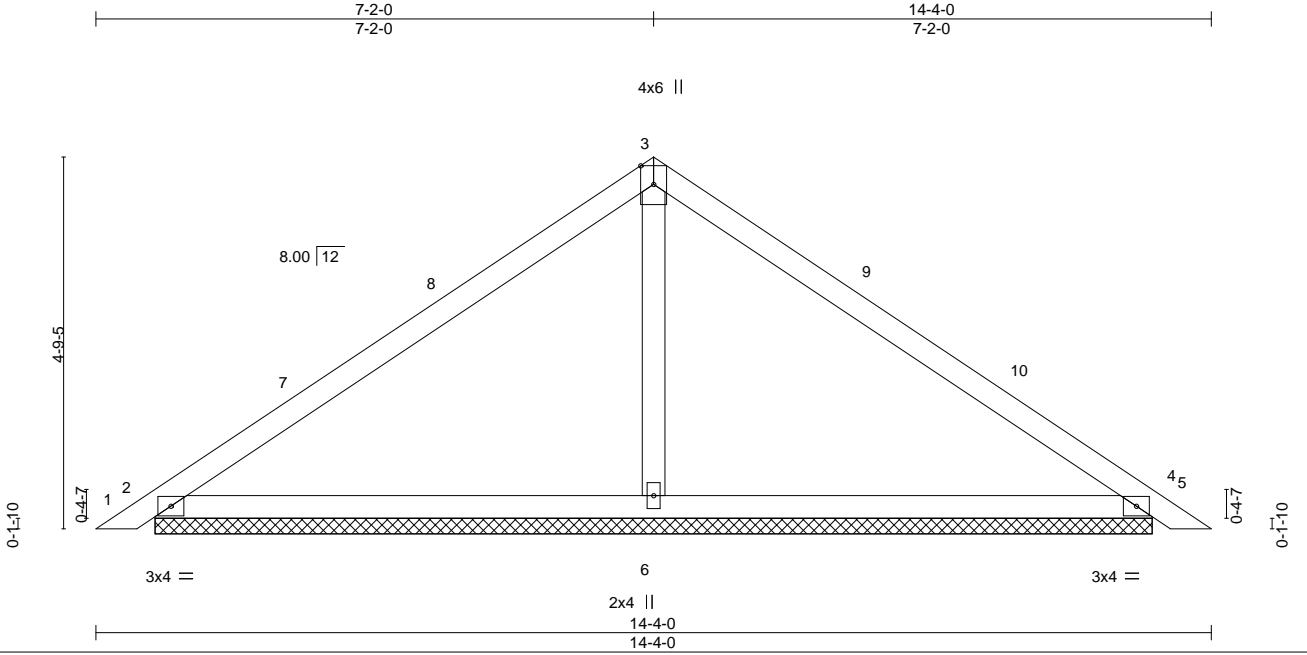


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597806 |
| J0822-3990 | PB2 | PIGGYBACK | 16 | 1 | Job Reference (optional) | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:47 2022 Page 1
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Scale = 1:29.6

| | | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|------|-------|--------|-----|---------------|-------------|
| 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 0.43 | Vert(LL) | 0.02 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.30 | Vert(CT) | 0.03 | 5 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.10 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 51 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.

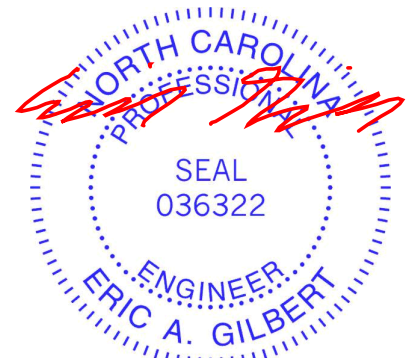
REACTIONS.

(size) 2=12-9-12, 4=12-9-12, 6=12-9-12
Max Horz 2=-110(LC 10)
Max Uplift 2=-38(LC 12), 4=-49(LC 13)
Max Grav 2=284(LC 1), 4=284(LC 1), 6=517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-319/123

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-2 to 4-7-15, Interior(1) 4-7-15 to 7-2-0, Exterior(2) 7-2-0 to 11-6-13, Interior(1) 11-6-13 to 14-0-14 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 30.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-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.



March 4, 2022

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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

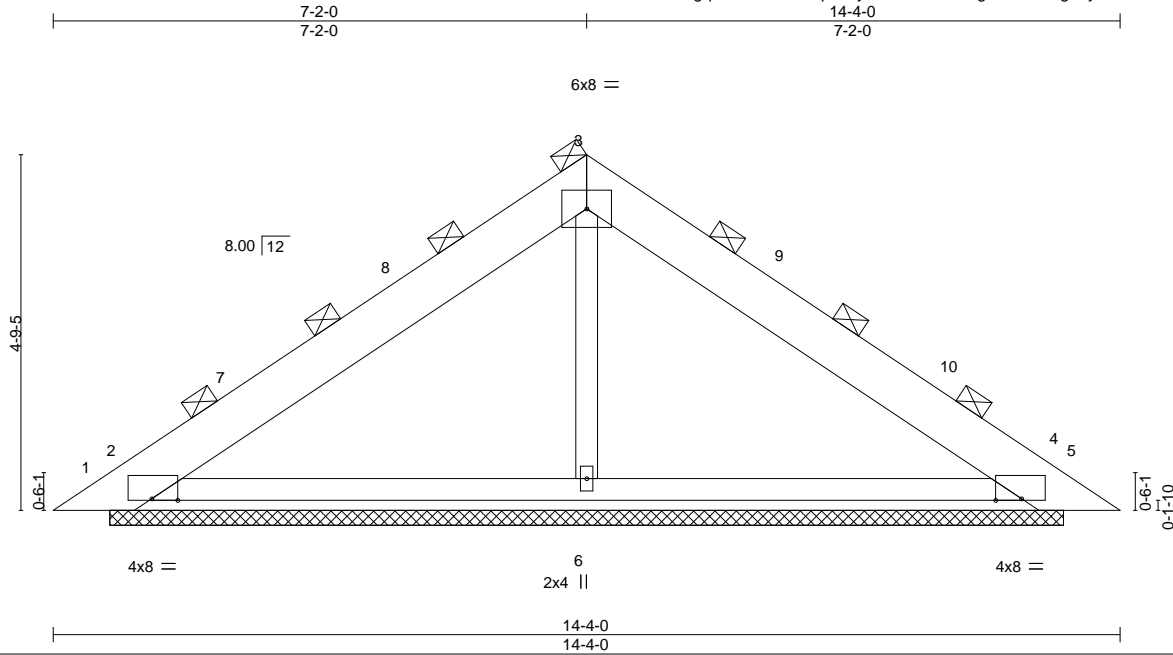


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597807 |
| J0822-3990 | PB2A | PIGGYBACK | 2 | 1 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:48 2022 Page 1
ID:JMEBCqYAxJXNflaGNpWVyrYZ-fC1u6YxigRGnc47Dg7LyXPdYiL1R5e0UFZ41JzeJpT



| Plate Offsets (X,Y)-- | | [2:0-4-3,Edge], [4:0-4-3,Edge] | |
|-----------------------|-----------------|--------------------------------|-------------------------|
| LOADING (psf) | SPACING- | 5-0-0 | CSI. |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.31 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.58 |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.16 |
| BCDL 10.0 | Code | IRC2015/TPI2014 | Matrix-S |
| | | | DEFL. |
| | | | in (loc) l/defl L/d |
| | | | Vert(LL) n/a - n/a 999 |
| | | | Vert(CT) n/a - n/a 999 |
| | | | Horz(CT) 0.00 5 n/a n/a |
| | | | PLATES |
| | | | MT20 |
| | | | GRIP |
| | | | 244/190 |
| | | | Weight: 76 lb FT = 20% |

LUMBER-

TOP CHORD 2x8 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 12-9-12.
(lb) - Max Horz 1=265(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 1=779(LC 19), 5=703(LC 20), 2=525(LC 12), 4=509(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 1=376(LC 12), 5=326(LC 13), 2=1613(LC 19), 4=1589(LC 20), 6=894(LC 1)

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

TOP CHORD 1-2=-352/498, 2-3=-498/295, 3-4=-475/293, 4-5=-163/289
WEBS 3-6=-563/142

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-9 to 4-11-5, Interior(1) 4-11-5 to 7-2-0, Exterior(2) 7-2-0 to 11-6-13, Interior(1) 11-6-13 to 13-9-7 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 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 779 lb uplift at joint 1, 703 lb uplift at joint 5, 525 lb uplift at joint 2 and 509 lb uplift at joint 4.
- 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.



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



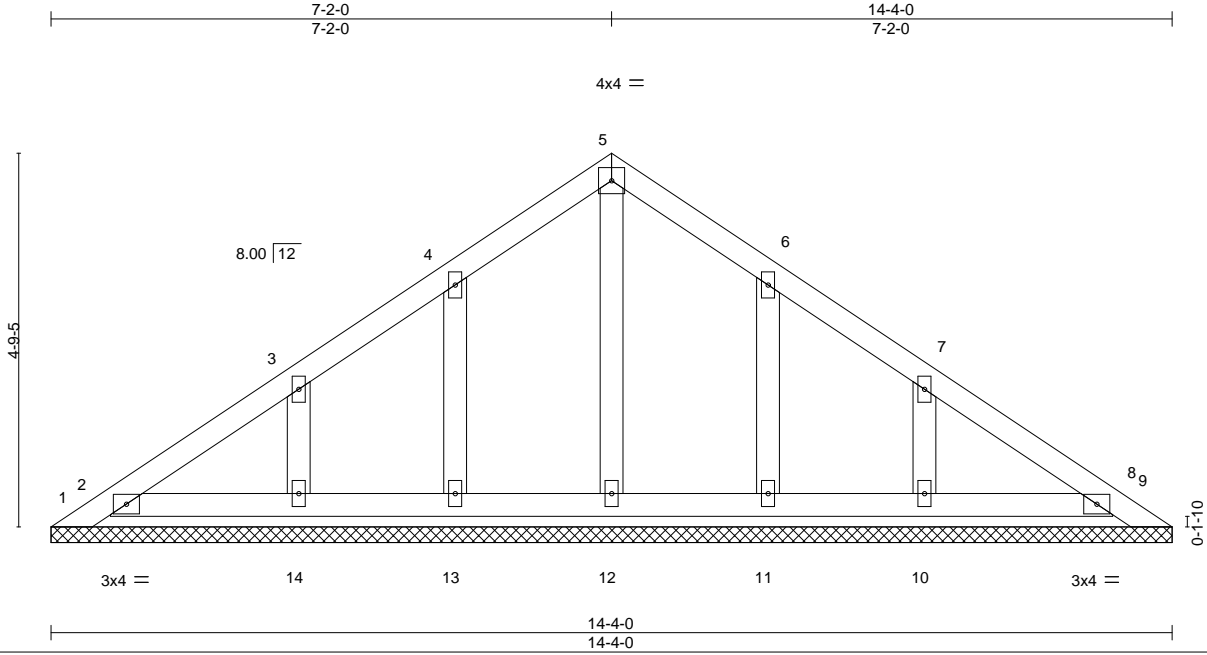
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597808 |
| J0822-3990 | PB2GE | GABLE | 2 | 1 | Job Reference (optional) | |

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ID:JMEBCgqIYAxJXNflaGNpWVyrYVZ-ba9eXEzyC3WUsOHbnYNQcqx9C9rYZaRnitZ8NnzeJpR



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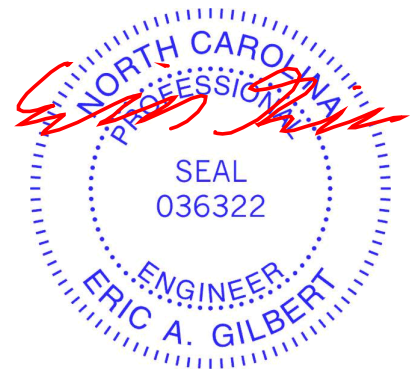
| | | | | | |
|----------------------|-----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.05 | Vert(LL) n/a - n/a 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.03 | Horz(CT) 0.00 8 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 63 lb | FT = 20% |

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

REACTIONS. All bearings 14-4-0.
 (lb) - Max Horz 1=138(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 8, 13, 11, 10 except 1=105(LC 10), 14=100(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8, 12, 13, 14, 11, 10

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 9, 2, 8, 13, 11, 10 except (jt=lb) 1=105, 14=100.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



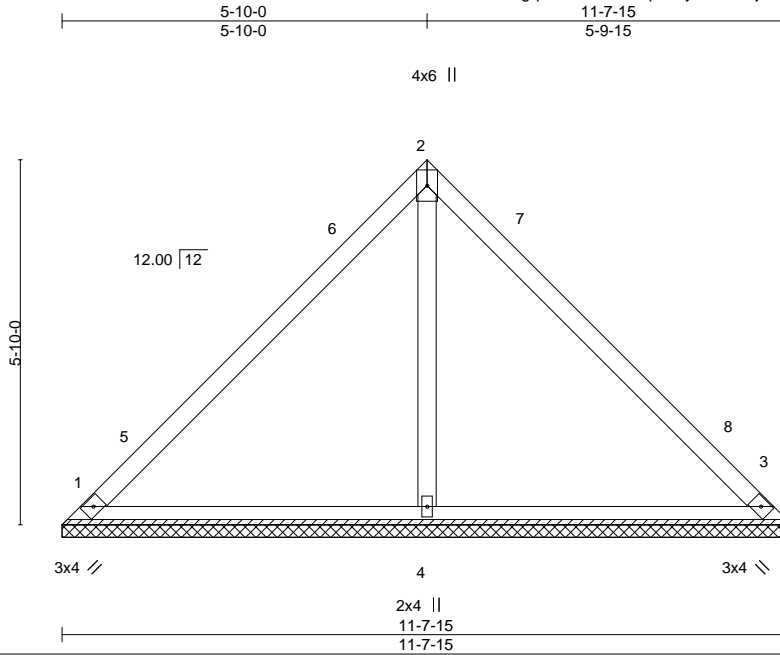
March 4, 2022

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597809 |
| J0822-3990 | VB1 | GABLE | 1 | 1 | Job Reference (optional) | |

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ID:JMEBCgqYAxJXNflaGNpWVyrYZ-3nj0ka_azMeLTyroLFug92E1UZ8l0TxxXliw2zeJpQ



Scale = 1:36.8

| | | | | | | | | | |
|----------------------|----------------------|-------------|--------------|------|-------|--------|-----|---------------|-------------|
| 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) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.22 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.11 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | Weight: 48 lb | FT = 20% |

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=11-7-15, 3=11-7-15, 4=11-7-15
 Max Horz 1=131(LC 8)
 Max Uplift 1=33(LC 13), 3=33(LC 13)
 Max Grav 1=249(LC 1), 3=248(LC 1), 4=380(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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-10-0, Exterior(2) 5-10-0 to 10-2-12, Interior(1) 10-2-12 to 11-3-11 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 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) 1, 3.



March 4, 2022

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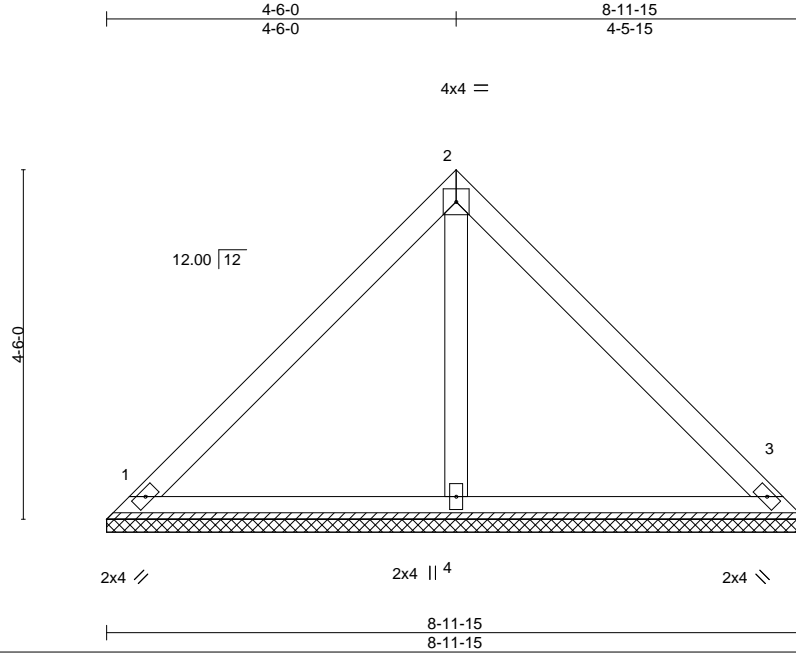
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597810 |
| J0822-3990 | VB2 | VALLEY | 1 | 1 | Job Reference (optional) | |

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ID:JMEBCgqYAxJXNflaGNpWVyrYVZ-XzGOyw_CkgmC5iQ_vzPvhFnDtyWU1Uk4AB2FSUzeJpP



| 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 | 999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.13 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.05 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | | | | | | Weight: 37 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.

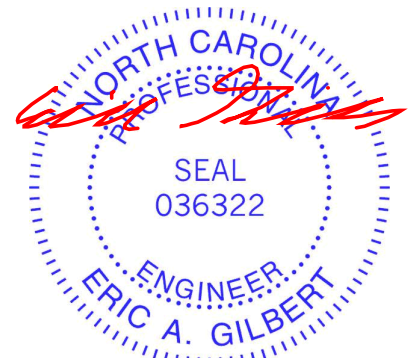
REACTIONS.

(size) 1=8-11-15, 3=8-11-15, 4=8-11-15
 Max Horz 1=-99(LC 8)
 Max Uplift 1=-36(LC 13), 3=-36(LC 13)
 Max Grav 1=202(LC 1), 3=202(LC 1), 4=259(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 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
- 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) 1, 3.



March 4, 2022

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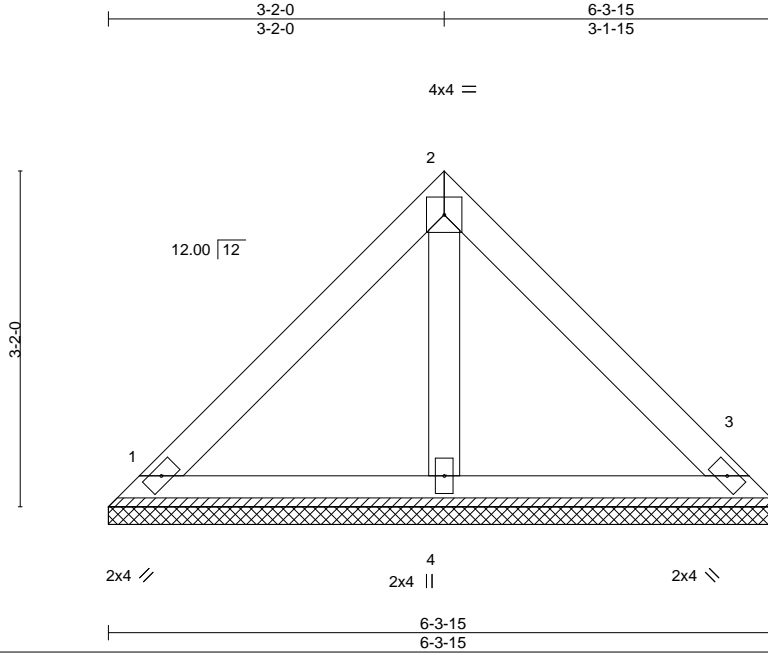
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597811 |
| J0822-3990 | VB3 | VALLEY | 1 | 1 | Job Reference (optional) | |

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ID:JMEBCgqIYAxJXNflaGNpWVyrYVZ-XzGOyw_CkgmC5iQ_vzPvhFnFSyXY1UB4AB2FSUzeJpP



Scale = 1:21.7

| | | | | | | | | | |
|----------------------|----------------------|-------------|--------------|------|-------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.02 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | | | 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=6-3-15, 3=6-3-15, 4=6-3-15
 Max Horz 1=67(LC 11)
 Max Uplift 1=-24(LC 13), 3=-24(LC 13)
 Max Grav 1=137(LC 1), 3=137(LC 1), 4=176(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 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
- 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) 1, 3.



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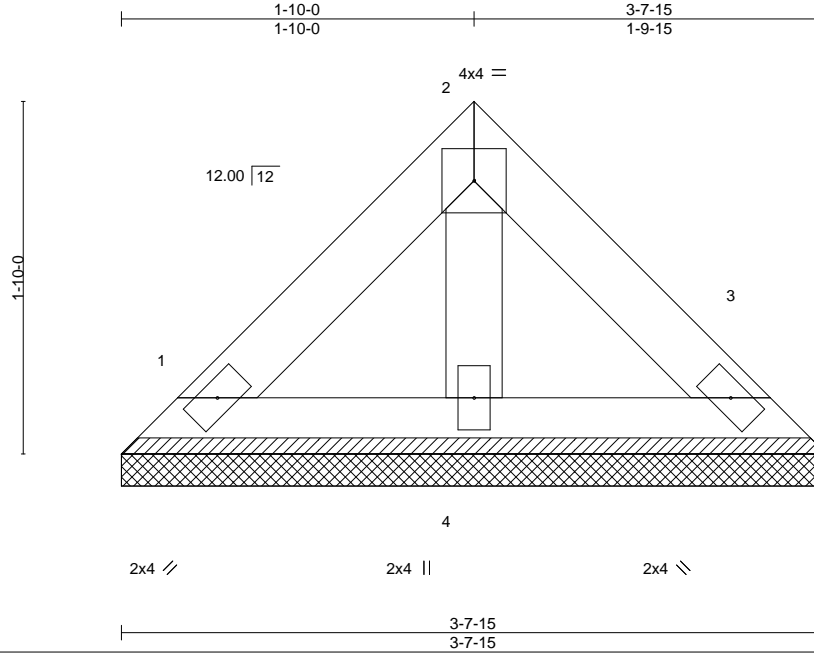
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 128 Ballard Woods | 150597812 |
| J0822-3990 | VB4 | VALLEY | 1 | 1 | Job Reference (optional) | |

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8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 4 11:08:53 2022 Page 1

ID:JMEBCqYAxJXNflaGNpWVyrYZ-09qn9G?rV_u3jr?ATgw8ETKSkMISmbEOrno_wzeJpO



Scale: 1"=1'

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.03 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.01 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | | | | | Weight: 14 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 3-7-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-7-15, 3=3-7-15, 4=3-7-15
 Max Horz 1=35(LC 9)
 Max Uplift 1=-13(LC 13), 3=-13(LC 13)
 Max Grav 1=72(LC 1), 3=72(LC 1), 4=93(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 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
- 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) 1, 3.



March 4, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

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/TP1: 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/TP1 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.