



ROOF & FLOOR TRUSSES & BEAMS

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

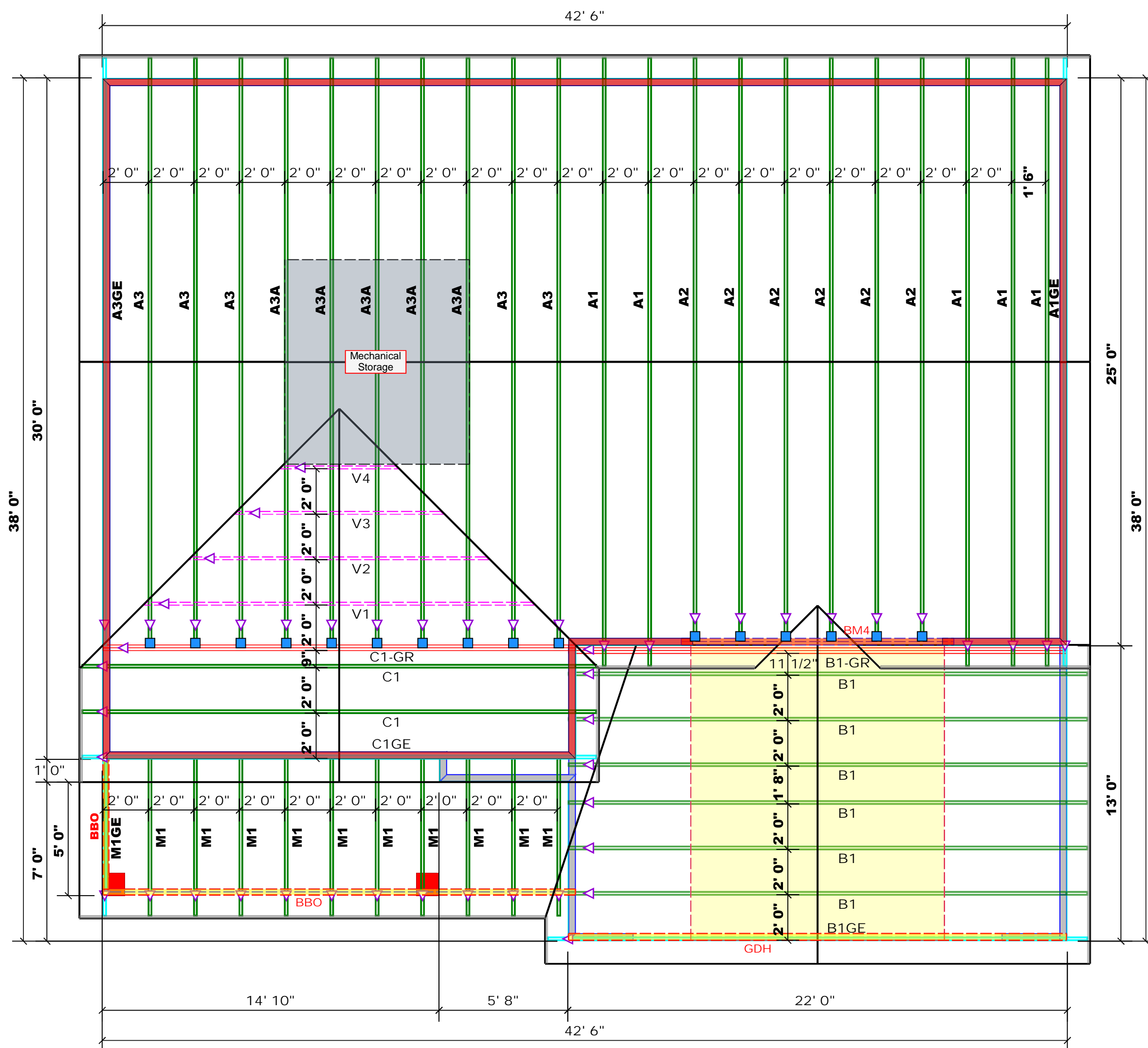
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions 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

LOAD CHART FOR JACK STUDS

(BASED ON TABLES MODEL: 5/03)

| EUB REACTION (LBS) | REQ'D STUDS PER JOIST SPACE | NUMBER OF JACK STUDS REQUIRED @ EACH END OF HEADPOST/BEAM | |
|--------------------|-----------------------------|---|-----------------------------|
| | | REQ'D STUDS PER JOIST SPACE | REQ'D STUDS PER JOIST SPACE |
| 1700 | 1 | 2550 | 1 |
| 3400 | 2 | 5100 | 2 |
| 5100 | 3 | 7650 | 3 |
| 6800 | 4 | 10200 | 4 |
| 8500 | 5 | 12750 | 5 |
| 10200 | 6 | 15300 | 6 |
| 11900 | 7 | | |
| 13600 | 8 | | |
| 15300 | 9 | | |



| Products | | | | | |
|----------|--------|----------------------------|-------|---------|----------|
| PlotID | Length | Product | Plies | Net Qty | Fab Type |
| BM4 | 12' 0" | 1-3/4"x 9-1/4" LVL Kerto-S | 2 | 2 | FF |

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

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

Roof Area = 2671.45 sq.ft.
Ridge Line = 69.75 ft.
Hip Line = 0 ft.
Horiz. OH = 134.25 ft.
Raked OH = 180.47 ft.
Decking = 92 sheets

Dimension Notes

- All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
- All interior wall dimensions are to face of frame wall unless noted otherwise
- All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

| Hatch Legend | |
|--|--------------------|
| | Drop Beam |
| | Second Floor Walls |
| | Padded HVAC |

| | |
|-----------|-----------------------|
| COUNTY | Linden / Harnett |
| ADDRESS | 708 Walker Road |
| MODEL | Roof |
| DATE REV. | 03/18/22 |
| DRAWN BY | David Landry |
| SALESMAN | Marshall Naylor |
| BUILDER | Ben Stout Real Estate |
| JOB NAME | Lot 4 Walker Rd. |
| PLAN | The Fawbrook |
| SEAL DATE | N/A |
| QUOTE # | |
| JOB # | J0122-0300 |

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 BCS-81 and BCS-83 provided with the truss delivery package or online @ sbcindustry.com



RE: J0122-0300
Lot 4 Walker Rd.

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Benjamin Stout Real Estate Project Name: J0122-0300
Lot/Block: 4 Model: Fawnbrook
Address: 708 Walker Road Subdivision: Walker Rd.
City: Linden 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: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 20 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|------------|
| 1 | E16495456 | A1 | 12/22/2021 |
| 2 | E16495457 | A1GE | 12/22/2021 |
| 3 | E16495458 | A2 | 12/22/2021 |
| 4 | E16495459 | A3 | 12/22/2021 |
| 5 | E16495460 | A3A | 12/22/2021 |
| 6 | E16495461 | A3GE | 12/22/2021 |
| 7 | E16495462 | B1 | 12/22/2021 |
| 8 | E16495463 | B1-GR | 12/22/2021 |
| 9 | E16495464 | B1GE | 12/22/2021 |
| 10 | E16495465 | C1 | 12/22/2021 |
| 11 | E16495466 | C1-GR | 12/22/2021 |
| 12 | E16495467 | C1GE | 12/22/2021 |
| 13 | E16495468 | D1 | 12/22/2021 |
| 14 | E16495469 | D1GE | 12/22/2021 |
| 15 | E16495470 | M1 | 12/22/2021 |
| 16 | E16495471 | M1GE | 12/22/2021 |
| 17 | E16495472 | V1 | 12/22/2021 |
| 18 | E16495473 | V2 | 12/22/2021 |
| 19 | E16495474 | V3 | 12/22/2021 |
| 20 | E16495475 | V4 | 12/22/2021 |

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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

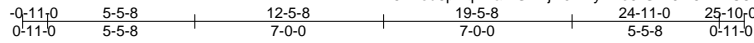


December 22, 2021

| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss A1 | Truss Type COMMON | Qty 5 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495456 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

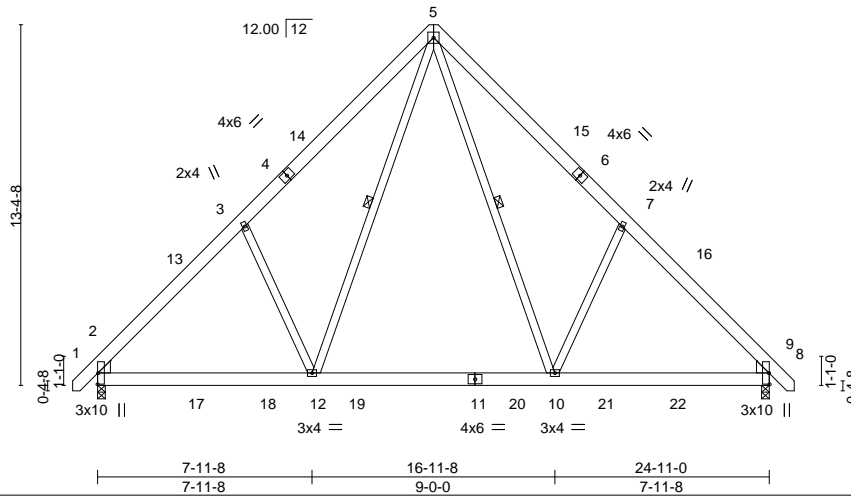
Comtech, Inc, Fayetteville, NC - 28314,

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5x5 =

Scale = 1:80.4



| | | | | | | | | |
|----------------------|----------------------|-------------|--------------|-------------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.23 | Vert(LL) | -0.09 10-12 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.34 | Vert(CT) | -0.13 10-12 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.30 | Horz(CT) | 0.02 8 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) | 0.02 12 | >999 | 240 | | |
| | Code IRC2015/TP12014 | | | | | | Weight: 207 lb | FT = 20% |

LUMBER-

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

Left: 2x6 SP No.1 , Right: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-10, 5-12

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
 Max Horz 2=317(LC 10)
 Max Uplift 2=41(LC 12), 8=41(LC 13)
 Max Grav 2=1185(LC 19), 8=1185(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1356/272, 3-5=-1240/456, 5-7=-1240/456, 7-8=-1356/272
 BOT CHORD 2-12=-123/1040, 10-12=-10/672, 8-10=-51/884
 WEBS 5-10=-217/739, 7-10=-443/340, 5-12=-217/738, 3-12=-443/340

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 12-5-8, Exterior(2) 12-5-8 to 16-10-5, Interior(1) 16-10-5 to 25-8-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



December 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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/TP11 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 J0122-0300 | Truss A1GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495457 |
|-------------------|---------------|------------------------------------|----------|----------|--|-----------|

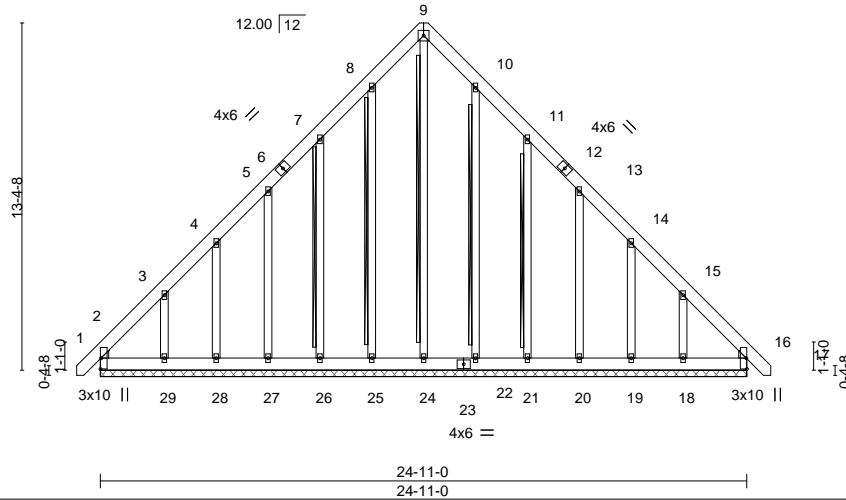
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:52:48 2021 Page 1
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-0-11-0 12-5-8 24-11-0 25-10-0
0-11-0 12-5-8 12-5-8 0-11-0

5x5 =

Scale = 1:83.6



| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.06 | Vert(LL) | 0.00 | 16 | n/r | 120 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.05 | Vert(CT) | 0.00 | 16 | n/r | 120 | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.24 | Horz(CT) | 0.01 | 16 | n/a | n/a | |
| BCDL 10.0 | Code IRC2015/TP12014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 264 lb | FT = 20% |

LUMBER-

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

Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-

TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
T-Brace: 2x4 SPF No.2 - 9-24, 8-25, 7-26, 10-22, 11-21
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS.

All bearings 24-11-0.
(lb) - Max Horz 2=397(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 25, 22, 16 except 2=161(LC 10), 26=-156(LC 12), 27=-140(LC 12), 28=-128(LC 12), 29=-262(LC 12), 21=-160(LC 13), 20=-141(LC 13), 19=-128(LC 13), 18=-255(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 25, 26, 27, 28, 22, 21, 20, 19 except 2=386(LC 12), 24=272(LC 13), 29=265(LC 19), 18=257(LC 20), 16=340(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-557/332, 3-4=-335/236, 8-9=-249/270, 9-10=-249/270, 14-15=-281/161, 15-16=-497/335
BOT CHORD 2-29=-258/391, 28-29=-259/392, 27-28=-260/392, 26-27=-260/392, 25-26=-261/392, 24-25=-261/392, 22-24=-261/392, 21-22=-261/392, 20-21=-260/392, 19-20=-260/392, 18-19=-259/391, 16-18=-258/390
WEBS 9-24=-261/185, 3-29=-273/269, 15-18=-273/262

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TP1.
- 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) 25, 22, 16 except (jt=lb) 2=161, 26=156, 27=140, 28=128, 29=262, 21=160, 20=141, 19=128, 18=255.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 22, 2021

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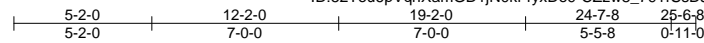


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| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss A2 | Truss Type COMMON | Qty 6 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495458 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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5x5 =

Scale = 1:81.3

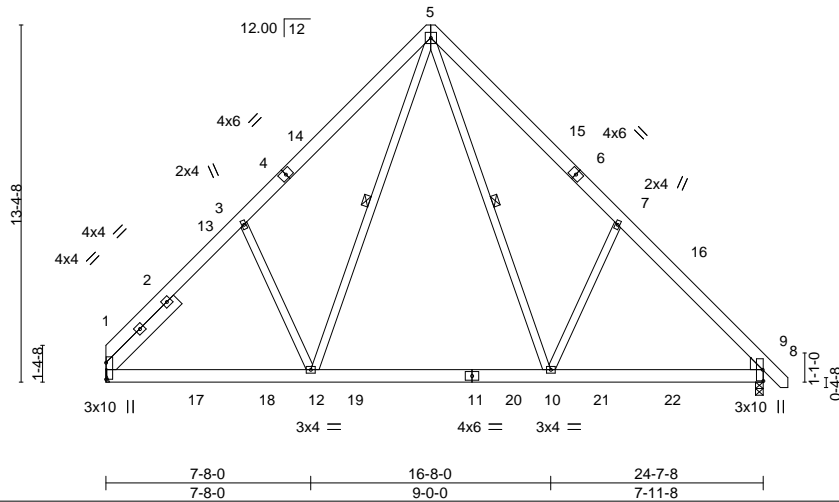


Plate Offsets (X,Y)-- [1:Edge,0-0-0]

| | | | | | |
|----------------------|----------------------|-------------|-------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.23 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.34 | Vert(LL) -0.09 10-12 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.30 | Vert(CT) -0.13 10-12 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.02 8 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.02 12 >999 240 | Weight: 210 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Right: 2x6 SP No.1
SLIDER Left 2x6 SP No.1 3-9-3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-12, 5-10

REACTIONS. (size) 1=Mechanical, 8=0-3-8
Max Horz 1=315(LC 8)
Max Uplift 1=37(LC 13), 8=41(LC 13)
Max Grav 1=1142(LC 20), 8=1179(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1344/282, 3-5=-1201/459, 5-7=-1232/455, 7-8=-1349/272
BOT CHORD 1-12=-128/1008, 10-12=-11/667, 8-10=-53/879
WEBS 3-12=-417/335, 5-12=-210/692, 5-10=-217/741, 7-10=-441/339

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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 12-2-0, Exterior(2) 12-2-0 to 16-6-13, Interior(1) 16-6-13 to 25-4-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 1, 8.



December 22, 2021

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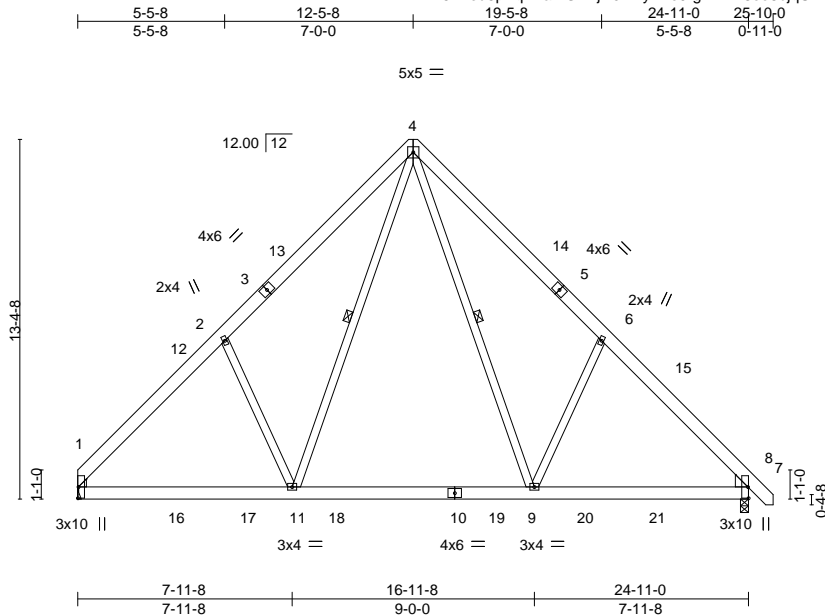


818 Soundside Road
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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss A3 | Truss Type COMMON | Qty 5 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495459 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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Scale = 1:80.6

| | | | | | |
|----------------------|----------------------|-------------|------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.24 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.34 | Vert(LL) -0.09 9-11 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.31 | Vert(CT) -0.12 9-11 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.02 7 n/a n/a | | |
| | Code IRC2015/TP12014 | | Wind(LL) 0.02 11 >999 240 | Weight: 203 lb | FT = 20% |

LUMBER-

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

Left: 2x4 SP No.2, Right: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-9, 4-11

REACTIONS.

(size) 1=Mechanical, 7=0-3-8
 Max Horz 1=315(LC 8)
 Max Uplift 1=35(LC 13), 7=41(LC 13)
 Max Grav 1=1146(LC 20), 7=1190(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1367/280, 2-4=-1255/470, 4-6=-1246/458, 6-7=-1362/274
 BOT CHORD 1-11=-122/1056, 9-11=-9/677, 7-9=-55/888
 WEBS 4-9=-217/737, 6-9=-443/340, 4-11=-223/756, 2-11=-454/346

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 12-5-8, Exterior(2) 12-5-8 to 16-10-5, Interior(1) 16-10-5 to 25-8-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 1, 7.



December 22, 2021

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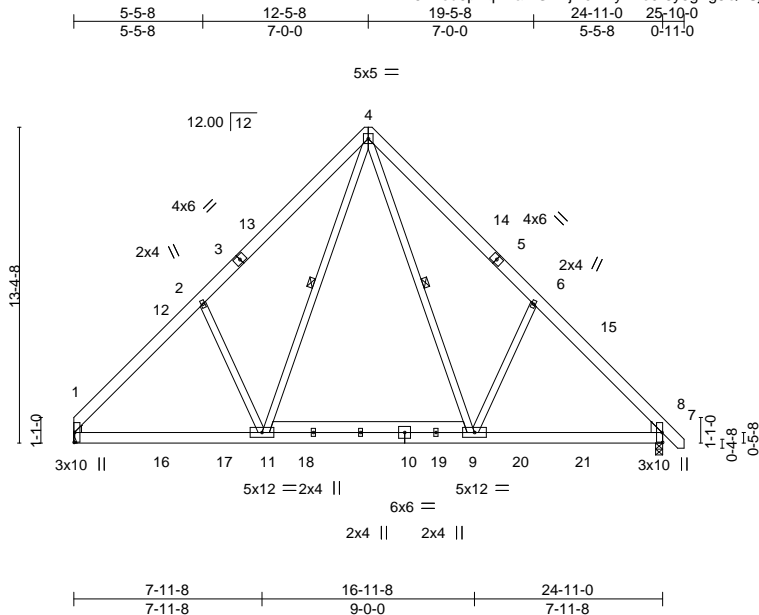


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|--------------|----------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss A3A | Truss Type COMMON | Qty 5 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495460 |
|-------------------|--------------|----------------------|----------|----------|--|-----------|

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:52:51 2021 Page 1
ID:52Teu6pVqhXamGD1jN0kr4yxDe9-8y5gZg8QZSjaScEitcNJ4a9Fpyh75NYs4lflSny6RCQ



Scale = 1:91.8

| | | | | | |
|----------------------|----------------------|-------------|------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.24 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.34 | Vert(LL) -0.09 9-11 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.31 | Vert(CT) -0.12 9-11 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.02 7 n/a n/a | | |
| | Code IRC2015/TP12014 | | Wind(LL) 0.02 11 >999 240 | Weight: 223 lb | FT = 20% |

LUMBER-

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

Left: 2x4 SP No.2, Right: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-9, 4-11

REACTIONS.

(size) 1=Mechanical, 7=0-3-8
Max Horz 1=315(LC 8)
Max Uplift 1=35(LC 13), 7=41(LC 13)
Max Grav 1=1139(LC 20), 7=1183(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1357/280, 2-4=-1245/470, 4-6=-1236/458, 6-7=-1352/274
BOT CHORD 1-11=-122/1049, 9-11=-9/672, 7-9=-55/881
WEBS 4-9=-217/730, 6-9=-443/340, 4-11=-223/748, 2-11=-454/346

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 12-5-8, Exterior(2) 12-5-8 to 16-10-5, Interior(1) 16-10-5 to 25-8-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 1, 7.



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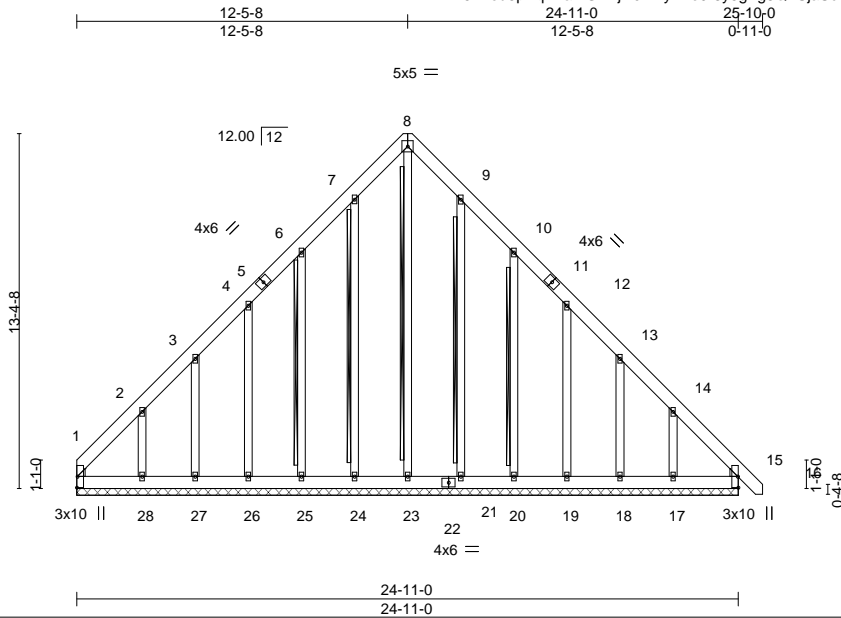


818 Soundside Road
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|-------------------|---------------|------------------------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss A3GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495461 |
|-------------------|---------------|------------------------------------|----------|----------|--|-----------|

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Scale = 1:81.7

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.06 | Vert(LL) | 0.00 | 15 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.05 | Vert(CT) | 0.00 | 15 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.24 | Horz(CT) | 0.01 | 15 | n/a | | |
| BCDL 10.0 | Code IRC2015/TP12014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 262 lb | FT = 20% |

LUMBER-

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

Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 8-23, 7-24, 6-25, 9-21, 10-20

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS.

All bearings 24-11-0.
(lb) - Max Horz 1=394(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 24, 21, 15 except 1=190(LC 10), 25=-157(LC 12), 26=-140(LC 12), 27=-127(LC 12), 28=-268(LC 12), 20=-160(LC 13), 19=-141(LC 13), 18=-128(LC 13), 17=-255(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 24, 25, 26, 27, 21, 20, 19, 18 except 1=412(LC 12), 23=272(LC 13), 28=277(LC 19), 17=257(LC 20), 15=340(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-563/338, 2-3=-333/235, 7-8=-249/270, 8-9=-249/270, 13-14=-280/161, 14-15=-497/335
BOT CHORD 1-28=-258/391, 27-28=-259/392, 26-27=-260/392, 25-26=-260/392, 24-25=-261/392, 23-24=-261/392, 21-23=-261/392, 20-21=-261/392, 19-20=-260/392, 18-19=-260/391, 17-18=-259/391, 15-17=-258/389
WEBS 8-23=-262/185, 2-28=-278/280, 14-17=-273/262

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TP1.
- 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) 24, 21, 15 except (jt=lb) 1=190, 25=157, 26=140, 27=127, 28=268, 20=160, 19=141, 18=128, 17=255.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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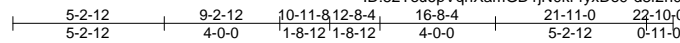


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|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss B1 | Truss Type ATTIC | Qty 6 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495462 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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6x8 =

Scale = 1:75.0

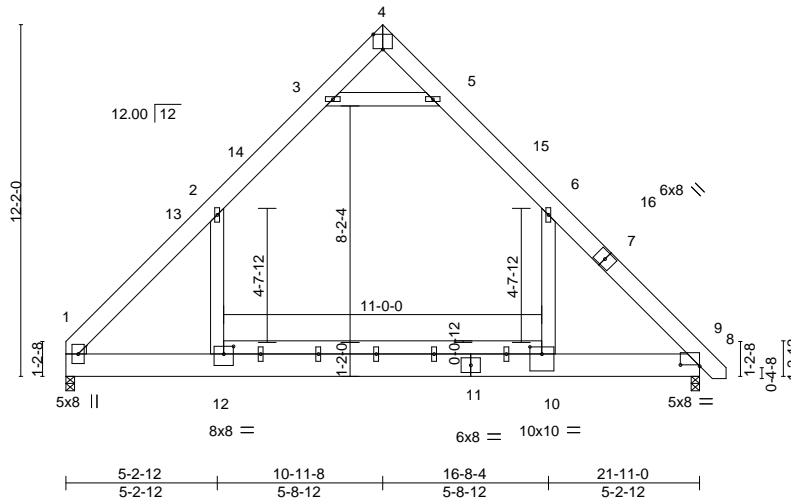


Plate Offsets (X,Y)-- [4:0-4-0,Edge], [8:0-8-0,0-0-8], [10:0-5-0,0-3-0], [12:0-4-0,0-3-4]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.75 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.70 | Vert(LL) -0.21 10-12 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.13 | Vert(CT) -0.37 10-12 >702 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 8 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.08 10-12 >999 240 | Weight: 246 lb | FT = 20% |

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x10 SP No.1 *Except*
 10-12: 2x6 SP No.1
 WEBS 2x6 SP No.1
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 8=0-3-8
 Max Horz 1=277(LC 8)
 Max Grav 1=1411(LC 21), 8=1457(LC 21)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1864/0, 2-3=-1036/152, 3-4=-22/535, 4-5=-27/546, 5-6=-1026/148, 6-8=-1920/0
 BOT CHORD 1-12=0/1084, 10-12=0/1084, 8-10=0/1084
 WEBS 6-10=0/966, 2-12=0/888, 3-5=-1711/237

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-6 to 4-5-3, Interior(1) 4-5-3 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 2x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s). 6-10, 2-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- Attic room checked for L/360 deflection.



December 22, 2021

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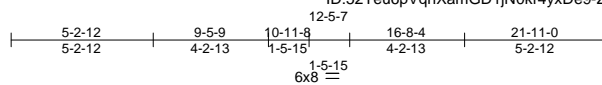


818 Soundside Road
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|-------------------|----------------|---------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss B1-GR | Truss Type ATTIC | Qty 1 | Ply 3 | Lot 4 Walker Rd. Job Reference (optional) | E16495463 |
|-------------------|----------------|---------------------|----------|----------|--|-----------|

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Scale = 1:79.8

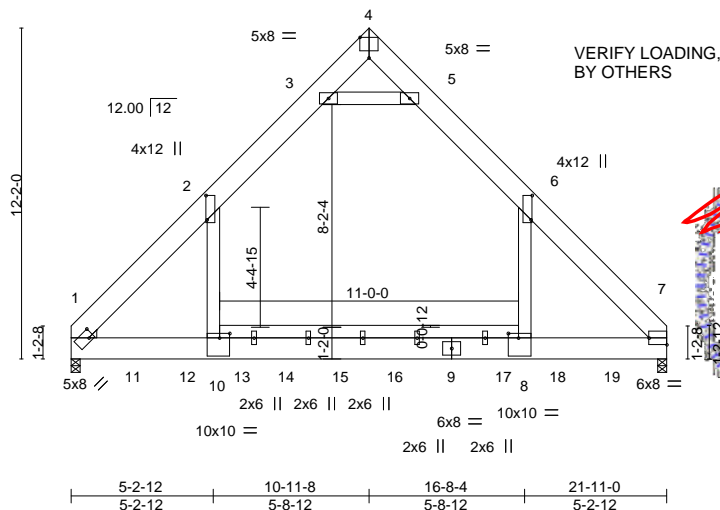


Plate Offsets (X,Y)-- [1:0-2-3,0-3-8], [2:0-10-12,0-0-8], [4:0-4-0,Edge], [6:0-10-12,0-0-8], [7:Edge,0-3-0], [8:0-4-8,0-2-0], [10:0-4-8,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|------------------------------|----------|---|----------------|----------|
| TCLL 20.0 | 2-0-0 Plate Grip DOL 1.15 | TC 0.78 | in (loc) l/defl L/d Vert(LL) -0.31 8-10 >835 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.79 | Vert(CT) -0.42 8-10 >614 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.40 | Horz(CT) 0.02 7 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TP12014 | Matrix-S | Wind(LL) 0.01 8-10 >999 240 | Weight: 801 lb | FT = 20% |

LUMBER-

TOP CHORD 2x10 SP 2400F 2.0E
 BOT CHORD 2x10 SP No.1 *Except*
 8-10: 2x6 SP No.1
 WEBS 2x6 SP No.1
 WEDGE
 Left: 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=0-4-0, 7=0-4-0
 Max Horz 1=269(LC 4)
 Max Grav 1=10108(LC 14), 7=10091(LC 14)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-10697/0, 2-3=-4448/35, 3-4=0/4719, 4-5=0/4712, 5-6=-4456/35, 6-7=-10688/0
 BOT CHORD 1-10=0/5996, 8-10=0/6065, 7-8=0/5996
 WEBS 6-8=0/8663, 2-10=0/8686, 3-5=-12734/0

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 5 rows staggered at 0-4-0 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.
- Unbalanced roof live loads have been provided for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDD=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #21 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #22 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #23 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg.

December 22,2021

Continued on page 2

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|------------|-------|------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 4 Walker Rd. | E16495463 |
| J0122-0300 | B1-GR | ATTIC | 1 | 3 | Job Reference (optional) | |

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NOTES-

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).6-8, 2-10
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 8-10
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1870 lb down at 2-1-12, 1870 lb down at 4-1-12, 4072 lb down at 5-3-12, 371 lb down and 36 lb up at 6-1-12, 371 lb down and 36 lb up at 7-9-4, 371 lb down and 36 lb up at 9-9-4, 371 lb down and 36 lb up at 11-9-4, 371 lb down and 36 lb up at 13-9-4, 371 lb down and 36 lb up at 15-9-4, 4072 lb down at 16-7-4, and 1870 lb down at 17-9-4, and 1870 lb down at 19-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) 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=-80, 3-4=-60, 4-5=-60, 5-6=-80, 6-7=-60, 1-10=-20, 8-10=-40, 7-8=-20, 3-5=-20

Drag: 6-8=-10, 2-10=-10

Concentrated Loads (lb)

Vert: 9=-60(B) 8=-1096(B) 10=-1096(B) 11=-469(B) 12=-469(B) 13=-60(B) 14=-60(B) 15=-60(B) 16=-60(B) 17=-60(B) 18=-469(B) 19=-469(B)

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Edenton, NC 27932

| | | | | | | |
|-------------------|---------------|---------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss B1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495464 |
|-------------------|---------------|---------------------|----------|----------|--|-----------|

Comtech, Inc. Fayetteville, NC - 28314.

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0-11-0 10-1-12 11-10-8 13-7-4 22-10-0 23-9-0
 0-11-0 9-2-12 1-8-12 1-8-12 9-2-12 0-11-0

6x8 =

Scale = 1:75.4

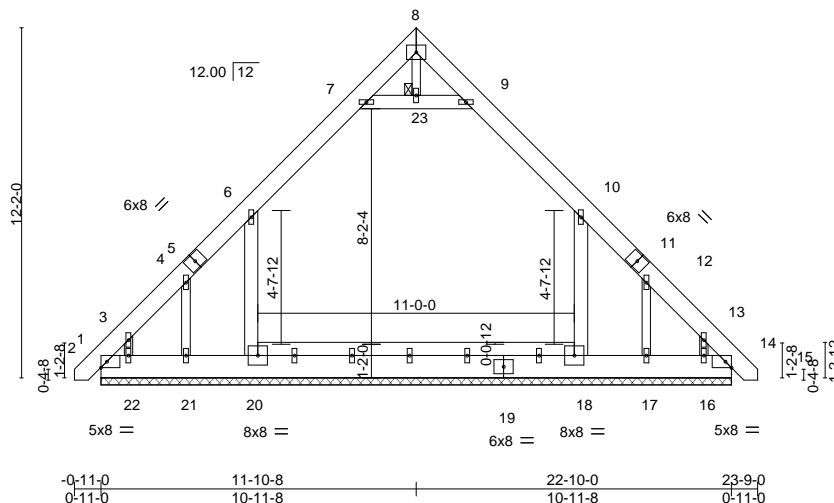


Plate Offsets (X,Y)-- [14:0-2-8,Edge]

| | | | | | |
|----------------------|----------------------|-------------|---------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.06 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.25 | Vert(LL) -0.00 14 n/r 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.11 | Vert(CT) 0.00 14 n/r 120 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 14 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 262 lb | FT = 20% |

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x10 SP No.1 *Except*
 18-20: 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 8-23: 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 23

REACTIONS.

All bearings 21-11-0.
 (lb) - Max Horz 2=-349(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 20, 14 except 21=-529(LC 18),
 22=-189(LC 12), 17=-529(LC 18), 16=-186(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=509(LC 21), 18=1177(LC 21), 20=1187(LC 20), 14=502(LC 20), 22=284(LC 20), 16=282(LC 21)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-635/67, 3-4=-557/57, 4-6=-520/85, 6-7=-534/151, 9-10=-534/151, 10-12=-510/71,
 12-13=-550/48, 13-14=-630/58
 BOT CHORD 2-22=-43/411, 21-22=-36/411, 20-21=-35/411, 18-20=-35/411, 17-18=-35/411,
 16-17=-35/410, 14-16=-33/406
 WEBS 10-18=-424/210, 6-20=-433/218, 7-23=-350/228, 9-23=-350/228

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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.
- All plates are 2x6 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 6-7, 9-10, 7-23, 9-23; Wall dead load (5.0psf) on member(s). 10-18, 6-20
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 20, 14 except (jt=lb) 21=529, 22=189, 17=529, 16=186.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Attic room checked for L/360 deflection.



December 22, 2021

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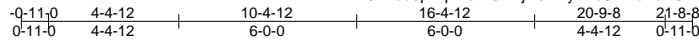


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss C1 | Truss Type COMMON | Qty 2 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495465 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

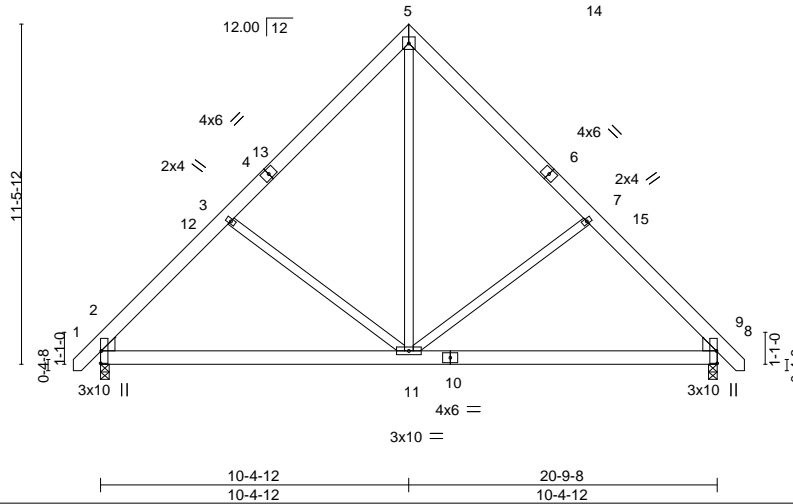
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:52:56 2021 Page 1
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5x5 =

Scale = 1:73.1



| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.15 | Vert(LL) | -0.05 | 2-11 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.33 | Vert(CT) | -0.11 | 2-11 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.36 | Horz(CT) | 0.01 | 8 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.01 | 11 | >999 | | |
| | | | | | | | | Weight: 164 lb | FT = 20% |

LUMBER-

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

Left: 2x6 SP No.1 , Right: 2x6 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) 8=0-3-8, 2=0-3-8
Max Horz 2=268(LC 10)
Max Uplift 8=36(LC 13), 2=36(LC 12)
Max Grav 8=876(LC 1), 2=876(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=908/254, 3-5=752/282, 5-7=752/282, 7-8=908/254
BOT CHORD 2-11=122/675, 8-11=60/568
WEBS 5-11=179/668, 7-11=354/267, 3-11=354/267

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 10-4-12, Exterior(2) 10-4-12 to 14-9-9, Interior(1) 14-9-9 to 21-6-14 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) 8, 2.



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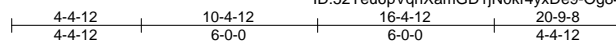


818 Soundside Road
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| | | | | | | |
|-------------------|----------------|-----------------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss C1-GR | Truss Type Common Girder | Qty 1 | Ply 2 | Lot 4 Walker Rd. Job Reference (optional) | E16495466 |
|-------------------|----------------|-----------------------------|----------|----------|--|-----------|

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5x8 ||

Scale = 1:73.7

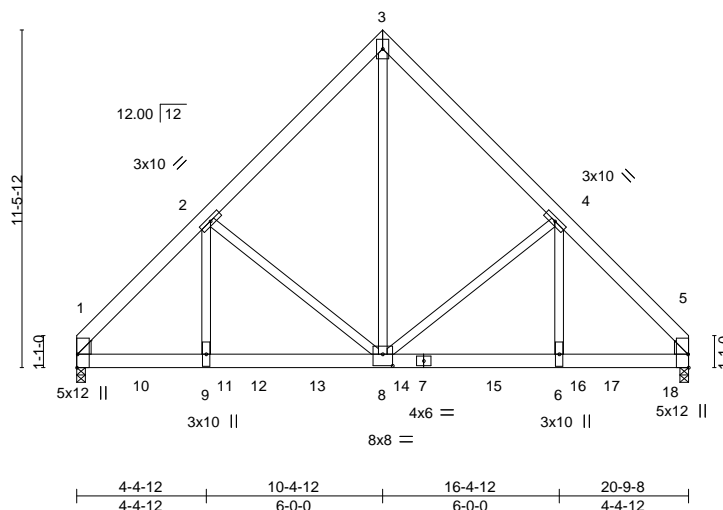


Plate Offsets (X,Y)-- [1:Edge,0-0-4], [5:Edge,0-0-4], [8:0-4-0,0-4-12]

| 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 0.72 | Vert(LL) | -0.09 | 8-9 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.57 | Vert(CT) | -0.16 | 8-9 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.73 | Horz(CT) | 0.03 | 5 | n/a | | n/a |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.05 | 8-9 | >999 | | 240 |
| | | | | | | | | Weight: 344 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.1 , Right: 2x6 SP No.1

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=262(LC 25)
Max Uplift 1=253(LC 9), 5=280(LC 8)
Max Grav 1=5843(LC 2), 5=6526(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-7016/344, 2-3=-4522/337, 3-4=-4523/337, 4-5=-6984/342
BOT CHORD 1-9=-278/4552, 8-9=-278/4562, 6-8=-168/4548, 5-6=-168/4538
WEBS 3-8=-332/5948, 4-8=-1816/259, 4-6=-65/2983, 2-8=-1834/259, 2-9=-66/3027

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=253, 5=280.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1097 lb down and 55 lb up at 2-0-12, 1097 lb down and 55 lb up at 4-0-12, 1097 lb down and 55 lb up at 6-0-12, 1089 lb down and 55 lb up at 8-0-12, 1089 lb down and 55 lb up at 10-0-12, 1089 lb down and 55 lb up at 12-0-12, 1089 lb down and 55 lb up at 14-0-12, 1089 lb down and 55 lb up at 16-0-12, and 1097 lb down and 55 lb up at 18-0-12, and 1101 lb down and 51 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Continued on page 2

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| | | | | | | |
|------------|-------|---------------|-----|----------|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 4 Walker Rd. | E16495466 |
| J0122-0300 | C1-GR | Common Girder | 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=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-967(B) 10=-967(B) 11=-967(B) 12=-967(B) 13=-967(B) 14=-967(B) 15=-967(B) 16=-967(B) 17=-967(B) 18=-971(B)

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| | | | | | | |
|-------------------|---------------|------------------------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss C1GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495467 |
|-------------------|---------------|------------------------------------|----------|----------|--|-----------|

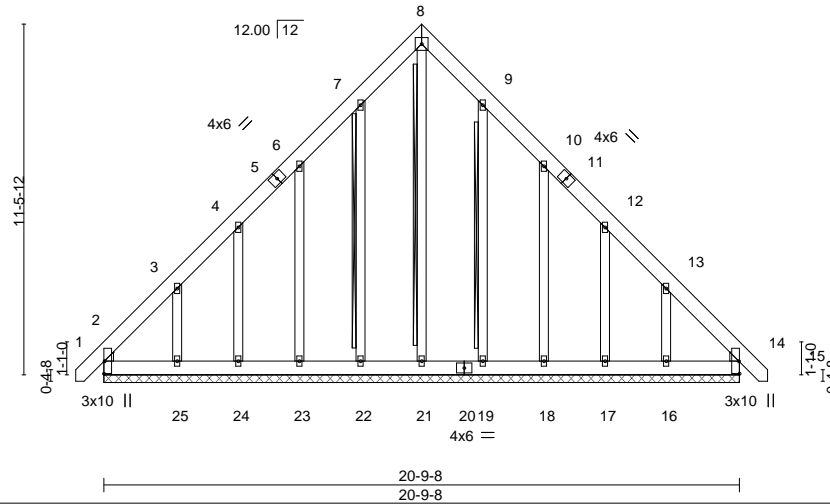
Comtech, Inc. Fayetteville, NC - 28314.

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:52:58 2021 Page 1
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0-11-0 10-4-12 20-9-8 21-8-8
0-11-0 10-4-12 10-4-12 0-11-0

5x5 =

Scale = 1:70.9



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|--------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.05 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.04 | Vert(LL) 0.00 14 n/r 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.16 | Vert(CT) 0.00 14 n/r 120 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 14 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 207 lb | FT = 20% |

LUMBER-

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

Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 8-21, 7-22, 9-19
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS.

All bearings 20-9-8.
(lb) - Max Horz 2=-335(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 19, 14 except 2=-118(LC 10), 22=-103(LC 12), 23=-155(LC 12), 24=-129(LC 12), 25=-246(LC 12), 18=-158(LC 13), 17=-128(LC 13), 16=-239(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 21, 22, 23, 24, 19, 18, 17, 16 except 2=304(LC 12), 25=255(LC 19), 14=267(LC 22)

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

TOP CHORD 2-3=-450/274, 13-14=-400/265
BOT CHORD 2-25=-211/327, 24-25=-213/328, 23-24=-213/328, 22-23=-214/328, 21-22=-214/328, 19-21=-214/328, 18-19=-214/328, 17-18=-213/327, 16-17=-213/327, 14-16=-211/326
WEBS 3-25=-261/253, 13-16=-261/247

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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.
- 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) 19, 14 except (jt=lb) 2=118, 22=103, 23=155, 24=129, 25=246, 18=158, 17=128, 16=239.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 22, 2021

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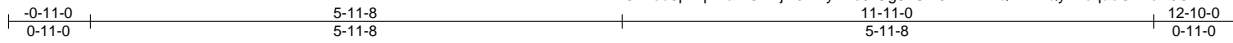
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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|---|-------|------------|-----|-----|------------------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 4 Walker Rd. | E16495468 |
| J0122-0300 | D1 | COMMON | 5 | 1 | | |
| Comtech, Inc. Fayetteville, NC - 28314. | | | | | | Job Reference (optional) |

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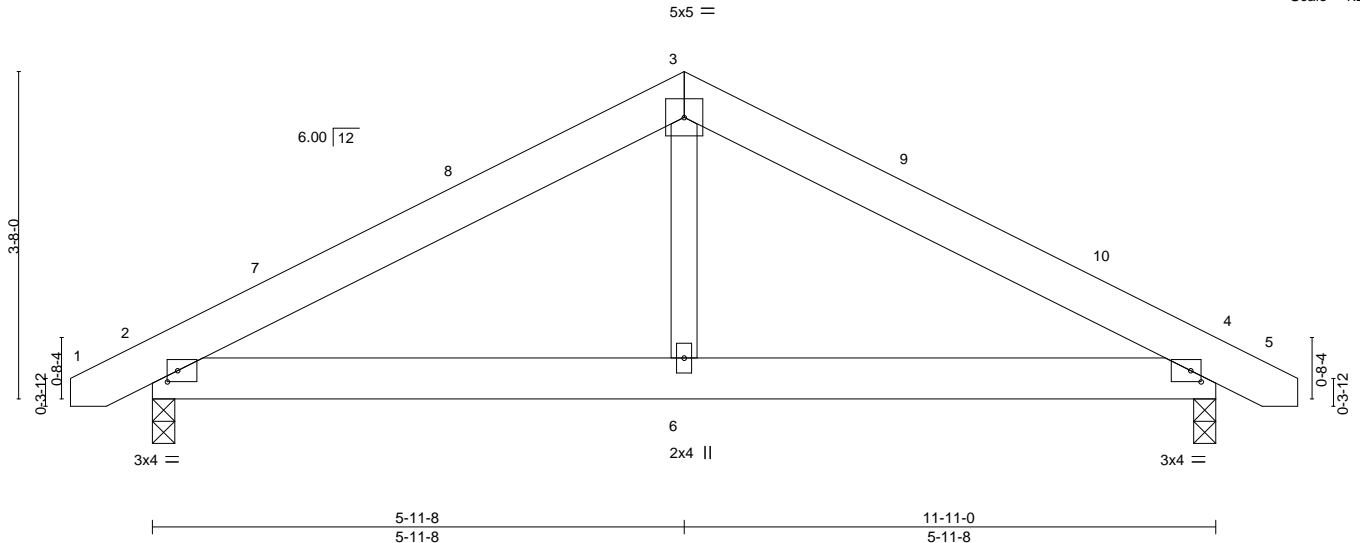


Plate Offsets (X,Y)-- [2:0-1-6,0-1-8], [4:0-1-6,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-----------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.16 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.13 | Vert(LL) 0.02 2-6 >999 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.06 | Vert(CT) -0.02 2-6 >999 240 | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Horz(CT) 0.01 4 n/a n/a | Weight: 68 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=0-3-0, 4=0-3-0
 Max Horz 2=43(LC 11)
 Max Uplift 2=106(LC 9), 4=106(LC 8)
 Max Grav 2=517(LC 1), 4=517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-634/664, 3-4=-634/664
 BOT CHORD 2-6=-473/486, 4-6=-473/486
 WEBS 3-6=-363/279

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 5-11-8, Exterior(2) 5-11-8 to 10-4-5, Interior(1) 10-4-5 to 12-7-10 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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=106, 4=106.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 22, 2021

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

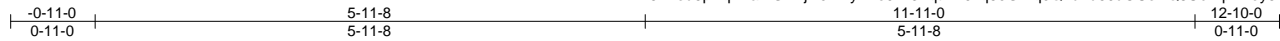


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|---------------|---------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss D1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495469 |
|-------------------|---------------|---------------------|----------|----------|--|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:53:02 2021 Page 1
ID:52Teu6pVqhXamGD1jN0kr4yxDe9-K3FqtRHJzq50GIZqQ4u1u69uOUeAQ8UcWpNLeY6RCF



Scale = 1:23.5

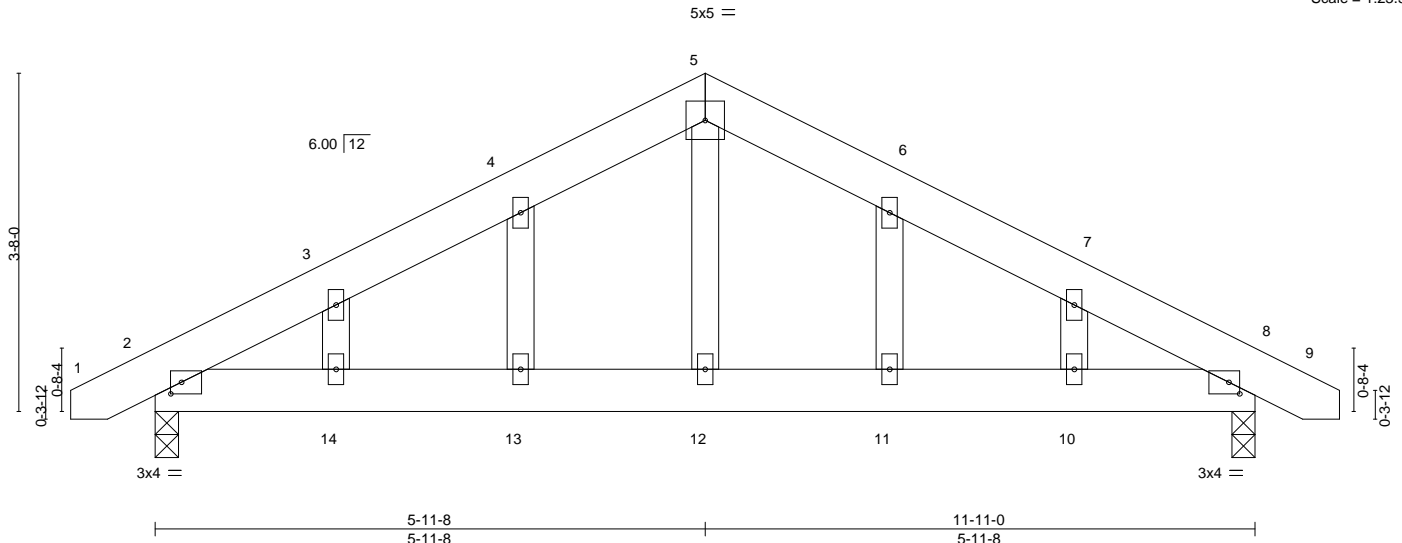


Plate Offsets (X,Y)-- [2:0-1-6,0-1-8], [8:0-1-6,0-1-8]

| | | | | | |
|----------------------|----------------------|-------------|-------------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.12 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.15 | Vert(LL) -0.01 13-14 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.06 | Vert(CT) -0.02 13-14 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 8 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.02 10-11 >999 240 | Weight: 76 lb | FT = 20% |

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

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

REACTIONS. (size) 2=0-3-0, 8=0-3-0
Max Horz 2=68(LC 16)
Max Uplift 2=137(LC 9), 8=137(LC 8)
Max Grav 2=517(LC 1), 8=517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=631/684, 3-4=569/684, 4-5=545/709, 5-6=545/709, 6-7=569/684, 7-8=631/684
BOT CHORD 2-14=506/490, 13-14=506/490, 12-13=506/490, 11-12=506/490, 10-11=506/490,
8-10=506/490
WEBS 5-12=382/236

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 2=137, 8=137.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 22, 2021

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

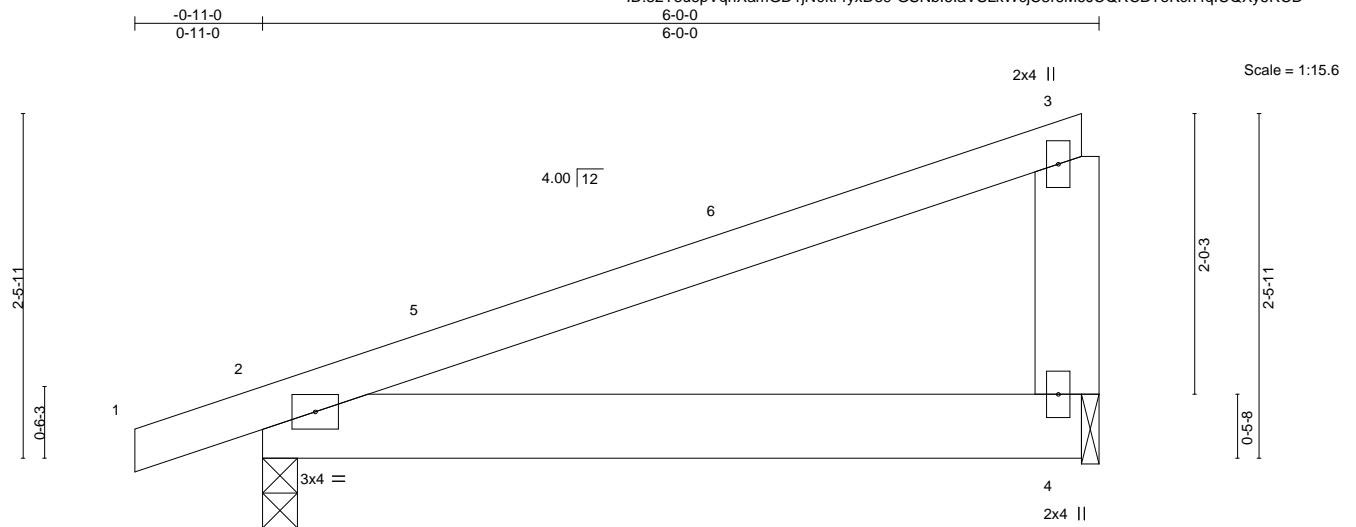


818 Soundside Road
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|-------------------|-------------|-------------------------|-----------|----------|--|-----------|
| Job J0122-0300 | Truss M1 | Truss Type MONOPITCH | Qty 10 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495470 |
|-------------------|-------------|-------------------------|-----------|----------|--|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:53:04 2021 Page 1
ID:52Teu6pVqhXamGD1jN0kr4yxDe9-GSNbl6laVSLkWcjC8r6M6JCQRCBTeKcn4qIUQXy6RCD



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-----------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.44 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) -0.01 2-4 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Vert(CT) -0.03 2-4 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.03 2-4 >999 240 | Weight: 29 lb | FT = 20% |

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-0, 4=0-1-8
Max Horz 2=75(LC 8)
Max Uplift 2=-116(LC 8), 4=-96(LC 8)
Max Grav 2=294(LC 1), 4=220(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 5-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=116.



December 22, 2021

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

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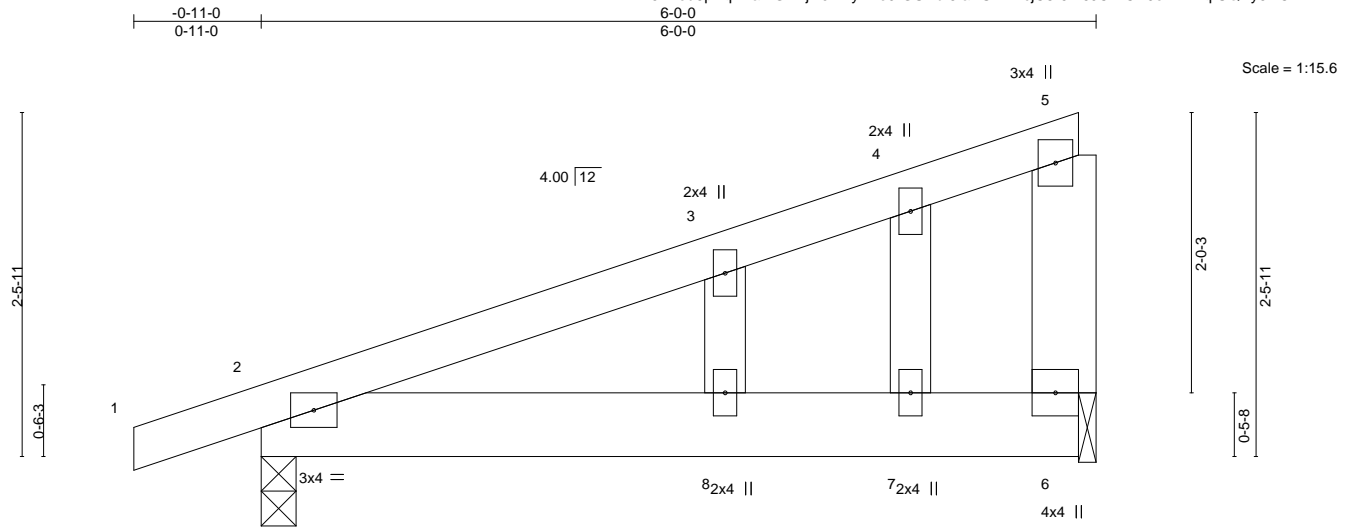
818 Soundside Road
Edenton, NC 27932

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|-------------------|---------------|---------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss M1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495471 |
|-------------------|---------------|---------------------|----------|----------|--|-----------|

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:53:04 2021 Page 1

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| | | | | | |
|----------------------|----------------------|-------------|-----------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.13 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.14 | Vert(LL) 0.03 2-8 >999 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.02 | Vert(CT) -0.02 2-8 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) -0.00 6 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 32 lb | FT = 20% |

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-0, 6=0-1-8
 Max Horz 2=107(LC 8)
 Max Uplift 2=167(LC 8), 6=140(LC 8)
 Max Grav 2=294(LC 1), 6=220(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=167, 6=140.



December 22, 2021

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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss V1 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495472 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:53:05 2021 Page 1
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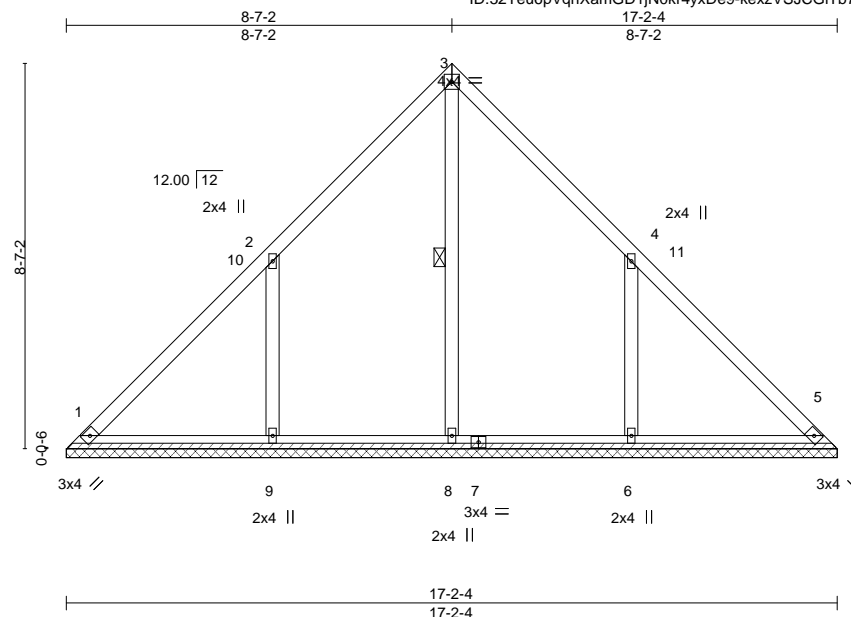


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.20 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.18 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.13 | Horz(CT) | 0.00 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 84 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.
WEBS 1 Row at midpt 3-8

REACTIONS.

All bearings 17-2-4.
(lb) - Max Horz 1=198(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=207(LC 12), 6=207(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=415(LC 22), 9=537(LC 19), 6=537(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-445/331, 4-6=-445/331

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-7-2, Interior(1) 4-7-2 to 8-7-2, Exterior(2) 8-7-2 to 12-11-15, Interior(1) 12-11-15 to 16-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=207, 6=207.



December 22, 2021

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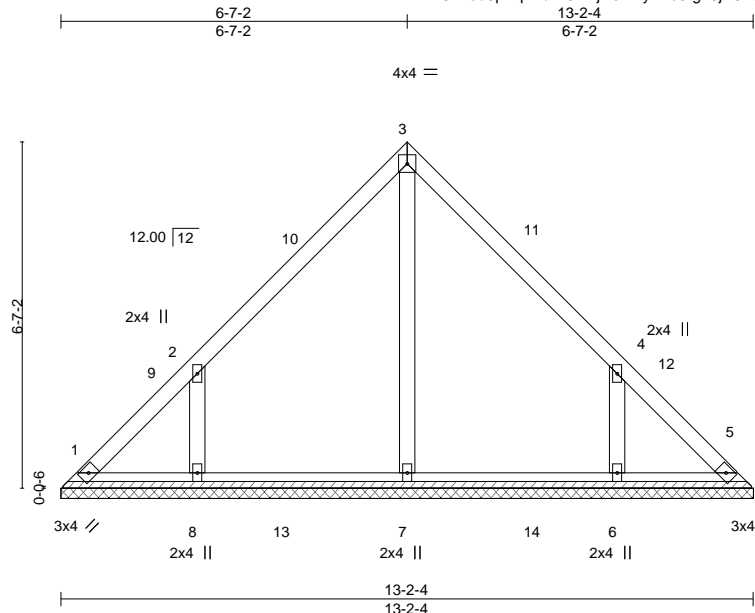


818 Soundside Road
Edenton, NC 27932

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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss V2 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495473 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:53:07 2021 Page 1
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Scale = 1:41.3

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

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.14 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.15 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.09 | Horz(CT) | 0.00 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 61 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 13-2-4.
(lb) - Max Horz 1=150(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=164(LC 12), 6=163(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=388(LC 19), 8=378(LC 19), 6=378(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-359/290, 4-6=-359/290

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-7-2, Exterior(2) 6-7-2 to 10-11-15, Interior(1) 10-11-15 to 12-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=164, 6=163.



December 22, 2021

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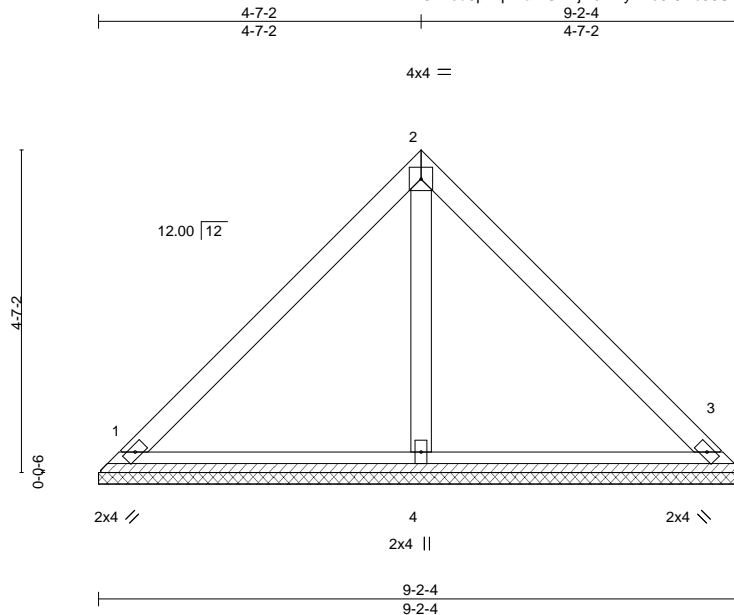


818 Soundside Road
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|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss V3 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495474 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:53:08 2021 Page 1
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Scale = 1:30.9

| | | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|---------------|---------------|----------|
| 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 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.13 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.05 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 37 lb | FT = 20% |

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=9-2-4, 3=9-2-4, 4=9-2-4
Max Horz 1=102(LC 8)
Max Uplift 1=25(LC 13), 3=25(LC 13)
Max Grav 1=192(LC 1), 3=192(LC 1), 4=294(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 22, 2021

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

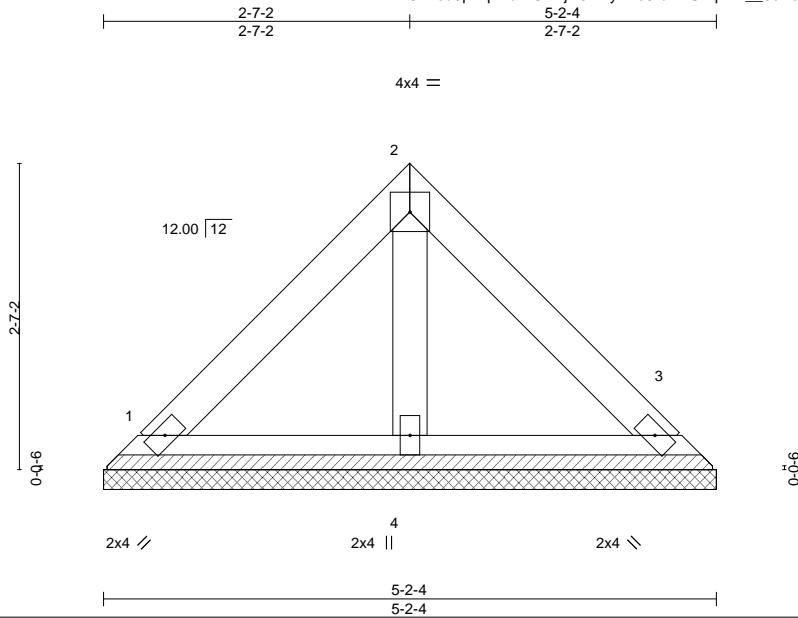


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J0122-0300 | Truss V4 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16495475 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 10:53:09 2021 Page 1
ID:52Teu6pVqhXamGD1jN0kr4yxDe9-dPAULqMiK__0cNcAxOiXpNvMkDv?JagWD50F5ky6RC8



Scale = 1:18.4

| | | | | | |
|----------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.04 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.01 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 20 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 5-2-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-2-4, 3=5-2-4, 4=5-2-4
Max Horz 1=54(LC 9)
Max Uplift 1=19(LC 13), 3=19(LC 13)
Max Grav 1=109(LC 1), 3=109(LC 1), 4=140(LC 1)

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

NOTES-

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



December 22, 2021

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

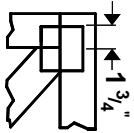
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



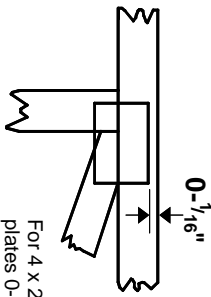
818 Soundside Road
Edenton, NC 27932

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 20/20 software or upon request.

PLATE SIZE

4 X 4

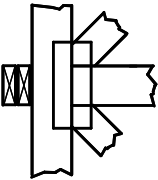
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



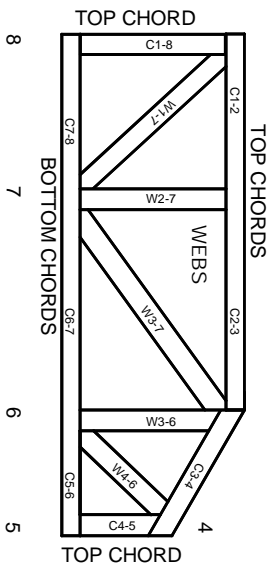
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/ITP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: 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

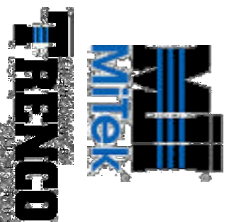
ICC-ES Reports:

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/TPP 1 section 6.3 These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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



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#.

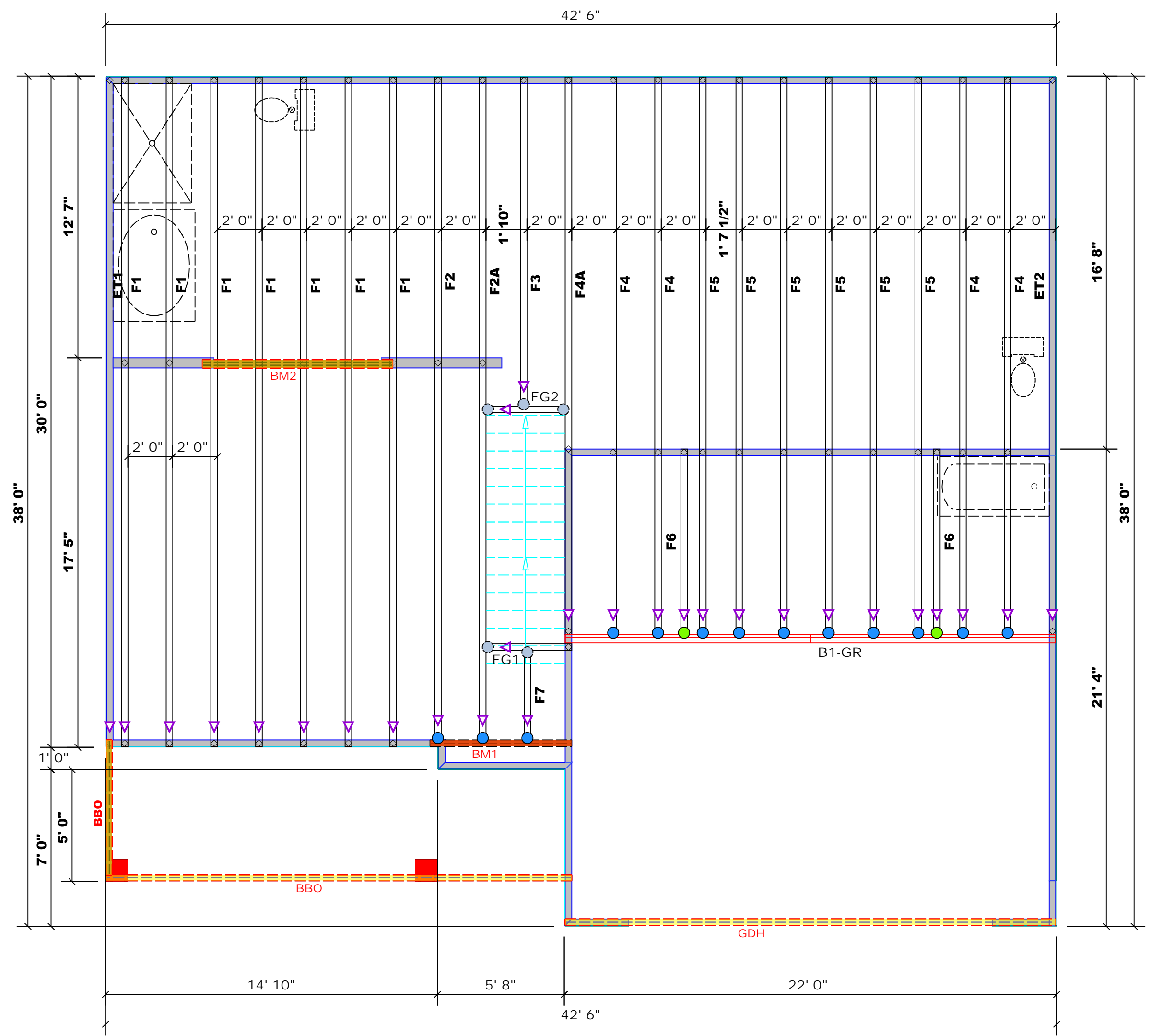
Signature David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES REQUIRED BY IBC)

NUMBER OF JACK STUDS REQUIRED BY EACH END OF HEADERS/BEAMS

| REACTION (LBS) | NO. OF JACK STUDS PER END | REACTION (LBS) | NO. OF JACK STUDS PER END |
|----------------|---------------------------|----------------|---------------------------|
| 1700 | 1 | 2550 | 1 |
| 3400 | 2 | 5100 | 2 |
| 5100 | 3 | 7650 | 3 |
| 6800 | 4 | 10200 | 4 |
| 8500 | 5 | 12750 | 5 |
| 10200 | 6 | 15300 | 6 |
| 11900 | 7 | | |
| 13600 | 8 | | |
| 15300 | 9 | | |



| Products | | | | | |
|----------|--------|-----------------------------|-------|---------|----------|
| PlotID | Length | Product | Plies | Net Qty | Fab Type |
| BM1 | 7' 0" | 1-3/4"x 14" LVL Kerto-S | 2 | 2 | FF |
| BM2 | 10' 0" | 2x12 SPF No.1 | 3 | 3 | FF |
| BM3 | 14' 0" | 2x12 SPF No.1 | 2 | 4 | FF |
| GDH | 22' 0" | 1-3/4"x 11-7/8" LVL Kerto-S | 2 | 2 | FF |

Dimension Notes

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

Plumbing Drop Notes

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

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

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|------------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| ● | HUS410 | USP | 13 | Varies | 16d/3-1/2" | 16d/3-1/2" |
| ● | MSH422 | USP | 5 | Varies | 10d/3" | 10d/3" |
| ● | THD410 | USP | 2 | Varies | 16d/3-1/2" | 10d/3" |

| | |
|-----------|-----------------------|
| COUNTY | Linden / Harnett |
| ADDRESS | 708 Walker Road |
| MODEL | Floor |
| DATE REV. | 03/18/22 |
| DRAWN BY | David Landry |
| SALESMAN | Marshall Naylor |
| BUILDER | Ben Stout Real Estate |
| JOB NAME | Lot 4 Walker Rd. |
| PLAN | The Fawbrook |
| SEAL DATE | N/A |
| QUOTE # | |
| JOB # | J0122-0301 |

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 BCS-81 and BCS-83 provided with the truss delivery package or online @ sbcindustry.com

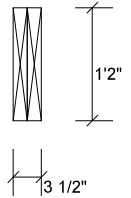
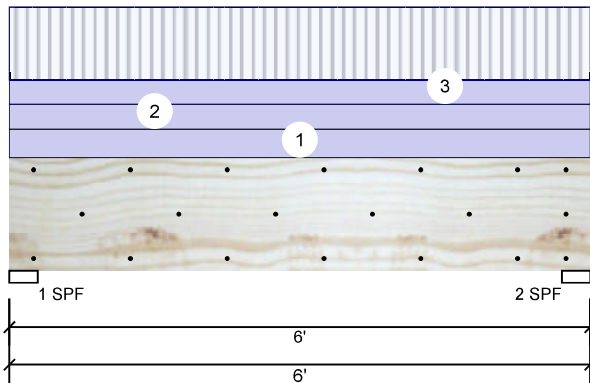


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

BM1 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: | 360 |
| Importance: | Normal |
| 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 | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 918 | 1014 | 0 | 0 | 0 |
| 2 | 918 | 1014 | 0 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------------|------------|-------|----------|-----------|
| 1 - SPF | 3.500" | 37% | 1014 / 918 | 1932 | L | D+L |
| 2 - SPF | 3.500" | 37% | 1014 / 918 | 1932 | L | D+L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|----------|---------------|-------------|-------|------|
| Moment | 2472 ft-lb | 3' | 26999 ft-lb | 0.092 (9%) | D+L | L |
| Unbraced | 2472 ft-lb | 3' | 26999 ft-lb | 0.092 (9%) | D+L | L |
| Shear | 1509 lb | 4'7 1/4" | 10453 lb | 0.144 (14%) | D+L | L |
| LL Defl inch | 0.007 (L/9753) | 3' | 0.139 (L/480) | 0.050 (5%) | L | L |
| TL Defl inch | 0.014 (L/4635) | 3' | 0.185 (L/360) | 0.080 (8%) | D+L | L |

Design Notes

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously braced.
- 6 Bottom braced at bearings.
- 7 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 | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Above |
| 2 | Uniform | | | Top | 105 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | C1GE |
| 3 | Uniform | | | Far Face | 102 PLF | 306 PLF | 0 PLF | 0 PLF | 0 PLF | F2 |
| | 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 4/24/2023

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us
 ICC-ES: ESR-3633

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

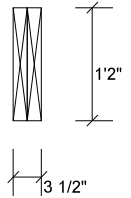
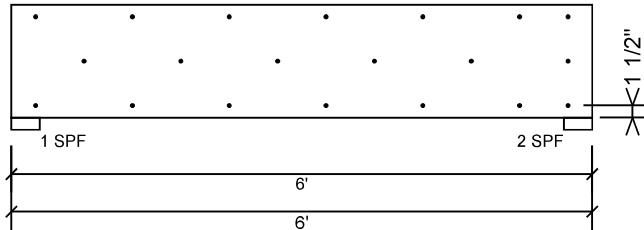


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

BM1 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 | 83.1 % |
| Load | 204.0 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

This design is valid until 4/24/2023

Manufacturer Info

Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us
 ICC-ES: ESR-3633

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



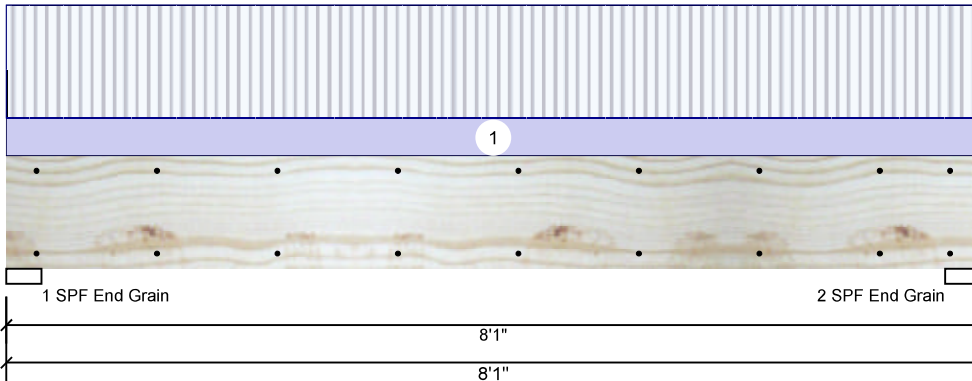


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

BM2 S-P-F #1 2.000" X 12.000" 3-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 3 |
| Moisture Condition: | Dry |
| Deflection LL: | 360 |
| Deflection TL: | 240 |
| Importance: | Normal |
| Temperature: | Temp <= 100°F |

| | |
|----------------|--------------|
| Application: | Floor |
| Design Method: | ASD |
| Building Code: | IBC/IRC 2015 |
| Load Sharing: | Yes |
| Deck: | Not Checked |

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 2926 | 978 | 0 | 0 | 0 |
| 2 | 2926 | 978 | 0 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|-------------------|--------|------------|------------|-------|----------|-----------|
| 1 - SPF End Grain | 3.500" | 58% | 978 / 2926 | 3904 | L | D+L |
| 2 - SPF End Grain | 3.500" | 58% | 978 / 2926 | 3904 | L | D+L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|----------|---------------|-------------|-------|------|
| Moment | 7020 ft-lb | 4' 1/2" | 7960 ft-lb | 0.882 (88%) | D+L | L |
| Unbraced | 7020 ft-lb | 4' 1/2" | 7960 ft-lb | 0.882 (88%) | D+L | L |
| Shear | 2777 lb | 1'2" | 4556 lb | 0.610 (61%) | D+L | L |
| LL Defl inch | 0.074 (L/1242) | 4' 9/16" | 0.254 (L/360) | 0.290 (29%) | L | L |
| TL Defl inch | 0.098 (L/931) | 4' 9/16" | 0.381 (L/240) | 0.260 (26%) | D+L | L |

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously braced.
- 6 Bottom braced at bearings.
- 7 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 | 242 PLF | 724 PLF | 0 PLF | 0 PLF | 0 PLF | F1 |

Manufacturer Info

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



This design is valid until 4/24/2023

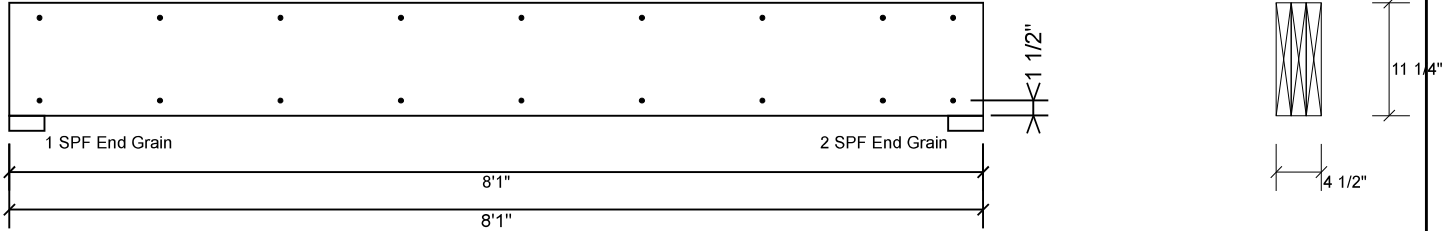


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

BM2 S-P-F #1 2.000" X 12.000" 3-Ply - PASSED

Level: Level



Multi-Ply Analysis

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

| | |
|--------------------------|-----------|
| Capacity | 0.0 % |
| Load | 0.0 PLF |
| Yield Limit per Foot | 157.4 PLF |
| Yield Limit per Fastener | 78.7 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1.00 |

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

This design is valid until 4/24/2023

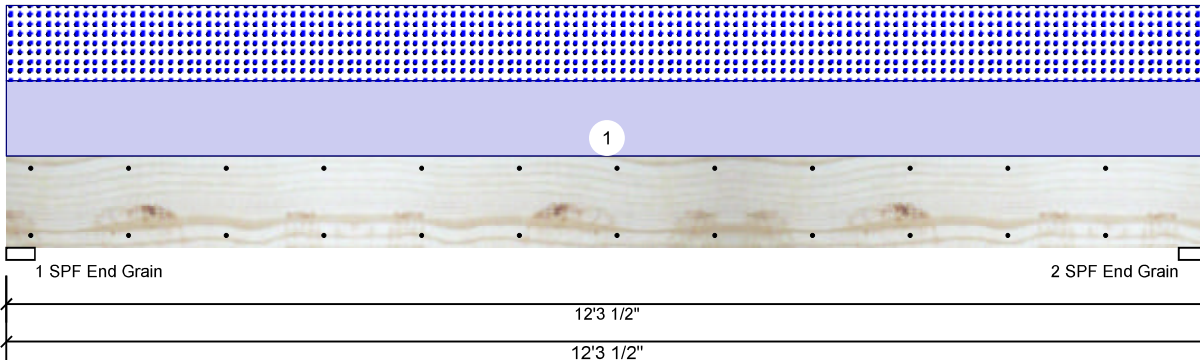


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

BM3 S-P-F #1 2.000" X 12.000" 2-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 360 |
| Deflection TL: | 240 |
| Importance: | Normal |
| 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 | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 0 | 799 | 799 | 0 | 0 |
| 2 | 0 | 799 | 799 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|-------------------|--------|------------|-----------|-------|----------|-----------|
| 1 - SPF End Grain | 3.500" | 36% | 799 / 799 | 1598 | L | D+S |
| 2 - SPF End Grain | 3.500" | 36% | 799 / 799 | 1598 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|----------|---------------|-------------|-------|------|
| Moment | 4551 ft-lb | 6'1 3/4" | 5306 ft-lb | 0.858 (86%) | D+S | L |
| Unbraced | 4551 ft-lb | 6'1 3/4" | 5306 ft-lb | 0.858 (86%) | D+S | L |
| Shear | 1295 lb | 1'2" | 3493 lb | 0.371 (37%) | D+S | L |
| LL Defl inch | 0.115 (L/1234) | 6'1 3/4" | 0.394 (L/360) | 0.290 (29%) | S | L |
| TL Defl inch | 0.230 (L/617) | 6'1 3/4" | 0.592 (L/240) | 0.390 (39%) | D+S | L |

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously braced.
- 6 Bottom braced at bearings.
- 7 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 | 130 PLF | 0 PLF | 130 PLF | 0 PLF | 0 PLF | D1 |

Manufacturer Info

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



This design is valid until 4/24/2023

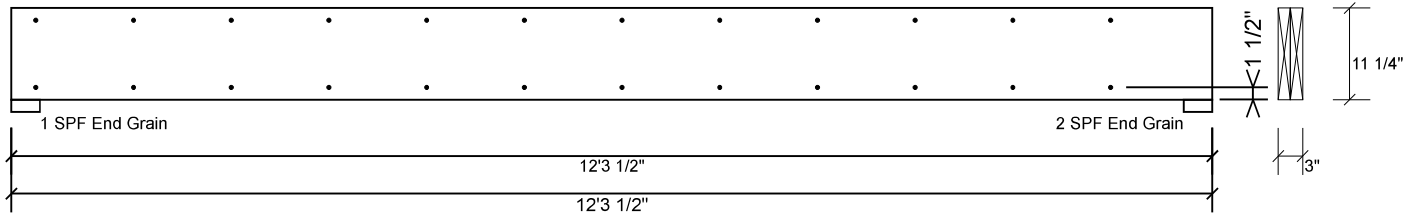


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

BM3 S-P-F #1 2.000" X 12.000" 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 | 157.4 PLF |
| Yield Limit per Fastener | 78.7 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1.00 |

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

This design is valid until 4/24/2023

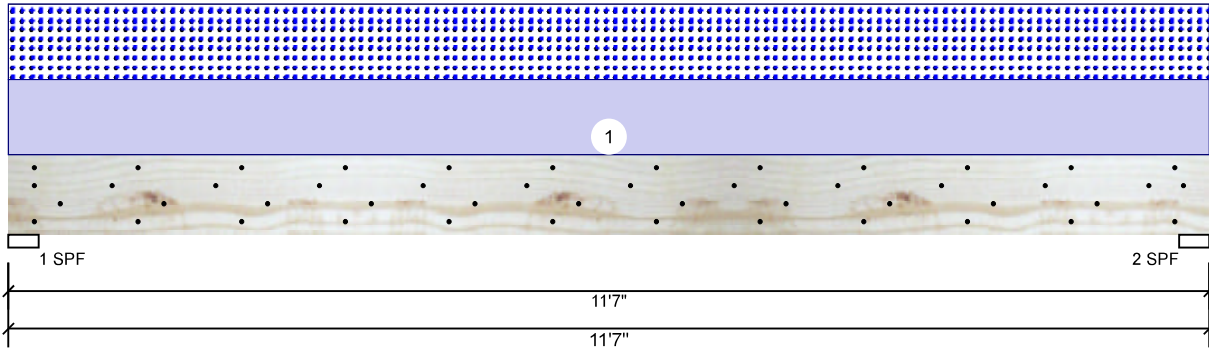


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

BM4 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 360 |
| Deflection TL: | 240 |
| Importance: | Normal |
| Temperature: | Temp <= 100°F |

| | |
|----------------|--------------|
| Application: | Roof |
| Slope: | 0/12 |
| Design Method: | ASD |
| Building Code: | IBC/IRC 2015 |
| Load Sharing: | No |
| Deck: | Not Checked |

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 0 | 1698 | 1656 | 0 | 0 |
| 2 | 0 | 1698 | 1656 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------------|-------------|-------|----------|-----------|
| 1 - SPF | 3.500" | 64% | 1698 / 1656 | 3355 | L | D+S |
| 2 - SPF | 3.500" | 64% | 1698 / 1656 | 3355 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|---------------|----------|---------------|-------------|-------|------|
| Moment | 8961 ft-lb | 5'9 1/2" | 14423 ft-lb | 0.621 (62%) | D+S | L |
| Unbraced | 8961 ft-lb | 5'9 1/2" | 14423 ft-lb | 0.621 (62%) | D+S | L |
| Shear | 3216 lb | 10'7" | 7943 lb | 0.405 (40%) | D+S | L |
| LL Defl inch | 0.229 (L/582) | 5'9 1/2" | 0.371 (L/360) | 0.620 (62%) | S | L |
| TL Defl inch | 0.464 (L/288) | 5'9 1/2" | 0.556 (L/240) | 0.830 (83%) | D+S | L |

Design Notes

- 1 Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top must be continuously braced.
- 5 Bottom braced at bearings.
- 6 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 | 286 PLF | 0 PLF | 286 PLF | 0 PLF | 0 PLF | A2 |
| | 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 4/24/2023

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us
 ICC-ES: ESR-3633

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

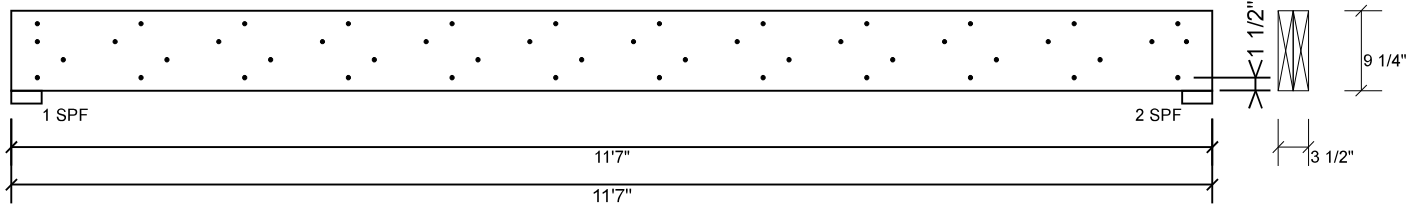


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

BM4 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

| | |
|--------------------------|-----------|
| Capacity | 76.0 % |
| Load | 286.0 PLF |
| Yield Limit per Foot | 376.5 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 |

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 4/24/2023

Manufacturer Info

Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us
 ICC-ES: ESR-3633

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



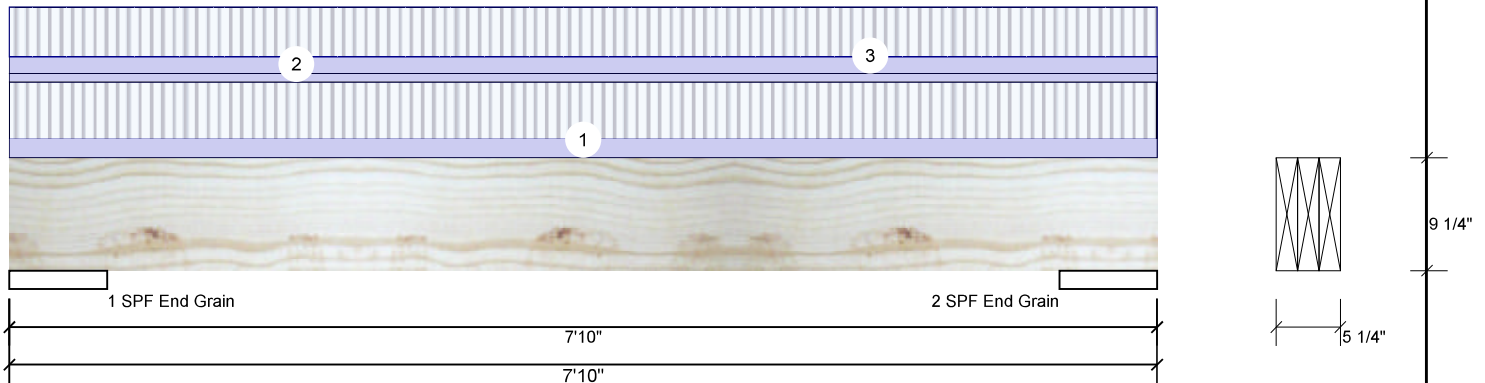


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

BM5 Kerto-S LVL 1.750" X 9.250" 3-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 3 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 240 |
| Importance: | Normal |
| Temperature: | Temp <= 100°F |

| | |
|----------------|--------------|
| Application: | Floor |
| Design Method: | ASD |
| Building Code: | IBC/IRC 2015 |
| Load Sharing: | Yes |
| Deck: | Not Checked |

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 5848 | 2463 | 0 | 0 | 0 |
| 2 | 5848 | 2463 | 0 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|-------------------|--------|------------|-------------|-------|----------|-----------|
| 1 - SPF End Grain | 8.000" | 23% | 2463 / 5848 | 8310 | L | D+L |
| 2 - SPF End Grain | 8.000" | 23% | 2463 / 5848 | 8310 | L | D+L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|---------------|----------|---------------|-------------|-------|------|
| Moment | 11641 ft-lb | 3'11" | 19565 ft-lb | 0.595 (59%) | D+L | L |
| Unbraced | 11641 ft-lb | 3'11" | 14536 ft-lb | 0.801 (80%) | D+L | L |
| Shear | 5393 lb | 1'4 1/2" | 10360 lb | 0.521 (52%) | D+L | L |
| LL Defl inch | 0.113 (L/704) | 3'11" | 0.166 (L/480) | 0.680 (68%) | L | L |
| TL Defl inch | 0.160 (L/496) | 3'11" | 0.331 (L/240) | 0.480 (48%) | D+L | L |

Design Notes

- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.
- Top braced at bearings.
- Bottom braced at bearings.
- 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 | 265 PLF | 795 PLF | 0 PLF | 0 PLF | 0 PLF | J-32' |
| 2 | Uniform | | | Top | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall |
| 3 | Uniform | | | Top | 233 PLF | 698 PLF | 0 PLF | 0 PLF | 0 PLF | F2 |
| | 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**
- 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 4/24/2023

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

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

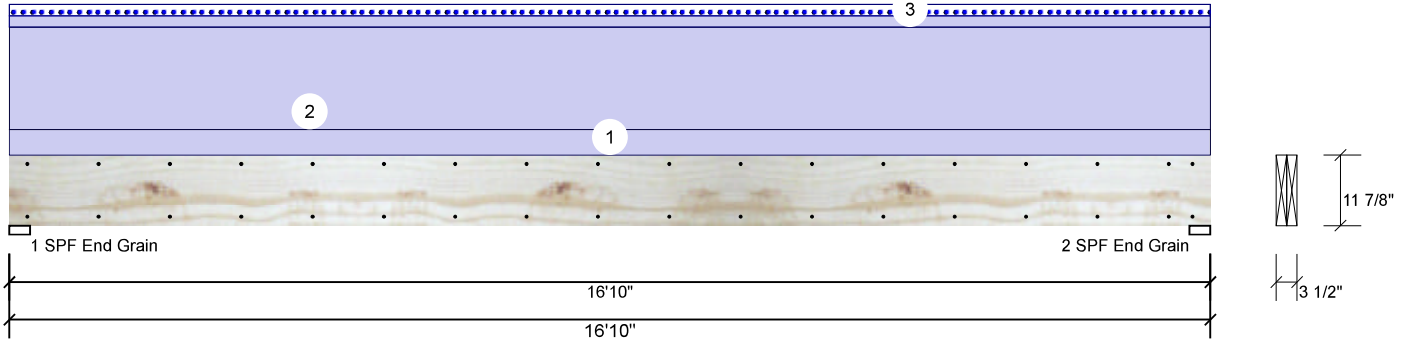


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 360 |
| Deflection TL: | 240 |
| Importance: | Normal |
| 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 | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 0 | 2140 | 168 | 0 | 0 |
| 2 | 0 | 2140 | 168 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|-------------------|--------|------------|------------|-------|----------|-----------|
| 1 - SPF End Grain | 3.500" | 22% | 2140 / 168 | 2308 | L | D+S |
| 2 - SPF End Grain | 3.500" | 22% | 2140 / 168 | 2308 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|-----------|---------------|-------------|-------|---------|
| Moment | 8521 ft-lb | 8'5" | 17919 ft-lb | 0.476 (48%) | D | Uniform |
| Unbraced | 8521 ft-lb | 8'5" | 17919 ft-lb | 0.476 (48%) | D | Uniform |
| Shear | 1830 lb | 15'7 3/8" | 7980 lb | 0.229 (23%) | D | Uniform |
| LL Defl inch | 0.035 (L/5617) | 8'5 1/16" | 0.546 (L/360) | 0.060 (6%) | S | L |
| TL Defl inch | 0.480 (L/410) | 8'5 1/16" | 0.819 (L/240) | 0.590 (59%) | D+S | L |

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously braced.
- 6 Bottom braced at bearings.
- 7 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 | 45 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall Above |
| 2 | Uniform | | | Top | 180 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | B1GE |
| 3 | Tie-In | 0-0-0 to 16-10-0 | 1-0-0 | Top | 20 PSF | 0 PSF | 20 PSF | 0 PSF | 0 PSF | Roof Load |
| | Self Weight | | | | 9 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 4/24/2023

Manufacturer Info

Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
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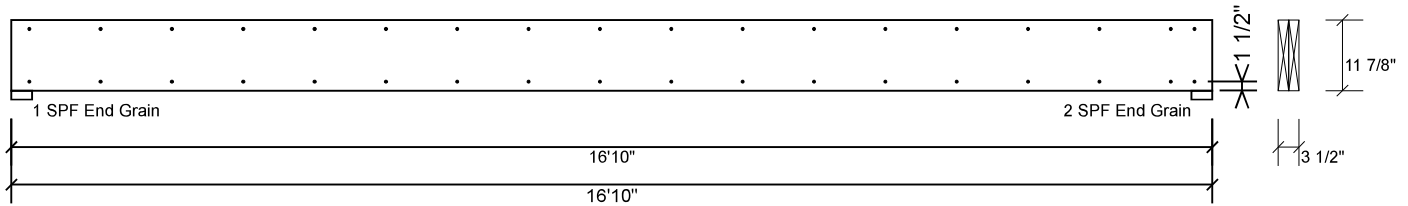


Client: Benjamin Stout Real Estate
 Project: The Fawnbrook
 Address: 708 Walker Road
 Linden, NC 28356

Date: 3/18/2022
 Input by: David Landry
 Job Name: Lot 4 Walker Rd.
 Project #: J0122-0301

GDH Kerto-S LVL 1.750" X 11.875" 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

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
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 ICC-ES: ESR-3633

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





RE: J0122-0301
Lot 4 Walker Rd.

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Benjamin Stout Real Estate Project Name: J0122-0301
Lot/Block: 4 Model: Fawnbrook
Address: 708 Walker Road Subdivision: Walker Rd.
City: Linden 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 13 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|------------|
| 1 | E16494820 | ET1 | 12/22/2021 |
| 2 | E16494821 | ET2 | 12/22/2021 |
| 3 | E16494822 | F1 | 12/22/2021 |
| 4 | E16494823 | F2 | 12/22/2021 |
| 5 | E16494824 | F2A | 12/22/2021 |
| 6 | E16494825 | F3 | 12/22/2021 |
| 7 | E16494826 | F4 | 12/22/2021 |
| 8 | E16494827 | F4A | 12/22/2021 |
| 9 | E16494828 | F5 | 12/22/2021 |
| 10 | E16494829 | F6 | 12/22/2021 |
| 11 | E16494830 | F7 | 12/22/2021 |
| 12 | E16494831 | FG1 | 12/22/2021 |
| 13 | E16494832 | FG2 | 12/22/2021 |

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



December 22, 2021

| | | | | | | |
|-------------------|--------------|---------------------|----------|----------|--|-----------|
| Job J0122-0301 | Truss ET1 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16494820 |
|-------------------|--------------|---------------------|----------|----------|--|-----------|

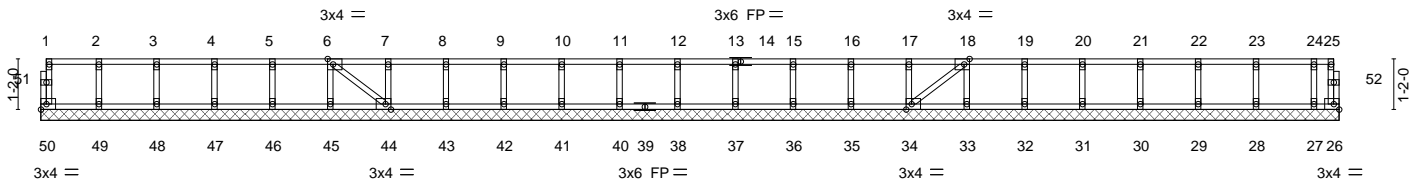
Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 08:50:19 2021 Page 1
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0-1/8

0-1/8

Scale = 1:50.0



| | | | | | | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1-4-0 | 2-8-0 | 4-0-0 | 5-4-0 | 6-8-0 | 8-0-0 | 9-4-0 | 10-8-0 | 12-0-0 | 13-4-0 | 14-8-0 | 16-0-0 | 17-4-0 | 18-8-0 | 20-0-0 | 21-4-0 | 22-8-0 | 24-0-0 | 25-4-0 | 26-8-0 | 28-0-0 | 29-4-0 | 29-11-0 |
| 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 | 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 | 0-7-0 |

| | | | | | |
|---|-----------------------|-------------|----------------------------------|----------------|-----------------|
| Plate Offsets (X,Y)-- [6:0-1-8,Edge], [18:0-1-8,Edge], [34:0-1-8,Edge], [44:0-1-8,Edge] | | | | | |
| 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 26 n/a n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 128 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 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 49-50,48-49,47-48,46-47,45-46,44-45. |
| WEBS 2x4 SP No.3(flat) | |
| OTHERS 2x4 SP No.3(flat) | |

REACTIONS. All bearings 29-11-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 26
Max Grav All reactions 250 lb or less at joint(s) 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26.
 - 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.



December 22, 2021

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



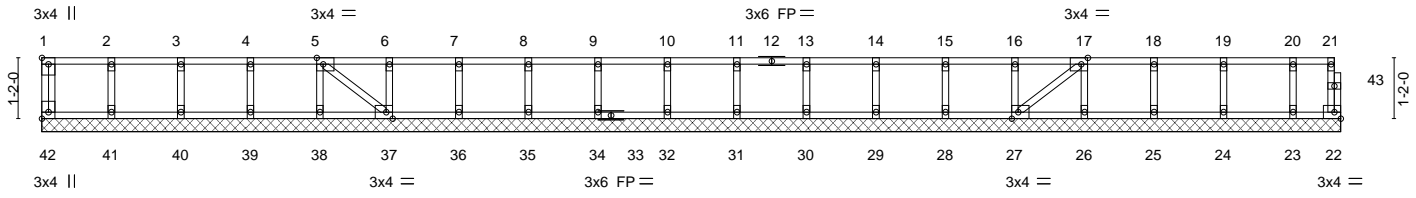
| | | | | | | |
|-------------------|--------------|---------------------|----------|----------|--|-----------|
| Job J0122-0301 | Truss ET2 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16494821 |
|-------------------|--------------|---------------------|----------|----------|--|-----------|

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 08:50:20 2021 Page 1
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0-1/8

Scale = 1:41.6



| | | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1-4-0 | 2-8-0 | 4-0-0 | 5-4-0 | 6-8-0 | 8-0-0 | 9-4-0 | 10-8-0 | 12-0-0 | 13-4-0 | 14-8-0 | 16-0-0 | 17-4-0 | 18-8-0 | 20-0-0 | 21-4-0 | 22-8-0 | 24-0-0 | 24-11-0 |
| 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 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 0-11-0 |

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [17:0-1-8,Edge], [27:0-1-8,Edge], [37:0-1-8,Edge], [42: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 | 27 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 108 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)
OTHERS 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 6-0-0 oc bracing.

REACTIONS.

All bearings 24-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23

FORCES.

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

NOTES-

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.



December 22, 2021

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



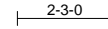
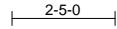
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J0122-0301 | Truss F1 | Truss Type Floor | Qty 7 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16494822 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

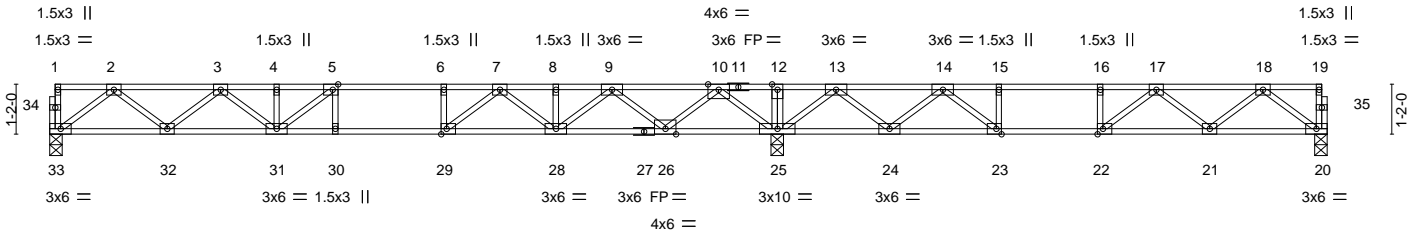
Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 08:50:21 2021 Page 1
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0-1-8



0-1-8
Scale = 1:50.8



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [5:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge], [29:0-1-8,Edge] |
|-----------------------|---|

| 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 0.88 | Vert(LL) | -0.19 29-30 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.85 | Vert(CT) | -0.26 29-30 | >767 | 360 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.58 | Horz(CT) | 0.05 20 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 148 lb | FT = 20%F, 11%E |

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

REACTIONS. (size) 33=0-3-8, 20=0-3-8, 25=0-3-8
Max Grav 33=822(LC 3), 20=614(LC 4), 25=1929(LC 1)

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

TOP CHORD 2-3=-1687/0, 3-4=-2703/0, 4-5=-2703/0, 5-6=-2936/0, 6-7=-2936/0, 7-8=-2065/0, 8-9=-2065/0, 9-10=-549/294, 10-12=0/2133, 12-13=0/2133, 13-14=-572/952, 14-15=-1607/250, 15-16=-1607/250, 16-17=-1607/250, 17-18=-1177/0

BOT CHORD 32-33=0/1025, 31-32=0/2317, 30-31=0/2936, 29-30=0/2936, 28-29=0/2550, 26-28=-30/1421, 25-26=-830/0, 24-25=-1240/0, 23-24=-643/1160, 22-23=-250/1607, 21-22=-9/1538, 20-21=0/756

WEBS 2-33=-1283/0, 2-32=0/862, 3-32=-820/0, 3-31=0/493, 5-31=-489/137, 10-25=-1646/0, 10-26=0/1220, 18-20=-945/0, 18-21=0/549, 17-21=-469/93, 17-22=-331/89, 9-26=-1182/0, 9-28=0/871, 7-28=-674/0, 7-29=0/794, 6-29=-359/0, 13-25=-1322/0, 13-24=0/882, 14-24=-928/0, 14-23=0/951, 15-23=-423/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 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.



December 22, 2021

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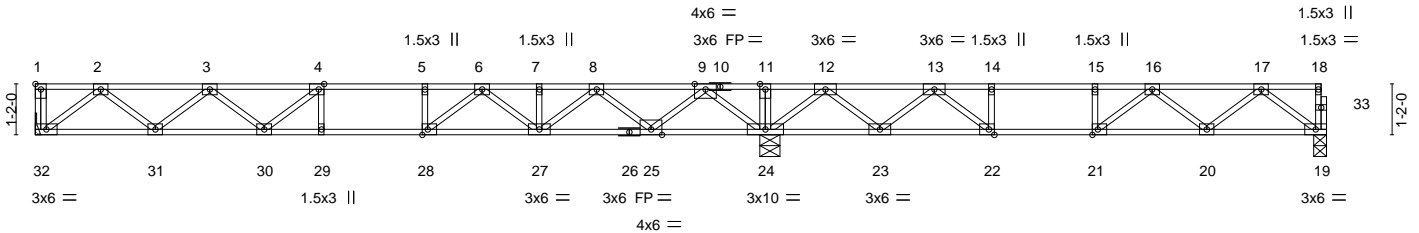
| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J0122-0301 | Truss F2 | Truss Type Floor | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16494823 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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Scale = 1:49.8



| | | | |
|-----------------------|---|---------|--------|
| | 16-9-0 | 16-10-4 | 29-7-8 |
| Plate Offsets (X,Y)-- | [1:Edge,0-1-8], [4:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,Edge] | 0-1-4 | 12-9-4 |

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|-------------|--------|-----|----------------|-----------------|
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.87 | Vert(LL) | -0.18 28-29 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.85 | Vert(CT) | -0.25 28-29 | >810 | 360 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.57 | Horz(CT) | 0.05 19 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 146 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 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |

REACTIONS. (size) 32=Mechanical, 19=0-3-8, 24=0-5-8
Max Grav 32=814(LC 3), 19=615(LC 4), 24=1907(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1658/0, 3-4=-2582/0, 4-5=-2848/0, 5-6=-2848/0, 6-7=-2034/0, 7-8=-2034/0, 8-9=-563/296, 9-11=0/2082, 11-12=0/2082, 12-13=-578/905, 13-14=-1611/221, 14-15=-1611/221, 15-16=-1611/221, 16-17=-1179/0
BOT CHORD 31-32=0/1002, 30-31=0/2282, 29-30=0/2848, 28-29=0/2848, 27-28=0/2500, 25-27=-36/1414, 24-25=-810/0, 23-24=-1188/0, 22-23=-602/1165, 21-22=-221/1611, 20-21=0/1540, 19-20=0/756
WEBS 2-32=-1257/0, 2-31=0/854, 3-31=-813/0, 3-30=0/392, 4-30=-431/27, 9-24=-1619/0, 9-25=0/1194, 17-19=-946/0, 17-20=0/550, 16-20=-470/84, 16-21=-317/90, 8-25=-1155/0, 8-27=0/843, 6-27=-652/0, 6-28=0/750, 5-28=-323/0, 12-24=-1316/0, 12-23=0/876, 13-23=-920/0, 13-22=0/936, 14-22=-417/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 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.



December 22, 2021

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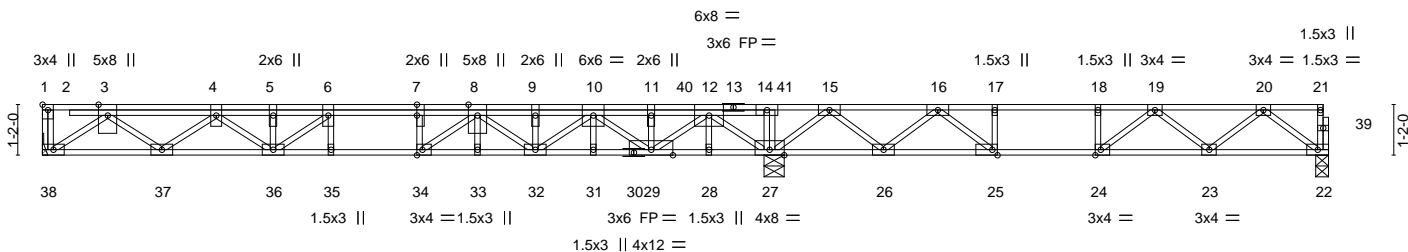
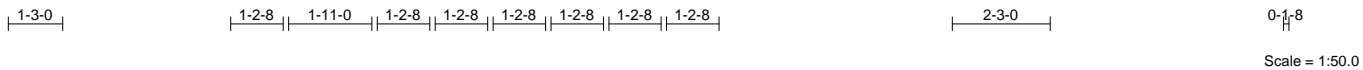
818 Soundside Road
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| | | | | | | |
|-------------------|--------------|---------------------|----------|----------|--|-----------|
| Job J0122-0301 | Truss F2A | Truss Type Floor | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16494824 |
|-------------------|--------------|---------------------|----------|----------|--|-----------|

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| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [1:Edge,0-1-8], [7:0-3-0,Edge], [24:0-1-8,Edge], [25:0-1-8,Edge], [34:0-1-8,Edge] |
|-----------------------|---|

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|-----------------|
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.76 | Vert(LL) -0.18 | 34 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.75 | Vert(CT) -0.25 | 34-35 | >807 | 360 | | |
| BCLL 0.0 | Rep Stress Incr NO | WB 0.82 | Horz(CT) 0.05 | 22 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 174 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x4 SP No.1(flat) *Except* 13-21: 2x4 SP 2400F 2.0E(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 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |

REACTIONS. (size) 38=Mechanical, 27=0-5-8, 22=0-3-8
Max Grav 38=964(LC 3), 27=2406(LC 1), 22=570(LC 4)

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

TOP CHORD 3-4=-2136/0, 4-5=-3370/0, 5-6=-3370/0, 6-7=-3559/0, 7-8=-3559/0, 8-9=-2773/0, 9-10=-2773/0, 10-11=-1237/0, 11-12=-1237/0, 12-14=0/2680, 14-15=0/2687, 15-16=-130/1235, 16-17=-1334/425, 17-18=-1334/425, 18-19=-1334/425, 19-20=-1070/7

BOT CHORD 37-38=0/1273, 36-37=0/2963, 35-36=0/3559, 34-35=0/3559, 33-34=0/3203, 32-33=0/3203, 31-32=0/2048, 29-31=0/2048, 28-29=-674/0, 27-28=-674/0, 26-27=-1552/0, 25-26=-889/777, 24-25=-425/1334, 23-24=-112/1373, 22-23=0/696

WEBS 3-38=-1562/0, 3-37=0/1096, 4-37=-1051/0, 4-36=0/508, 5-36=-262/11, 12-27=-2453/0, 12-29=0/1730, 11-29=-374/0, 15-27=-1531/0, 10-29=-1078/0, 15-26=0/927, 16-26=-983/0, 16-25=0/1048, 17-25=-483/0, 10-32=0/953, 8-32=-591/0, 8-34=0/803, 7-34=-399/0, 6-36=-364/210, 20-22=-870/0, 20-23=-27/487, 19-23=-394/136, 19-24=-429/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x6 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.
 - 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) 241 lb down at 4-1-12, and 526 lb down at 14-9-4 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: 22-38=-10, 1-21=-100

Concentrated Loads (lb)
Vert: 4=-161(F) 40=-446(F)



December 22, 2021

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 4 Walker Rd. | E16494825 |
| J0122-0301 | F3 | Floor | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

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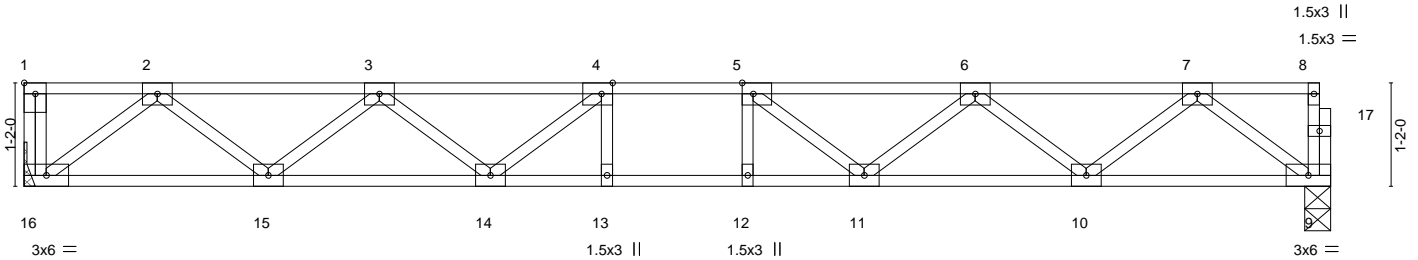
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1-3-0

1-5-8

0-1-8

Scale = 1:24.4



14-8-8
14-8-8

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|---------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.32 | Vert(LL) | -0.13 | 12-13 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.65 | Vert(CT) | -0.18 | 12-13 | >947 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.39 | Horz(CT) | 0.04 | 9 | n/a | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-S | | | | | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 75 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) 16=Mechanical, 9=0-3-8
Max Grav 16=795(LC 1), 9=789(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1611/0, 3-4=-2484/0, 4-5=-2748/0, 5-6=-2484/0, 6-7=-1610/0
BOT CHORD 15-16=0/977, 14-15=0/2210, 13-14=0/2748, 12-13=0/2748, 11-12=0/2748, 10-11=0/2210, 9-10=0/976
WEBS 2-16=-1225/0, 2-15=0/825, 3-15=-780/0, 3-14=0/414, 4-14=-496/0, 7-9=-1221/0, 7-10=0/826, 6-10=-781/0, 6-11=0/414, 5-11=-496/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 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.



December 22, 2021

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

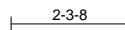
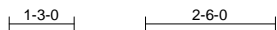


818 Soundside Road
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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 4 Walker Rd. | E16494826 |
| J0122-0301 | F4 | Floor | 4 | 1 | Job Reference (optional) | |

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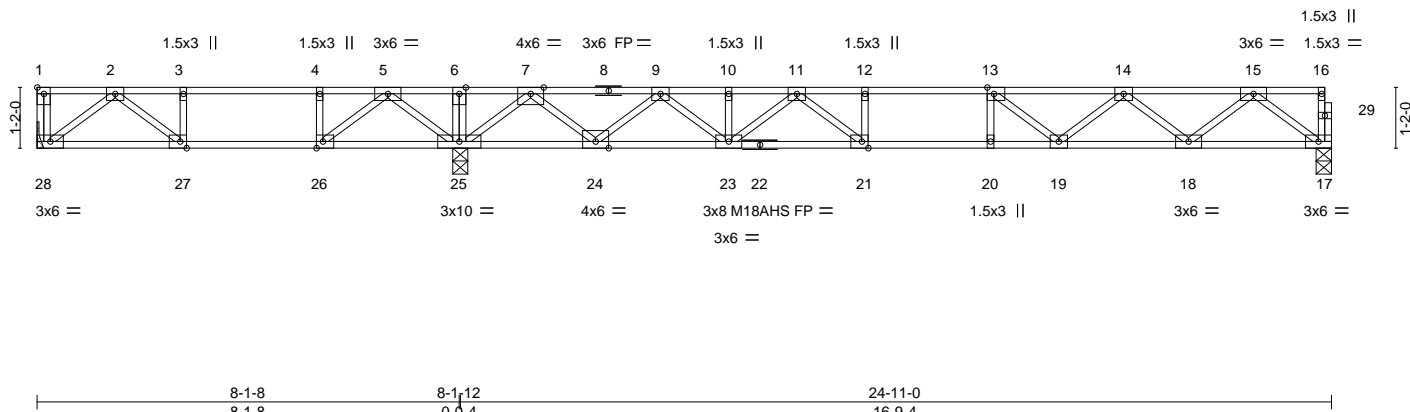


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [13:0-1-8,Edge], [21:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.85 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.86 | Vert(LL) -0.21 21-23 >960 480 | M18AHS | 186/179 |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.54 | Vert(CT) -0.28 21-23 >717 360 | | |
| BCDL 5.0 | Rep Stress Incr NO | Matrix-S | Horz(CT) 0.05 17 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 123 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 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 (flat) | |

REACTIONS. (size) 28=Mechanical, 25=0-3-8, 17=0-3-8
Max Grav 28=1890(LC 3), 25=1573(LC 1), 17=851(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-28=-1554/0, 2-3=-611/299, 3-4=-611/299, 4-5=-611/299, 5-6=0/1225, 6-7=0/1225, 7-9=-1115/0, 9-10=-2489/0, 10-11=-2489/0, 11-12=-3160/0, 12-13=-3160/0, 13-14=-2795/0, 14-15=-1764/0
BOT CHORD 27-28=-60/417, 26-27=-299/611, 25-26=-734/169, 24-25=-45/267, 23-24=0/1921, 21-23=0/2903, 20-21=0/3160, 19-20=0/3160, 18-19=0/2434, 17-18=0/1060
WEBS 2-28=-523/75, 2-27=-306/248, 5-25=-821/0, 5-26=0/874, 7-25=-1526/0, 7-24=0/1130, 9-24=-1078/0, 9-23=0/756, 11-23=-561/0, 11-21=0/630, 12-21=-279/0, 15-17=-1326/0, 4-26=-428/0, 15-18=0/917, 14-18=-871/0, 14-19=0/501, 13-19=-603/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Refer to girder(s) for truss to truss connections.
 - 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.

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 17-28=-10, 1-16=-100
 Concentrated Loads (lb)
 Vert: 1=-1500

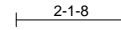
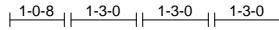


December 22, 2021

| | | | | | | |
|-------------------|--------------|----------------------------|----------|----------|--|-----------|
| Job J0122-0301 | Truss F4A | Truss Type Floor Girder | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16494827 |
|-------------------|--------------|----------------------------|----------|----------|--|-----------|

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 08:50:26 2021 Page 1
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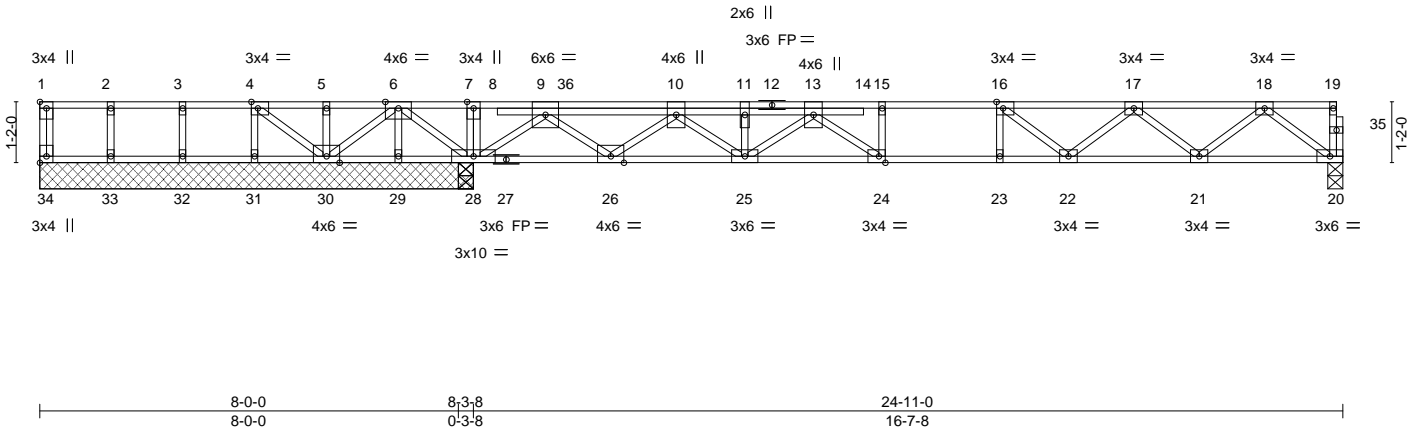


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [16:0-1-8,Edge], [24:0-1-8,Edge], [34:Edge,0-1-8]

| | | | | | | | | |
|----------------------|----------------------|-------------|--------------|-------------|--------|-----|----------------|-----------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | 2-0-0 | TC 0.73 | Vert(LL) | -0.16 22-23 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.85 | Vert(CT) | -0.23 22-23 | >879 | 360 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.61 | Horz(CT) | 0.03 20 | n/a | n/a | | |
| BCDL 5.0 | Rep Stress Incr NO | Matrix-S | | | | | Weight: 135 lb | FT = 20%F, 11%E |
| | Code IRC2015/TPI2014 | | | | | | | |

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. Except: 6-0-0 oc bracing: 29-30,28-29,26-28.

REACTIONS.

All bearings 8-3-8 except (jt=length) 20=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 29=-517(LC 4), 30=-329(LC 4), 31=-226(LC 4)
Max Grav All reactions 250 lb or less at joint(s) 34, 30, 31, 32, 33 except 28=2735(LC 1), 28=2735(LC 1), 20=764(LC 4)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=0/366, 5-6=0/366, 6-7=0/2801, 7-9=0/2801, 9-10=-252/176, 10-11=-1711/0, 11-13=-1711/0, 13-15=-2538/0, 15-16=-2538/0, 16-17=-2364/0, 17-18=-1549/0
BOT CHORD 29-30=-1208/0, 28-29=-1208/0, 26-28=-1059/0, 25-26=0/1024, 24-25=0/2192, 23-24=0/2538, 22-23=0/2538, 21-22=0/2127, 20-21=0/941
WEBS 6-28=-1978/0, 6-29=0/507, 6-30=0/1075, 4-30=-459/0, 9-28=-2246/0, 9-26=0/1290, 10-26=-1254/0, 10-25=0/857, 13-25=-601/0, 13-24=0/588, 18-20=-1177/0, 18-21=0/791, 17-21=-753/0, 17-22=0/364, 16-22=-390/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 517 lb uplift at joint 29, 329 lb uplift at joint 30 and 226 lb uplift at joint 31.
- 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) 491 lb down at 10-0-12 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: 20-34=-10, 1-19=-100
Concentrated Loads (lb)
Vert: 36=-411(B)



December 22, 2021

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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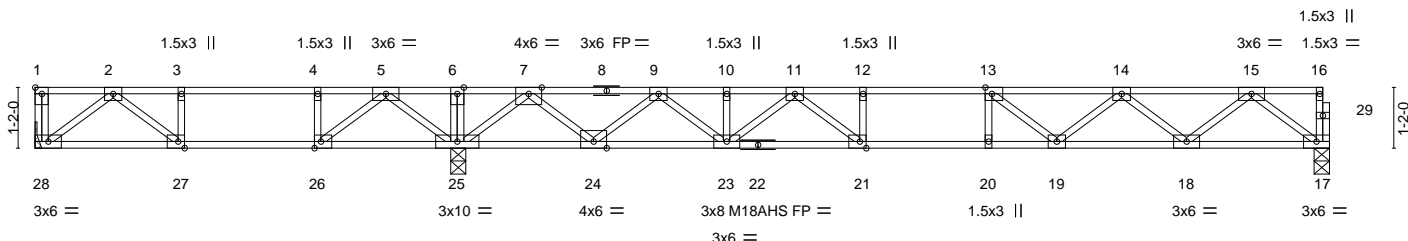
| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 4 Walker Rd. | E16494828 |
| J0122-0301 | F5 | Floor | 6 | 1 | Job Reference (optional) | |

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Scale = 1:41.7



| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [1:Edge,0-1-8], [13:0-1-8,Edge], [21:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge] |
|-----------------------|--|

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.73 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.78 | Vert(LL) -0.21 21-23 >960 480 | M18AHS | 186/179 |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.54 | Vert(CT) -0.28 21-23 >717 360 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.05 17 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 123 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 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 (flat) | |

REACTIONS. (size) 28=Mechanical, 25=0-3-8, 17=0-3-8
Max Uplift 28=-16(LC 4)
Max Grav 28=391(LC 3), 25=1573(LC 1), 17=851(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-611/299, 3-4=-611/299, 4-5=-611/299, 5-6=0/1225, 6-7=0/1225, 7-9=-1115/0, 9-10=-2489/0, 10-11=-2489/0, 11-12=-3160/0, 12-13=-3160/0, 13-14=-2795/0, 14-15=-1764/0
BOT CHORD 27-28=-60/416, 26-27=-299/611, 25-26=-734/170, 24-25=-45/267, 23-24=0/1921, 21-23=0/2903, 20-21=0/3160, 19-20=0/3160, 18-19=0/2434, 17-18=0/1060
WEBS 2-28=-521/76, 2-27=-305/250, 5-25=-821/0, 15-17=-1327/0, 15-18=0/917, 14-18=-871/0, 14-19=0/501, 13-19=-603/0, 7-25=-1526/0, 7-24=0/1130, 5-26=0/874, 4-26=-428/0, 9-24=-1078/0, 9-23=0/756, 11-23=-561/0, 11-21=0/630, 12-21=-279/0

- 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 28.
 - 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.



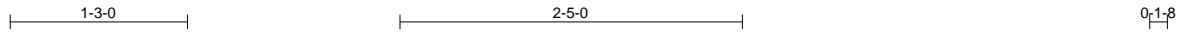
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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J0122-0301 | Truss F6 | Truss Type Floor | Qty 2 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16494829 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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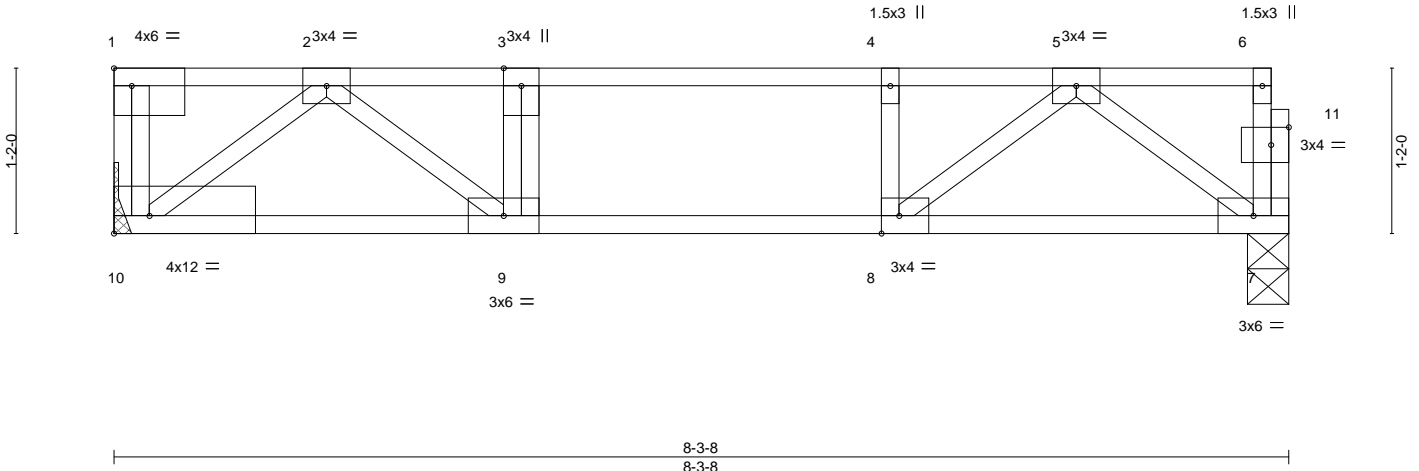


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [10:Edge,0-1-8], [11:0-1-8,0-1-8]

| 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 0.42 | Vert(LL) | -0.04 | 9-10 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.27 | Vert(CT) | -0.05 | 9-10 | >999 | 360 | | |
| BCLL 0.0 | Rep Stress Incr | NO | WB 0.22 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 43 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) 10=Mechanical, 7=0-3-8
Max Grav 10=4092(LC 1), 7=436(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-3709/0, 2-3=-810/0, 3-4=-810/0, 4-5=-810/0
BOT CHORD 9-10=0/489, 8-9=0/810, 7-8=0/485
WEBS 2-10=-614/0, 2-9=0/451, 5-7=-604/0, 5-8=0/460

- 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.
 - 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.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 1=-3650



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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J0122-0301 | Truss F7 | Truss Type FLOOR | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16494830 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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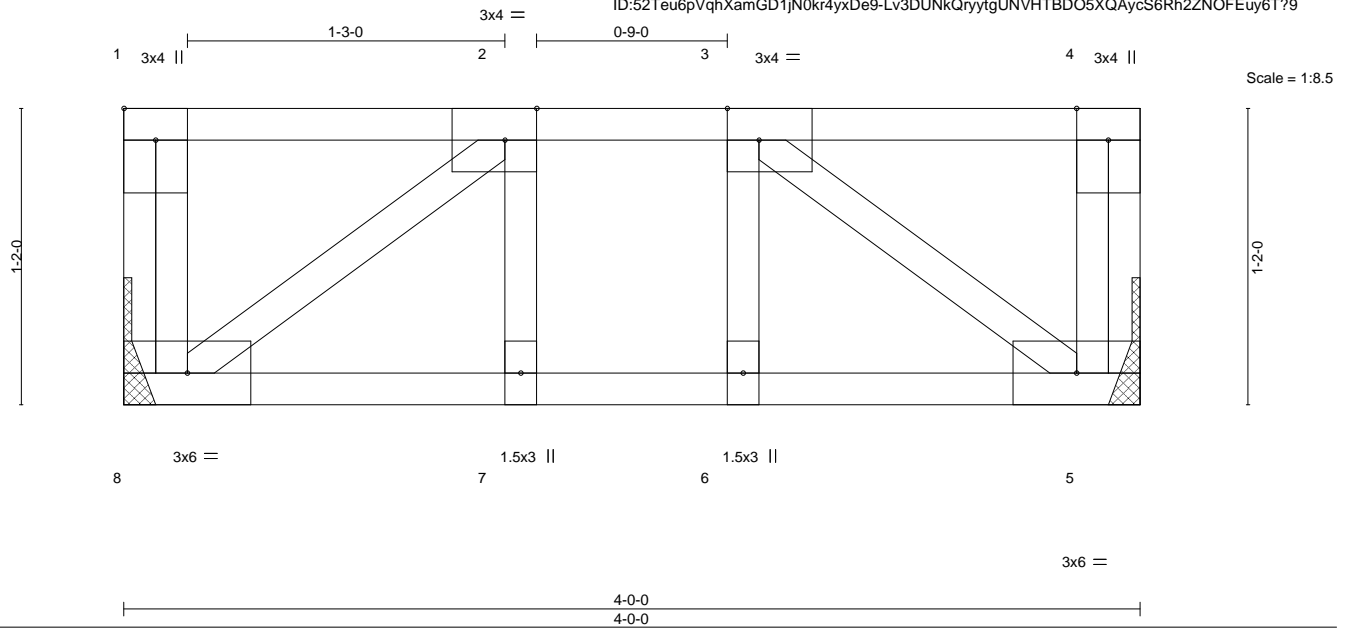


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|---------------------------|---------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.09 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.06 | Vert(LL) -0.00 7 >999 480 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.06 | Vert(CT) -0.00 7 >999 360 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 5 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 25 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 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=Mechanical, 5=Mechanical
 Max Grav 8=206(LC 1), 5=206(LC 1)

FORCES.

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

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.



December 22, 2021

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

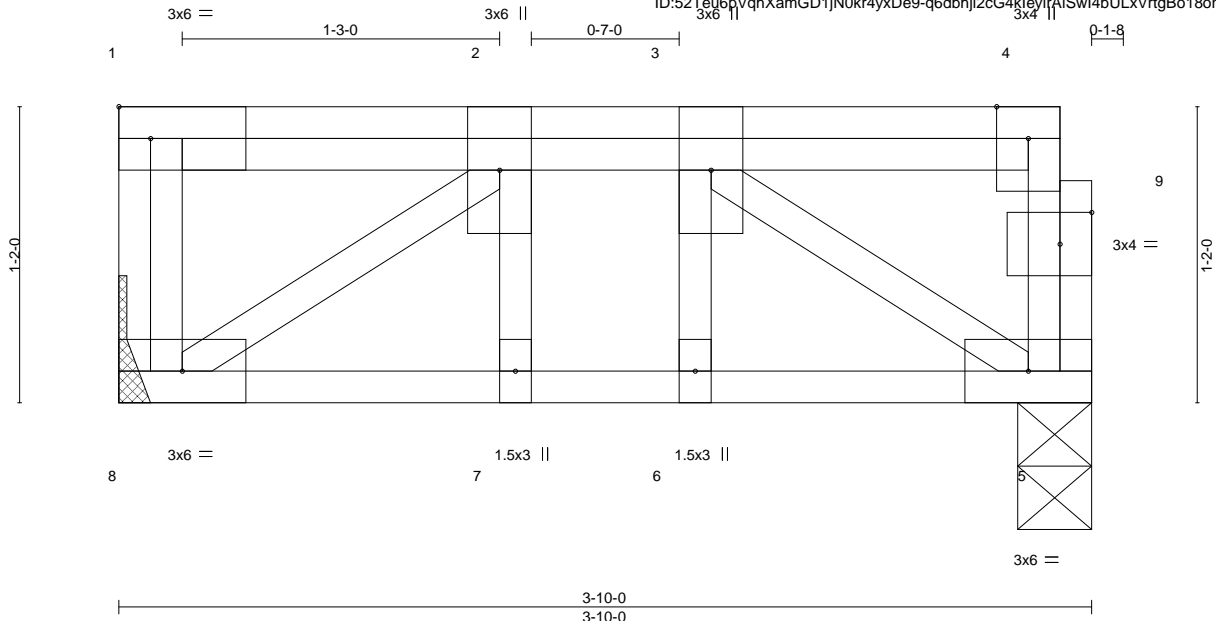


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|--------------|----------------------------|----------|----------|--|-----------|
| Job J0122-0301 | Truss FG1 | Truss Type Floor Girder | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16494831 |
|-------------------|--------------|----------------------------|----------|----------|--|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 08:50:29 2021 Page 1
ID:52T6u6VqhXamGD1jN0kr4yxDe9-q6dbhl2cG4kleyirAiSwl4bULxVrtgBo18onKy6T?8



Scale = 1:8.5

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.06 | Vert(LL) -0.00 | 7 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.08 | Vert(CT) -0.00 | 7 | >999 | 360 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.07 | Horz(CT) 0.00 | 5 | n/a | n/a | | |
| BCDL 5.0 | Rep Stress Incr NO | Matrix-S | | | | | Weight: 28 lb | FT = 20%F, 11%E |
| | Code IRC2015/TPI2014 | | | | | | | |

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 3-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=Mechanical, 5=0-3-8
Max Grav 8=261(LC 1), 5=234(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-257/0
BOT CHORD 7-8=0/257, 6-7=0/257, 5-6=0/257
WEBS 3-5=-307/0, 2-8=-311/0

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.
- 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) 135 lb down at 1-10-4 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: 2=-106(F)



December 22, 2021

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

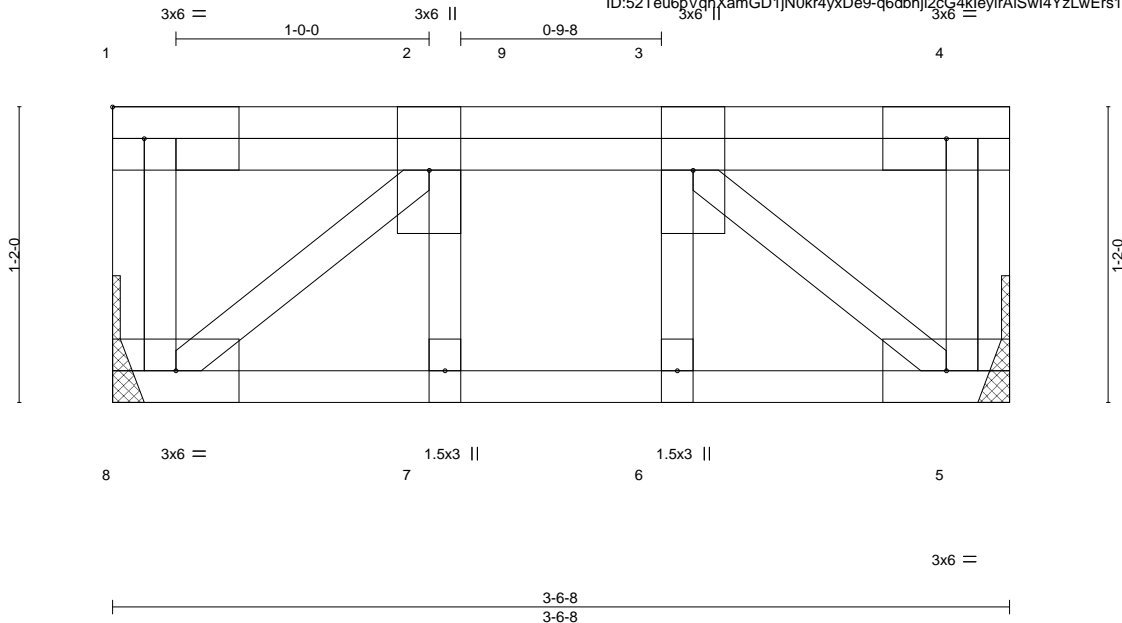


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|--------------|----------------------------|----------|----------|--|-----------|
| Job J0122-0301 | Truss FG2 | Truss Type Floor Girder | Qty 1 | Ply 1 | Lot 4 Walker Rd. Job Reference (optional) | E16494832 |
|-------------------|--------------|----------------------------|----------|----------|--|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 22 08:50:29 2021 Page 1
ID:52Teu6pVghXamGD1jN0kr4yxDe9-q6dbhj2cG4kleyirAiSwl4YzLwErs1Bo18onKy6T78



Scale = 1:8.6

| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|---------------|-----------------|
| 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 0.22 | Vert(LL) -0.00 7 >999 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.16 | Vert(CT) -0.01 7 >999 360 | | |
| BCLL 0.0 | Rep Stress Incr NO | WB 0.18 | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 27 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 3-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=Mechanical, 5=Mechanical
Max Grav 8=546(LC 1), 5=511(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-590/0
BOT CHORD 7-8=0/590, 6-7=0/590, 5-6=0/590
WEBS 2-8=-765/0, 3-5=-765/0

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 720 lb down at 1-8-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + 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: 9=-695(B)



December 22, 2021

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

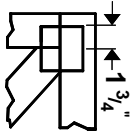
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



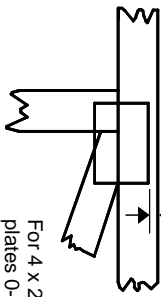
818 Soundside Road
Edenton, NC 27932

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.

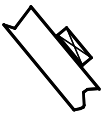
* Plate location details available in **MITek 20/20** software or upon request.

PLATE SIZE

4 X 4

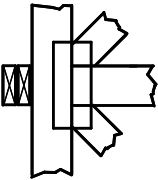
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



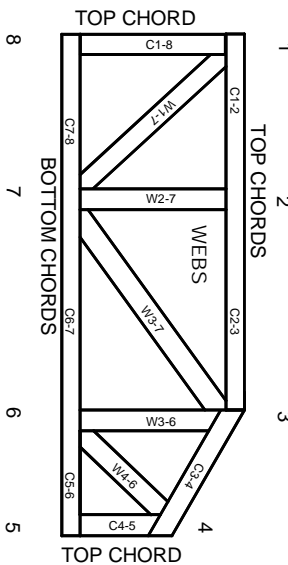
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: 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

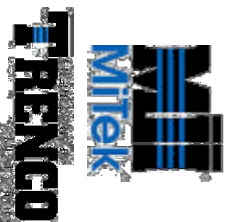
ICC-ES Reports:

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.
- Top chords must be sheathed 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.



ROOF & FLOOR TRUSSES & BEAMS

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

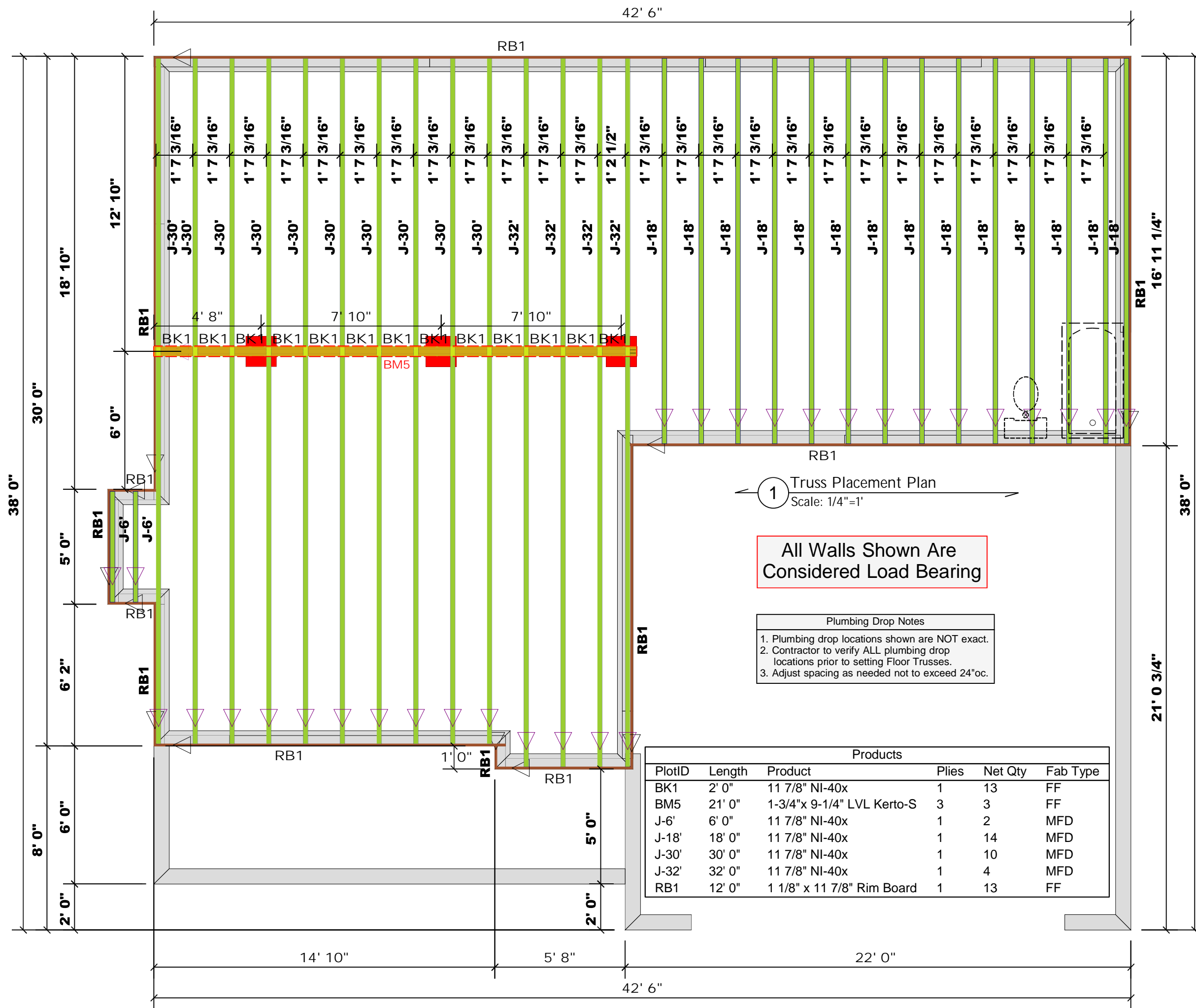
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions 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

LOAD CHART FOR JACK STUDS

(BASED ON TABLE ROOF/FL: 6 (B))

| EUB REACTION (UP/TON) | REQ'D STUDS PER 12'X12' HEADER | NUMBER OF JACK STUDS REQUIRED BY EACH END OF HEADERS/HEADER | |
|-----------------------|--------------------------------|---|--------------------------------|
| | | REQ'D STUDS PER 12'X12' HEADER | REQ'D STUDS PER 12'X12' HEADER |
| 1700 | 1 | 2550 | 3400 |
| 2400 | 2 | 5100 | 6800 |
| 3100 | 3 | 7650 | 10200 |
| 3800 | 4 | 10200 | 13600 |
| 4500 | 5 | 12750 | 17000 |
| 5200 | 6 | 15300 | |
| 5900 | 7 | | |
| 6600 | 8 | | |
| 7300 | 9 | | |



| | | | |
|-----------|-----------------------|-----------|-----------------------|
| BUILDER | Ben Stout Real Estate | COUNTY | Linden / Harnett |
| JOB NAME | Lot 4 Walker Rd. | ADDRESS | 708 Walker Road |
| PLAN | The Fawbrook | MODEL | I - Joists Over Crawl |
| SEAL DATE | N/A | DATE REV. | 03/18/22 |
| QUOTE # | | DRAWN BY | David Landry |
| JOB # | J0322-1390 | SALESMAN | Marshall Naylor |

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 BCS-81 and BCS-83 provided with the truss delivery package or online @ sbcindustry.com