



ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature **David Landry**
David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (2))

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GORDER

| END REACTION (LFT) | REQ'D STUDS FOR (LFT) HEADERS | END REACTION (LFT) | REQ'D STUDS FOR (LFT) HEADERS | END REACTION (LFT) | REQ'D STUDS FOR (LFT) HEADERS |
|--------------------|-------------------------------|--------------------|-------------------------------|--------------------|-------------------------------|
| 1700 | 1 | 2550 | 1 | 3400 | 1 |
| 3400 | 2 | 5100 | 2 | 6800 | 2 |
| 5100 | 3 | 7650 | 3 | 10200 | 3 |
| 6800 | 4 | 10200 | 4 | 13600 | 4 |
| 8500 | 5 | 12750 | 5 | 17000 | 5 |
| 10200 | 6 | 15300 | 6 | | |
| 11900 | 7 | | | | |
| 13600 | 8 | | | | |
| 15300 | 9 | | | | |

All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes

1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Attic Trusses.
3. Adjust spacing as needed not to exceed 24"oc.

Roof Area = 3115.52 sq.ft.
Ridge Line = 90.43 ft.
Hip Line = 0 ft.
Horiz. OH = 119.44 ft.
Raked OH = 162.58 ft.
Decking = 107 sheets

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

Hatch Legend

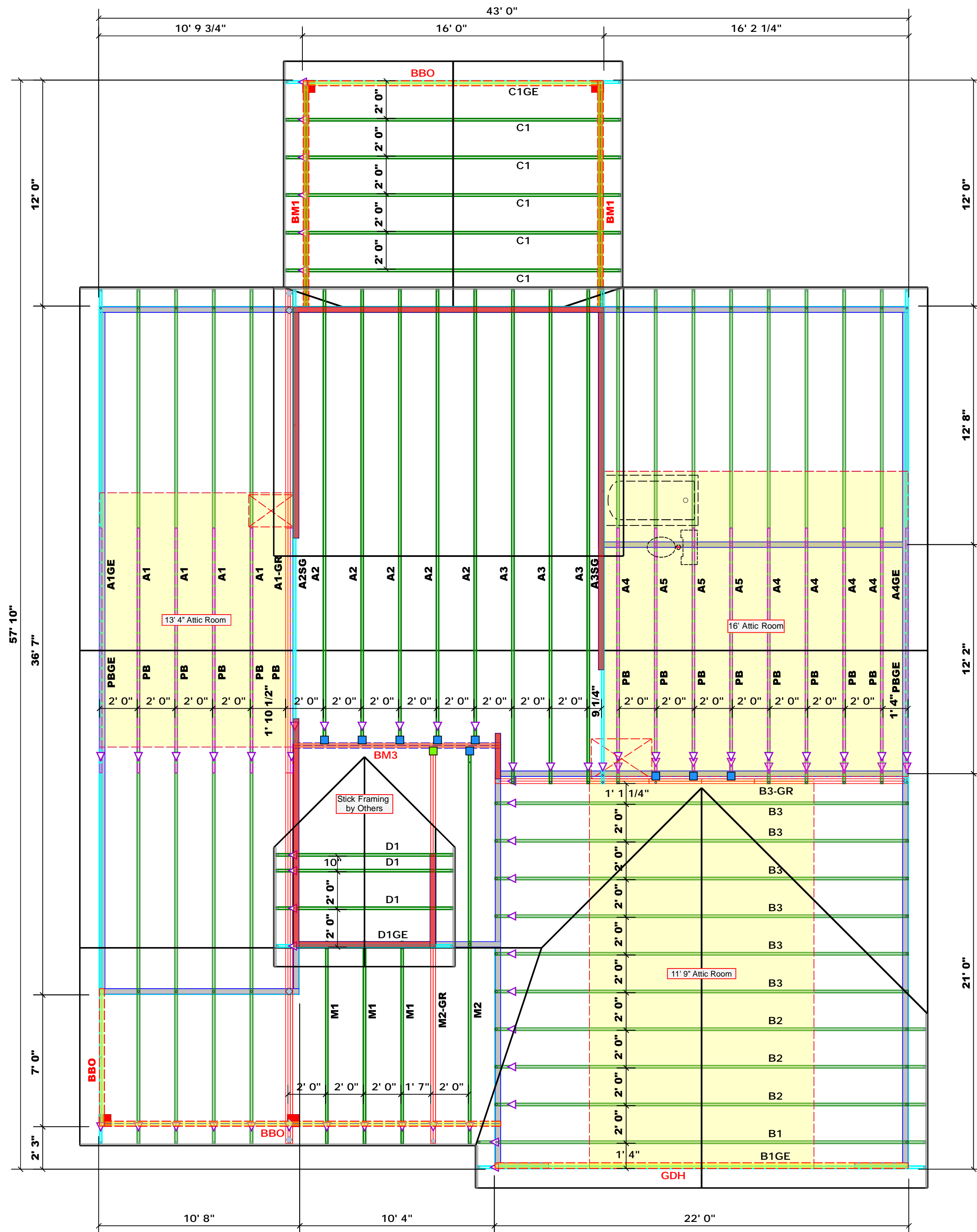
- Second Floor Walls
- Drop Beam
- Flush Beam

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|------------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| ■ | HUS26 | USP | 9 | NA | 16d/3-1/2" | 16d/3-1/2" |
| ■ | THD26-2 | USP | 1 | NA | 16d/3-1/2" | 10d/3" |

| Products | | | | |
|----------|--------|----------------------------|-------|---------|
| PlotID | Length | Product | Plies | Net Qty |
| BM1 | 13' 0" | 1-3/4"x 9-1/4" LVL Kerto-S | 2 | 4 |
| BM2 | 13' 0" | 1-3/4"x 16" LVL Kerto-S | 2 | 2 |
| GDH | 22' 0" | 1-3/4"x 14" LVL Kerto-S | 2 | 2 |

| Products | | | | |
|----------|--------|----------------------------|-------|---------|
| PlotID | Length | Product | Plies | Net Qty |
| BM3 | 11' 0" | 1-3/4"x 9-1/4" LVL Kerto-S | 2 | 2 |

1 Truss Placement Plan
Scale: 1/4" = 1'



▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

| CITY / CO. | ADDRESS | MODEL | DATE REV. | DRAWN BY | SALES REP. |
|--------------------|---------------------|-------|-----------|-----------------|--------------|
| Clayton / Johnston | 41 Sugarberry Place | Roof | 11/11/22 | Jonathan Landry | Lenny Norris |

| BUILDER | JOB NAME | PLAN | SEAL DATE | QUOTE # | JOB # |
|--------------------|----------------------|--------|-----------|---------|------------|
| Wellco Contractors | Lot 124 Hidden Lakes | Plan 7 | N/A | | J1122-5621 |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbindustry.com



RE: J1122-5621
Lot 124 Hidden Lakes

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Wellco Contractors Project Name: J1122-5621
Lot/Block: 124 Model: Plan 7
Address: 41 Sugarberry Place Subdivision: Hidden Lakes
City: Clayton State: NC

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: 150 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 24 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
| 1 | I54203506 | A1 | 9/14/2022 | 21 | I54203526 | M2 | 9/14/2022 |
| 2 | I54203507 | A1-GR | 9/14/2022 | 22 | I54203527 | M2-GR | 9/14/2022 |
| 3 | I54203508 | A1GE | 9/14/2022 | 23 | I54203528 | PB | 9/14/2022 |
| 4 | I54203509 | A2 | 9/14/2022 | 24 | I54203529 | PBGE | 9/14/2022 |
| 5 | I54203510 | A2SG | 9/14/2022 | | | | |
| 6 | I54203511 | A3 | 9/14/2022 | | | | |
| 7 | I54203512 | A3SG | 9/14/2022 | | | | |
| 8 | I54203513 | A4 | 9/14/2022 | | | | |
| 9 | I54203514 | A4GE | 9/14/2022 | | | | |
| 10 | I54203515 | A5 | 9/14/2022 | | | | |
| 11 | I54203516 | B1 | 9/14/2022 | | | | |
| 12 | I54203517 | B1GE | 9/14/2022 | | | | |
| 13 | I54203518 | B2 | 9/14/2022 | | | | |
| 14 | I54203519 | B3 | 9/14/2022 | | | | |
| 15 | I54203520 | B3-GR | 9/14/2022 | | | | |
| 16 | I54203521 | C1 | 9/14/2022 | | | | |
| 17 | I54203522 | C1GE | 9/14/2022 | | | | |
| 18 | I54203523 | D1 | 9/14/2022 | | | | |
| 19 | I54203524 | D1GE | 9/14/2022 | | | | |
| 20 | I54203525 | M1 | 9/14/2022 | | | | |

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

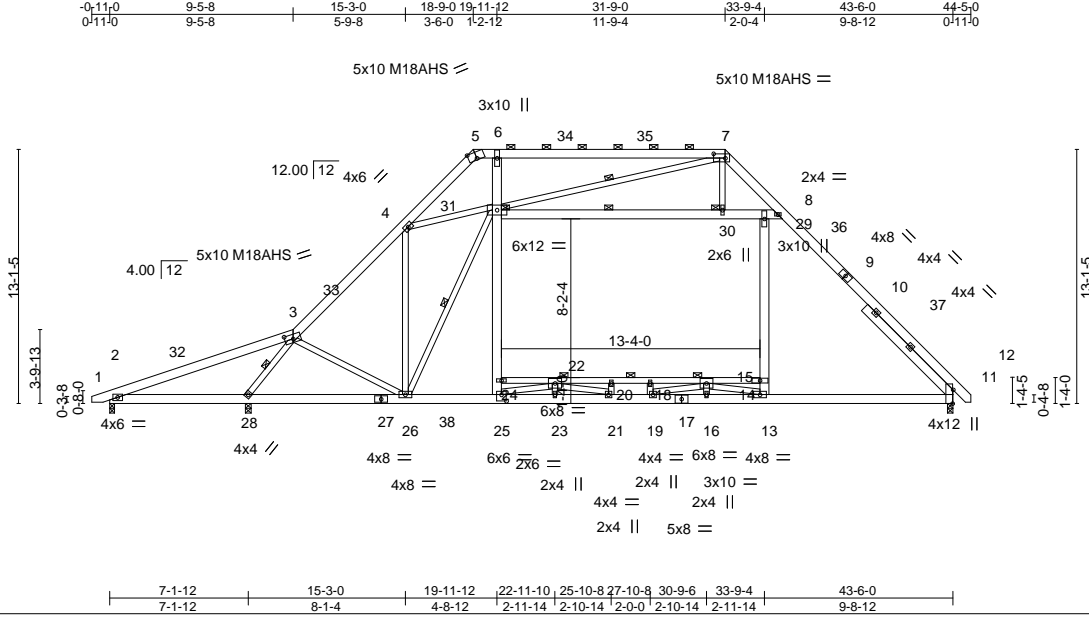
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENGCO. Any project specific information included is for TRENGCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENGCO 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.



September 14, 2022

| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|----------------------|-----------|
| Job J1122-5621 | Truss A1 | Truss Type ATTIC | Qty 4 | Ply 1 | Lot 124 Hidden Lakes | 154203506 |
|-------------------|-------------|---------------------|----------|----------|----------------------|-----------|

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:02 2022 Page 1
 ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-IRKinoFbsLXJ417SzCORY_hqQA44kvVVEI9KMjyJZ



Scale = 1:111.8

| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [3:0-5-0,0-2-12], [5:0-5-0,Edge], [7:0-7-4,0-2-12], [11:0-8-9,Edge], [25:0-3-0,0-4-0] |
|-----------------------|---|

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.77 | Vert(LL) -0.19 | 20-22 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 1.00 | Vert(CT) -0.37 | 20-22 | >999 | 240 | M18AHS | 186/179 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.69 | Horz(CT) 0.06 | 11 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.14 | 25 | >999 | 240 | | |
| | | | | | | | Weight: 441 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except |
| BOT CHORD 2x6 SP No.1 *Except* 14-24: 2x4 SP No.1 | 2-0-0 oc purlins (5-2-3 max.): 5-7. |
| WEBS 2x4 SP No.2 *Except* 6-25,13-29,8-31: 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-9-6 oc bracing: 2-28. |
| SLIDER Right 2x6 SP No.1 6-4-14 | 3-7-0 oc bracing: 14-24 |
| | WEBS 1 Row at midpt 3-28, 30-31, 7-31, 26-31 |
| | JOINTS 1 Brace at Jt(s): 30, 31 |

REACTIONS. (size) 2=0-3-0, 28=0-3-8 (req. 0-3-11), 11=0-3-8
 Max Horz 2=409(LC 9)
 Max Uplift 2=474(LC 20), 28=222(LC 9)
 Max Grav 2=146(LC 9), 28=3126(LC 26), 11=2431(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-869/1846, 3-4=-2241/234, 4-5=-1222/151, 5-6=-926/180, 6-7=-954/244,
 7-8=-1482/27, 8-11=-2938/138
 BOT CHORD 2-28=-1664/444, 26-28=0/738, 25-26=0/1904, 23-25=0/3358, 21-23=0/3358,
 19-21=0/4254, 16-19=0/3104, 13-16=0/3104, 11-13=0/1865, 22-24=-150/299,
 20-22=-2583/0, 18-20=-2583/0, 15-18=-2583/0, 14-15=-82/440
 WEBS 3-28=-3577/560, 3-26=-174/1036, 24-25=0/1012, 24-31=0/1247, 6-31=-323/602,
 13-14=0/969, 14-29=0/1201, 30-31=-1204/445, 29-30=-1226/432, 8-29=-1208/433,
 7-31=-550/186, 7-30=0/700, 4-26=-308/796, 26-31=-1197/226, 4-31=-1224/517,
 18-19=-274/0, 20-21=-265/0, 22-25=-1859/0, 21-22=0/991, 13-15=-1901/0,
 15-19=0/1211

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 18-10-2, Exterior(2) 18-10-2 to 23-2-15, Interior(1) 23-2-15 to 31-9-0, Exterior(2) 31-9-0 to 36-1-13, Interior(1) 36-1-13 to 44-3-6 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.
 - 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). 8-11, 30-31, 29-30, 8-29; Wall dead load (5.0psf) on member(s). 24-31, 14-29
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22, 18-20, 15-18, 14-15
 - WARNING: Required bearing size at joint(s) 28 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb)



September 14, 2022

Continued on Page 2 of 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

TRENCO
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203506 |
| J1122-5621 | A1 | ATTIC | 4 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:02 2022 Page 2
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NOTES-

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

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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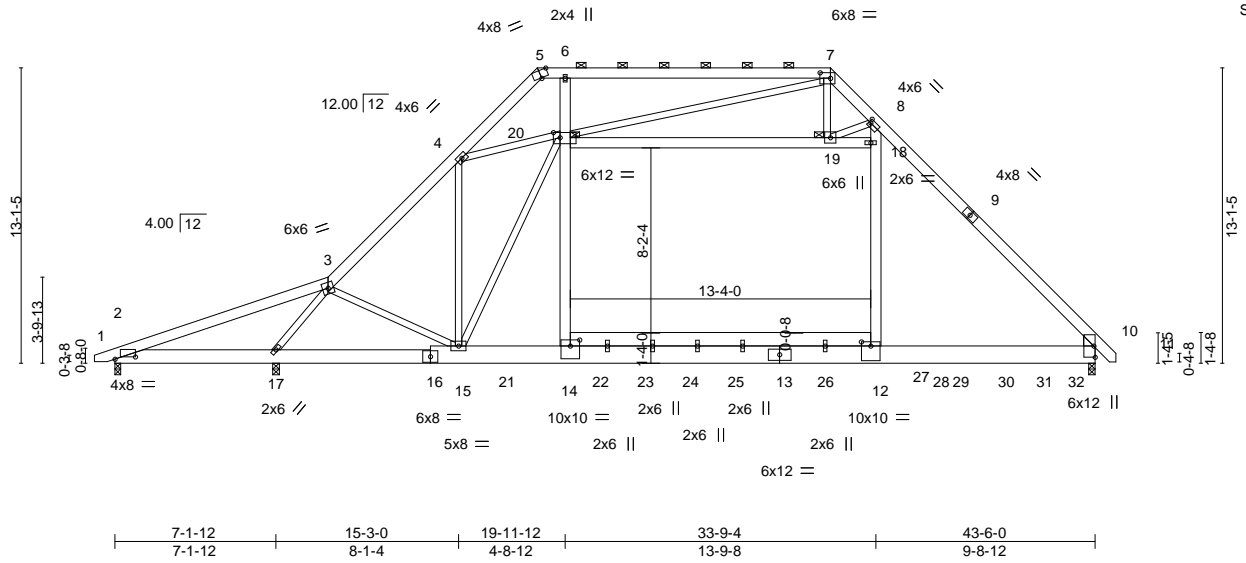
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | 154203507 |
| J1122-5621 | A1-GR | ATTIC | 1 | 3 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:07 2022 Page 1

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Scale: 1/8"=1'

| | | | | | | | | | |
|-----------------------|----------------------|--|-------------|--------------|-------------|--------|-----|-----------------|-------------|
| Plate Offsets (X,Y)-- | | [2:0-10-13,0-1-4], [5:0-4-0,Edge], [7:0-5-8,0-3-0], [8:0-1-0,0-2-0], [12:0-5-0,0-2-4], [14:0-5-0,0-3-4], [20:0-3-8,0-2-12] | | | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.69 | Vert(LL) | -0.20 12-14 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.54 | Vert(CT) | -0.35 12-14 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.76 | Horz(CT) | 0.04 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.04 14 | >999 | 240 | Weight: 1460 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1 *Except*
 10-13,13-16: 2x10 SP 2400F 2.0E
 WEBS 2x4 SP No.2 *Except*
 6-14,8-12,18-20: 2x6 SP No.1

WEDGE
 Right: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-17.
 JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS.

(size) 2=0-3-0, 17=0-3-8, 10=0-3-8
 Max Horz 2=410(LC 7)
 Max Uplift 2=326(LC 16), 17=177(LC 5)
 Max Grav 2=622(LC 14), 17=4570(LC 22), 10=9370(LC 14)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1517/1533, 3-4=-6050/42, 4-5=-1039/257, 5-6=-791/185, 6-7=-815/242, 7-8=-3081/0, 8-10=-10257/0
 BOT CHORD 2-17=-1214/1396, 15-17=0/4311, 14-15=0/6814, 12-14=0/6880, 10-12=0/6907
 WEBS 3-17=-5295/294, 3-15=-182/871, 14-20=0/4724, 6-20=-583/591, 12-18=0/7706, 8-18=0/7600, 19-20=-4305/324, 18-19=-161/292, 7-20=-2904/259, 7-19=0/2463, 4-15=-355/3608, 15-20=-5723/254, 4-20=-4547/444, 8-19=-5164/392

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: 2x8 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-5-0 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=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.



September 14, 2022

Continued on page 2

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

| | | | | | |
|------------|-------|------------|-----|----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes |
| J1122-5621 | A1-GR | ATTIC | 1 | 3 | Job Reference (optional) |

I54203507

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:07 2022 Page 2
 ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-5O7bqWJ_QP_qQrA4F7CZ8?hYqR_2l_4GFV0w?Zydj7U

NOTES-

- 6) Concentrated loads from layout are not present in Load Case(s): #3 Dead + Uninhabitable Attic Without Storage; #4 Dead + 0.6 MWFRS Wind (Pos. Internal) Left; #5 Dead + 0.6 MWFRS Wind (Pos. Internal) Right; #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #8 Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel; #9 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #11 Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #20 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #21 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #22 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #23 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel).
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Ceiling dead load (10.0 psf) on member(s). 19-20, 18-19; Wall dead load (5.0psf) on member(s).14-20, 12-18
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=326, 17=177.
- 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) 375 lb down at 21-4-4, 375 lb down at 25-4-4, 1103 lb down at 27-4-4, 1103 lb down at 29-4-4, 1103 lb down at 31-4-4, 1103 lb down at 33-4-4, 1103 lb down at 35-4-4, 1103 lb down at 37-4-4, and 1103 lb down at 39-4-4, and 1103 lb down at 41-4-4 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: 1-3=-60, 3-5=-60, 5-7=-60, 7-11=-60, 2-14=-20, 12-14=-40, 10-12=-20, 18-20=-20
 - Drag: 14-20=-10, 12-18=-10
 - Concentrated Loads (lb)
 - Vert: 13=-450(F) 22=-251(F) 23=-251(F) 24=-251(F) 25=-450(F) 26=-450(F) 27=-450(F) 28=-450(F) 29=-450(F) 30=-450(F) 32=-450(F)

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

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



818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|---------------|---------------------|----------|----------|----------------------|-----------|
| Job J1122-5621 | Truss A1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 124 Hidden Lakes | 154203508 |
|-------------------|---------------|---------------------|----------|----------|----------------------|-----------|

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:06 2022 Page 1
 ID:6sgj4L0LhQy4UVHIBGzV0cye4nu-dCZDdAIMf5szohuhPhKco8PM2Y10Va6QRGNT7yjd7V

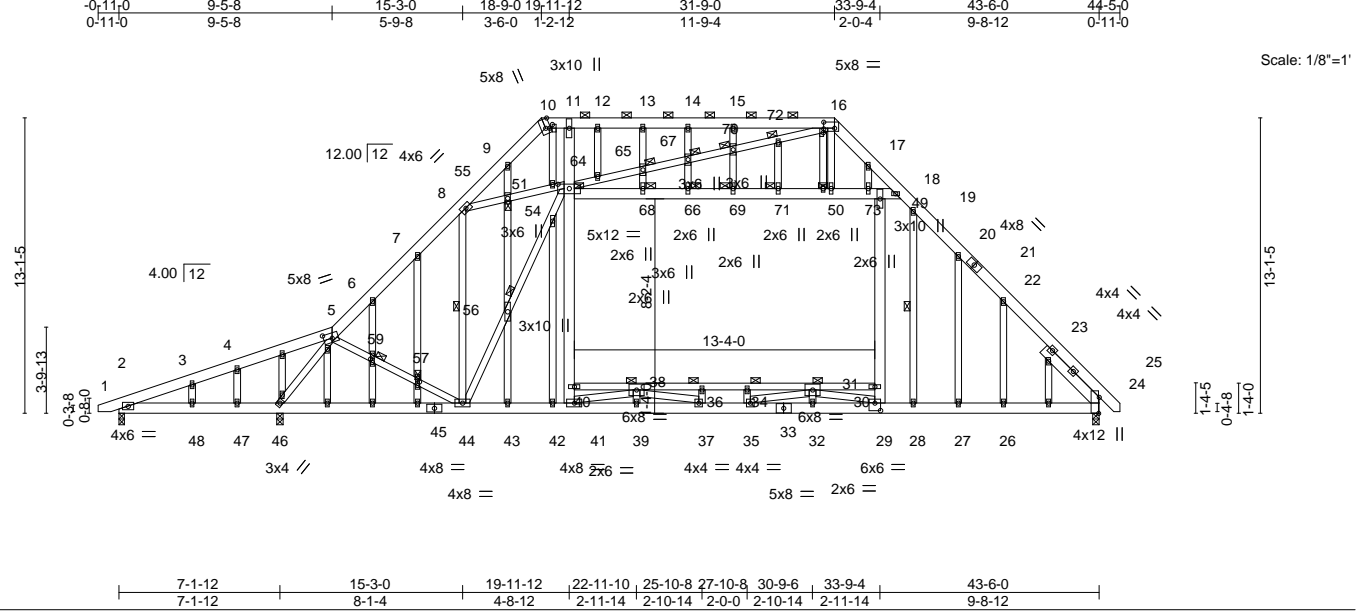


Plate Offsets (X,Y)-- [5:0-4-8,0-2-12], [10:0-4-15,Edge], [16:0-5-12,0-3-4], [16:0-2-0,0-0-4], [24:0-8-9,Edge], [29:0-3-0,0-4-0], [51:0-6-0,0-2-4], [53:0-2-0,0-1-8], [57:0-1-15,0-1-0], [59:0-1-15,0-1-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.54 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.92 | Vert(LL) -0.17 34-36 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.84 | Vert(CT) -0.35 36 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.06 24 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.16 26 >999 240 | | |
| | | | | Weight: 548 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except |
| BOT CHORD 2x6 SP No.1 *Except* 30-40: 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: |
| WEBS 2x4 SP No.2 *Except* 11-41,29-49,18-51: 2x6 SP No.1 | WEBS 1 Row at midpt 8-44, 19-28 |
| OTHERS 2x4 SP No.2 | JOINTS 1 Brace at Jt(s): 50, 51, 55, 56, 57, 59, 65, 66, 67, 68, 69, 70, 71, 72 |
| SLIDER Right 2x6 SP No.1 3-5-6 | |

REACTIONS. (size) 2=0-3-0, 46=0-3-8, 24=0-3-8
 Max Horz 2=526(LC 9)
 Max Uplift 2=425(LC 8), 46=374(LC 12), 24=121(LC 13)
 Max Grav 2=210(LC 9), 46=2865(LC 26), 24=2253(LC 2)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-840/1353, 3-4=-810/1395, 4-5=-751/1386, 5-6=-2066/408, 6-7=-2057/425,
 7-8=-1976/465, 8-9=-1596/548, 9-10=-1252/420, 10-11=-1070/430, 11-12=-1072/483,
 12-13=-1072/483, 13-14=-1072/483, 14-15=-1072/483, 15-16=-1075/482,
 16-17=-1561/427, 17-18=-1801/305, 18-19=-2556/291, 19-20=-2528/456,
 20-22=-2495/367, 22-24=-2804/165
 BOT CHORD 2-48=-1121/286, 47-48=-1121/286, 46-47=-1121/286, 44-46=-237/774, 43-44=0/1769,
 42-43=0/1769, 41-42=0/1769, 39-41=0/3278, 37-39=0/3278, 35-37=0/4188, 32-35=0/3080,
 29-32=0/3080, 28-29=0/1760, 27-28=0/1760, 26-27=0/1760, 24-26=0/1760,
 38-40=-39/321, 36-38=-2643/0, 34-36=-2643/0, 31-34=-2643/0, 30-31=-73/367
 WEBS 5-46=-2910/477, 5-59=-185/974, 57-59=-179/931, 44-57=-168/944, 40-41=0/691,
 40-51=0/935, 11-51=-131/622, 29-30=0/1073, 30-49=0/1304, 51-68=-992/622,
 66-68=-993/620, 66-69=-993/620, 69-71=-993/620, 50-71=-993/620, 50-73=-1017/613,
 49-73=-1020/613, 18-49=-1005/629, 51-64=-547/407, 64-65=-544/412, 65-67=-532/404,
 67-70=-535/407, 70-72=-520/399, 16-72=-542/409, 16-50=-115/776, 8-44=-389/739,
 44-56=-982/323, 54-56=-994/319, 51-54=-835/273, 8-55=-1047/801, 51-55=-1050/799,
 34-35=-272/0, 36-37=-268/0, 38-41=-2032/0, 37-38=0/988, 29-31=-1944/0,
 31-35=0/1167, 9-55=-203/423, 55-56=-192/367, 43-56=-183/340, 4-47=-385/253,
 17-73=0/350, 19-28=-304/172, 22-26=-35/322

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=150mph Vas=119mph; 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
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Code for details as applicable, or consult qualified building designer as per ANSI/TPI 1.



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



818 Soundside Road
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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203508 |
| J1122-5621 | A1GE | GABLE | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:06 2022 Page 2
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NOTES-

- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2'-0" oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (10.0 psf) on member(s). 51-68, 66-68, 66-69, 69-71, 50-71, 50-73, 49-73, 18-49; Wall dead load (5.0psf) on member(s).40-51, 30-49
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 38-40, 36-38, 34-36, 31-34, 30-31
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=425, 46=374, 24=121.
- 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.

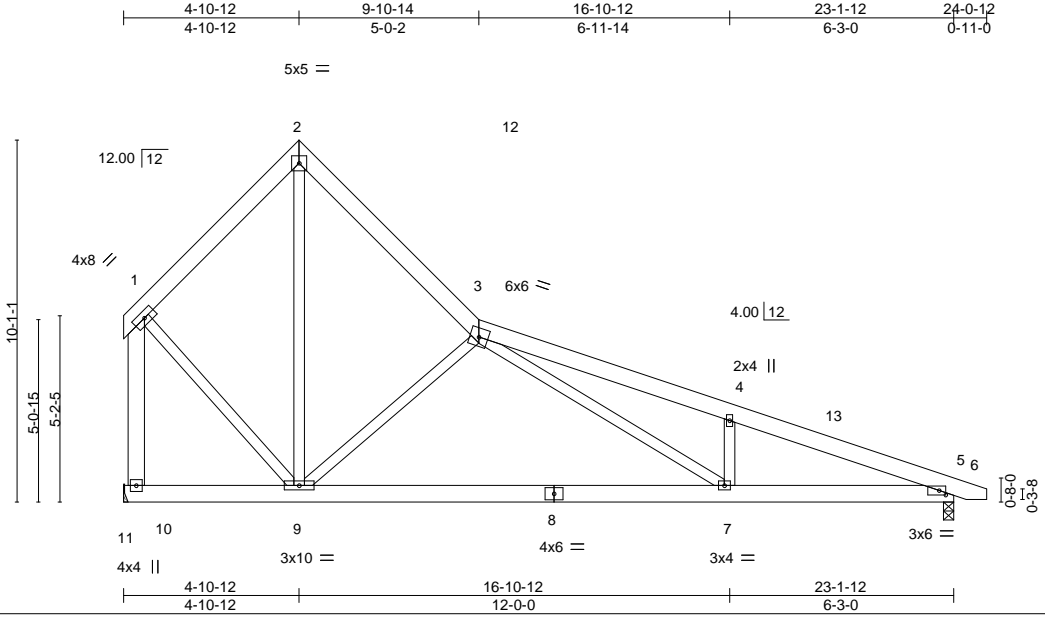
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



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| | | | | | | |
|-------------------|-------------|----------------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss A2 | Truss Type ROOF SPECIAL | Qty 5 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203509 |
|-------------------|-------------|----------------------------|----------|----------|--|-----------|

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 ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-Zbhz2sKcBi6h1?IHpqjohDEqIrMeURxPt9ITX?yjdj7T



Scale = 1:60.4

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.23 | Vert(LL) | -0.12 | 7-9 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.39 | Vert(CT) | -0.27 | 7-9 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.72 | Horz(CT) | 0.02 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) | 0.06 | 7-9 | >999 | | |
| | | | | | | | Weight: 182 lb | FT = 20% |

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

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

REACTIONS. (size) 10=Mechanical, 5=0-3-8
 Max Horz 10=-306(LC 8)
 Max Uplift 10=-197(LC 13), 5=-211(LC 9)
 Max Grav 10=912(LC 1), 5=953(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-643/311, 2-3=-638/308, 3-4=-2073/755, 4-5=-2087/626, 1-10=-926/373
 BOT CHORD 9-10=-115/307, 7-9=-243/1074, 5-7=-503/1901
 WEBS 2-9=-180/510, 3-7=-333/995, 4-7=-344/307, 1-9=-94/548, 3-9=-954/546

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 9-3-9, Interior(1) 9-3-9 to 23-9-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=197, 5=211.



September 14, 2022

| | | | | | | |
|-------------------|-------------|----------------------------|----------|----------|----------------------|-----------|
| Job J1122-5621 | Truss A3 | Truss Type ROOF SPECIAL | Qty 3 | Ply 1 | Lot 124 Hidden Lakes | I54203511 |
|-------------------|-------------|----------------------------|----------|----------|----------------------|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:10 2022 Page 1

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5x5 =

Scale = 1:60.4

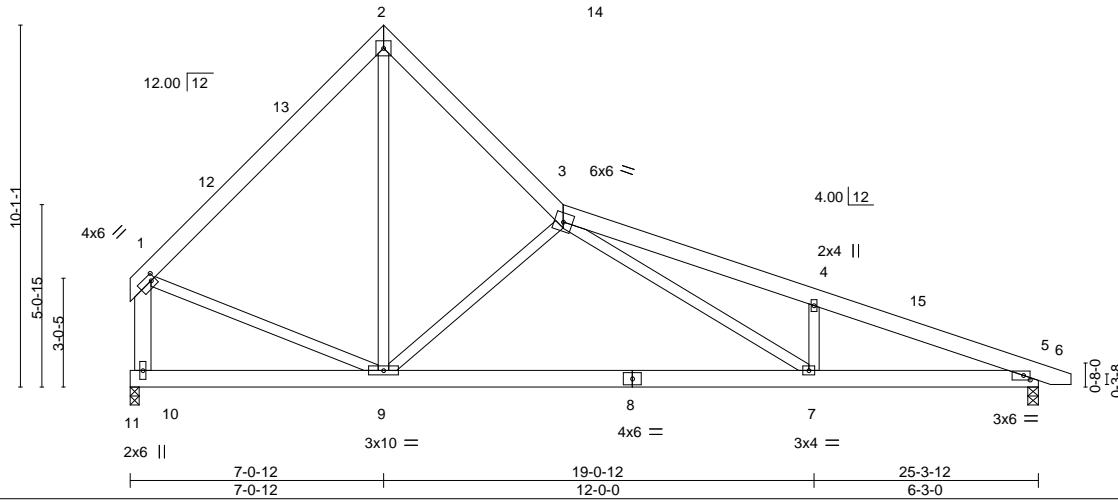


Plate Offsets (X,Y)-- [1:0-1-8,0-2-0], [5:0-2-3,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|--------|-------------------------|
| TCLL 20.0 | 2-0-0 | TC 0.29 | Vert(LL) | -0.13 | 7-9 | >999 | 360 | MT20 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.41 | Vert(CT) | -0.29 | 7-9 | >999 | 240 | 244/190 |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.80 | Horz(CT) | 0.03 | 5 | n/a | n/a | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) | 0.07 | 7-9 | >999 | 240 | |
| | Code IRC2015/TPI2014 | | | | | | | Weight: 190 lb FT = 20% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-8-12 oc bracing.

REACTIONS.

(size) 10=0-3-0, 5=0-3-8
 Max Horz 10=-309(LC 8)
 Max Uplift 10=-177(LC 13), 5=-220(LC 9)
 Max Grav 10=999(LC 1), 5=1040(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-911/395, 2-3=-917/435, 3-4=-2313/890, 4-5=-2330/762, 1-10=-970/406
 BOT CHORD 9-10=-101/323, 7-9=-363/1317, 5-7=-631/2129
 WEBS 2-9=-268/796, 3-9=-1070/588, 3-7=-326/979, 4-7=-336/303, 1-9=-41/531

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 7-0-12, Exterior(2) 7-0-12 to 11-5-9, Interior(1) 11-5-9 to 25-11-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=177, 5=220.



September 14, 2022

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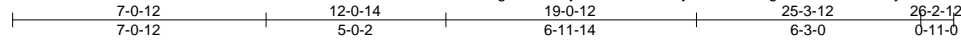
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|----------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203512 |
| J1122-5621 | A3SG | GABLE | 1 | 1 | | |

Comtech, Inc, Fayetteville, NC - 28314,

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5x5 =

Scale = 1:60.4

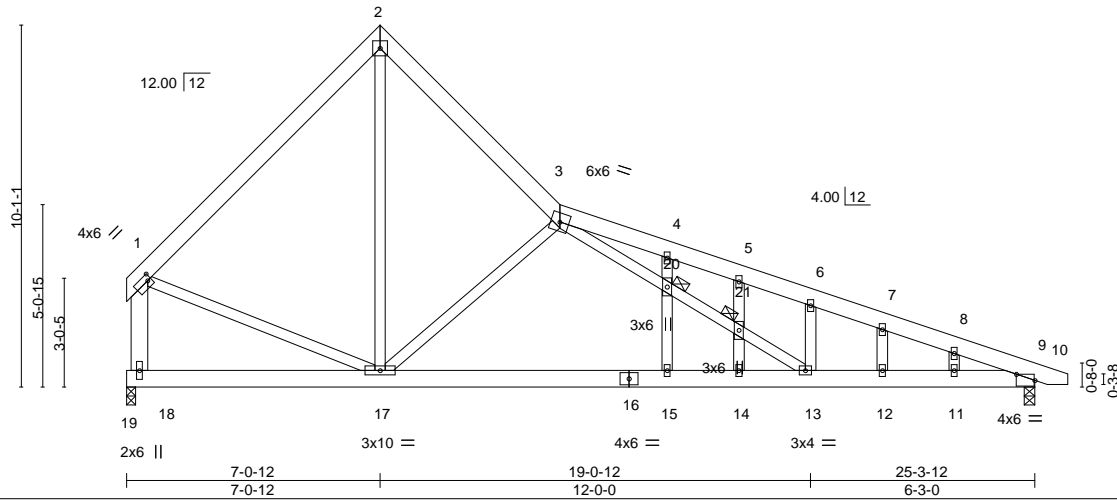


Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [9:0-6-3,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.29 | Vert(LL) | -0.08 | 15 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.28 | Vert(CT) | -0.17 | 15 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.84 | Horz(CT) | 0.03 | 9 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) | 0.12 | 15 | >999 | | |
| | | | | | | | Weight: 200 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-18: 2x6 SP No.1
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-0-6 oc bracing.
 JOINTS 1 Brace at Jt(s): 20, 21

REACTIONS.

(size) 18=0-3-0, 9=0-3-8
 Max Horz 18=-401(LC 8)
 Max Uplift 18=-370(LC 13), 9=-429(LC 13)
 Max Grav 18=999(LC 1), 9=1040(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-901/495, 2-3=-911/543, 3-4=-2152/1298, 4-5=-2209/1256, 5-6=-2211/1224,
 6-7=-2169/1148, 7-8=-2195/1114, 8-9=-2274/1097, 1-18=-956/510
 BOT CHORD 17-18=-173/426, 15-17=-499/1338, 14-15=-499/1338, 13-14=-499/1338, 12-13=-961/2056,
 11-12=-961/2056, 9-11=-961/2056
 WEBS 2-17=-407/788, 3-17=-1115/783, 3-20=-565/890, 20-21=-541/838, 13-21=-553/867,
 1-17=-134/515, 15-20=0/286

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=370, 9=429.



September 14, 2022

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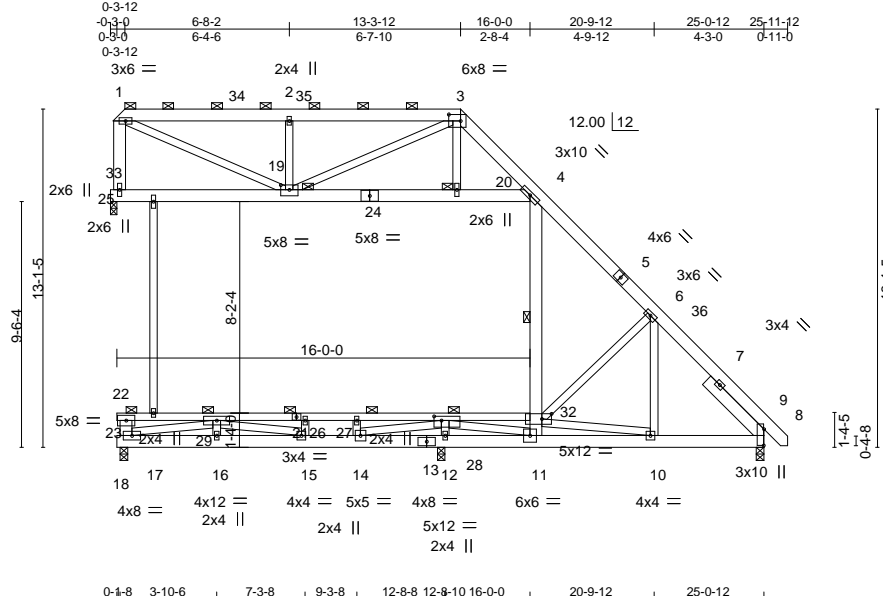


818 Soundside Road
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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|----------------------|-----------|
| Job J1122-5621 | Truss A4 | Truss Type ATTIC | Qty 5 | Ply 1 | Lot 124 Hidden Lakes | 154203513 |
|-------------------|-------------|---------------------|----------|----------|----------------------|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:13 2022 Page 1
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Scale = 1:84.0

| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [3:0-5-8,0-3-0], [8:0-7-9,0-0-2], [19:0-4-0,0-2-4], [28:0-3-8,0-2-0], [32:0-4-8,0-2-8] |
|-----------------------|--|

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.21 | Vert(LL) -0.07 | 10-11 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.68 | Vert(CT) -0.19 | 15-16 | >763 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.75 | Horz(CT) -0.17 | 25 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.12 | 10-11 | >999 | 240 | | |
| | | | | | | | Weight: 315 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.): 1-3. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 5-3-6 oc bracing. |
| WEBS 2x4 SP No.2 *Except* | WEBS 1 Row at midpt 4-11 |
| SLIDER Right 2x6 SP No.1 3-1-0 | JOINTS 3-2-0 oc bracing: 23-32 |
| | 1 Brace at Jt(s): 19, 1, 20, 23 |

REACTIONS. All bearings 0-3-8 except (jt=length) 25=0-3-0.
 (lb) - Max Horz 17=547(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 25
 Max Grav All reactions 250 lb or less at joint(s) except 17=734(LC 3), 8=608(LC 1), 25=648(LC 1), 12=1988(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=908/330, 2-3=909/328, 3-4=811/231, 4-6=404/315, 6-8=660/0
 BOT CHORD 16-17=0/2520, 15-16=0/2520, 14-15=0/2229, 12-14=1722/318, 11-12=1722/318,
 10-11=999/1711, 8-10=0/386
 WEBS 1-19=365/1005, 3-19=100/407, 11-32=1232/560, 4-32=869/533, 23-29=271/0,
 26-29=1571/0, 26-27=1549/0, 27-28=1569/0, 28-32=2579/1848, 19-20=240/561,
 4-20=247/557, 1-25=590/280, 14-28=0/2344, 12-28=1595/0, 11-28=1510/3742,
 17-29=1852/0, 15-29=973/0, 6-32=892/580, 2-19=457/357, 6-10=285/628,
 10-32=1679/1257


- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 13-3-12, Exterior(2) 13-3-12 to 19-6-7, Interior(1) 19-6-7 to 25-10-2 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 Continued on page 2



September 14, 2022

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203513 |
| J1122-5621 | A4 | ATTIC | 5 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:13 2022 Page 2
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-wYUs5ZOI0Fkz8mdEcNjZOGxhhs?D9ha81RTEDDyqj7O

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-9=-50, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-9=-20, 8-18=-40, 22-32=-90(F), 4-25=-20(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-34=52, 3-34=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-5=59, 5-8=49, 8-9=-40
Drag: 2-3=0
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-35=42, 3-35=52, 3-36=37, 8-36=47, 8-9=78, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-36=49, 8-36=59, 8-9=-90
Drag: 2-35=0, 3-35=0
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-49, 8-9=40
Drag: 2-3=0
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-49, 8-9=-40
Drag: 2-3=0
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=30, 8-9=-21
Drag: 2-3=0
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-1, 8-9=-19
Drag: 2-3=0
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=5, 3-8=-8, 8-9=1, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=12, 8-9=-21
Drag: 2-3=0
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-19, 8-9=10
Drag: 2-3=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=27, 8-9=-18
Drag: 2-3=0
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=43, 8-9=-34
Drag: 2-3=0
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=27, 8-9=-18
Drag: 2-3=0
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=43, 8-9=-34
Drag: 2-3=0
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=9, 8-9=-18
Drag: 2-3=0
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203513 |
| J1122-5621 | A4 | ATTIC | 5 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:13 2022 Page 3
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-wYUs5ZOI0Fkz8mdEcNjZOGxhhs?D9ha81RTEDDyjd70

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=25, 8-9=-34
Drag: 2-3=0
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 19) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=9, 8-9=-16
Drag: 2-3=0
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-15, 8-9=8
Drag: 2-3=0
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=7, 8-9=-14
Drag: 2-3=0
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=19, 8-9=26
Drag: 2-3=0
- 24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 26) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-9=-20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 27) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-9=-50, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
- 28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-34=52, 3-34=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-5=59, 5-8=49, 8-9=-40
Drag: 2-3=0
- 29) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-35=42, 3-35=52, 3-36=37, 8-36=47, 8-9=78, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-36=49, 8-36=59, 8-9=90
Drag: 2-35=0, 3-35=0
- 30) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-49, 8-9=40
Drag: 2-3=0
- 31) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-49, 8-9=-40
Drag: 2-3=0
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=30, 8-9=-21
Drag: 2-3=0
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 22-32=-90(F), 4-25=-20(F)
Horz: 3-8=-1, 8-9=-19
Drag: 2-3=0
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203513 |
| J1122-5621 | A4 | ATTIC | 5 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

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ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-wYUs5ZOI0Fkz8mdEcNjZOGxhhs?D9ha81RTEDDyjd70

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=5, 3-8=8, 8-9=1, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=12, 8-9=-21

Drag: 2-3=0

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=-19, 8-9=10

Drag: 2-3=0

36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=27, 8-9=-18

Drag: 2-3=0

37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=43, 8-9=-34

Drag: 2-3=0

38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=27, 8-9=-18

Drag: 2-3=0

39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=43, 8-9=-34

Drag: 2-3=0

40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=9, 8-9=-18

Drag: 2-3=0

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=25, 8-9=-34

Drag: 2-3=0

42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=9, 8-9=-16

Drag: 2-3=0

43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=-15, 8-9=8

Drag: 2-3=0

44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=7, 8-9=-14

Drag: 2-3=0

45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 22-32=-90(F), 4-25=-20(F)

Horz: 3-8=19, 8-9=-26

Drag: 2-3=0



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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | 154203514 |
| J1122-5621 | A4GE | GABLE | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

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ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-K7A?jbQeIA6Y?DMpHWsg0vZC440wM2cajPhvqYydj7L

NOTES-

- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-16=-50, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-20, 7-16=-20, 15-25=-40, 29-39=-90(F), 9-32=-20(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=52, 7-15=47, 15-16=38, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=64, 7-15=59, 15-16=-50
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=52, 7-15=47, 15-16=78, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=64, 7-15=59, 15-16=-90
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-39, 7-15=-69, 15-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=-19, 7-15=-49, 15-16=40
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-39, 7-15=-69, 15-16=20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=-19, 7-15=-49, 15-16=-40
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=31, 7-15=18, 15-16=9, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=43, 7-15=30, 15-16=-21
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=31, 7-15=-13, 15-16=7, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=43, 7-15=-1, 15-16=-19
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=5, 7-15=-8, 15-16=1, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=25, 7-15=12, 15-16=-21
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=5, 7-15=-39, 15-16=-30, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=25, 7-15=-19, 15-16=10
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=27, 15-16=-18
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=43, 15-16=-34
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=27, 15-16=-18
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=43, 15-16=-34
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-11, 7-15=-11, 15-16=-2, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=9, 7-15=9, 15-16=-18
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-11, 7-15=5, 15-16=14, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=9, 7-15=25, 15-16=-34
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-7=-20, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 19) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Continued on page 3

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



818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|----------------------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203514 |
| J1122-5621 | A4GE | GABLE | 1 | 1 | | |
| | | | | | | Job Reference (optional) |

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LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-7=-20, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-31, 7-15=-41, 15-16=-34, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=19, 7-15=9, 15-16=16
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-31, 7-15=-65, 15-16=-58, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=19, 7-15=-15, 15-16=8
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-43, 7-15=-43, 15-16=-36, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=7, 7-15=7, 15-16=-14
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-43, 7-15=-31, 15-16=-24, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=7, 7-15=19, 15-16=26
- 24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 7-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 26) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-16=-20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 27) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-50, 7-16=-50, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
- 28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=52, 7-15=47, 15-16=38, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=64, 7-15=59, 15-16=-50
- 29) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=52, 7-15=47, 15-16=78, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=64, 7-15=59, 15-16=90
- 30) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-39, 7-15=-69, 15-16=-60, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=-19, 7-15=-49, 15-16=40
- 31) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-39, 7-15=-69, 15-16=20, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=-19, 7-15=-49, 15-16=-40
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=31, 7-15=18, 15-16=9, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=43, 7-15=30, 15-16=21
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=31, 7-15=-13, 15-16=7, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=43, 7-15=-1, 15-16=-19
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=5, 7-15=-8, 15-16=1, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=25, 7-15=12, 15-16=21
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=5, 7-15=-39, 15-16=-30, 15-25=-20, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=25, 7-15=-19, 15-16=10
- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=27, 15-16=18
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=43, 15-16=34
- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=15, 7-15=15, 15-16=6, 15-25=-12, 29-39=-90(F), 9-32=-20(F)
Horz: 6-7=27, 7-15=27, 15-16=18
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 4

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 124 Hidden Lakes | I54203514 |
| J1122-5621 | A4GE | GABLE | 1 | 1 | Job Reference (optional) | |

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-7=15, 7-15=31, 15-16=22, 15-25=-12, 29-39=-90(F), 9-32=-20(F)

Horz: 6-7=27, 7-15=43, 15-16=-34

40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-11, 7-15=-11, 15-16=-2, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

Horz: 6-7=9, 7-15=9, 15-16=-18

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-11, 7-15=5, 15-16=14, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

Horz: 6-7=9, 7-15=25, 15-16=-34

42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-31, 7-15=-41, 15-16=-34, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

Horz: 6-7=19, 7-15=9, 15-16=-16

43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-31, 7-15=-65, 15-16=-58, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

Horz: 6-7=19, 7-15=-15, 15-16=8

44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-43, 7-15=-43, 15-16=-36, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

Horz: 6-7=7, 7-15=7, 15-16=-14

45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-43, 7-15=-31, 15-16=-24, 15-25=-20, 29-39=-90(F), 9-32=-20(F)

Horz: 6-7=7, 7-15=19, 15-16=-26



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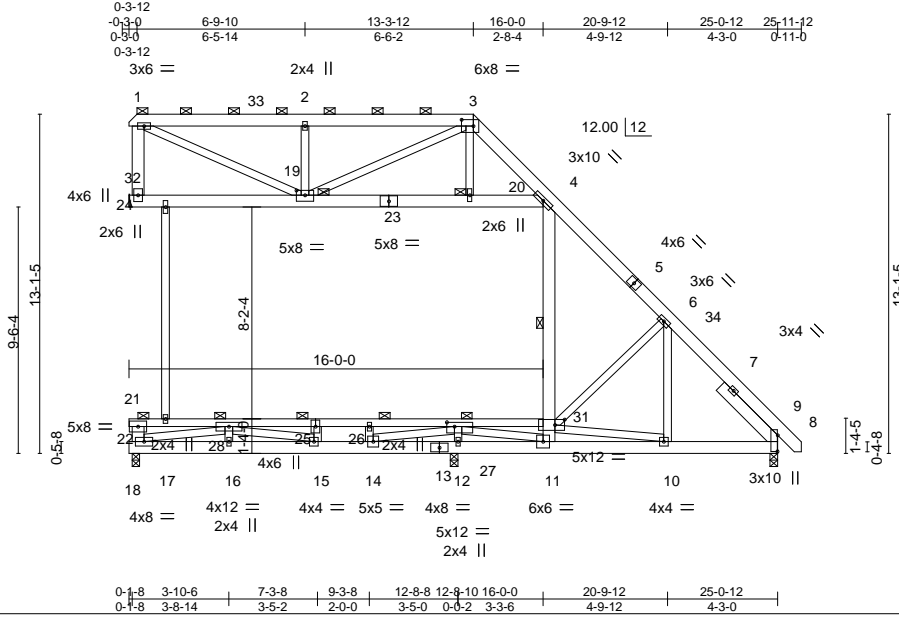
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss A5 | Truss Type ATTIC | Qty 3 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | 154203515 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:83.8

| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [3:0-5-8,0-3-0], [8:0-7-9,0-0-2], [19:0-4-0,0-2-4], [27:0-3-8,0-2-0], [31:0-4-8,0-2-8] |
|-----------------------|--|

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.21 | Vert(LL) | -0.07 10-11 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.69 | Vert(CT) | -0.20 15-16 | >749 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.75 | Horz(CT) | -0.17 24 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) | 0.12 10-11 | >999 | 240 | | |
| | | | | | | | Weight: 314 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.): 1-3. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing. |
| WEBS 2x4 SP No.2 *Except* | WEBS 1 Row at midpt 4-11 |
| SLIDER Right 2x6 SP No.1 3-1-0 | JOINTS 3-2-0 oc bracing: 22-31 |
| | 1 Brace at Jt(s): 19, 1, 20, 22 |

REACTIONS. All bearings 0-3-8 except (jt=length) 24=Mechanical.
 (lb) - Max Horz 17=-547(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 24
 Max Grav All reactions 250 lb or less at joint(s) except 17=733(LC 3), 8=605(LC 1), 24=645(LC 1), 12=1981(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-878/325, 2-3=-879/323, 3-4=-795/229, 4-6=-404/315, 6-8=-655/0
 BOT CHORD 16-17=0/2523, 15-16=0/2523, 14-15=0/2223, 12-14=-1735/303, 11-12=-1735/303,
 10-11=-1002/1687, 8-10=0/383
 WEBS 1-19=-361/976, 3-19=-97/388, 11-31=-1226/557, 4-31=-861/530, 22-28=-270/0,
 25-28=-1568/0, 25-26=-1543/0, 26-27=-1563/0, 27-31=-2552/1851, 19-20=-238/549,
 4-20=-245/546, 1-24=-581/277, 14-27=0/2354, 12-27=-1595/0, 11-27=-1498/3728,
 17-28=-1855/0, 15-28=-974/0, 6-31=-888/581, 2-19=-448/354, 6-10=-286/623,
 10-31=-1658/1260

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 13-3-12, Exterior(2) 13-3-12 to 19-6-7, Interior(1) 19-6-7 to 25-10-2 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



September 14, 2022

LOAD CASE(S) Standard

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 124 Hidden Lakes | I54203515 |
| J1122-5621 | A5 | ATTIC | 3 | 1 | | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:18 2022 Page 2
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-HWII8HRuqnMGEXWCOxv85KeYYtiBqyytBJA?uQydj7J

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-9=-50, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-9=-20, 8-18=-40, 21-31=-90(F), 4-32=-20(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-33=52, 3-33=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-5=59, 5-8=49, 8-9=-40
Drag: 2-3=0
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=42, 2-3=52, 3-34=37, 8-34=47, 8-9=78, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-34=49, 8-34=59, 8-9=-90
Drag: 2-3=0
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-49, 8-9=40
Drag: 2-3=0
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-49, 8-9=-40
Drag: 2-3=0
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=30, 8-9=-21
Drag: 2-3=0
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-1, 8-9=-19
Drag: 2-3=0
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=5, 3-8=-8, 8-9=1, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=12, 8-9=-21
Drag: 2-3=0
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-19, 8-9=10
Drag: 2-3=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=27, 8-9=-18
Drag: 2-3=0
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=43, 8-9=-34
Drag: 2-3=0
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=27, 8-9=-18
Drag: 2-3=0
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=43, 8-9=-34
Drag: 2-3=0
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=9, 8-9=-18
Drag: 2-3=0
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|----------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203515 |
| J1122-5621 | A5 | ATTIC | 3 | 1 | | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:18 2022 Page 3
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-HWII8HRuqnMGEXWCOxv85KeYYtiBqyytBJA?uQyjd7J

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=25, 8-9=-34
Drag: 2-3=0
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 19) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=9, 8-9=-16
Drag: 2-3=0
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-15, 8-9=8
Drag: 2-3=0
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=7, 8-9=-14
Drag: 2-3=0
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=19, 8-9=26
Drag: 2-3=0
- 24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 26) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-9=-20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 27) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-9=-50, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
- 28) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-33=52, 3-33=42, 3-5=47, 5-8=37, 8-9=28, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-5=59, 5-8=49, 8-9=-40
Drag: 2-3=0
- 29) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=42, 2-3=52, 3-34=37, 8-34=47, 8-9=78, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-34=49, 8-34=59, 8-9=90
Drag: 2-3=0
- 30) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=-60, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-49, 8-9=40
Drag: 2-3=0
- 31) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-39, 3-8=-69, 8-9=20, 8-18=-20, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-49, 8-9=-40
Drag: 2-3=0
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=18, 8-9=9, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=30, 8-9=-21
Drag: 2-3=0
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-8=-13, 8-9=7, 8-18=-12, 21-31=-90(F), 4-32=-20(F)
Horz: 3-8=-1, 8-9=-19
Drag: 2-3=0
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 4

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203515 |
| J1122-5621 | A5 | ATTIC | 3 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:18 2022 Page 4
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=5, 3-8=8, 8-9=1, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=12, 8-9=-21

Drag: 2-3=0

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=5, 3-8=-39, 8-9=-30, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=-19, 8-9=10

Drag: 2-3=0

36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=27, 8-9=-18

Drag: 2-3=0

37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=43, 8-9=-34

Drag: 2-3=0

38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=15, 3-8=15, 8-9=6, 8-18=-12, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=27, 8-9=-18

Drag: 2-3=0

39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=15, 3-8=31, 8-9=22, 8-18=-12, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=43, 8-9=-34

Drag: 2-3=0

40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-11, 3-8=-11, 8-9=-2, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=9, 8-9=-18

Drag: 2-3=0

41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-11, 3-8=5, 8-9=14, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=25, 8-9=-34

Drag: 2-3=0

42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-31, 3-8=-41, 8-9=-34, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=9, 8-9=-16

Drag: 2-3=0

43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-31, 3-8=-65, 8-9=-58, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=-15, 8-9=8

Drag: 2-3=0

44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-43, 3-8=-43, 8-9=-36, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=7, 8-9=-14

Drag: 2-3=0

45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-43, 3-8=-31, 8-9=-24, 8-18=-20, 21-31=-90(F), 4-32=-20(F)

Horz: 3-8=19, 8-9=-26

Drag: 2-3=0



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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss B1 | Truss Type ATTIC | Qty 1 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | 154203516 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

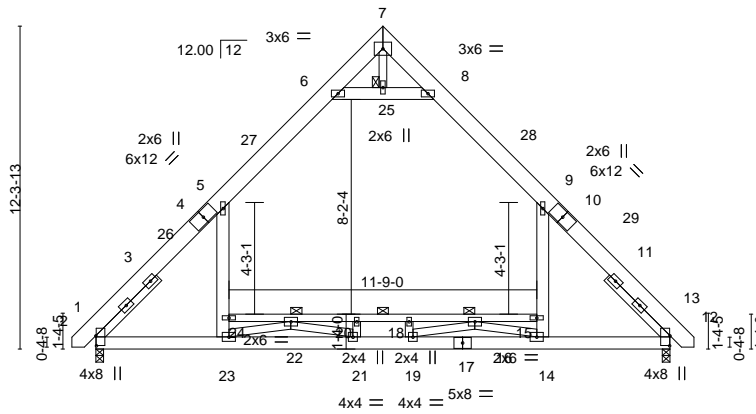
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| | | | | | | | |
|---------|--------|--------|---------|--------|---------|---------|---------|
| -0-11-0 | 4-10-4 | 9-2-15 | 10-11-8 | 12-8-1 | 17-0-12 | 21-11-0 | 22-10-0 |
| 0-11-0 | 4-10-4 | 4-4-11 | 1-8-9 | 1-8-9 | 4-4-11 | 4-10-4 | 0-11-0 |

6x8 =

Scale = 1:82.8



| | | | | | | |
|--------|-------|--------|---------|---------|---------|---------|
| 4-10-4 | 7-5-6 | 9-11-8 | 11-11-8 | 14-5-10 | 17-0-12 | 21-11-0 |
| 4-10-4 | 2-7-2 | 2-6-2 | 2-0-0 | 2-6-2 | 2-7-2 | 4-10-4 |

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.78 | Vert(LL) | -0.18 19-21 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.96 | Vert(CT) | -0.35 18-20 | >743 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.31 | Horz(CT) | 0.04 12 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) | 0.10 21-23 | >999 | 240 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 235 lb | FT = 20% |

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 15-24: 2x4 SP No.1
 WEBS 2x4 SP No.2 *Except*
 9-14,5-23,6-8: 2x6 SP No.1
 SLIDER Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 3-9-0 oc bracing: 16-22
 6-0-0 oc bracing: 22-24, 15-16
 JOINTS 1 Brace at Jt(s): 25, 16, 22

REACTIONS.

(size) 2=0-3-8, 12=0-3-8
 Max Horz 2=372(LC 9)
 Max Grav 2=1606(LC 21), 12=1606(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-1910/6, 5-6=-1054/266, 6-7=-71/499, 7-8=-71/498, 8-9=-1055/266, 9-12=-1911/6
 BOT CHORD 2-23=0/1167, 21-23=0/2844, 19-21=0/3367, 14-19=0/2649, 12-14=0/1078,
 22-24=-460/330, 20-22=-2538/0, 18-20=-2538/0, 16-18=-2538/0, 15-16=-482/351
 WEBS 14-15=0/797, 9-15=0/977, 23-24=0/797, 5-24=0/977, 6-25=-1802/438, 8-25=-1802/438,
 18-19=-2547, 20-21=-253/5, 16-19=0/840, 14-16=-1777/0, 21-22=0/841, 22-23=-1777/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-2 to 3-8-11, Interior(1) 3-8-11 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-7-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-25, 8-25; Wall dead load (5.0psf) on member(s).9-15, 5-24
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22, 18-20, 16-18, 15-16
- Attic room checked for L/360 deflection.



September 14, 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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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|---------------|---------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss B1GE | Truss Type ATTIC | Qty 1 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203517 |
|-------------------|---------------|---------------------|----------|----------|--|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

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0-11-0 4-10-4 9-2-15 10-11-8 12-8-1 17-0-12 21-11-0 22-10-0
0-11-0 4-10-4 4-4-11 1-8-9 1-8-9 4-4-11 4-10-4 0-11-0

6x8 =

Scale = 1:82.8

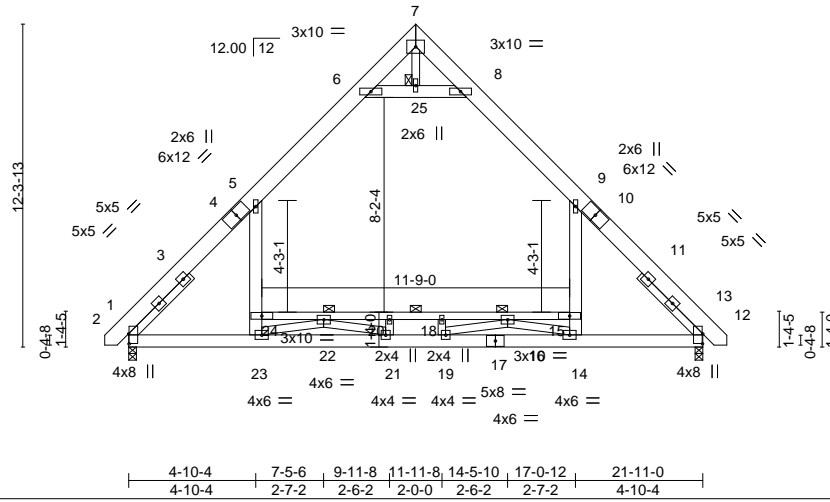


Plate Offsets (X,Y)-- [2:0-4-9,0-0-3], [12:0-4-9,0-0-3]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.78 | Vert(LL) | -0.18 19-21 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.96 | Vert(CT) | -0.35 18-20 | >743 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.33 | Horz(CT) | 0.04 12 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) | 0.15 21-23 | >999 | 240 | | |
| | | | | | | | Weight: 235 lb | FT = 20% |

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 15-24: 2x4 SP No.1
 WEBS 2x4 SP No.2 *Except*
 9-14,5-23,6-8: 2x6 SP No.1
 SLIDER Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 3-9-0 oc bracing: 16-22
 6-0-0 oc bracing: 22-24, 15-16
 JOINTS 1 Brace at Jt(s): 25, 16, 22

REACTIONS.

(size) 2=0-3-8, 12=0-3-8
 Max Horz 2=465(LC 9)
 Max Uplift 2=26(LC 13), 12=26(LC 12)
 Max Grav 2=1597(LC 21), 12=1597(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-1922/50, 5-6=-1061/309, 6-7=-115/511, 7-8=-114/510, 8-9=-1063/309,
 9-12=-1922/50
 BOT CHORD 2-23=-17/1211, 21-23=0/2908, 19-21=0/3367, 14-19=0/2649, 12-14=0/1099,
 22-24=-539/433, 20-22=-2538/0, 18-20=-2538/0, 16-18=-2538/0, 15-16=-566/451
 WEBS 14-15=0/797, 9-15=0/977, 23-24=0/797, 5-24=0/977, 6-25=-1802/571, 8-25=-1802/571,
 18-19=-265/22, 20-21=-263/19, 16-19=-46/879, 14-16=-1777/0, 21-22=-47/880,
 22-23=-1777/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-25, 8-25; Wall dead load (5.0psf) on member(s). 9-15, 5-24
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22, 18-20, 16-18, 15-16
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
- Attic room checked for L/360 deflection.



September 14, 2022

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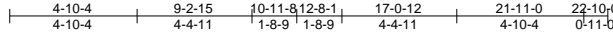
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss B2 | Truss Type ATTIC | Qty 3 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | 154203518 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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6x8 =

Scale = 1:82.8

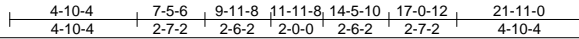
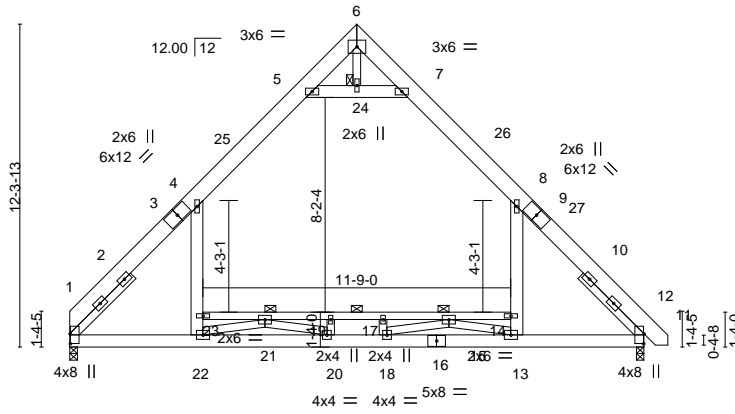


Plate Offsets (X,Y)-- [1:0-4-9,0-0-3], [11:0-4-9,0-0-3]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.78 | Vert(LL) | -0.18 | 18-20 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.96 | Vert(CT) | -0.35 | 17-19 | >743 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.31 | Horz(CT) | 0.04 | 11 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) | 0.10 | 20-22 | >999 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 232 lb | FT = 20% |

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 14-23: 2x4 SP No.1
 WEBS 2x4 SP No.2 *Except*
 8-13,4-22,5-7: 2x6 SP No.1
 SLIDER Left 2x4 SP No.3 3-3-10, Right 2x4 SP No.3 3-3-10

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 3-9-0 oc bracing: 15-21
 6-0-0 oc bracing: 21-23, 14-15
 JOINTS 1 Brace at Jt(s): 24, 15, 21

REACTIONS.

(size) 1=0-3-8, 11=0-3-8
 Max Horz 1=373(LC 9)
 Max Grav 1=1582(LC 21), 11=1606(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-4=-1908/6, 4-5=-1054/268, 5-6=-72/500, 6-7=-74/498, 7-8=-1056/266, 8-11=-1912/6
 BOT CHORD 1-22=0/1169, 20-22=0/2849, 18-20=0/3369, 13-18=0/2650, 11-13=0/1078,
 21-23=-462/330, 19-21=-2540/0, 17-19=-2540/0, 15-17=-2540/0, 14-15=-482/351
 WEBS 13-14=0/798, 8-14=0/977, 22-23=0/794, 4-23=0/974, 5-24=-1804/446, 7-24=-1804/446,
 17-18=-255/8, 19-20=-252/5, 15-18=0/843, 13-15=-1778/0, 20-21=0/841, 21-22=-1778/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=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 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-7-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-24, 7-24; Wall dead load (5.0psf) on member(s).8-14, 4-23
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 21-23, 19-21, 17-19, 15-17, 14-15
- Attic room checked for L/360 deflection.



September 14,2022

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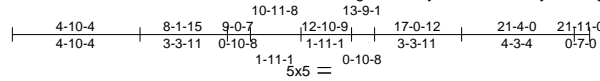
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|----------------|----------------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss B3-GR | Truss Type ATTIC GIRDER | Qty 1 | Ply 2 | Lot 124 Hidden Lakes Job Reference (optional) | 154203520 |
|-------------------|----------------|----------------------------|----------|----------|--|-----------|

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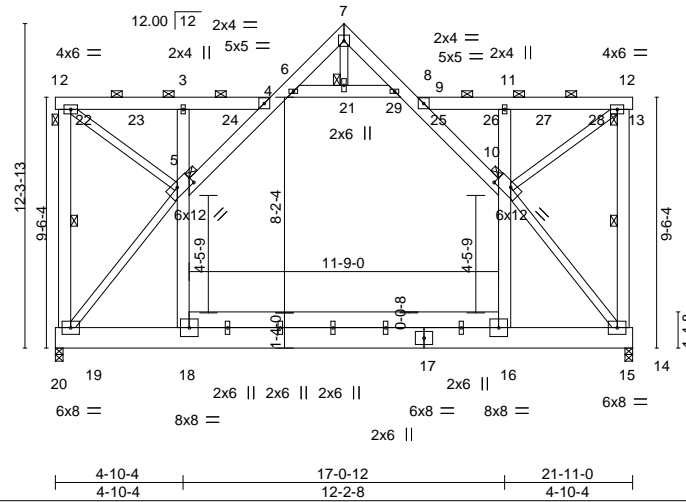


Plate Offsets (X,Y)-- [5:0-7-0,0-3-12], [10:0-7-0,0-3-12]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.37 | Vert(LL) | -0.06 16-18 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.43 | Vert(CT) | -0.12 16-18 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.76 | Horz(CT) | 0.02 15 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-S | Wind(LL) | 0.03 16-18 | >999 | 240 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 652 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1 *Except*
 16-18: 2x8 SP No.1
 WEBS 2x6 SP No.1 *Except*
 5-19,10-15,7-21,10-12,2-5: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4, 4-5, 9-10, 9-13.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-19, 12-15
 JOINTS 1 Brace at Jt(s): 2, 12, 5, 10, 21

REACTIONS.

(size) 19=0-3-8, 15=0-3-8
 Max Horz 19=-86(LC 6)
 Max Grav 19=5394(LC 1), 15=4366(LC 2)

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

TOP CHORD 2-19=-2094/386, 2-3=-1386/123, 3-4=-1379/143, 4-5=-2562/0, 4-6=-2760/0, 6-7=-563/0, 7-8=-692/0, 8-9=-2609/0, 9-10=-2297/0, 9-11=-1090/0, 11-12=-1102/0, 12-15=-1295/0
 BOT CHORD 18-19=0/2634, 16-18=0/2639, 15-16=0/2631
 WEBS 5-19=-4198/0, 5-18=-20/1000, 3-5=-2599/147, 6-21=-2388/0, 8-21=-2388/0, 10-16=0/1160, 10-11=-1517/0, 10-15=-4216/0, 7-21=0/701, 10-12=0/1326, 2-5=-143/1653

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, Except member 6-8 2x6 - 2 rows staggered at 0-7-0 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=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 4-6, 8-9, 9-11, 6-21, 8-21; Wall dead load (5.0psf) on member(s).5-18, 3-5, 10-16, 10-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | 154203520 |
| J1122-5621 | B3-GR | ATTIC GIRDER | 1 | 2 | Job Reference (optional) | |

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ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-ZsDPcgXHBxFGacYvJvXotoRiC9tz7XvoJNteWydj7C

NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 960 lb down and 205 lb up at 0-11-4, and 959 lb down and 208 lb up at 2-11-4, and 959 lb down and 208 lb up at 4-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
13) 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: 1-2=-60, 2-3=-60, 3-4=-80, 4-6=-80, 6-7=-60, 7-8=-60, 8-9=-80, 9-11=-80, 11-12=-60, 12-13=-60, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20

Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-919(F) 6=-970(F) 21=-485(F) 22=-921(F) 23=-919(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-50, 2-3=-50, 3-4=-70, 4-6=-70, 6-7=-50, 7-8=-50, 8-9=-70, 9-11=-70, 11-12=-50, 12-13=-50, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20

Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-805(F) 6=-970(F) 21=-485(F) 22=-807(F) 23=-805(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 14-20=-40, 6-8=-20

Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-718(F) 6=-970(F) 21=-485(F) 22=-720(F) 23=-718(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-52, 2-3=31, 3-4=19, 4-6=-25, 6-7=-13, 7-8=18, 8-9=6, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12

Horz: 4-7=1, 7-9=30

Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=158(F) 6=-970(F) 21=-485(F) 22=155(F) 23=158(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=6, 6-7=18, 7-8=13, 8-9=-25, 9-11=19, 11-12=31, 12-13=52, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12

Horz: 4-7=-30, 7-9=-1

Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=174(F) 6=-970(F) 21=-485(F) 22=175(F) 23=174(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-59, 6-7=-39, 7-8=-8, 8-9=-28, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20

Horz: 4-7=19, 7-9=12

Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=192(F) 6=-970(F) 21=-485(F) 22=190(F) 23=192(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-28, 6-7=-8, 7-8=-39, 8-9=-59, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40,

14-16=-20, 6-8=-20

Horz: 4-7=-12, 7-9=-19

Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=208(F) 6=-970(F) 21=-485(F) 22=205(F) 23=208(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F)

29=-485(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24,

14-16=-12, 6-8=-12

Horz: 4-7=-43, 7-9=27

Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=158(F) 6=-970(F) 21=-485(F) 22=160(F) 23=158(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F)

29=-485(F)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24,

14-16=-12, 6-8=-12

Horz: 4-7=-27, 7-9=43

Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=174(F) 6=-970(F) 21=-485(F) 22=175(F) 23=174(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F)

29=-485(F)

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



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 124 Hidden Lakes | 154203520 |
| J1122-5621 | B3-GR | ATTIC GIRDER | 1 | 2 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:25 2022 Page 3
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-ZsDPcgXHBxGacYYJvXotoRiC9tz7XvoJNteWydj7C

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-43, 7-9=27
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)
Vert: 3=158(F) 6=-970(F) 21=-485(F) 22=160(F) 23=158(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-27, 7-9=43
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)
Vert: 3=174(F) 6=-970(F) 21=-485(F) 22=175(F) 23=174(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-15, 6-7=5, 7-8=-11, 8-9=-31, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=-25, 7-9=9
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)
Vert: 3=192(F) 6=-970(F) 21=-485(F) 22=190(F) 23=192(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-31, 6-7=-11, 7-8=5, 8-9=-15, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=-9, 7-9=25
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)
Vert: 3=208(F) 6=-970(F) 21=-485(F) 22=205(F) 23=208(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 14) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-120, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)
Vert: 3=-463(F) 6=-970(F) 21=-485(F) 22=-464(F) 23=-463(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 15) Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-120, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)
Vert: 3=-463(F) 6=-970(F) 21=-485(F) 22=-464(F) 23=-463(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-31, 3-4=-51, 4-6=-85, 6-7=-65, 7-8=-41, 8-9=-61, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=15, 7-9=9
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)
Vert: 3=78(F) 6=-970(F) 21=-485(F) 22=76(F) 23=78(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-61, 6-7=-41, 7-8=-65, 8-9=-85, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-9, 7-9=-15
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)
Vert: 3=90(F) 6=-970(F) 21=-485(F) 22=88(F) 23=90(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-31, 3-4=-51, 4-6=-51, 6-7=-31, 7-8=-43, 8-9=-63, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-19, 7-9=7
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)
Vert: 3=78(F) 6=-970(F) 21=-485(F) 22=76(F) 23=78(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-63, 6-7=-43, 7-8=-31, 8-9=-51, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-7, 7-9=19
Drag: 3-18=-10, 11-16=-10
- Concentrated Loads (lb)
Vert: 3=90(F) 6=-970(F) 21=-485(F) 22=88(F) 23=90(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|--------------|-----|-----|----------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | |
| J1122-5621 | B3-GR | ATTIC GIRDER | 1 | 2 | | 154203520 |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:25 2022 Page 4
ID:6sgl4LOLhQy4UVHIBGzV0cye4nu-ZsDPcgXHBxFGacYYJvXotoRiCi9tz7XvoJNteWydj7C

LOAD CASE(S) Standard

20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-80, 4-6=-80, 6-7=-60, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-919(F) 6=-970(F) 21=-485(F) 22=-921(F) 23=-919(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-60, 8-9=-80, 9-11=-80, 11-12=-60, 12-13=-60, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-959(F) 6=-970(F) 21=-485(F) 22=-960(F) 23=-959(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-50, 2-3=-50, 3-4=-70, 4-6=-70, 6-7=-50, 7-8=-20, 8-9=-40, 9-11=-40, 11-12=-20, 12-13=-20, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-805(F) 6=-970(F) 21=-485(F) 22=-807(F) 23=-805(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-6=-40, 6-7=-20, 7-8=-50, 8-9=-70, 9-11=-70, 11-12=-50, 12-13=-50, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-835(F) 6=-970(F) 21=-485(F) 22=-836(F) 23=-835(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=52, 2-3=31, 3-4=19, 4-6=-25, 6-7=-13, 7-8=18, 8-9=6, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=1, 7-9=30
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-527(F) 6=-970(F) 21=-485(F) 22=-530(F) 23=-527(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

25) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=6, 6-7=18, 7-8=-13, 8-9=-25, 9-11=19, 11-12=31, 12-13=52, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-30, 7-9=-1
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-511(F) 6=-970(F) 21=-485(F) 22=-509(F) 23=-511(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-59, 6-7=-39, 7-8=-8, 8-9=-28, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=19, 7-9=12
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-493(F) 6=-970(F) 21=-485(F) 22=-495(F) 23=-493(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

27) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-28, 6-7=-8, 7-8=-39, 8-9=-59, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=-12, 7-9=-19
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-477(F) 6=-970(F) 21=-485(F) 22=-479(F) 23=-477(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-43, 7-9=27
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-527(F) 6=-970(F) 21=-485(F) 22=-525(F) 23=-527(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-27, 7-9=43
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-511(F) 6=-970(F) 21=-485(F) 22=-509(F) 23=-511(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203520 |
| J1122-5621 | B3-GR | ATTIC GIRDER | 1 | 2 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:25 2022 Page 5
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-ZsDPcgXHBxFGacYYJvXotoRiC9tz7XvoJNteWydj7C

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=22, 2-3=31, 3-4=19, 4-6=19, 6-7=31, 7-8=15, 8-9=3, 9-11=3, 11-12=15, 12-13=6, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-43, 7-9=27
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-527(F) 6=-970(F) 21=-485(F) 22=-525(F) 23=-527(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=15, 3-4=3, 4-6=3, 6-7=15, 7-8=31, 8-9=19, 9-11=19, 11-12=31, 12-13=22, 18-20=-12, 16-18=-24, 14-16=-12, 6-8=-12
Horz: 4-7=-27, 7-9=43
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-511(F) 6=-970(F) 21=-485(F) 22=-509(F) 23=-511(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=14, 2-3=5, 3-4=-15, 4-6=-15, 6-7=5, 7-8=-11, 8-9=-31, 9-11=-31, 11-12=-11, 12-13=-2, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=-25, 7-9=9
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-493(F) 6=-970(F) 21=-485(F) 22=-495(F) 23=-493(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-2, 2-3=-11, 3-4=-31, 4-6=-31, 6-7=-11, 7-8=5, 8-9=-15, 9-11=-15, 11-12=5, 12-13=14, 18-20=-20, 16-18=-40, 14-16=-20, 6-8=-20
Horz: 4-7=-9, 7-9=25
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-477(F) 6=-970(F) 21=-485(F) 22=-479(F) 23=-477(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-24, 2-3=31, 3-4=-51, 4-6=-85, 6-7=-65, 7-8=-41, 8-9=-61, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=15, 7-9=9
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-734(F) 6=-970(F) 21=-485(F) 22=-737(F) 23=-734(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-61, 6-7=-41, 7-8=-65, 8-9=-85, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-9, 7-9=-15
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-722(F) 6=-970(F) 21=-485(F) 22=-725(F) 23=-722(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-24, 2-3=31, 3-4=-51, 4-6=-51, 6-7=-31, 7-8=-43, 8-9=-63, 9-11=-63, 11-12=-43, 12-13=-36, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-19, 7-9=7
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-734(F) 6=-970(F) 21=-485(F) 22=-737(F) 23=-734(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(F)

37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-36, 2-3=-43, 3-4=-63, 4-6=-63, 6-7=-43, 7-8=-31, 8-9=-51, 9-11=-51, 11-12=-31, 12-13=-24, 18-20=-20, 16-18=-100, 14-16=-20, 6-8=-20
Horz: 4-7=-7, 7-9=19
Drag: 3-18=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 3=-722(F) 6=-970(F) 21=-485(F) 22=-725(F) 23=-722(F) 24=-485(F) 25=-485(F) 26=-485(F) 27=-485(F) 28=-485(F) 29=-485(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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| | | | | | | |
|---|-------------|----------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss C1 | Truss Type COMMON | Qty 5 | Ply 1 | Lot 124 Hidden Lakes | I54203521 |
| Comtech, Inc, Fayetteville, NC - 28314, | | | | | 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:26 2022 Page 1 | |
| | | | | | ID:6sgI4LOLhQy4UVHIBGzV0cye4nu-22nnq0YvyEN7Cm7ksc21Q0ztb6Y_ikB30z7QAzydj7B | |
| | | | | | Job Reference (optional) | |



Scale = 1:29.4

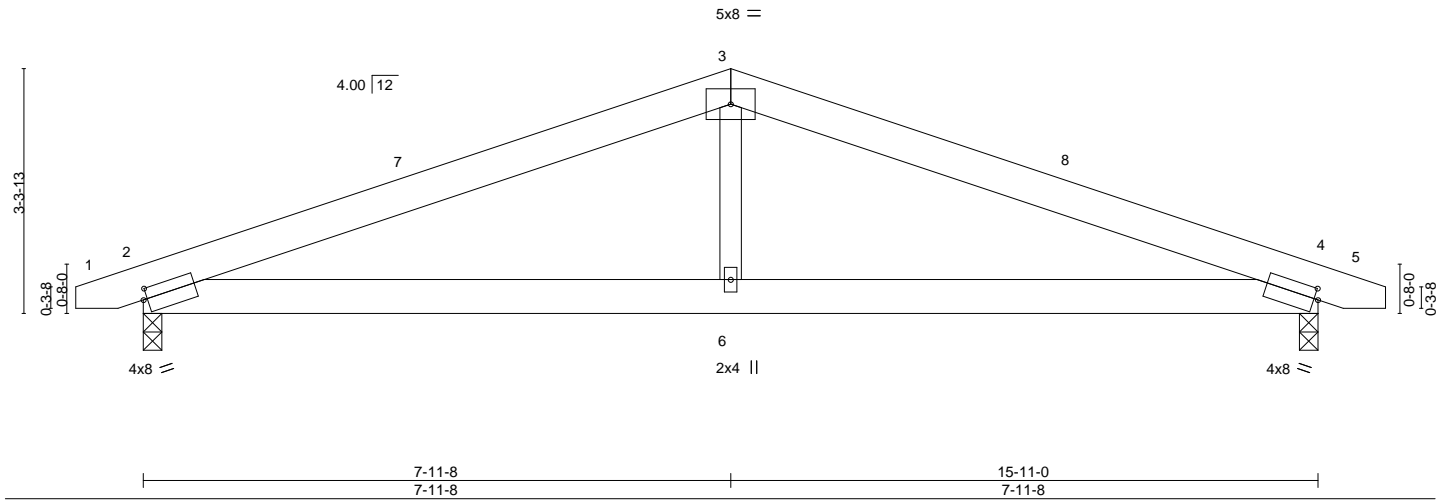


Plate Offsets (X,Y)-- [2:0-0-11,0-1-12], [4:0-0-11,0-1-12]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.33 | Vert(LL) | 0.10 | 4-6 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.25 | Vert(CT) | -0.06 | 4-6 | >999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.09 | Horz(CT) | -0.02 | 4 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 85 lb | FT = 20% |

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-3-11 oc bracing.

REACTIONS. (size) 2=0-3-0, 4=0-3-0
Max Horz 2=46(LC 13)
Max Uplift 2=400(LC 8), 4=400(LC 9)
Max Grav 2=672(LC 1), 4=672(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1126/1598, 3-4=-1126/1590
BOT CHORD 2-6=-1395/986, 4-6=-1395/986
WEBS 3-6=-656/375

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 7-11-8, Exterior(2) 7-11-8 to 12-4-5, Interior(1) 12-4-5 to 16-6-9 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=400, 4=400.

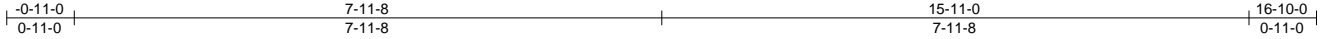


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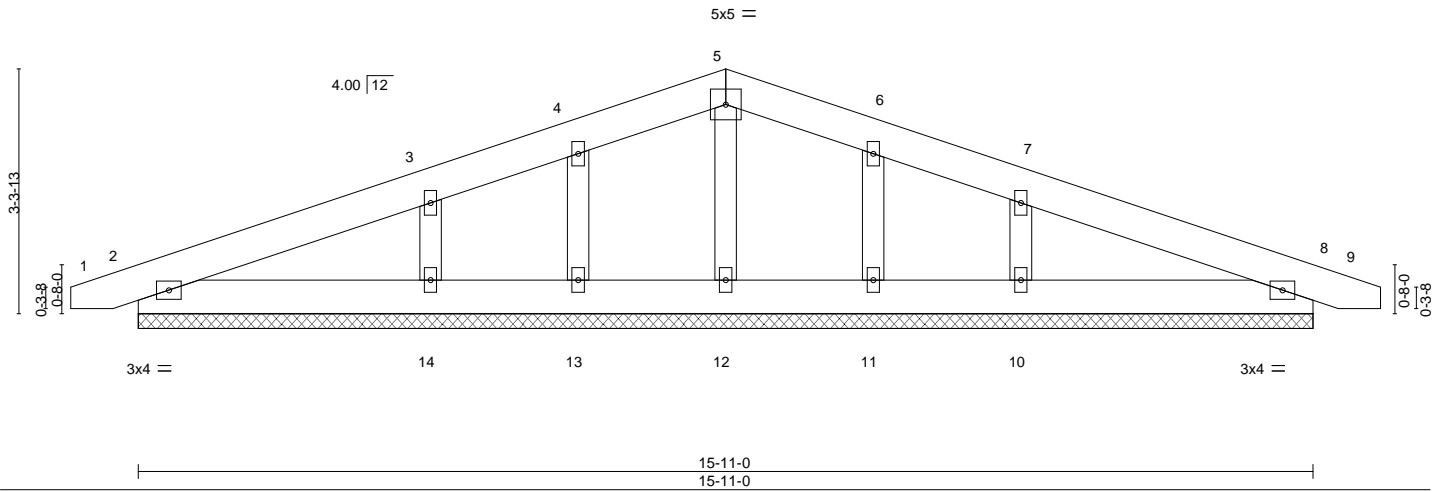
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|-------------------|---------------|------------------------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss C1GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203522 |
|-------------------|---------------|------------------------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:26 2022 Page 1
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Scale = 1:29.4



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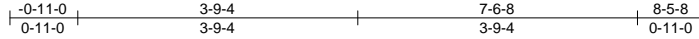
818 Soundside Road
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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss D1 | Truss Type COMMON | Qty 3 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203523 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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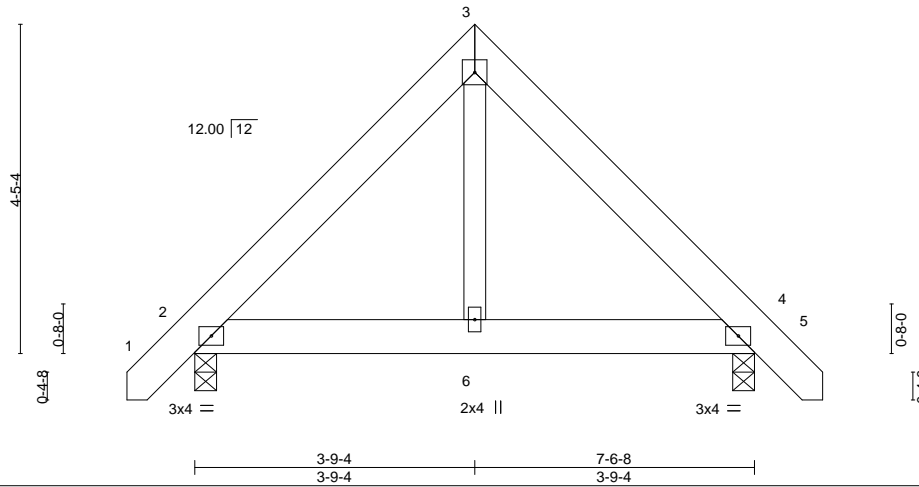
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:27 2022 Page 1

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4x4 =

Scale = 1:29.2



| | | | | | | | | |
|----------------------|----------------------|-------------|----------------|----------|--------|-----|---------------|-------------|
| 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) -0.00 | 6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.05 | Vert(CT) -0.00 | 2-6 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.04 | Horz(CT) 0.00 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | Wind(LL) -0.00 | 6 | >999 | 240 | Weight: 55 lb | FT = 20% |

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
 Max Horz 2=145(LC 10)
 Max Uplift 2=61(LC 12), 4=61(LC 13)
 Max Grav 2=346(LC 1), 4=346(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-285/104, 3-4=-284/105

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.



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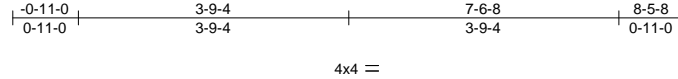
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|---------------|---------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss D1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203524 |
|-------------------|---------------|---------------------|----------|----------|--|-----------|

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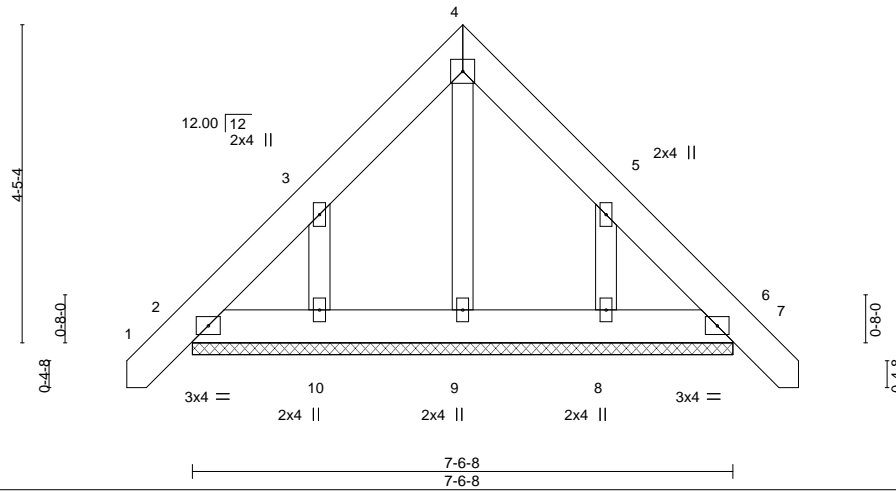
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:28 2022 Page 1

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4x4 =

Scale = 1:30.3



| | | | | | | | | |
|----------------------|----------------------|-------------|----------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | 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 | 6 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.02 | Vert(CT) -0.00 | 6 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.05 | Horz(CT) 0.00 | 6 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | | Weight: 59 lb | FT = 20% |

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 7-6-8.
 (lb) - Max Horz 2=182(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=218(LC 12), 8=215(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-10=299/255, 5-8=300/255

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=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) 2, 6 except (jt=lb) 10=218, 8=215.



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|-------------------|-------------|-------------------------|----------|----------|----------------------|-----------|
| Job J1122-5621 | Truss M1 | Truss Type MONOPITCH | Qty 3 | Ply 1 | Lot 124 Hidden Lakes | I54203525 |
|-------------------|-------------|-------------------------|----------|----------|----------------------|-----------|

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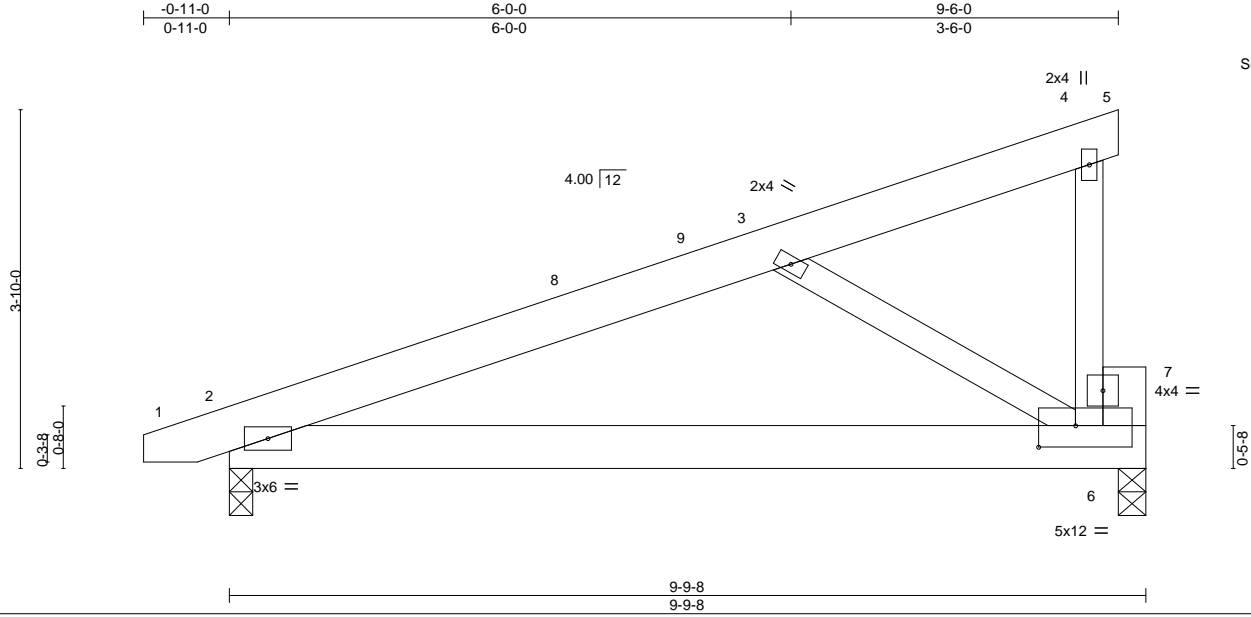


Plate Offsets (X,Y)-- [6:0-4-12,0-2-12]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.37 | Vert(LL) | 0.17 | 2-6 | >633 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.35 | Vert(CT) | -0.12 | 2-6 | >942 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.11 | Horz(CT) | -0.00 | 6 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 60 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 8-9-15 oc bracing. |
| WEBS 2x4 SP No.2 | |
| OTHERS 2x6 SP No.1 | |

REACTIONS. (size) 6=0-3-8, 2=0-3-0
 Max Horz 2=146(LC 8)
 Max Uplift 6=253(LC 8), 2=240(LC 8)
 Max Grav 6=377(LC 1), 2=415(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-449/365
 BOT CHORD 2-6=-518/386
 WEBS 3-6=-410/485

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 9-6-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=253, 2=240.

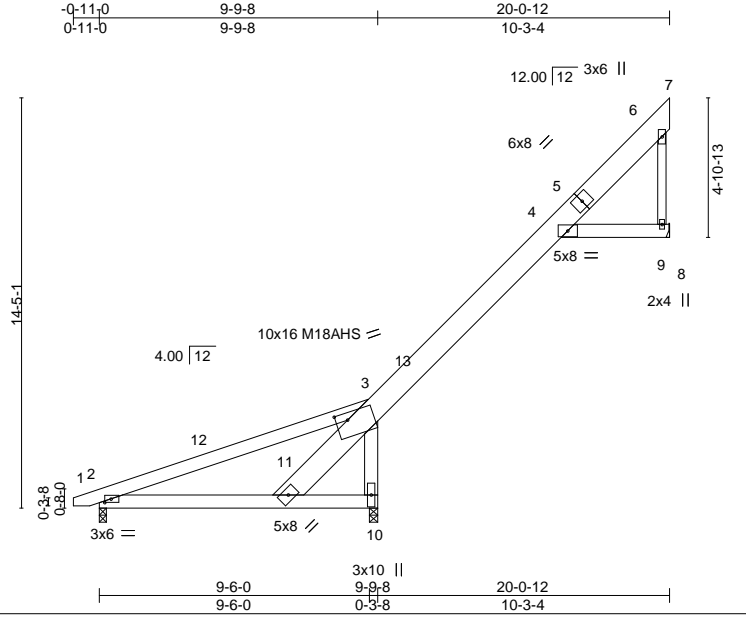


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|-------------------|-------------|----------------------------|----------|----------|----------------------|-----------|
| Job J1122-5621 | Truss M2 | Truss Type ROOF SPECIAL | Qty 1 | Ply 1 | Lot 124 Hidden Lakes | 154203526 |
|-------------------|-------------|----------------------------|----------|----------|----------------------|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:30 2022 Page 1
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Scale = 1:76.3

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|-----------------------|-----------------------------------|
| Plate Offsets (X,Y)-- | [2:0-2-11,0-1-8], [3:0-5-0,0-3-0] |
|-----------------------|-----------------------------------|

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.33 | Vert(LL) | -0.04 | 4 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.19 | Vert(CT) | -0.07 | 4 | >999 | M18AHS | 186/179 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.08 | Horz(CT) | 0.10 | 9 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) | 0.09 | 4 | >999 | | |
| | | | | | | | Weight: 146 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x10 SP No.1 *Except* 1-3: 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x6 SP No.1 *Except* 6-9: 2x4 SP No.2 | |

REACTIONS. (size) 9=Mechanical, 2=0-3-0, 10=0-3-8
 Max Horz 2=589(LC 12)
 Max Uplift 9=295(LC 12), 2=-271(LC 8), 10=-317(LC 12)
 Max Grav 9=409(LC 19), 2=354(LC 1), 10=830(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-751/772, 3-11=-496/321, 3-4=-424/307, 4-6=-293/308, 6-9=-483/386
 BOT CHORD 2-11=-317/230
 WEBS 3-10=-830/710

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 20-0-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=295, 2=-271, 10=317.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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|-------------------|----------------|----------------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss M2-GR | Truss Type ROOF SPECIAL | Qty 1 | Ply 2 | Lot 124 Hidden Lakes Job Reference (optional) | 154203527 |
|-------------------|----------------|----------------------------|----------|----------|--|-----------|

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:30:31 2022 Page 1
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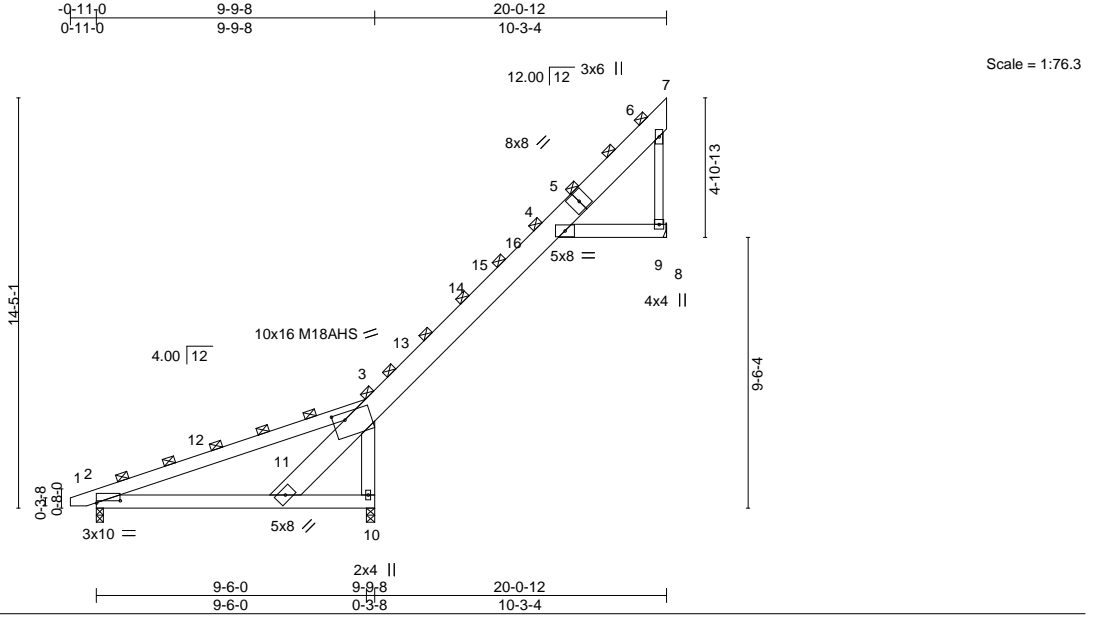


Plate Offsets (X,Y)-- [2:0-10-0,0-0-14], [3:0-5-0,0-3-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|---------------------------|----------------|----------|
| TCLL 20.0 | 5-0-0 | TC 0.60 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.24 | Vert(LL) -0.05 4 >999 360 | M18AHS | 186/179 |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.11 | Vert(CT) -0.16 4 >779 240 | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-S | Horz(CT) 0.20 9 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.12 4 >999 240 | | |
| | | | | Weight: 292 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x10 SP No.1 *Except*
 1-3: 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 6-9: 2x4 SP No.2

BRACING-
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
 (Switched from sheeted: Spacing > 2-8-0).
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 2-11.

REACTIONS. (size) 9=Mechanical, 2=0-3-0, 10=0-3-8
 Max Horz 2=1473(LC 12)
 Max Uplift 9=505(LC 12), 2=-469(LC 8)
 Max Grav 9=1252(LC 19), 2=747(LC 1), 10=3019(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1805/2216, 3-11=-409/472, 3-4=-1620/925, 4-6=-589/894, 6-9=-1398/778
 BOT CHORD 2-11=-644/148
 WEBS 3-10=-3135/73

- 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, 2x10 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 20-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=505, 2=469.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 346 lb down at 11-6-0, and 346 lb down at 13-6-0, and 346 lb down at 14-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.



LOAD CASE(S) Standard

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TRENCO
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203527 |
| J1122-5621 | M2-GR | ROOF SPECIAL | 1 | 2 | Job Reference (optional) | |

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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 3-6=-150, 6-7=-150, 2-10=-50, 4-8=-50
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-125, 3-6=-125, 6-7=-125, 2-10=-50, 4-8=-50
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-50, 3-6=-50, 6-7=-50, 2-10=-100, 4-8=-100
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=244, 2-12=142, 3-12=92, 3-6=92, 6-7=194, 2-10=-30, 4-8=-30
Horz: 1-2=-274, 2-12=-172, 3-12=-122, 3-6=-122, 6-7=-224
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=70, 2-3=92, 3-16=92, 6-16=117, 6-7=95, 2-10=-30, 4-8=-30
Horz: 1-2=-100, 2-3=-122, 3-16=-122, 6-16=-147, 6-7=-125
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-3=-110, 3-6=-172, 6-7=50, 2-10=-50, 4-8=-50
Horz: 1-2=-37, 2-3=60, 3-6=122, 6-7=-100
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-87, 2-3=-110, 3-6=-172, 6-7=-150, 2-10=-50, 4-8=-50
Horz: 1-2=37, 2-3=60, 3-6=122, 6-7=100
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=130, 2-3=78, 3-6=-34, 6-7=-56, 2-10=-30, 4-8=-30
Horz: 1-2=-160, 2-3=-108, 3-6=4, 6-7=26
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-3=51, 3-6=46, 6-7=98, 2-10=-30, 4-8=-30
Horz: 1-2=-58, 2-3=-81, 3-6=-76, 6-7=-128
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=36, 2-3=14, 3-6=-99, 6-7=-76, 2-10=-50, 4-8=-50
Horz: 1-2=-86, 2-3=-64, 3-6=49, 6-7=26
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-3=-14, 3-6=-19, 6-7=4, 2-10=-50, 4-8=-50
Horz: 1-2=-58, 2-3=-36, 3-6=-31, 6-7=-54
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=56, 2-3=78, 3-6=78, 6-7=56, 2-10=-30, 4-8=-30
Horz: 1-2=-86, 2-3=-108, 3-6=-108, 6-7=-86
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-3=39, 3-6=39, 6-7=16, 2-10=-30, 4-8=-30
Horz: 1-2=-46, 2-3=-69, 3-6=-69, 6-7=-46
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203527 |
| J1122-5621 | M2-GR | ROOF SPECIAL | 1 | 2 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

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LOAD CASE(S) Standard

- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=56, 2-3=78, 3-6=78, 6-7=56, 2-10=-30, 4-8=-30
Horz: 1-2=-86, 2-3=-108, 3-6=-108, 6-7=-86
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-3=39, 3-6=39, 6-7=16, 2-10=-30, 4-8=-30
Horz: 1-2=-46, 2-3=-69, 3-6=-69, 6-7=-46
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=36, 2-3=14, 3-6=14, 6-7=36, 2-10=-50, 4-8=-50
Horz: 1-2=-86, 2-3=-64, 3-6=-64, 6-7=-86
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-3=-26, 3-6=-26, 6-7=-4, 2-10=-50, 4-8=-50
Horz: 1-2=-46, 2-3=-24, 3-6=-24, 6-7=-46
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-50, 3-6=-50, 6-7=-50, 2-10=-50, 4-8=-50
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-77, 3-6=-161, 6-7=-145, 2-10=-50, 4-8=-50
Horz: 1-2=-65, 2-3=-48, 3-6=36, 6-7=20
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-81, 2-3=-98, 3-6=-102, 6-7=-85, 2-10=-50, 4-8=-50
Horz: 1-2=-44, 2-3=-27, 3-6=-23, 6-7=-40
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-77, 3-6=-77, 6-7=-60, 2-10=-50, 4-8=-50
Horz: 1-2=-65, 2-3=-48, 3-6=-48, 6-7=-65
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-107, 3-6=-107, 6-7=-90, 2-10=-50, 4-8=-50
Horz: 1-2=-35, 2-3=-18, 3-6=-18, 6-7=-35
Concentrated Loads (lb)
Vert: 13=-346(F) 14=-346(F) 15=-346(F)

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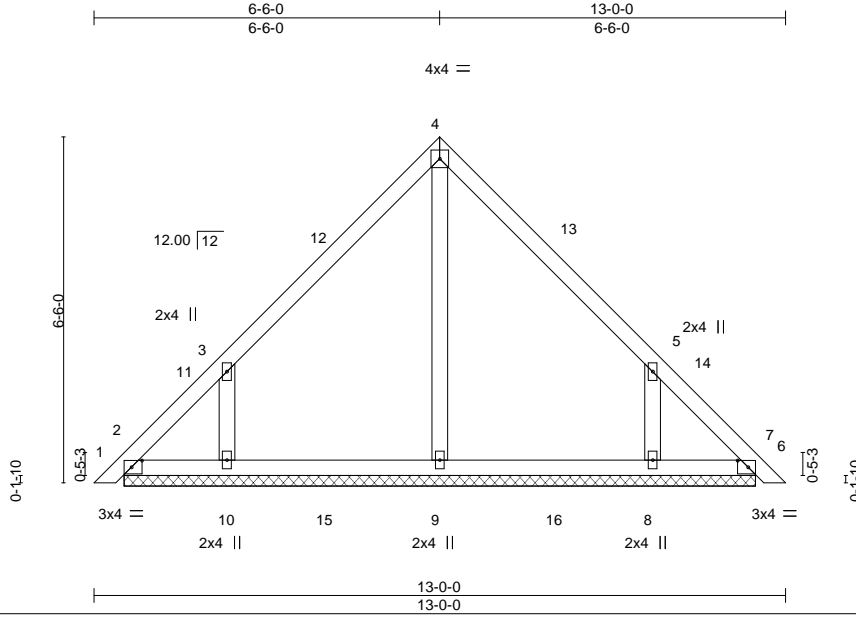


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|---------------------|-----------|----------|----------------------|-----------|
| Job J1122-5621 | Truss PB | Truss Type GABLE | Qty 13 | Ply 1 | Lot 124 Hidden Lakes | I54203528 |
|-------------------|-------------|---------------------|-----------|----------|----------------------|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:40.7

| | | | | | |
|-----------------------|----------------------------------|-------------|----------------------------------|---------------|-------------|
| Plate Offsets (X,Y)-- | [2:0-2-6,0-1-8], [6:0-2-6,0-1-8] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.18 | Vert(LL) -0.00 6 n/r 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.14 | Vert(CT) -0.00 6 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.09 | Horz(CT) 0.00 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 59 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 11-10-6.
(lb) - Max Horz 2=201(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=246(LC 12), 8=245(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=384(LC 19), 10=394(LC 19), 8=392(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=455/412, 5-8=455/412

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-8 to 4-7-4, Interior(1) 4-7-4 to 6-6-0, Exterior(2) 6-6-0 to 10-10-13, Interior(1) 10-10-13 to 12-9-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=246, 8=245.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 14, 2022

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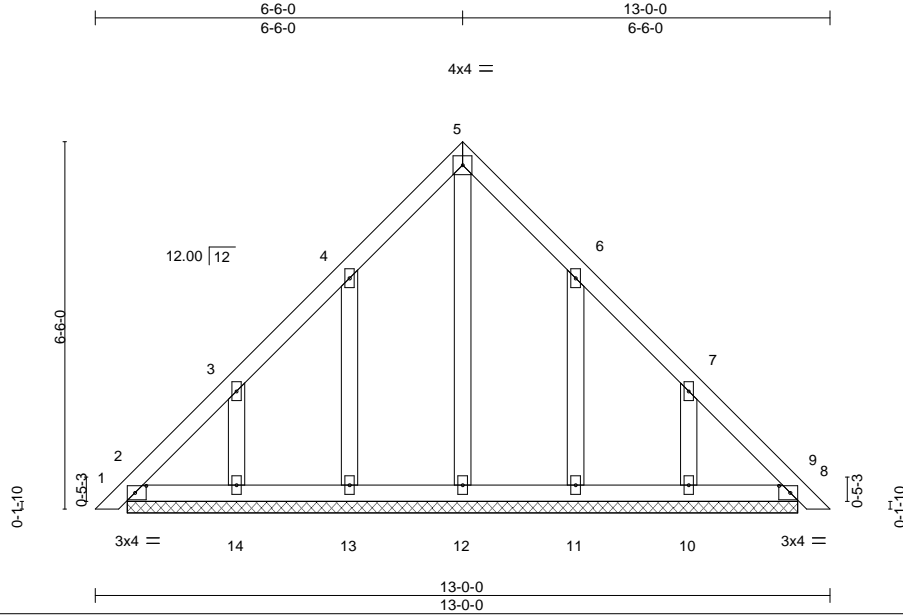
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|---------------|---------------------|----------|----------|--|-----------|
| Job J1122-5621 | Truss PBGE | Truss Type GABLE | Qty 2 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203529 |
|-------------------|---------------|---------------------|----------|----------|--|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:38.4

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.07 | Vert(LL) | 0.00 | 8 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.04 | Vert(CT) | 0.00 | 8 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.10 | Horz(CT) | 0.00 | 8 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 70 lb | FT = 20% |

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 11-10-6.
 (lb) - Max Horz 2=-251(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=-204(LC 12), 14=-230(LC 12), 11=-202(LC 13), 10=-230(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

TOP CHORD 2-3=-269/190
 WEBS 3-14=-264/243, 7-10=-264/243

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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, 8 except (jt=lb) 13=204, 14=230, 11=202, 10=230.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 14, 2022

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

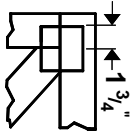
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 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



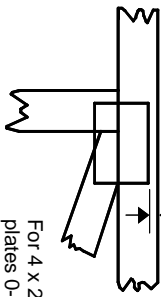
818 Soundside Road
 Edenton, NC 27932

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- $\frac{1}{16}$ " from outside edge of truss.

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

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

PLATE SIZE

4 X 4

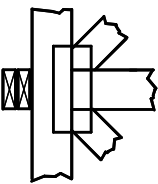
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



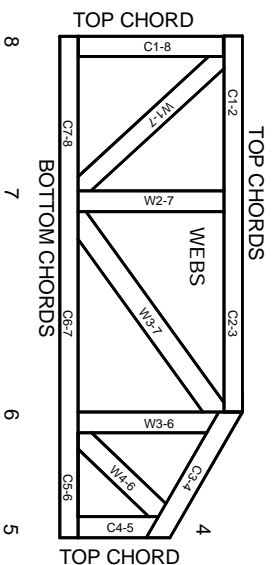
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/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, ESR 1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/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

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Lumber used shall be sheathed or purlins provided at spacing indicated on design.
- Top chords must be braced or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.

Reaction Summary of Order



| | | | |
|-----------------|----------------|-----------------|--------------|
| REQ. QUOTE DATE | // | ORDER # | J1122-5621 |
| ORDER DATE | 11/08/22 | QUOTE # | |
| DELIVERY DATE | // | CUSTOMER ACCT # | 0000006558 |
| DATE OF INVOICE | // | CUSTOMER PO # | |
| ORDERED BY | Jason Wellons | INVOICE # | |
| COUNTY | Johnston | TERMS | |
| SUPERINTENDANT | Jason Wellons | SALES REP | Lenny Norris |
| JOBSITE PHONE # | (910) 263-0276 | SALES AREA | David Landry |

| | | | |
|-------------------|--|---|---|
| WELCO CONTRACTORS | Wellco Contractors, Inc. PO Box 766 Spring Lake, NC 28390 (910) 436-3131 | JOB NAME: Lot 124 Hidden Lakes MODEL: Roof TAG: Plan 7 DELIVERY INSTRUCTIONS: | LOT # 124 SUBDIV: Hidden Lakes JOB CATEGORY: B & S - Build and Ship |
| | Wellco Contractors 41 Sugarberry Place Clayton, NC 27527 | SPECIAL INSTRUCTIONS: | PLAN SEAL DATE: N/A |

| BUILDING DEPARTMENT | OVERHANG INFO | HEEL HEIGHT | 00-04-05 | REQ. LAYOUTS | REQ. ENGINEERING | QUOTE | JL | DATE |
|---------------------|----------------|-------------|-----------|--------------|------------------|---------|----|----------|
| Roof Order | END CUT RETURN | | | | | LAYOUT | JL | 11/11/22 |
| | PLUMB NO | GABLE STUDS | 16 IN. OC | JOBSITE 1 | JOBSITE 1 | CUTTING | JL | 11/11/22 |

ROOF TRUSSES

LOADING INFORMATION

| | |
|---------------------|--------------|
| TCLL-TCDL-BCLL-BCDL | STRESS INCR. |
| 20.0,10.0,0.0,10.0 | 1.15 |

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY PLY | PITCH | | TYPE ID | BASE O/A | LUMBER | | OVERHANG | | REACTIONS | | | | |
|---------|------------|-------|------|-------------|----------------------|--------|-------|----------|----------|---------------------------------------|--|--|---------------------------------------|--|
| | | TOP | BOT | | | TOP | BOT | LEFT | RIGHT | | | | | |
| | 4 | 4.00 | 0.00 | ATTIC A1 | 43-06-00 43-06-00 | 2 X 6 | 2 X 6 | 00-11-00 | 00-11-00 | Joint 2 145.7 lbs. -474.0 lbs. | Joint 11 2430.7 lbs. 233.9 lbs. | Joint 28 3125.6 lbs. -221.8 lbs. | | |
| | 1 3 Ply | 4.00 | 0.00 | ATTIC A1-GR | 43-06-00 43-06-00 | 2 X 6 | 2 X 8 | 00-11-00 | 00-11-00 | Joint 2 619.2 lbs. -326.5 lbs. | Joint 10 9329.7 lbs. 53.8 lbs. | Joint 17 4556.6 lbs. -176.9 lbs. | | |
| | 1 | 4.00 | 0.00 | GABLE A1GE | 43-06-00 43-06-00 | 2 X 6 | 2 X 6 | 00-11-00 | 00-11-00 | Joint 2 209.6 lbs. -424.9 lbs. | Joint 24 2252.6 lbs. -121.4 lbs. | Joint 46 2865.1 lbs. -373.8 lbs. | | |
| | 5 | 12.00 | 0.00 | ROOF A2 | 23-01-12 23-01-12 | 2 X 6 | 2 X 6 | | 00-11-00 | Joint 5 953.1 lbs. -210.7 lbs. | Joint 10 912.2 lbs. -196.9 lbs. | | | |
| | 1 | 12.00 | 0.00 | GABLE A2SG | 23-01-12 23-01-12 | 2 X 6 | 2 X 6 | | 00-11-00 | Joint 9 953.1 lbs. -402.4 lbs. | Joint 18 912.2 lbs. -392.9 lbs. | | | |
| | 3 | 12.00 | 0.00 | ROOF A3 | 25-03-12 25-03-12 | 2 X 6 | 2 X 6 | | 00-11-00 | Joint 5 1039.7 lbs. -220.3 lbs. | Joint 10 998.9 lbs. -177.1 lbs. | | | |
| | 1 | 12.00 | 0.00 | GABLE A3SG | 25-03-12 25-03-12 | 2 X 6 | 2 X 6 | | 00-11-00 | Joint 9 1039.7 lbs. -428.8 lbs. | Joint 18 998.9 lbs. -369.7 lbs. | | | |
| | 5 | **.** | 0.00 | ATTIC A4 | 25-00-12 25-00-12 | 2 X 6 | 2 X 6 | 00-03-00 | 00-11-00 | Joint 8 608.4 lbs. 121.9 lbs. | Joint 12 1987.5 lbs. 700.2 lbs. | Joint 17 734.0 lbs. 584.9 lbs. | Joint 25 647.9 lbs. -96.7 lbs. | |
| | 1 | **.** | 0.00 | GABLE A4GE | 25-00-12 25-00-12 | 2 X 6 | 2 X 6 | 00-03-00 | 00-11-00 | Joint 15 617.7 lbs. 123.2 lbs. | Joint 19 1969.2 lbs. 710.2 lbs. | Joint 24 735.0 lbs. 587.0 lbs. | Joint 32 654.8 lbs. -100.0 lbs. | |
| | 3 | **.** | 0.00 | ATTIC A5 | 25-00-12 25-00-12 | 2 X 6 | 2 X 6 | 00-03-00 | 00-11-00 | Joint 8 605.0 lbs. 121.1 lbs. | Joint 12 1981.4 lbs. 701.8 lbs. | Joint 17 733.1 lbs. 584.4 lbs. | Joint 24 645.0 lbs. -88.2 lbs. | |

Reaction Summary of Order



| | | | |
|-----------------|----------------|-----------------|--------------|
| REQ. QUOTE DATE | // | ORDER # | J1122-5621 |
| ORDER DATE | 11/08/22 | QUOTE # | |
| DELIVERY DATE | // | CUSTOMER ACCT # | 0000006558 |
| DATE OF INVOICE | // | CUSTOMER PO # | |
| ORDERED BY | Jason Wellons | INVOICE # | |
| COUNTY | Johnston | TERMS | |
| SUPERINTENDANT | Jason Wellons | SALES REP | Lenny Norris |
| JOBSITE PHONE # | (910) 263-0276 | SALES AREA | David Landry |

| | | | |
|-------------------------|--|---|---|
| WELCO CONTRACTORS, INC. | Wellco Contractors, Inc. PO Box 766 Spring Lake, NC 28390 (910) 436-3131 | JOB NAME: Lot 124 Hidden Lakes MODEL: Roof TAG: Plan 7 DELIVERY INSTRUCTIONS: | LOT # 124 SUBDIV: Hidden Lakes JOB CATEGORY: B & S - Build and Ship |
| | Wellco Contractors 41 Sugarberry Place Clayton, NC 27527 | SPECIAL INSTRUCTIONS: | PLAN SEAL DATE: N/A |

| | | | | | | | | |
|----------------------------|----------------------|--------------------|-----------|---------------------|-------------------------|----------------|----|----------|
| BUILDING DEPARTMENT | OVERHANG INFO | HEEL HEIGHT | 00-04-05 | REQ. LAYOUTS | REQ. ENGINEERING | QUOTE | JL | 11/11/22 |
| Roof Order | END CUT RETURN | | | | | LAYOUT | JL | 11/11/22 |
| | PLUMB NO | GABLE STUDS | 16 IN. OC | JOBSITE | 1 | CUTTING | JL | 11/11/22 |

ROOF TRUSSES

LOADING INFORMATION

| | |
|---------------------|--------------|
| TCLL-TCDL-BCLL-BCDL | STRESS INCR. |
| 20.0,10.0,0.0,10.0 | 1.15 |

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY | PITCH | | TYPE ID | BASE O/A | LUMBER | | OVERHANG | | REACTIONS | | | | | |
|---------|------------|-------|------|--------------------|----------------------|--------|--------|----------|----------|--|--|---------------------------------------|--------------------------------------|---------------------------------------|--|
| | | TOP | BOT | | | TOP | BOT | LEFT | RIGHT | | | | | | |
| | 1 | 12.00 | 0.00 | ATTIC B1 | 21-11-00 21-11-00 | 2 X 8 | 2 X 6 | 00-11-00 | 00-11-00 | Joint 2 1605.7 lbs. 130.7 lbs. | Joint 12 1605.7 lbs. 130.7 lbs. | | | | |
| | 1 | 12.00 | 0.00 | ATTIC B1GE | 21-11-00 21-11-00 | 2 X 8 | 2 X 6 | 00-11-00 | 00-11-00 | Joint 2 1597.0 lbs. -26.1 lbs. | Joint 12 1597.0 lbs. -26.1 lbs. | | | | |
| | 3 | 12.00 | 0.00 | ATTIC B2 | 21-11-00 21-11-00 | 2 X 8 | 2 X 6 | | 00-11-00 | Joint 1 1582.3 lbs. 135.1 lbs. | Joint 11 1606.3 lbs. 130.5 lbs. | | | | |
| | 6 | 12.00 | 0.00 | ATTIC B3 | 21-11-00 21-11-00 | 2 X 8 | 2 X 6 | | | Joint 1 1582.9 lbs. 134.9 lbs. | Joint 11 1582.9 lbs. 134.9 lbs. | | | | |
| | 1 2 Ply | 12.00 | 0.00 | ATTIC GIRDER B3-GR | 21-11-00 21-11-00 | 2 X 6 | 2 X 10 | | | Joint 15 4365.9 lbs. 2626.5 lbs. | Joint 19 5393.6 lbs. 1424.7 lbs. | | | | |
| | 5 | 4.00 | 0.00 | COMMON C1 | 15-11-00 15-11-00 | 2 X 6 | 2 X 6 | 00-11-00 | 00-11-00 | Joint 2 671.9 lbs. -399.9 lbs. | Joint 4 671.9 lbs. -399.9 lbs. | | | | |
| | 1 | 4.00 | 0.00 | COMMON C1GE | 15-11-00 15-11-00 | 2 X 6 | 2 X 6 | 00-11-00 | 00-11-00 | Joint 2 176.1 lbs. -96.6 lbs. | Joint 8 176.1 lbs. -106.0 lbs. | Joint 10 312.8 lbs. -181.0 lbs. | Joint 11 105.4 lbs. -60.3 lbs. | Joint 12 165.1 lbs. -6.5 lbs. | |
| | 3 | 12.00 | 0.00 | COMMON D1 | 07-06-08 07-06-08 | 2 X 6 | 2 X 6 | 00-11-00 | 00-11-00 | Joint 2 345.6 lbs. -61.4 lbs. | Joint 4 345.6 lbs. -61.4 lbs. | | | | |
| | 1 | 12.00 | 0.00 | GABLE D1GE | 07-06-08 07-06-08 | 2 X 6 | 2 X 6 | 00-11-00 | 00-11-00 | Joint 2 143.4 lbs. -45.4 lbs. | Joint 6 138.7 lbs. -21.9 lbs. | Joint 8 218.0 lbs. -215.5 lbs. | Joint 9 116.4 lbs. 27.7 lbs. | Joint 10 220.3 lbs. -217.5 lbs. | |
| | 3 | 4.00 | 0.00 | MONOPITCH M1 | 09-06-00 09-06-00 | 2 X 6 | 2 X 6 | 00-11-00 | 00-03-08 | Joint 2 415.4 lbs. -240.5 lbs. | Joint 6 376.6 lbs. -253.1 lbs. | | | | |

Reaction Summary of Order



| | | | |
|-----------------|----------------|-----------------|--------------|
| REQ. QUOTE DATE | // | ORDER # | J1122-5621 |
| ORDER DATE | 11/08/22 | QUOTE # | |
| DELIVERY DATE | // | CUSTOMER ACCT # | 0000006558 |
| DATE OF INVOICE | // | CUSTOMER PO # | |
| ORDERED BY | Jason Wellons | INVOICE # | |
| COUNTY | Johnston | TERMS | |
| SUPERINTENDANT | Jason Wellons | SALES REP | Lenny Norris |
| JOBSITE PHONE # | (910) 263-0276 | SALES AREA | David Landry |

| | | |
|---|---|--|
| Wellco Contractors, Inc. PO Box 766 Spring Lake, NC 28390 (910) 436-3131 | JOB NAME: Lot 124 Hidden Lakes MODEL: Roof TAG: Plan 7 | LOT # 124 SUBDIV: Hidden Lakes JOB CATEGORY: B & S - Build and Ship |
| | DELIVERY INSTRUCTIONS: | |
| Wellco Contractors 41 Sugarberry Place Clayton, NC 27527 | SPECIAL INSTRUCTIONS: | |
| PLAN SEAL DATE: N/A | | |

| | | | | | | | | |
|---------------------|----------------|-------------|-----------|--------------|------------------|---------|----|----------|
| BUILDING DEPARTMENT | OVERHANG INFO | HEEL HEIGHT | 00-04-05 | REQ. LAYOUTS | REQ. ENGINEERING | QUOTE | JL | 11/11/22 |
| Roof Order | END CUT RETURN | | | | | LAYOUT | JL | 11/11/22 |
| | PLUMB NO | GABLE STUDS | 16 IN. OC | JOBSITE | 1 | CUTTING | JL | 11/11/22 |

ROOF TRUSSES

LOADING INFORMATION

| | |
|---------------------|--------------|
| TCLL-TCDL-BCLL-BCDL | STRESS INCR. |
| 20.0,10.0,0.0,10.0 | 1.15 |

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY | PITCH | | TYPE ID | BASE O/A | LUMBER | | OVERHANG | | REACTIONS |
|---------|------------|-------|------|------------|----------------------|--------|-------|----------|-------|---|
| | | TOP | BOT | | | TOP | BOT | LEFT | RIGHT | |
| | 1 | 4.00 | 0.00 | ROOF M2 | 20-00-12 20-00-12 | 2 X 6 | 2 X 6 | 00-11-00 | | Joint 2: 354.2 lbs. Joint 9: 409.0 lbs. Joint 10: 829.8 lbs. -271.2 lbs. -295.0 lbs. -317.4 lbs. |
| | 1 2 Ply | 4.00 | 0.00 | ROOF M2-GR | 20-00-12 20-00-12 | 2 X 6 | 2 X 6 | 00-11-00 | | Joint 2: 746.9 lbs. Joint 9: 1252.4 lbs. Joint 10: 3019.0 lbs. -469.5 lbs. -505.1 lbs. 150.7 lbs. |
| | 13 | 12.00 | 0.00 | GABLE PB | 11-10-06 11-10-06 | 2 X 4 | 2 X 4 | | | Joint 2: 148.9 lbs. Joint 6: 123.3 lbs. Joint 8: 392.4 lbs. Joint 9: 383.6 lbs. Joint 10: 393.8 lbs. -73.0 lbs. -40.4 lbs. -245.1 lbs. 51.6 lbs. -246.0 lbs. |
| | 2 | 12.00 | 0.00 | GABLE PBGE | 11-10-06 11-10-06 | 2 X 4 | 2 X 4 | | | Joint 2: 166.0 lbs. Joint 8: 142.5 lbs. Joint 10: 227.6 lbs. Joint 11: 213.1 lbs. Joint 12: 181.7 lbs. -72.0 lbs. -30.7 lbs. -230.0 lbs. -202.1 lbs. 18.7 lbs. |

ITEMS

| QTY | ITEM TYPE | SIZE | LENGTH FT-IN-16 | PART NUMBER | NOTES |
|-----|-------------------|--------------------------|-----------------|-------------|--------------------|
| 9 | Hangers, USP | HUS 26 | | | SIMPSON (HUS26) |
| 2 | LVL Beams (Sized) | LVL, 1-3/4" x 9-1/4" (S) | 11-00-00 | | BM3 |
| 1 | Hangers, USP | THD26-2 | | | SIMPSON (HHUS26-2) |



ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature David Landry
David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (2))

| NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GORDER | | NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GORDER | | NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GORDER | |
|---|--------------------------------|---|--------------------------------|---|--------------------------------|
| END REACTION (L/10) | REQ'D STUDS FOR (L/10) HEADERS | END REACTION (L/10) | REQ'D STUDS FOR (L/10) HEADERS | END REACTION (L/10) | REQ'D STUDS FOR (L/10) HEADERS |
| 1700 | 1 | 2550 | 1 | 3400 | 1 |
| 3400 | 2 | 5100 | 2 | 6800 | 2 |
| 5100 | 3 | 7650 | 3 | 10200 | 3 |
| 6800 | 4 | 10200 | 4 | 13600 | 4 |
| 8500 | 5 | 12750 | 5 | 17000 | 5 |
| 10200 | 6 | 15300 | 6 | | |
| 11900 | 7 | | | | |
| 13600 | 8 | | | | |
| 15300 | 9 | | | | |

All Walls Shown Are Considered Load Bearing

- Plumbing Drop Notes**
1. Plumbing drop locations shown are NOT exact.
 2. Contractor to verify ALL plumbing drop locations prior to setting Attic Trusses.
 3. Adjust spacing as needed not to exceed 24"oc.

Roof Area = 3115.52 sq.ft.
Ridge Line = 90.43 ft.
Hip Line = 0 ft.
Horiz. OH = 119.44 ft.
Raked OH = 162.58 ft.
Decking = 107 sheets

- Dimension Notes**
1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
 2. All interior wall dimensions are to face of frame wall unless noted otherwise
 3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

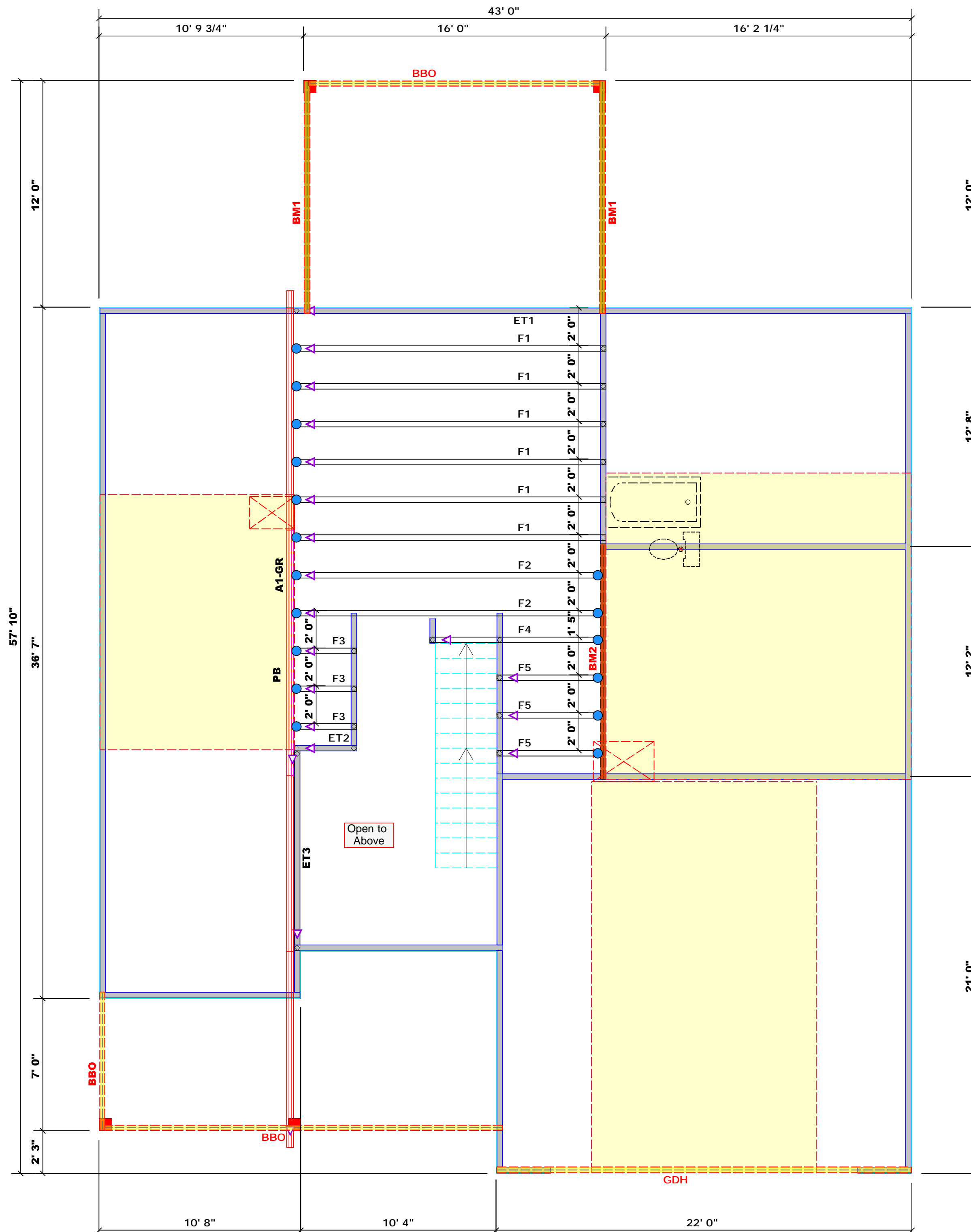
Hatch Legend

- Second Floor Walls
- Drop Beam
- Flush Beam

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|------------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| ● | HUS410 | USP | 17 | NA | 16d/3-1/2" | 16d/3-1/2" |

| Products | | | | |
|----------|--------|----------------------------|-------|---------|
| PlotID | Length | Product | Plies | Net Qty |
| BM1 | 13' 0" | 1-3/4"x 9-1/4" LVL Kerto-S | 2 | 4 |
| BM2 | 13' 0" | 1-3/4"x 16" LVL Kerto-S | 2 | 2 |
| GDH | 22' 0" | 1-3/4"x 14" LVL Kerto-S | 2 | 2 |

1 Truss Placement Plan
Scale: 1/4"=1'



▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

| CITY / CO. | ADDRESS | MODEL | DATE REV. | DRAWN BY | SALES REP. |
|--------------------|---------------------|-------|-----------|-----------------|--------------|
| Clayton / Johnston | 41 Sugarberry Place | Floor | 11/11/22 | Jonathan Landry | Lenny Norris |

| BUILDER | JOB NAME | PLAN | SEAL DATE | QUOTE # | JOB # |
|--------------------|----------------------|--------|-----------|---------|------------|
| Wellco Contractors | Lot 124 Hidden Lakes | Plan 7 | N/A | | J1122-5622 |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbindustry.com



RE: J1122-5622
Lot 124 Hidden Lakes

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Wellco Contractors Project Name: J1122-5622
Lot/Block: 124 Model: Plan 7
Address: 41 Sugarberry Place Subdivision: Hidden Lakes
City: Clayton State: NC

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: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 8 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|
| 1 | I54203641 | ET1 | 9/14/2022 |
| 2 | I54203642 | ET2 | 9/14/2022 |
| 3 | I54203643 | ET3 | 9/14/2022 |
| 4 | I54203644 | F1 | 9/14/2022 |
| 5 | I54203645 | F2 | 9/14/2022 |
| 6 | I54203646 | F3 | 9/14/2022 |
| 7 | I54203647 | F4 | 9/14/2022 |
| 8 | I54203648 | F5 | 9/14/2022 |

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



September 14, 2022

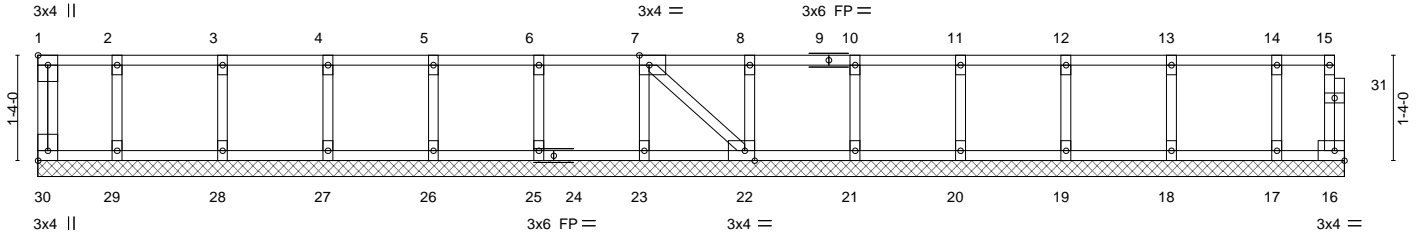
| | | | | | | |
|-------------------|--------------|---------------------|----------|----------|--|-----------|
| Job J1122-5622 | Truss ET1 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203641 |
|-------------------|--------------|---------------------|----------|----------|--|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:24 2022 Page 1
ID:6sgI4LOLhQy4UVHIBGzV0cye4nu-7UkHdinU3qlvJGKiAb?ag2LNvsLQPFAYfEqQeydj4P

0-1-8

Scale = 1:27.4



| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 1-0-0 | 2-4-0 | 3-8-0 | 5-0-0 | 6-4-0 | 7-8-0 | 9-0-0 | 10-4-0 | 11-8-0 | 13-0-0 | 14-4-0 | 15-8-0 | 16-6-4 |
| 1-0-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 0-10-4 |

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [22:0-1-8,Edge], [30:Edge,0-1-8]

| | | | | | | | | | | |
|----------------------|-----------------|-----------------|-------------|--------------|----------|--------|-----|---------------|---------------|-----------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.06 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.01 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | 0.00 | 16 | n/a | n/a | | |
| BCDL 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | Weight: 77 lb | FT = 20%F, 11%E |

| | |
|------------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1 (flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1 (flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 (flat) | |
| OTHERS 2x4 SP No.3 (flat) | |


REACTIONS. All bearings 16-6-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



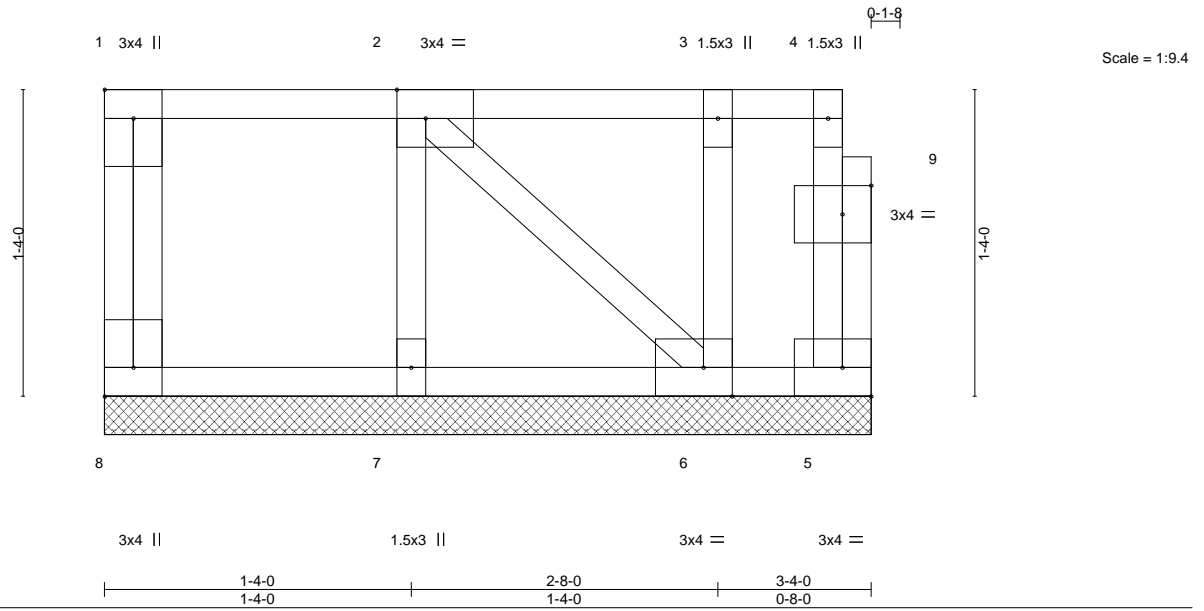
September 14, 2022

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|---|--|
| <p>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</p> |  818 Soundside Road Edenton, NC 27932 |
|---|--|

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|-------------------|--------------|---------------------|----------|----------|--|-----------|
| Job J1122-5622 | Truss ET2 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203642 |
|-------------------|--------------|---------------------|----------|----------|--|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:25 2022 Page 1
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| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [1:Edge,0-1-8], [2:0-1-8,Edge], [6:0-1-8,Edge], [8:Edge,0-1-8], [9:0-1-8,0-1-8] |
|-----------------------|---|

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|-----------------|-----------------|----------|----------|----------|--------|-----|--------|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.06 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.01 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL 5.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | Weight: 22 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|------------------------------|---|
| TOP CHORD 2x4 SP No.1 (flat) | TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1 (flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 (flat) | |
| OTHERS 2x4 SP No.3 (flat) | |


REACTIONS. All bearings 3-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

- NOTES-**
- 1) Plates checked for a plus or minus 1 degree rotation about its center.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



September 14, 2022

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| <p>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</p> |  818 Soundside Road Edenton, NC 27932 |
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|-------------------|--------------|---------------------|----------|----------|--|-----------|
| Job J1122-5622 | Truss ET3 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203643 |
|-------------------|--------------|---------------------|----------|----------|--|-----------|

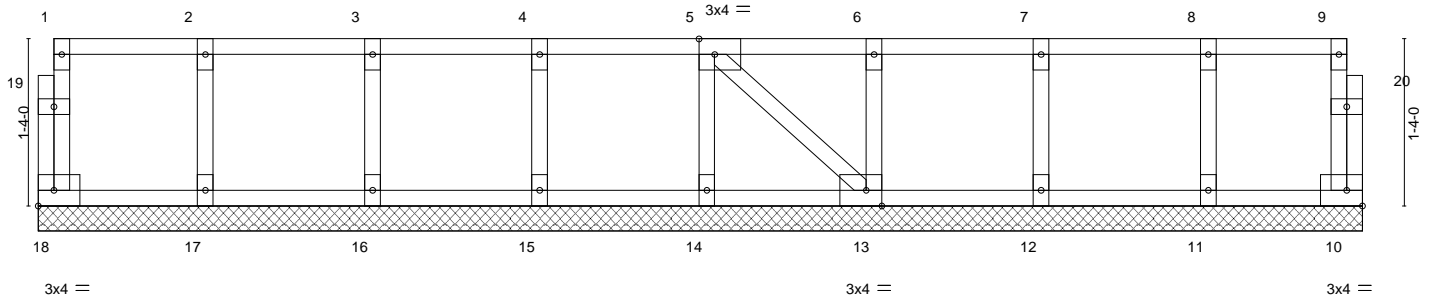
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:26 2022 Page 1
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0'-1'-8"

0'-1'-8"

Scale = 1:17.3



| | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|---------|
| 1-4-0 | 2-8-0 | 4-0-0 | 5-4-0 | 6-8-0 | 8-0-0 | 9-4-0 | 10-6-12 |
| 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-2-12 |

| | | | | | | | |
|---|-----------------|-----------------|-------------|--------------|----------|--------|-------------------------------|
| Plate Offsets (X,Y)-- [5:0-1-8,Edge], [13:0-1-8,Edge] | | | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d |
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.06 | Vert(LL) | n/a | - | n/a 999 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.01 | Vert(CT) | n/a | - | n/a 999 |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | 0.00 | 10 | n/a n/a |
| BCDL 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | |
| | | | | | | | PLATES MT20 |
| | | | | | | | GRIP 244/190 |
| | | | | | | | Weight: 51 lb FT = 20%F, 11%E |

| | |
|------------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1 (flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1 (flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 (flat) | |
| OTHERS 2x4 SP No.3 (flat) | |

REACTIONS. All bearings 10-6-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



September 14, 2022

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|---|---|
| <p>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</p> | <p>818 Soundside Road Edenton, NC 27932</p> |
|---|---|

| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J1122-5622 | Truss F1 | Truss Type FLOOR | Qty 6 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203644 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:26 2022 Page 1
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Scale = 1:27.1

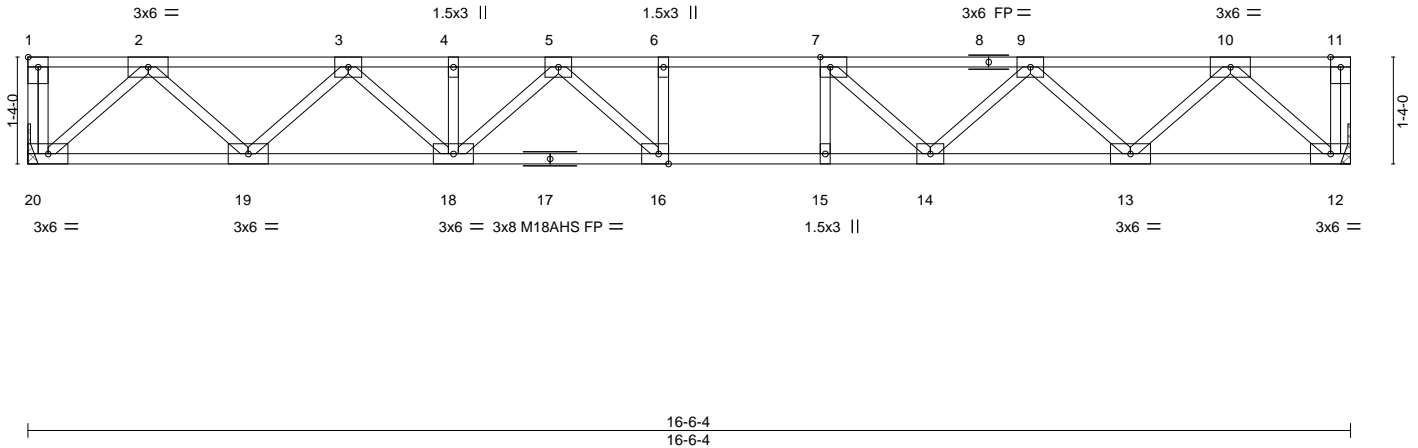


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [16:0-1-8,Edge]

| LOADING (psf) | SPACING- | CS.I. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|-------------|--------|-----|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.57 | Vert(LL) | -0.20 16-18 | >973 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.94 | Vert(CT) | -0.27 16-18 | >719 | 360 | M18AHS | 186/179 |
| BCLL 0.0 | Rep Stress Incr NO | WB 0.43 | Horz(CT) | 0.05 12 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 87 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|------------------------------|---|
| TOP CHORD 2x4 SP No.1 (flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1 (flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 (flat) | |

REACTIONS. (size) 20=Mechanical, 12=Mechanical
Max Grav 20=1120(LC 1), 12=1120(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-263/0, 11-12=-269/0, 2-3=-1600/0, 3-4=-2621/0, 4-5=-2621/0, 5-6=-2964/0, 6-7=-2964/0, 7-9=-2572/0, 9-10=-1605/0
BOT CHORD 19-20=0/960, 18-19=0/2214, 16-18=0/2888, 15-16=0/2964, 14-15=0/2964, 13-14=0/2215, 12-13=0/960
WEBS 2-20=-1278/0, 2-19=0/889, 3-19=-855/0, 3-18=0/553, 10-12=-1278/0, 10-13=0/897, 9-13=-849/0, 9-14=0/539, 7-14=-672/0, 5-18=-363/0, 5-16=-167/429

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Refer to girder(s) for truss to truss connections.
 - Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 225 lb down at 0-1-8, and 225 lb down at 16-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
- Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-11=-100



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Continued on page 2

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

818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203644 |
| J1122-5622 | F1 | FLOOR | 6 | 1 | Job Reference (optional) | |

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:27 2022 Page 2
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LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
- 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-7=-100, 7-11=-20
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
- 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-6=-20, 6-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
- 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-7=-100, 7-11=-20
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
- 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-6=-20, 6-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)

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

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



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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J1122-5622 | Truss F2 | Truss Type FLOOR | Qty 2 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203645 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:27 2022 Page 1
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1-3-0

1-7-4

Scale = 1:26.6

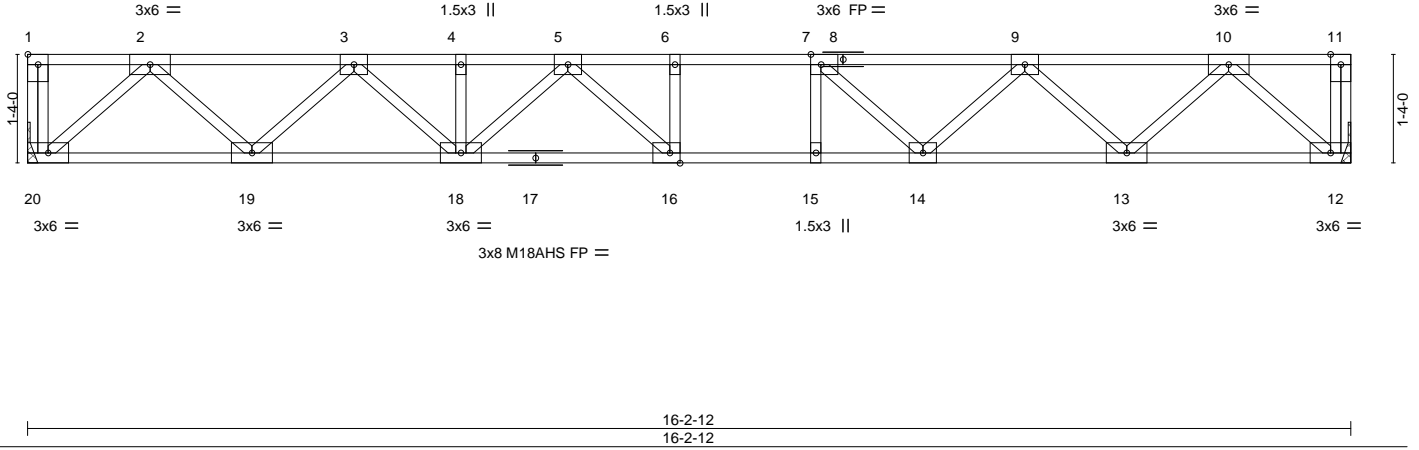


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [16:0-1-8,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.52 | Vert(LL) -0.17 | 16-18 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.84 | Vert(CT) -0.23 | 16-18 | >824 | 360 | M18AHS | 186/179 |
| BCLL 0.0 | Rep Stress Incr NO | WB 0.42 | Horz(CT) 0.05 | 12 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 87 lb | FT = 20%F, 11%E |

LUMBER-
TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)

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

REACTIONS. (size) 20=Mechanical, 12=Mechanical
Max Grav 20=1104(LC 1), 12=1104(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-263/0, 11-12=-269/0, 2-3=-1565/0, 3-4=-2551/0, 4-5=-2551/0, 5-6=-2865/0,
6-7=-2865/0, 7-9=-2502/0, 9-10=-1570/0
BOT CHORD 19-20=0/942, 18-19=0/2162, 16-18=0/2804, 15-16=0/2865, 14-15=0/2865, 13-14=0/2167,
12-13=0/941
WEBS 2-20=-1254/0, 2-19=0/866, 3-19=-831/0, 3-18=0/528, 10-12=-1253/0, 10-13=0/875,
9-13=-829/0, 9-14=0/508, 7-14=-621/0, 5-18=-344/0, 5-16=-177/391

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Refer to girder(s) for truss to truss connections.
 - Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 225 lb down at 0-1-8, and 225 lb down at 16-5-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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


- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
- Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-11=-100



September 14, 2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203645 |
| J1122-5622 | F2 | FLOOR | 2 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:27 2022 Page 2
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-X3QPFkqMMLgTAK3HrjZHlgzmv39AcWuiedTU1zydj4M

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
- 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-7=-100, 7-11=-20
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
- 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-6=-20, 6-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
- 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-7=-100, 7-11=-20
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(F)
- 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-20=-10, 1-6=-20, 6-11=-100
Concentrated Loads (lb)
Vert: 1=-225(F) 11=-225(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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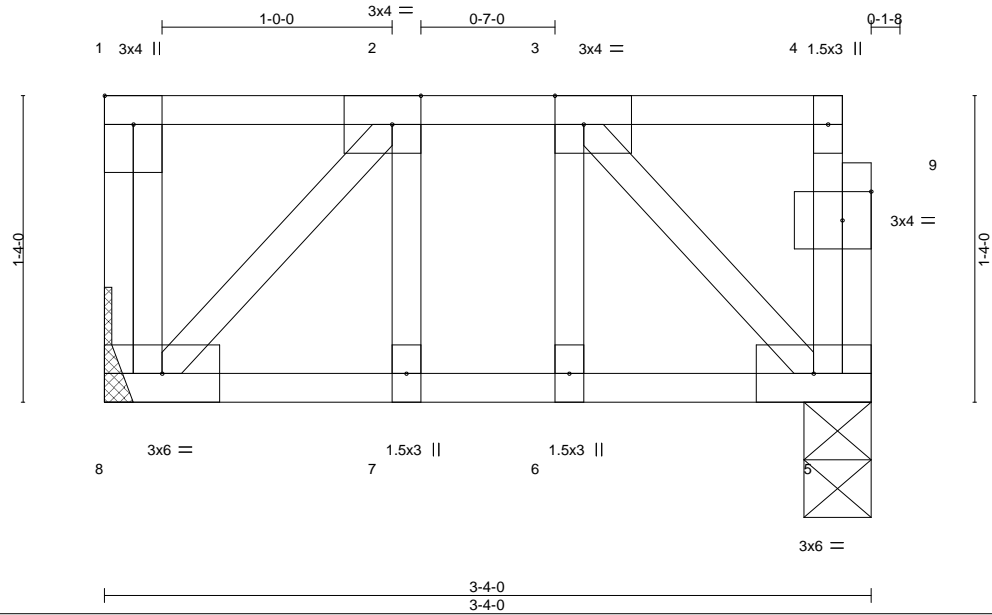


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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J1122-5622 | Truss F3 | Truss Type Floor | Qty 3 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | 154203646 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:28 2022 Page 1
ID:6sg4LOLhQy4UVHIBGzV0cye4nu-0FznS3r_72pKoudUPQ4WruW2iTimL33rHC2ZPydj4L



Scale = 1:9.4

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.07 | Vert(LL) -0.00 | 7 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.04 | Vert(CT) -0.00 | 7 | >999 | 360 | | |
| BCLL 0.0 | Rep Stress Incr NO | WB 0.04 | Horz(CT) 0.00 | 5 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 24 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|------------------------------|---|
| TOP CHORD 2x4 SP No.1 (flat) | TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1 (flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 (flat) | |

REACTIONS. (size) 8=Mechanical, 5=0-3-8
Max Grav 8=395(LC 1), 5=163(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-279/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Refer to girder(s) for truss to truss connections.
 - Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 225 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 1=-225(F)
 - Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 1=-225(F)
 - 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-100, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-225(F)



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Continued on page 2

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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203646 |
| J1122-5622 | F3 | Floor | 3 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:28 2022 Page 2
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-0FznS3r_72pKoudUPQ4WruW2iTimL33rtHC2ZPydj4L

LOAD CASE(S) Standard

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 5-8=-10, 1-2=-20, 2-4=-100

Concentrated Loads (lb)

Vert: 1=-225(F)

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 5-8=-10, 1-3=-100, 3-4=-20

Concentrated Loads (lb)

Vert: 1=-225(F)

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 5-8=-10, 1-2=-20, 2-4=-100

Concentrated Loads (lb)

Vert: 1=-225(F)

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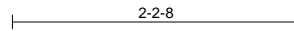
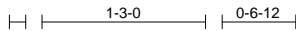
818 Soundside Road
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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J1122-5622 | Truss F4 | Truss Type FLOOR | Qty 1 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203647 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:30 2022 Page 1
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-ye5YttsFef321BnsWvr6_wjbNshNcpsy08Kbh9dlydj4J

0-1-8



Scale = 1:16.6

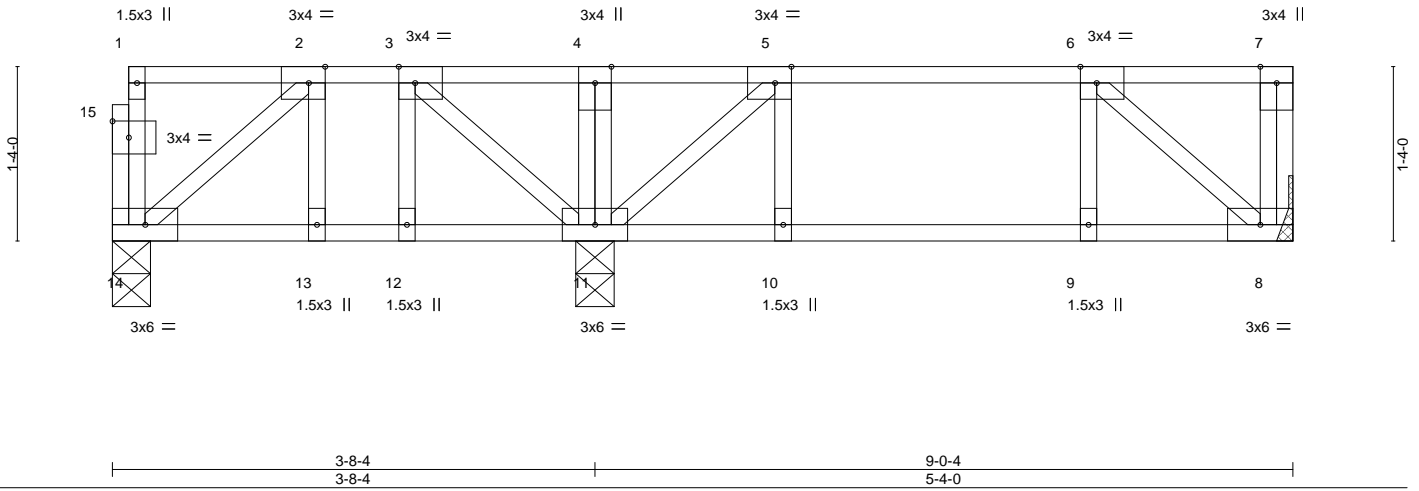


Plate Offsets (X, Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [15:0-1-8,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|----------|----------|----------|--------|------|---------------|-----------------|---------|
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.18 | Vert(LL) | -0.01 | 9 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.08 | Vert(CT) | -0.01 | 9 | >999 | 360 | | |
| BCLL 0.0 | Rep Stress Incr NO | WB 0.09 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | | |
| | | | | | | | Weight: 52 lb | FT = 20%F, 11%E | |

| LUMBER- | BRACING- |
|------------------------------|---|
| TOP CHORD 2x4 SP No.1 (flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1 (flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 (flat) | |

REACTIONS. (size) 14=0-3-8, 11=0-3-8, 8=Mechanical
Max Grav 14=207(LC 10), 11=512(LC 9), 8=511(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-273/0, 5-6=-278/0
BOT CHORD 10-11=0/278, 9-10=0/278, 8-9=0/278
WEBS 5-11=-365/0, 6-8=-363/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Refer to girder(s) for truss to truss connections.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 225 lb down at 9-3-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
 - Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
 - 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-100, 4-7=-20



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Continued on page 2

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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 124 Hidden Lakes | I54203647 |
| J1122-5622 | F4 | FLOOR | 1 | 1 | Job Reference (optional) | |

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:30 2022 Page 2
ID:6sgj4LOLhQy4UVHIBGzV0cye4nu-ye5YttsFef321BnsWr6_wJbNSHNcpsy08Kbh9dlydj4J

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 7=-225(F)
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-20, 4-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-100, 4-7=-20
Concentrated Loads (lb)
Vert: 7=-225(F)
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-20, 4-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-3=-100, 3-4=-20, 4-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
- 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-2=-20, 2-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
- 9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-6=-100, 6-7=-20
Concentrated Loads (lb)
Vert: 7=-225(F)
- 10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-100, 4-5=-20, 5-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
- 11) 5th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-3=-100, 3-4=-20, 4-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
- 12) 6th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-2=-20, 2-7=-100
Concentrated Loads (lb)
Vert: 7=-225(F)
- 13) 7th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-6=-100, 6-7=-20
Concentrated Loads (lb)
Vert: 7=-225(F)
- 14) 8th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-4=-100, 4-5=-20, 5-7=-100
Concentrated Loads (lb)
Vert: 7=-225(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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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J1122-5622 | Truss F5 | Truss Type FLOOR | Qty 3 | Ply 1 | Lot 124 Hidden Lakes Job Reference (optional) | I54203648 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Sep 14 12:33:31 2022 Page 1
ID:6sgl4LOLhQy4UVHIBGzV0cye4nu-Qqfw55ttPzBvflM34ZdDTW8YAgjSYPOHZFRiAkydj4I

0-1-8



Scale = 1:10.9

1 1.5x3 || 2 3 3x4 = 4 3x4 ||

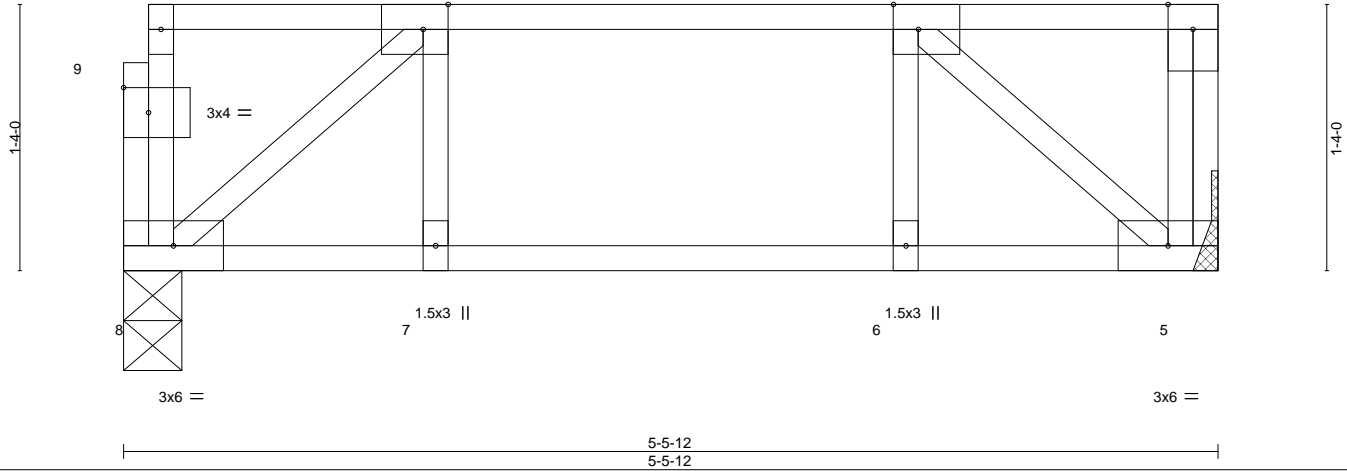


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|----------|----------|----------|--------|------|---------------|-----------------|---------|
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.18 | Vert(LL) | -0.01 | 6 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.11 | Vert(CT) | -0.01 | 6 | >999 | 360 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.09 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | | |
| | | | | | | | Weight: 30 lb | FT = 20%F, 11%E | |

LUMBER-

TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 5=Mechanical
Max Grav 8=281(LC 1), 5=288(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-282/0
BOT CHORD 7-8=0/282, 6-7=0/282, 5-6=0/282
WEBS 2-8=-366/0, 3-5=-369/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



September 14, 2022

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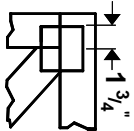
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



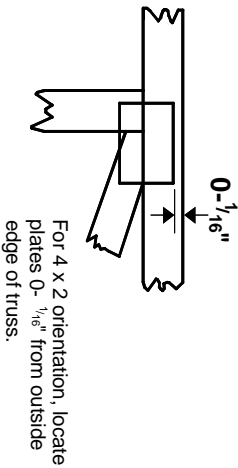
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Symbols

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- $\frac{1}{16}$ " from outside edge of truss.

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

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

PLATE SIZE

4 X 4

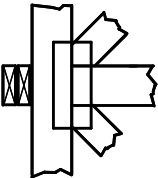
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



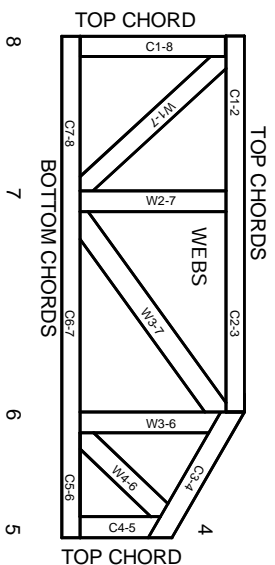
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/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, ESR 1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

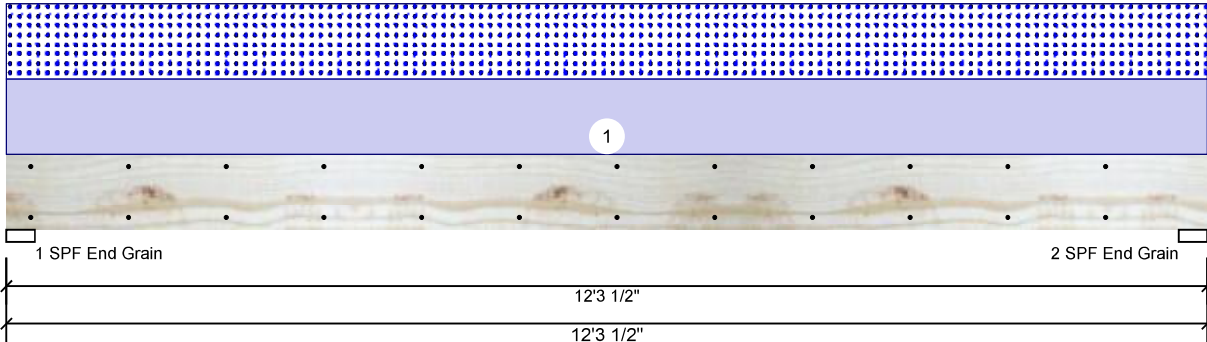


Client: Wellco Contractors
 Project: Plan 7
 Address: 41 Sugarberry Place
 Clayton, NC 27527

Date: 11/11/2022
 Input by: Jonathan Landry
 Job Name: Lot 124 Hidden Lakes
 Project #: J1122-5622

BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 240 |
| Importance: | Normal - II |
| Temperature: | Temp <= 100°F |

| | |
|----------------|--------------|
| Application: | Floor |
| Design Method: | ASD |
| Building Code: | IBC/IRC 2015 |
| Load Sharing: | No |
| Deck: | Not Checked |

Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind | Const |
|-----|-----------|------|------|------|------|-------|
| 1 | Vertical | 0 | 1077 | 1033 | 0 | 0 |
| 2 | Vertical | 0 | 1077 | 1033 | 0 | 0 |

Bearings

| Bearing | Length | Dir. | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|-------------------|--------|------|------|--------------|-------|----------|-----------|
| 1 - SPF End Grain | 3.500" | Vert | 20% | 1077 / 1033 | 2109 | L | D+S |
| 2 - SPF End Grain | 3.500" | Vert | 20% | 1077 / 1033 | 2109 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|---------------|-----------|---------------|-------------|-------|------|
| Moment | 6007 ft-lb | 6'1 3/4" | 14423 ft-lb | 0.416 (42%) | D+S | L |
| Unbraced | 6007 ft-lb | 6'1 3/4" | 6421 ft-lb | 0.936 (94%) | D+S | L |
| Shear | 1750 lb | 11'2 3/4" | 7943 lb | 0.220 (22%) | D+S | L |
| LL Defl inch | 0.171 (L/830) | 6'1 3/4" | 0.296 (L/480) | 0.578 (58%) | S | L |
| TL Defl inch | 0.349 (L/406) | 6'1 3/4" | 0.592 (L/240) | 0.590 (59%) | D+S | L |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-------------|----------|------------|------|----------|--------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Top | 168 PLF | 0 PLF | 168 PLF | 0 PLF | 0 PLF | C1 |
| | Self Weight | | | | 7 PLF | | | | | |

Notes
 Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



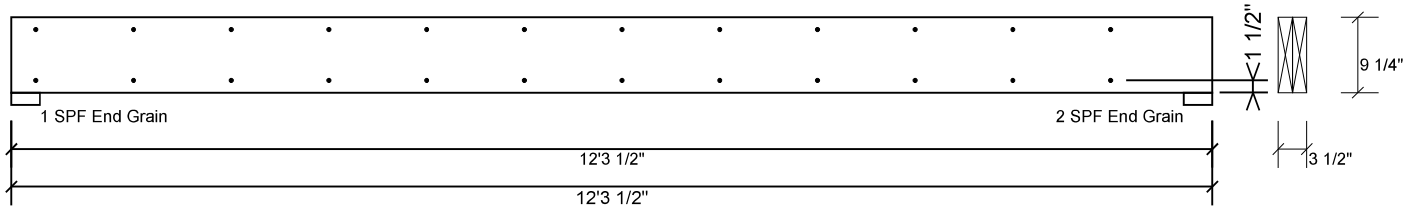


Client: Wellco Contractors
 Project: Plan 7
 Address: 41 Sugarberry Place
 Clayton, NC 27527

Date: 11/11/2022
 Input by: Jonathan Landry
 Job Name: Lot 124 Hidden Lakes
 Project #: J1122-5622

BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| | |
|--------------------------|-----------|
| Capacity | 0.0 % |
| Load | 0.0 PLF |
| Yield Limit per Foot | 163.7 PLF |
| Yield Limit per Fastener | 81.9 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1.00 |

Notes
 Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive chemicals

- Handling & Installation**
- LVL beams must not be cut or drilled
 - Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 - Damaged Beams must not be used
 - Design assumes top edge is laterally restrained
 - Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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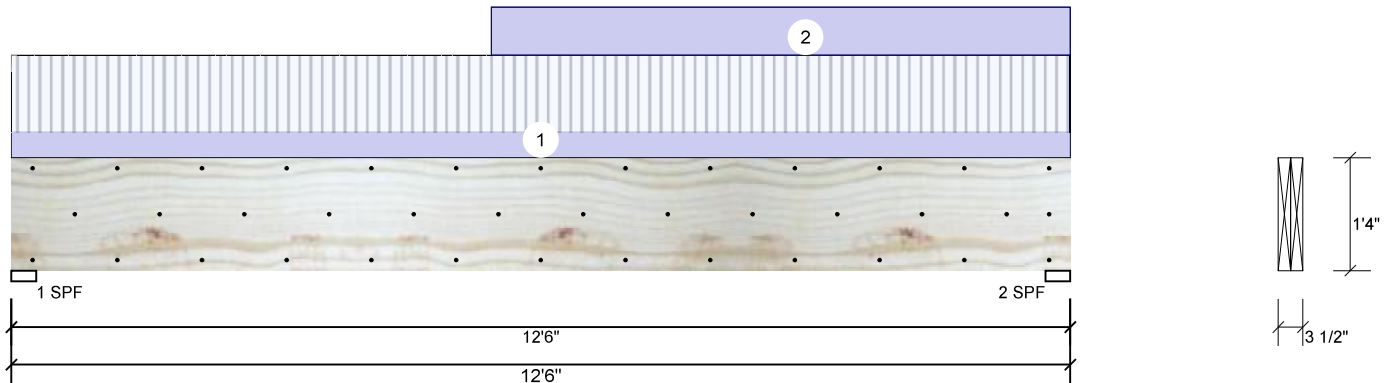


Client: Wellco Contractors
 Project: Plan 7
 Address: 41 Sugarberry Place
 Clayton, NC 27527

Date: 11/11/2022
 Input by: Jonathan Landry
 Job Name: Lot 124 Hidden Lakes
 Project #: J1122-5622

BM2 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 240 |
| Importance: | Normal - II |
| Temperature: | Temp <= 100°F |

| | |
|----------------|--------------|
| Application: | Floor |
| Design Method: | ASD |
| Building Code: | IBC/IRC 2015 |
| Load Sharing: | No |
| Deck: | Not Checked |

Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind | Const |
|-----|-----------|------|------|------|------|-------|
| 1 | Vertical | 1200 | 695 | 0 | 0 | 0 |
| 2 | Vertical | 1200 | 1080 | 0 | 0 | 0 |

Bearings

| Bearing | Length | Dir. | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------|------|--------------|-------|----------|-----------|
| 1 - SPF | 3.500" | Vert | 36% | 695 / 1200 | 1895 | L | D+L |
| 2 - SPF | 3.500" | Vert | 44% | 1080 / 1200 | 2280 | L | D+L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|------------|---------------|-------------|-------|------|
| Moment | 6203 ft-lb | 6'7 9/16" | 34565 ft-lb | 0.179 (18%) | D+L | L |
| Unbraced | 6203 ft-lb | 6'7 9/16" | 10419 ft-lb | 0.595 (60%) | D+L | L |
| Shear | 2007 lb | 10'10 1/2" | 11947 lb | 0.168 (17%) | D+L | L |
| LL Defl inch | 0.045 (L/3184) | 6'3" | 0.302 (L/480) | 0.151 (15%) | L | L |
| TL Defl inch | 0.080 (L/1808) | 6'4 9/16" | 0.603 (L/240) | 0.133 (13%) | D+L | L |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|---------------|-----------------|------------|----------|----------|---------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Far Face | 64 PLF | 192 PLF | 0 PLF | 0 PLF | 0 PLF | F4 |
| 2 | Part. Uniform | 5-8-0 to 12-6-0 | | Top | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall |
| | Self Weight | | | | 12 PLF | | | | | |

Notes
 Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive

Handling & Installation
 1. LVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
 4. Design assumes top edge is laterally restrained
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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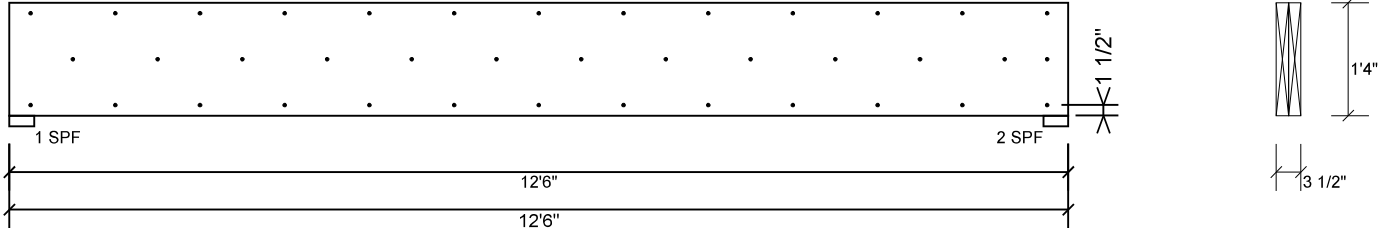


Client: Wellco Contractors
 Project: Plan 7
 Address: 41 Sugarberry Place
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Date: 11/11/2022
 Input by: Jonathan Landry
 Job Name: Lot 124 Hidden Lakes
 Project #: J1122-5622

BM2 Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| | |
|--------------------------|-----------|
| Capacity | 52.1 % |
| Load | 128.0 PLF |
| Yield Limit per Foot | 245.6 PLF |
| Yield Limit per Fastener | 81.9 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | D+L |
| Duration Factor | 1.00 |

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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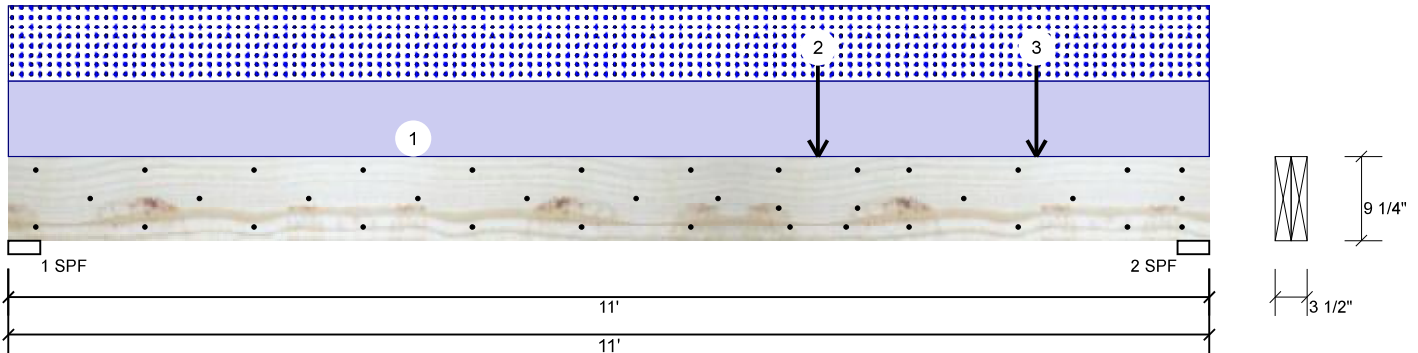


Client: Wellco Contractors
 Project: Plan 7
 Address: 41 Sugarberry Place
 Clayton, NC 27527

Date: 11/11/2022
 Input by: Jonathan Landry
 Job Name: Lot 124 Hidden Lakes
 Project #: J1122-5622

BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 240 |
| Importance: | Normal - II |
| Temperature: | Temp <= 100°F |

| | |
|----------------|--------------|
| Application: | Floor |
| Design Method: | ASD |
| Building Code: | IBC/IRC 2015 |
| Load Sharing: | No |
| Deck: | Not Checked |

Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind | Const |
|-----|-----------|------|------|------|------|-------|
| 1 | Vertical | 0 | 1482 | 1443 | 0 | 0 |
| 2 | Vertical | 0 | 1821 | 1781 | 0 | 0 |

Bearings

| Bearing | Length | Dir. | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------|------|--------------|-------|----------|-----------|
| 1 - SPF | 3.500" | Vert | 56% | 1482 / 1443 | 2925 | L | D+S |
| 2 - SPF | 3.500" | Vert | 69% | 1821 / 1781 | 3602 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|---------------|------------|---------------|--------------|-------|------|
| Moment | 8580 ft-lb | 6'3 13/16" | 14423 ft-lb | 0.595 (59%) | D+S | L |
| Unbraced | 8580 ft-lb | 6'3 13/16" | 8605 ft-lb | 0.997 (100%) | D+S | L |
| Shear | 3467 lb | 9'11 1/4" | 7943 lb | 0.436 (44%) | D+S | L |
| LL Defl inch | 0.198 (L/639) | 5'8 1/16" | 0.264 (L/480) | 0.751 (75%) | S | L |
| TL Defl inch | 0.400 (L/316) | 5'8" | 0.527 (L/240) | 0.760 (76%) | D+S | L |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top must be laterally braced at a maximum of 8'2 13/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-------------|----------|------------|-----------|----------|--------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Far Face | 228 PLF | 0 PLF | 228 PLF | 0 PLF | 0 PLF | A2 |
| 2 | Point | 7-5-0 | | Near Face | 511 lb | 0 lb | 511 lb | 0 lb | 0 lb | M2-GR |
| 3 | Point | 9-5-0 | | Near Face | 205 lb | 0 lb | 205 lb | 0 lb | 0 lb | M2 |
| | Self Weight | | | | 7 PLF | | | | | |

Notes
 Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.
Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation
 1. LVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
 4. Design assumes top edge is laterally restrained
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding
 This design is valid until 11/3/2024

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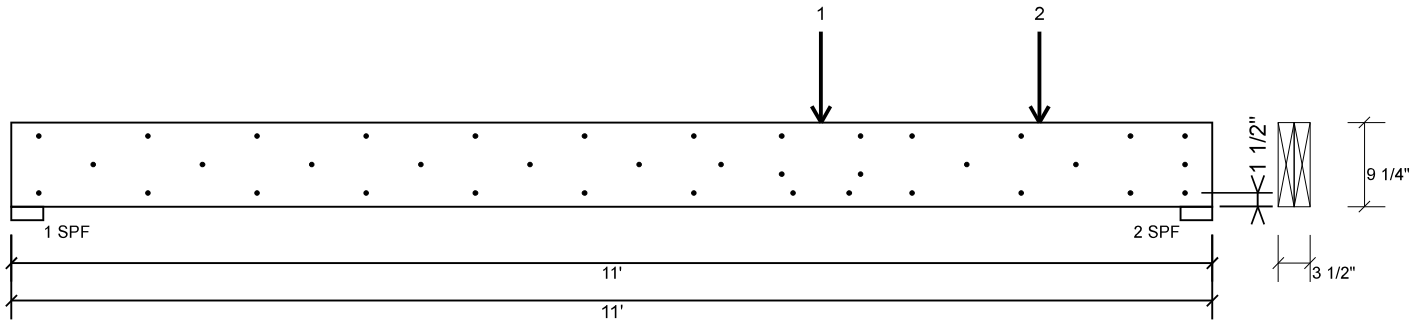


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 Project #: J1122-5622

BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6".

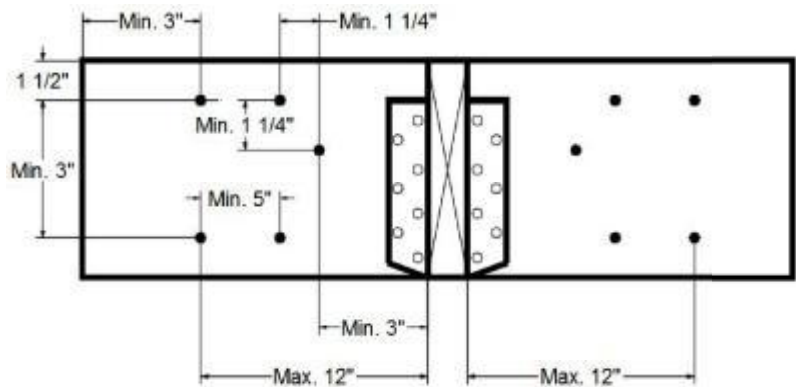
| | |
|--------------------------|-----------|
| Capacity | 80.7 % |
| Load | 228.0 PLF |
| Yield Limit per Foot | 282.4 PLF |
| Yield Limit per Fastener | 94.1 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | D+S |
| Duration Factor | 1.15 |

Concentrated Load

Fasten at concentrated side load at 7-5-0 with a minimum of (6) – 10d Box nails (.128x3") in the pattern shown.

| | |
|--------------------------|-----------|
| Capacity | 90.5 % |
| Load | 511.0lb. |
| Total Yield Limit | 564.8 lb. |
| Cg | 1.0000 |
| Yield Limit per Fastener | 94.1 lb. |
| Yield Mode | IV |
| Load Combination | D+S |
| Duration Factor | 1.15 |

Min/Max fastener distances for Concentrated Side Loads



Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
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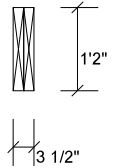
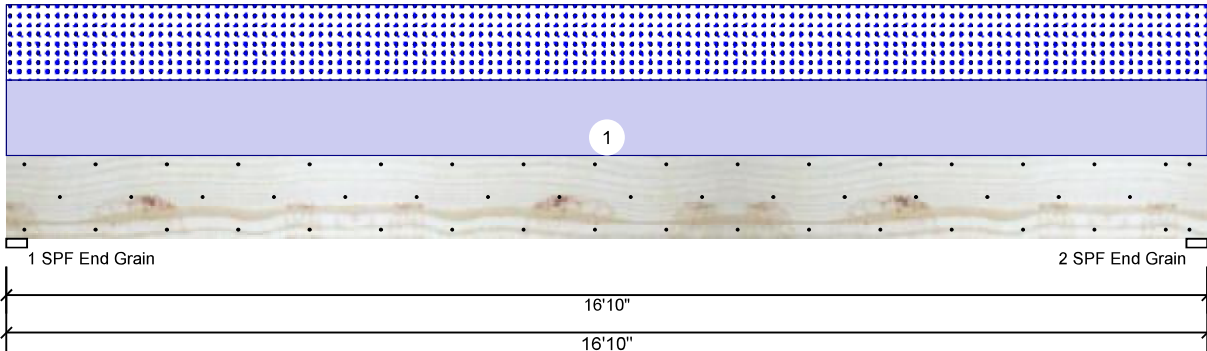


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 Project #: J1122-5622

GDH Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 240 |
| Importance: | Normal - II |
| Temperature: | Temp <= 100°F |

| | |
|----------------|--------------|
| Application: | Floor |
| Design Method: | ASD |
| Building Code: | IBC/IRC 2015 |
| Load Sharing: | No |
| Deck: | Not Checked |

Reactions UNPATTERNED lb (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind | Const |
|-----|-----------|------|------|------|------|-------|
| 1 | Vertical | 0 | 1733 | 1641 | 0 | 0 |
| 2 | Vertical | 0 | 1733 | 1641 | 0 | 0 |

Bearings

| Bearing | Length | Dir. | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|-------------------|--------|------|------|--------------|-------|----------|-----------|
| 1 - SPF End Grain | 3.500" | Vert | 33% | 1733 / 1641 | 3374 | L | D+S |
| 2 - SPF End Grain | 3.500" | Vert | 33% | 1733 / 1641 | 3374 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|---------------|-----------|---------------|--------------|-------|------|
| Moment | 13437 ft-lb | 8'5" | 31049 ft-lb | 0.433 (43%) | D+S | L |
| Unbraced | 13437 ft-lb | 8'5" | 13481 ft-lb | 0.997 (100%) | D+S | L |
| Shear | 2802 lb | 1'5 1/2" | 12021 lb | 0.233 (23%) | D+S | L |
| LL Defl inch | 0.212 (L/925) | 8'5 1/16" | 0.409 (L/480) | 0.519 (52%) | S | L |
| TL Defl inch | 0.437 (L/450) | 8'5 1/16" | 0.819 (L/240) | 0.533 (53%) | D+S | L |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 7'7 3/4" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-------------|----------|------------|------|----------|--------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Top | 195 PLF | 0 PLF | 195 PLF | 0 PLF | 0 PLF | B1GE |
| | Self Weight | | | | 11 PLF | | | | | |

Notes
 Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.
Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation
 1. LVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
 4. Design assumes top edge is laterally restrained
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding
 This design is valid until 11/3/2024

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
 www.metsawood.com/us

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS

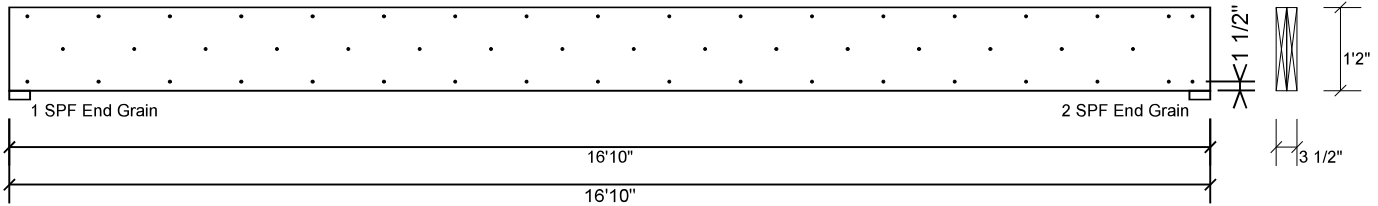


Client: Wellco Contractors
 Project: Plan 7
 Address: 41 Sugarberry Place
 Clayton, NC 27527

Date: 11/11/2022
 Input by: Jonathan Landry
 Job Name: Lot 124 Hidden Lakes
 Project #: J1122-5622

GDH Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| | |
|--------------------------|-----------|
| Capacity | 0.0 % |
| Load | 0.0 PLF |
| Yield Limit per Foot | 245.6 PLF |
| Yield Limit per Fastener | 81.9 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1.00 |

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

Metsä Wood
 301 Merritt 7 Building, 2nd Floor
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 1001 S. Reilly Road, Suite #639
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 USA
 28314
 910-864-TRUS



Reaction Summary of Order



| | | | |
|-----------------|----------------|-----------------|--------------|
| REQ. QUOTE DATE | // | ORDER # | J1122-5622 |
| ORDER DATE | 11/08/22 | QUOTE # | |
| DELIVERY DATE | // | CUSTOMER ACCT # | 0000006558 |
| DATE OF INVOICE | // | CUSTOMER PO # | |
| ORDERED BY | Jason Wellons | INVOICE # | |
| COUNTY | Johnston | TERMS | |
| SUPERINTENDANT | Jason Wellons | SALES REP | Lenny Norris |
| JOBSITE PHONE # | (910) 263-0276 | SALES AREA | David Landry |

| | | |
|---|--|--|
| Wellco Contractors, Inc. PO Box 766 Spring Lake, NC 28390 (910) 436-3131 | JOB NAME: Lot 124 Hidden Lakes MODEL: Floor TAG: Plan 7 | LOT # 124 SUBDIV: Hidden Lakes JOB CATEGORY: B & S - Build and Ship |
| | DELIVERY INSTRUCTIONS: | |
| Wellco Contractors 41 Sugarberry Place Clayton, NC 27527 | SPECIAL INSTRUCTIONS: | |
| PLAN SEAL DATE: N/A | | |

| BUILDING DEPARTMENT | OVERHANG INFO | HEEL HEIGHT | 00-04-05 | REQ. LAYOUTS | REQ. ENGINEERING | QUOTE | JL | DATE |
|---------------------|----------------|-------------|-----------|--------------|------------------|---------|----|----------|
| Floor Order | END CUT RETURN | | | | | LAYOUT | JL | 11/11/22 |
| | PLUMB NO | GABLE STUDS | 16 IN. OC | JOBSITE 1 | JOBSITE 1 | CUTTING | JL | 11/11/22 |

FLOOR TRUSSES

LOADING INFORMATION

| | |
|---------------------|--------------|
| TCLL-TCDL-BCLL-BCDL | STRESS INCR. |
| 40.0,10.0,0.0,5.0 | 1.00 |

FLOOR TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| FLOOR PROFILE | QTY PLY | DEPTH ID | BASE SPAN | O/A SPAN | END TYPE | | INT BEARING | | REACTIONS |
|---------------|---------|----------|-----------|----------|----------|-------|-------------|----------|-----------|
| | | | | | LEFT | RIGHT | SIZE | LOCATION | |

| | | | | | | | | | | | | | |
|--|---|--------------|----------|----------|--|--|--|--|-----------------------|------------------------|------------------------|------------------------|------------------------|
| | 1 | 01-04-00 ET1 | 16-06-04 | 16-06-04 | | | | | Joint 16 18.8 lbs. | Joint 17 124.6 lbs. | Joint 18 151.5 lbs. | Joint 19 145.4 lbs. | Joint 20 147.0 lbs. |
|--|---|--------------|----------|----------|--|--|--|--|-----------------------|------------------------|------------------------|------------------------|------------------------|

| | | | | | | | | | | | | | |
|--|---|--------------|----------|----------|--|--|--|--|---------------------|-----------------------|-----------------------|----------------------|--|
| | 1 | 01-04-00 ET2 | 03-04-00 | 03-04-00 | | | | | Joint 5 3.5 lbs. | Joint 6 117.1 lbs. | Joint 7 161.7 lbs. | Joint 8 50.6 lbs. | |
|--|---|--------------|----------|----------|--|--|--|--|---------------------|-----------------------|-----------------------|----------------------|--|

| | | | | | | | | | | | | | |
|--|---|--------------|----------|----------|--|--|--|--|-----------------------|------------------------|------------------------|------------------------|------------------------|
| | 1 | 01-04-00 ET3 | 10-06-12 | 10-06-12 | | | | | Joint 10 42.8 lbs. | Joint 11 144.9 lbs. | Joint 12 147.6 lbs. | Joint 13 146.7 lbs. | Joint 14 146.4 lbs. |
|--|---|--------------|----------|----------|--|--|--|--|-----------------------|------------------------|------------------------|------------------------|------------------------|

| | | | | | | | | | | | | | |
|--|---|-------------|----------|----------|--|--|--|--|---------------------------------------|---------------------------------------|--|--|--|
| | 6 | 01-04-00 F1 | 16-06-04 | 16-06-04 | | | | | Joint 12 1119.9 lbs. 706.8 lbs. | Joint 20 1119.9 lbs. 644.9 lbs. | | | |
|--|---|-------------|----------|----------|--|--|--|--|---------------------------------------|---------------------------------------|--|--|--|

| | | | | | | | | | | | | | |
|--|---|-------------|----------|----------|--|--|--|--|---------------------------------------|---------------------------------------|--|--|--|
| | 2 | 01-04-00 F2 | 16-02-12 | 16-02-12 | | | | | Joint 12 1103.9 lbs. 692.6 lbs. | Joint 20 1103.9 lbs. 631.6 lbs. | | | |
|--|---|-------------|----------|----------|--|--|--|--|---------------------------------------|---------------------------------------|--|--|--|

| | | | | | | | | | | | | | |
|--|---|-------------|----------|----------|--|--|--|--|------------------------------------|-------------------------------------|--|--|--|
| | 3 | 01-04-00 F3 | 03-04-00 | 03-04-00 | | | | | Joint 5 163.4 lbs. 91.6 lbs. | Joint 8 394.5 lbs. 317.8 lbs. | | | |
|--|---|-------------|----------|----------|--|--|--|--|------------------------------------|-------------------------------------|--|--|--|

| | | | | | | | | | | | | | |
|--|---|-------------|----------|----------|--|--|--|--|-------------------------------------|--------------------------------------|-------------------------------------|--|--|
| | 1 | 01-04-00 F4 | 09-00-04 | 09-00-04 | | | | | Joint 8 510.6 lbs. 302.3 lbs. | Joint 11 511.7 lbs. 276.1 lbs. | Joint 14 207.2 lbs. 47.6 lbs. | | |
|--|---|-------------|----------|----------|--|--|--|--|-------------------------------------|--------------------------------------|-------------------------------------|--|--|

| | | | | | | | | | | | | | |
|--|---|-------------|----------|----------|--|--|--|--|-------------------------------------|-------------------------------------|--|--|--|
| | 3 | 01-04-00 F5 | 05-05-12 | 05-05-12 | | | | | Joint 5 287.6 lbs. 188.4 lbs. | Joint 8 281.4 lbs. 187.2 lbs. | | | |
|--|---|-------------|----------|----------|--|--|--|--|-------------------------------------|-------------------------------------|--|--|--|

ITEMS

| QTY | ITEM TYPE | SIZE | LENGTH FT-IN-16 | PART NUMBER | NOTES |
|-----|-----------|------|-----------------|-------------|-------|
|-----|-----------|------|-----------------|-------------|-------|

Reaction Summary of Order



| | | | |
|-----------------|----------------|-----------------|--------------|
| REQ. QUOTE DATE | // | ORDER # | J1122-5622 |
| ORDER DATE | 11/08/22 | QUOTE # | |
| DELIVERY DATE | // | CUSTOMER ACCT # | 0000006558 |
| DATE OF INVOICE | // | CUSTOMER PO # | |
| ORDERED BY | Jason Wellons | INVOICE # | |
| COUNTY | Johnston | TERMS | |
| SUPERINTENDANT | Jason Wellons | SALES REP | Lenny Norris |
| JOBSITE PHONE # | (910) 263-0276 | SALES AREA | David Landry |

| | | | |
|-------------|--|--|---|
| WOODS HO | Wellco Contractors, Inc. PO Box 766 Spring Lake, NC 28390 (910) 436-3131 | JOB NAME: Lot 124 Hidden Lakes MODEL: Floor TAG: Plan 7 DELIVERY INSTRUCTIONS: | LOT # 124 SUBDIV: Hidden Lakes JOB CATEGORY: B & S - Build and Ship |
| | WOODS HO | Wellco Contractors 41 Sugarberry Place Clayton, NC 27527 | SPECIAL INSTRUCTIONS: PLAN SEAL DATE: N/A |

| BUILDING DEPARTMENT | OVERHANG INFO | HEEL HEIGHT | 00-04-05 | REQ. LAYOUTS | REQ. ENGINEERING | QUOTE | BY | DATE |
|---------------------|-------------------|-------------|-----------|--------------|------------------|-------|----|----------|
| Floor Order | END CUT RETURN | | | | | JL | | 11/11/22 |
| | PLUMB NO | GABLE STUDS | 16 IN. OC | JOBSITE | 1 | JL | | 11/11/22 |

ITEMS

| QTY | ITEM TYPE | SIZE | LENGTH FT-IN-16 | PART NUMBER | NOTES |
|-----|-------------------|--------------------------|--------------------|-------------|------------------|
| 17 | Hangers, USP | HUS 410 | | | SIMPSON (HUS410) |
| 4 | LVL Beams (Sized) | LVL, 1-3/4" x 9-1/4" (S) | 13-00-00 | | BM1 |
| 2 | LVL Beams (Sized) | LVL, 1-3/4" x 14" (S) | 22-00-00 | | GDH |
| 2 | LVL Beams (Sized) | LVL, 1-3/4" x 16" (S) | 13-00-00 | | BM2 |