

Trenco

818 Soundside Rd Edenton, NC 27932

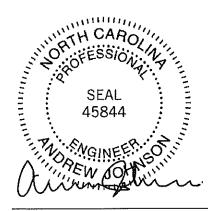
Re: J1022-5104

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

Pages or sheets covered by this seal: I54670565 thru I54670591

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

North Carolina COA: C-0844



October 12,2022

Johnson, Andrew

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

Job Truss Truss Type Qty Ply 154670565 .11022-5104 A1 Roof Special Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:11 2022 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:3B2IIiU9aTYR6OtFvgEVAlyq8tk-9SWmdv8SU2W?YC_fc54PmO0qL9_LKIIcgy5b32yUDcU 15-4-5 Scale = 1:68.5 4x4 = 8.00 12 9 10 3x4 🛷 12 4x6 > 13 5 14 15 16 22 21 20 31 4x4 = 4x6 == 30 29 28 27 26 25 24 23 19 33 34 35 3x10 // 3x4 4.00 12 3x4 =29-0-0 11-2-0 16-9-8 6-4-0 [13:0-3-0,Edge], [17:0-3-11,0-9-1], [17:0-0-12,0-1-12], [21:0-3-0,0-0-0], [25:0-2-0,0-0-11], [29:0-2-0,0-0-11], [32:0-2-8,0-0-0] Plate Offsets (X,Y)--L/d **PLATES** GRIP LOADING (psf) DEFL SPACING-2-0-0 CSI in I/defl 244/190 MT20 120 0.00 TCLL Plate Grip DOL 1.15 TC 0.08 Vert(LL) 17 n/r 120 0.00 18 n/rTCDL 10.0 Lumber DOL 1.15 BC 0.07 Vert(CT) BCLL 0.0 Rep Stress Incr YES WB 0.25 Horz(CT) 0.01 17 n/a n/a FT = 20% Weight: 223 lb BCDL 10.0 Code IRC2015/TPI2014 Matrix-S BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x4 SP No.1 *Except* except end verticals. 13-18: 2x6 SP No.1 Rigid ceiling directly applied or 6-0-0 oc bracing. BOT CHORD BOT CHORD 2x4 SP No.1 *Except* 2x4 SPF No.2 - 9-27, 8-28, 10-26 WEBS T-Brace: 17-21: 2x6 SP No.1 Fasten (2X) T and I braces to narrow edge of web with 10d WERS 2x4 SP No.2 (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

OTHERS 2x4 SP No.2 WEDGE

Right: 2x4 SP No.2

REACTIONS. All bearings 29-0-0.

Max Horz 35=-318(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 29, 25, 17, 27, 28, 31, 33, 26, 24,

23, 22, 20 except 35=-137(LC 8), 32=-195(LC 9), 21=-134(LC 11), 30=-102(LC

12), 34=-158(LC 12), 19=-184(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 35, 29, 25, 21, 17, 28, 30, 31, 33, 34, 26, 24, 23, 22, 20 except 32=305(LC 19), 27=414(LC 12), 19=321(LC

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

TOP CHORD 6-7=-233/273, 7-8=-297/350, 8-9=-347/413, 9-10=-347/427, 10-11=-297/398,

11-12=-233/350, 12-14=-230/315, 14-15=-248/271, 15-16=-269/271, 16-17=-340/337 34-35=-293/319, 33-34=-284/312, 32-33=-289/313, 31-32=-287/310, 30-31=-287/311,

BOT CHORD 29-30=-284/311, 28-29=-267/291, 27-28=-267/291, 26-27=-267/291, 25-26=-267/291,

24-25=-282/310, 23-24=-287/311, 22-23=-288/310, 21-22=-285/307, 20-21=-276/300,

19-20=-292/310, 17-19=-286/312

WEBS 9-27=-389/248

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-6-9, Exterior(2) 4-6-9 to 13-7-11, Corner(3) 13-7-11 to 18-0-8, Exterior(2) 18-0-8 to 29-8-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.

Continued on page 2

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf 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.

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 provent collapse with possible personal highry and properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see

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



Brace must cover 90% of web length.



Job	Truss	Truss Type	Qty	Ply	L (54670565
J1022-5104	A1	Roof Special	1	1	(346) 0303
		,		l	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:11 2022 Page 2 ID:3B2liiU9aTYR6OtFvgEVAlyq8tk-9SWmdv8SU2W?YC_fc54PmO0qL9_LKIlcgy5b32yUDcU

NOTES-

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 25, 17, 27, 28, 31, 33, 26, 24, 23, 22, 20 except (ji=lb) 35=137, 32=195, 21=134, 30=102, 34=158, 19=184.

 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 32, 21, 30, 31, 33, 34, 24, 23, 22, 20, 19.

 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Job Truss Truss Type Qty Ply . 154670566 J1022-5104 A2 Roof Special Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:12 2022 Page 1 Comtech, Inc. Fayetteville, NC - 28314, ID:3B2iliU9aTYR6OtFvgEVAiyq8ik-de48rF94FMesAMZsApceJbZv8ZDJ3eYlvcr8cVyUDcT 29-10-8 0-10-8 29-0-0 13-7-11 7-9-15 Scale = 1:66.6 4x6 || 8,00 12 3 18 5x8 🗸 4x6 < 3x4 < 4 5 11-0-14 19 3x10 🛷 16-9-1-11-12 8 11 5x5 = 8x12 = 2x4 == 10 20 21 2x4 = 4x4 = 5x5 = 12 3x10 // 5x5 == 2x4 4.00 12 22-8-0 16-7-12 5-9-12 11-2-0 5-10-8 [2:0-4-0,0-3-0], [4:0-3-0,Edge], [6:0-3-11,0-9-1], [6:0-0-12,0-1-12], [11:0-6-0,0-2-0] Plate Offsets (X,Y)--**PLATES** GRIP DEFI 1/dSPACING-2-0-0 CSI in (loc) I/defl LOADING (psf) 244/190 MT20 -0.129-10 >999 360 TCLL Plate Grip DOL 1.15 TC 0.45 Vert(LL) BC -0.16 >999 240 TCDL 10.0 Lumber DOL 1.15 0.47 Vert(CT) 9-10 0,0 Rep Stress Incr YES WB 0.70 Horz(CT) 0.03 6 nla n/a BCLL. FT = 20% Weight: 198 lb BCDL Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.02 11 >999 240 10.0 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x4 SP No.1 *Except* except end verticals. 4-7: 2x6 SP No.1 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. BOT CHORD 2x4 SP No.1 *Except* 1 Row at midpt WEBS 6-8: 2x6 SP No.1 WEBS 2x4 SP No.2 WEDGE Right: 2x4 SP No.2

(size) 12=0-5-8, 9=0-3-8, 6=0-5-8 REACTIONS.

Max Horz 12=-257(LC 8)

Max Uplift 12=-36(LC 12), 9=-38(LC 12), 6=-62(LC 13) Max Grav 12=569(LC 23), 9=1488(LC 19), 6=388(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-771/137, 2-3=-349/251, 3-5=0/414, 5-6=-425/39, 1-12=-559/157 TOP CHORD

11-12=-247/319, 10-11=-195/675, 6-8=0/294 BOT CHORD

WERS

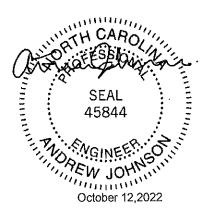
2-11=-67/405, 2-10=-693/217, 3-10=-128/609, 3-9=-1008/90, 5-9=-647/268, 5-8=0/311,

1-11=0/476

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 13-7-11, Exterior(2) 13-7-11 to 18-0-8, Interior(1) 18-0-8 to 29-8-15 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.
- 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Bearing at joint(s) 12, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 9, 6.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 (ev. 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/for 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/TPI Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



818 Soundside Road

Job Truss Truss Type Qty Ply 154670567 Roof Special .11022-5104 A3 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:14 2022 Page 1 Fayetteville, NC - 28314 Comtech, Inc. ID:3B2lliU9aTYR60tFvgEVAlyq8tk-Z1CvGxBKnzuaPfjEHDe600eFhMvnXXt2MwKFgNyUDcR 21-2-1 7-6-7 13-7-11 6-8-1 7-9-15 Scale = 1:66.1 4x6 | 3 8.00 12 5x8 🛷 4x6 💸 3x4 🛇 5 18 3x10 🗸 1-11-12 10 5x5 = 8x12 = 2x4 =20 9 2x4 = 3x4 < 11 2x4 || 5x5 = 3x10 // 5x5 = 4.00 12 11-2-0 5-9-12 16-7-12 16,9-8 5-5-12 6-4-0 [2:0-4-0,0-3-0], [4:0-3-0,Edge], [6:0-3-11,0-9-1], [6:0-0-9,0-1-4], [10:0-6-0,0-2-0] Plate Offsets (X,Y)--L/d PLATES GRIP DEFL. (loc) l/defl LOADING SPACING-2-0-0 CSI ín (psf) 244/190 MT20 -0.12>999 360 Vert(LL) 8-9 TCLL 20.0 Plate Grip DOL 1.15 TC 0.45 >999 BC Vert(CT) -0.16 8-9 240 TCDL 10.0 Lumber DOL 1.15 0.47 0.03 BCLL 0.0 Rep Stress Incr YES WR 0.71 Horz(CT) 6 n/a n/a FT = 20%10 >999 240 Weight: 196 lb BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.02 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x4 SP No.1 *Except* except end verticals. 4-6: 2x6 SP No.1 Rigid ceiling directly applied or 6-0-0 oc bracing BOT CHORD BOT CHORD 2x4 SP No.1 *Except* 2x4 SPF No.2 - 3-8 WEBS 6-7; 2x6 SP No.1 Fasten (2X) T and I braces to narrow edge of web with 10d WEBS 2x4 SP No.2 (0.131"x3") nalls, 6in o.c., with 3in minimum end distance. WEDGE Brace must cover 90% of web length.

Right: 2x4 SP No.2

(size) 11=0-5-8, 8=0-3-8, 6=0-5-8 REACTIONS.

Max Horz 11=-255(LC 8)

Max Uplift 11=-36(LC 12), 8=-39(LC 12), 6=-46(LC 13) Max Grav 11=569(LC 23), 8=1490(LC 19), 6=326(LC 24)

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

1-2=-770/136, 2-3=-346/249, 3-5=0/416, 5-6=-396/36, 1-11=-558/157 TOP CHORD

10-11=-247/317, 9-10=-197/672, 6-7=0/294 BOT CHORD

2-10=-68/404, 2-9=-692/218, 3-9=-129/609, 3-8=-1008/96, 5-8=-646/271, 5-7=0/314, WEBS

1-10=0/474

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 13-7-11, Exterior(2) 13-7-11 to 18-0-8, Interior(1) 18-0-8 to 28-9-4 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.
- 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Bearing at joint(s) 11, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 8, 6.
- 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

NORT 45844 JEM JOH, William Chin

October 12,2022

🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTE&C connectors. This design is based only upon parameters and reportly design brained and the second of the 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 designer. Because the prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and 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 localizes with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply 154670568 J1022-5104 Α4 Roof Special Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:15 2022 Page 1 Comtech, Inc. Fayetteville, NC - 28314, ID:3B2lliU9aTYR6OtFvgEVAlyq8lk-1DmHTGCyYH0R1plQrx9LwEBS_mFSGyECba3oCpyUDcQ 29-10-8 0-10-8 6-11-9 6-11-9 13-7-11 6-8-1 7-9-15 Scale = 1:66.6 6x8 || 8.00 12 А 3x4 // 18 4x6 🥠 4x6 🐟 3 2x4 || 2 6 19 4x6 🗸 6x8 II 9 23 2x4 =11 20 10 21 22 24 2x4 = 13 4x6 = 5x8 = 4x4 =4x4 = 8x8 = 5x8 == 2x4 == 4.00 12 29-0-0 21-2-1 5-9-12 10-0-1 7-9-15 Plate Offsets (X,Y)--[3:0-3-0,Edge], [7:0-6-0,0-0-1], [9:0-3-4,0-2-4] DEFL. PLATES GRIP 1/dSPACING-2-1-8 CSI. in (lac) 1/defl LOADING (psf) 244/190 MT20 TC BC -0.109-11 >999 360 TCLL Plate Grip DOL 1.15 0.29 Vert(LL) -0.19 >999 240 TCDL 10.0 Lumber DOL 1.15 0.50 Vert(CT) 9-11 **BCLL** 0,0 Rep Stress Incr NO WB 0.89 Horz(CT) 0.06 n/a n/a FT = 20% 240 Weight: 248 lb BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.04 7-9 >999 BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, TOP CHORD 2x6 SP No.1 except end verticals. BOT CHORD 2x6 SP No.1 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.2 *Except* 9-11: 2x6 SP No.1 REACTIONS. (size) 13=0-5-8, 7=0-5-8 Max Horz 13=-270(LC 8)

Max Grav 13=1409(LC 19), 7=1586(LC 20)

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

TOP CHORD 1-2=-2432/163, 2-4=-1595/267, 4-6=-2342/401, 6-7=-2333/151, 1-13=-1424/173

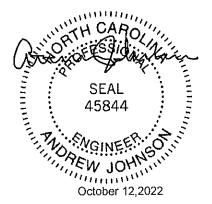
BOT CHORD 12-13=-251/338, 11-12=0/1984, 9-11=0/1167, 7-9=0/1798

WEBS 2-12=0/807, 2-11=-965/237, 4-11=0/758, 6-9=-557/382, 1-12=0/1829, 4-9=-217/1366

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 13-7-11, Exterior(2) 13-7-11 to 18-0-8, Interior(1) 18-0-8 to 29-8-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 15-0-0 from left end, supported at two points, 5-0-0 apart.
- 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



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

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Job Truss Truss Type Qty Ply 154670569 J1022-5104 Α5 Common Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:16 2022 Page 1 ID:3B2IIiU9aTYR6OtFvgEVAlyq8tk-VQKfgcCbJb8HfztdPegaTRkVcAZX?UnLqEpMIGyUDcP Comtech, Inc, Fayetteville, NC - 28314, 13-2-3 7-6-7 20-8-9 29-5-0 0-10-8 Scale = 1:65.4 4x6 || 8.00 12 3x4 / 4x6 < 4x6 🥢 5 2x4 // 2 2x4 || 23-7 6 9 23 24 10 2122 18 11 20 3x4 = 12 4x4 = 13 4x6 = 4x4 | | |5x8 = 5x8 == 4v4 === 4x8 = 28_6_8 8-2-3 5-0-0 5-0-0 10-4-5 Plate Offsets (X,Y)-- [5:0-3-0,Edge], [7:0-0-0,0-0-3], [9:0-3-8,0-2-4], [11:0-4-0,0-2-4] CSI. DEFL. I/defi L/d PLATES GRIP SPACING-LOADING (psf) 2-0-0 in (loc) 244/190 Vert(LL) 7-9 >999 360 MT20 Plate Grip DOL 0.81 -0.09 TOLL 20.0 1,15 TC BC >999 240 0.64 Vert(CT) -0.177-9 TCDL 10.0 Lumber DOL 1 15 0.03 n/a **BCLL** ១០ Rep Stress Incr NΩ WB 0.56 Horz(CT) n/a Weight: 217 lb FT = 20%Code IRC2015/TPI2014 Wind(LL) 0.03 7-9 >999 BCDL 10.0 Matrix-S LUMBER-BRACING-2x4 SP No.1 *Except* TOP CHORD Structural wood sheathing directly applied, except end verticals. TOP CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 5-8: 2x6 SP No.1 2x4 SPF No.2 - 2-12 BOT CHORD 2x6 SP No.1 WEBS Fasten (2X) T and I braces to narrow edge of web with 10d 2x4 SP No.2 *Except* WEBS (0.131"x3") nails, 6in o.c., with 3in minimum end distance. 9-11: 2x6 SP No.1 Brace must cover 90% of web length. REACTIONS. (size) 12=Mechanical, 7=0-5-8 Max Horz 12=-256(LC 8) Max Grav 12=1473(LC 19), 7=1504(LC 20)

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

TOP CHORD

2-4=-1671/243, 4-6=-1957/266, 6-7=-2091/173 11-12=0/1419, 9-11=0/1110, 7-9=-25/1620

BOT CHORD 11-12=0/1419, 9-11=0/1110, 7-9=-25/ WEBS 2-11=-161/266, 4-11=-10/675, 4-9=-6

WEBS 2-11=-161/266, 4-11=-10/675, 4-9=-67/1175, 6-9=-482/323, 2-12=-1709/61

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. It; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 13-2-3, Exterior(2) 13-2-3 to 17-7-0, Interior(1) 17-7-0 to 29-3-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 13-0-0 from left end, supported at two points, 5-0-0 apart.
- 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-60, 7-13=-20

Concentrated Loads (lb)

Vert: 20=-100 21=-100



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

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Job Truss Truss Type Qty Ply L 154670570 COMMON .11022-5104 Α6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:17 2022 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3B2IiiU9aTYR6OtFvgEVAlyq8tk-_ct1uyDD4uH8G7SpyMBp0fGmRaxukuWV2uYvHiyUDcO 2-3 19-8-0 6-8-13 6-5-13 Scale = 1:67.7 5x8 == 8.00 12 14 15 _{3x4} || 5x8 4 11-0-14 2x4 2-3-7 ---0 19 20 _{3x4 ||} 76 16 17 9 18 8 10 4x6 =11 5x8 5x8 = 4x6 = 6x12 = 4x6 =3x4 || 9-0-0 10-8-0 Plate Offsets (X,Y)-- [2:0-4-0,0-3-0], [9:0-3-12,0-2-4] L/d **PLATES** GRIP DEEL. I/defl LOADING (psf) SPACING-2-0-0 CSI. in (loc) 244/190 >999 MT20 -0.08360 TCLL 20.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) 7-9 BC -0.147-9 >999 240 TCDL 10.0 Lumber DOL 1.15 0.50 Verl(CT) **BCLL** 0.0 Rep Stress Incr YES WB 0.72 Horz(CT) 0.01 n/a n/a

LUMBER-

BCDL

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

10,0

WEBS 2x4 SP No.2 *Except*

7-9: 2x6 SP No.1

Wind(LL)
BRACING-

TOP CHORD

0.01

9 >999

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

240

T-Brace: 2x4 SPF No.2 - 2-10, 3-7

Fasten (2X) T and I braces to narrow edge of web with 10d

Structural wood sheathing directly applied or 5-9-8 oc purlins,

(0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

REACTIONS.

(size) 10=Mechanical, 7=Mechanical

Code IRC2015/TPI2014

Max Horz 10=198(LC 9)

Max Grav 10=1032(LC 19), 7=1197(LC 19)

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

TOP CHORD 2-3=-1053/168, 4-7=-258/186

BOT CHORD 9-10=-129/933, 7-9=-23/467

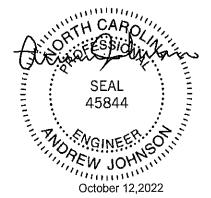
2-9=-319/285, 3-9=0/1032, 2-10=-1026/0, 3-7=-874/23

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, interior(1) 4-8-1 to 13-2-3, Exterior(2) 13-2-3 to 17-7-0, Interior(1) 17-7-0 to 19-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) 200.0lb AC unit load placed on the bottom chord, 13-0-0 from left end, supported at two points, 5-0-0 apart.
- 4) 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



FT = 20%

Weight: 173 lb

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job Truss Truss Type Qty Ply 154670571 COMMON Α7 .11022-5104 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:18 2022 Page 1 Comtech, inc. Fayetteville, NC - 28314, ID:3B2liiU9aTYR6OtFvgEVAlyq8tk-SoRQ5lErrCP?uH1?W3j2YspxAzEITOheHYITp8yUDcN 6-8-13 6-5-13

> 5x8 = 3 8.00 12 15 3x4 || 5x8 🗸 2x4 8 19 17 9 18 16 76 10 11 3x4 = 6x6 = 4x6 = 4x6 =

LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) i/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) -0.28 7-9 >814 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.66 Vert(CT) -0.36 7-9 >632 240 DOLL 10.0 TCDL 10.0 TC	Plate Offsets (X,Y)	[2:0-4-0,0-3-0]			
	TCLL 20.0 TCDL 10.0 BCLL 0.0 *	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.42 BC 0.66 WB 0.53	Vert(LL) -0.28 7-9 >814 360 Vert(CT) -0.36 7-9 >632 240 Horz(CT) 0.01 7 n/a n/a	MT20 244/190

BRACING-TOP CHORD

BOT CHORD

WEBS

19-8-0

10-8-0

except end verticals.

1 Row at midpt

Structural wood sheathing directly applied or 6-0-0 oc purlins,

2-10, 3-7

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

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

REACTIONS.

(size) 10=Mechanical, 7=Mechanical

Max Horz 10=198(LC 9)

Max Uplift 10=-13(LC 12), 7=-71(LC 12) Max Grav 10=965(LC 19), 7=1075(LC 19)

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

TOP CHORD 2-3=-960/265, 4-7=-258/185

BOT CHORD 9-10=-195/850, 7-9=-59/430

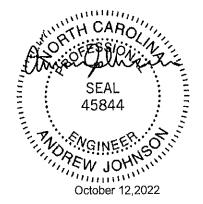
2-9=-345/267, 3-9=-112/918, 2-10=-947/37, 3-7=-795/96 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 13-2-3, Exterior(2) 13-2-3 to 17-7-0, Interior(1) 17-7-0 to 19-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

9-0-0 9-0-0

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.



Scale = 1:65.4

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



Job Truss Truss Type Qty Ply 154670572 **GABLE** .11022-5104 48 Job Reference (optional) 8.430 s Jan 6 2022 MiTek industries, Inc. Wed Oct 12 07:43:19 2022 Page 1 Fayetteville, NC - 28314, Comtech, Inc.

1D:3B2HiU9aTYR6OtFvgEVAlyq8tk-w??oJeFTcWXsWRbC4nEH53M7FNdqCxenWC20LbyUDcM 19-8-0 13-2-3

3x4 =

Scale = 1:66.4

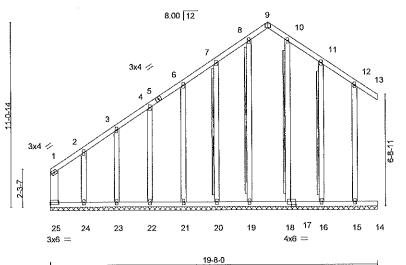


Plate Offsets (X,Y)--[9:0-2-0,Edge], [17:0-3-0,0-1-4] PLATES GRIP DEFL. LOADING (psf) SPACING-2-0-0 CSL in (loc) I/defl 1/d 244/190 -0.01 120 MT20 TCLL 20.0 Plate Grip DOL 1.15 TC 0.34 Vert(LL) n/r ВÇ -0.01 12-13 120 TCDL 10.0 Lumber DOL 1.15 0.41 Ved(CT) n/r **BCLL** 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.00 n/a n/a Weight: 164 lb FT = 20% BCDL 10.0 Code IRC2015/TPI2014 Matrix-S

19-8-0

LUMBER-

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

BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 8-19, 7-20, 10-18, 11-16 T-Brace:

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 19-8-0,

Max Horz 25=295(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 19, 21, 23, 15 except 25=-401(LC 10), 20=-111(LC 12), 22=-116(LC 12), 24=-618(LC 12), 16=-115(LC 13) All reactions 250 lb or less at joint(s) 20, 21, 22, 23, 16, 15 except Max Grav 25=599(LC 12), 19=308(LC 19), 24=508(LC 10), 18=261(LC 22)

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

TOP CHORD

1-25=-352/247, 1-2=-441/333

2-24=-325/350 WEBS

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 4-7-9, Exterior(2) 4-7-9 to 13-2-3, Corner(3) 13-2-3 to 17-7-0, Exterior(2) 17-7-0 to 19-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 21, 23, 15 except (jt=lb) 25=401, 20=111, 22=116, 24=618, 16=115.
- 10) Non Standard bearing condition. Review required.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. 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 properly amange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ansi/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



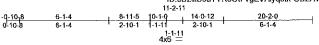
Job Truss Truss Type Qty Ply 154670573 J1022-5104 R1 ATTIC Job Reference (optional)

Comtech Inc. Fayetteville, NC - 28314,

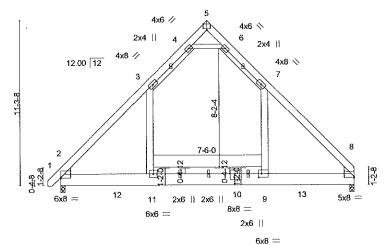
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:20 2022 Page 1 ID:3B2lliU9aTYR6OtFvgEVAlyq8tk-OBZAW_F5Npfj7aAOeUlWdHu9Dny5xPmxlsnZu1yUDcL

Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



Scale = 1:76.0



14-0-12 20-2-0 6-1-4 6-1-4

Plate Offsets (X,Y) [2:0-0-0,0-0-12], [5:0-3-0,Edge], [8:0-0	i-0,0-1-0], [9:0-2-8,0-3-0], [1	[0;0-4-0,0-5-0]	***************************************
LOADING (psf) SPACING- 2-0-0 TCLL 20.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 Rep Stress Incr YES BCDL 10.0 Code IRC2015/TPI2014	CSI. TC 0.90 BC 0.47 WB 0.11 Matrix-S	DEFL. in (loc) l/defl L/d PLATES GRIF Vert(LL) -0.15 9-11 >999 360 MT20 244/ Vert(CT) -0.27 9-11 >874 240 40	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x10 SP No.1

WEBS 2x6 SP No.1 *Except*

4-6: 2x4 SP No.1, 3-4,6-7: 2x4 SP No.2

WEDGE

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

REACTIONS.

(size) 2=0-3-8, 8=0-3-8

Max Horz 2=322(LC 9)

Max Grav 2=1362(LC 20), 8=1323(LC 20)

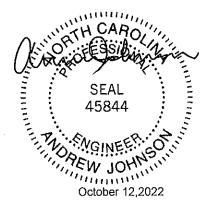
FORCES. (lb) - Max. Comp./Max. Ten. - Ali forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1649/28, 3-4=-838/167, 4-5=-135/658, 5-6=-128/652, 6-7=-847/173, 7-8=-1623/20

2-11=0/977, 9-11=0/977, 8-9=0/977 BOT CHORD

4-6=-1763/444, 3-11=-27/760, 7-9=-33/716 WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vuit=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-14 to 3-7-15, Exterior(2) 3-7-15 to 10-1-0, Corner(3) 10-1-0 to 14-5-13, Exterior(2) 14-5-13 to 20-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-11, 7-9
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- 7) Attic room checked for L/360 deflection.



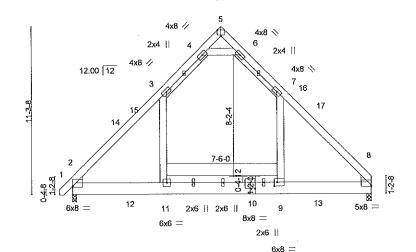
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



	•						
Job	Truss	Truss Type			Qty	Ply	1 154670574
J1022-5104	B2	ATTIC			2	1	194070574
			-15.000000				Job Reference (optional)
Comtech, Inc, Fayett	eville, NC - 28314,			ID:3			n 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:22 2022 Page 1 gEVAlyq8tk-KahwxgHLvRvRNuKnlvn_ji_VHbeUPIJEC9GgyvyUDcJ
				11-1-11			
		-10-8 6-1-4 -10-8 6-1-4	9-0-5 2-11-1	10-1-0	14-0-12 2-11-1		<u>20-2-0</u> 6-1-4
				1-0-11 4x6 =			Scale = 1:74.6



6-1-4 [2:0-0-0,0-0-12], [5:0-3-0,Edge], [8:0-0-0,0-1-0], [9:0-2-8,0-3-0], [10:0-4-0,0-5-0] Plate Offsets (X,Y)--**PLATES** GRIP CSI. DEFL. l/defl L/d 2-0-0 (loc) LOADING (psf) SPACINGin 244/190 -0.16 >999 360 MT20 Vert(LL) 9-11 1.15 0.93 TCLL. 20.0 Plate Grip DOL TC вс Vert(CT) -0.28 >853 240 1.15 0.48 9-11 TCDI. 10.0 Lumber DOL WB Horz(CT) 0.01 n/a **BCLL** 0.0 Rep Stress incr YES 0.10 8 n/a Weight: 217 lb FT = 20% Wind(LL) 0.09 9-11 >999 240 BCDL 10.0 Code IRC2015/TPI2014 Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x10 SP No.1

2x6 SP No.1 *Except* WEBS

3-4,6-7: 2x4 SP No.2

WEDGE

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

REACTIONS.

(size) ,2=0-3-8, 8=0-3-8

Max Horz 2=258(LC 9)

Max Grav 2=1367(LC 20), 8=1328(LC 20)

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

2-3=-1626/0, 3-4=-835/140, 4-5=-127/715, 5-6=-113/709, 6-7=-844/149, 7-8=-1600/0 TOP CHORD

BOT CHORD 2-11=0/950, 9-11=0/950, 8-9=0/950

4-6=-1854/365, 3-11=0/753, 7-9=-0/714 WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 10-1-0, Exterior(2) 10-1-0 to 14-5-13, Interior(1) 14-5-13 to 20-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-11, 7-9
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- 7) Attic room checked for L/360 deflection.

William Control October 12,2022

Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

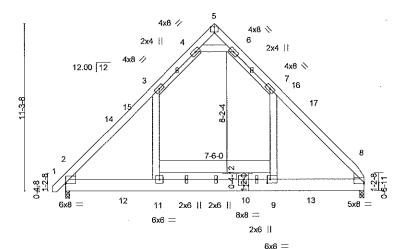
🛕 WARNING - Veifly design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 fruss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply 154670575 J1022-5104 ВЗ ATTIC Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:23 2022 Page 1 Comtech, Inc. Fayetleville, NC - 28314,

ID;382IIiU9aTYR6OtFvgEVAlyq8tk-omFJ90I_gk1I_2vzJctDFvWg0__j8lZNRp0DUMyUDcl -0-10₁8 0-10-8 4x6 =

Scale = 1:74.6



6-1-4 7-11-8

_ Plate Utt	sets (X,Y)	[2:0-0-0,0-0-12], [5:0-3-0	,Eage], [8:0-0	-0,0-1-0], [9:u	-2-8,0-3-0],	[10:0-4-0,0-5-0]						
LOADIN	** *	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0,16	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.28	9-11	>853	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.09	9-11	>999	240	Weight: 217 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x10 SP No.1

2x6 SP No.1 *Except* WEBS

3-4,6-7: 2x4 SP No.2

WEDGE

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

REACTIONS.

(size) 2=0-3-8, 8=0-3-8

Max Horz 2=258(LC 11)

Max Grav 2=1367(LC 20), 8=1328(LC 20)

FORCES. (ib) - Max, Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-1626/0, 3-4=-835/140, 4-5=-127/715, 5-6=-113/709, 6-7=-844/149, 7-8=-1600/0

BOT CHORD 2-11=0/950, 9-11=0/950, 8-9=0/950

WEBS 4-6=-1854/365, 3-11=0/753, 7-9=-0/714

NOTES-

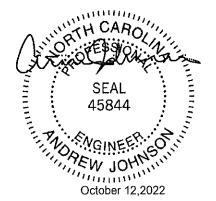
1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 10-1-0, Exterior(2) 10-1-0 to 14-5-13, Interior(1) 14-5-13 to 20-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-11, 7-9
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11

7) Attic room checked for L/360 deflection.



Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

MARNING - Venify 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 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qtv Ply 154670576 J1022-5104 C1 GABLE Job Reference (optional) 8,430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:24 2022 Page 1 Comtech, inc. Fayetteville, NC - 28314, ID:3B2lliU9aTYR6OtFvgEVAlyq8tk-GyohMLJcR299cCU9tKpSo733RORotCtXfTln1oyUDcH 9-0-8 17-2-8 18-1-0 0-10-8 -0-10-8 0-10-8 8-2-0 8-2-0 Scale = 1:56.4 5x5 = 7 12.00 12 9 22 21 10 4x4 💉 18 16 5x8 || 0.4-8 14 3x6 II 3x6 || -0-10-8 0-10-8 18-1-0 0-10-8 17-2-8 8-2-0 8-2-0 LOADING (psf) **PLATES** GRIP SPACING-CSI. DEFL. //defl L/d in (loc) 2-0-0 Vert(LL) MT20 244/190 Plate Grip DOL 1,15 TC 0.05 -0.00 12 120 TCLL 20.0 n/r 120 BC -0.00 12 0.04 Vert(CT) n/r TODE 10.0 Lumber DOL 1.15 WB 0.0 Rep Stress Incr YES 0.10 Horz(CT) 0.00 12 n/a n/a RCH Weight: 139 lb FT = 20%Code IRC2015/TPI2014 BCDL 10.0 Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 OTHERS

Left 2x4 SP No.2 1-10-3, Right 2x4 SP No.2 1-10-3 SLIDER

REACTIONS. All bearings 16-4-0. (lb) - Max Horz 2=267(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 12 except 2=-223(LC 8), 17=-101(LC 11), 18=-124(LC 12),

19=-125(LC 12), 20=-279(LC 12), 16=-115(LC 13), 15=-131(LC 13), 14=-258(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 12, 18, 19, 16, 15, 14 except 2=307(LC 20), 17=488(LC 13), 20=253(LC 19)

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

TOP CHORD

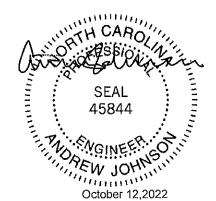
2-4=-288/233, 6-7=-247/254

WEBS 7-17=-263/200, 4-20=-244/266

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cal. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 8-2-0, Exterior(2) 8-2-0 to 12-6-13, Interior(1) 12-6-13 to 17-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOt.=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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 40,0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=223, 17=101, 18=124, 19=125, 20=279, 16=115, 15=131, 14=258.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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 AND INVLOCED MITER REPERCENCE PAGE MITERATE INVLOCED MITER AND INVLOCED MITER REPERCENCE PAGE MITERATE INVLOCED MITERATE INVLOCED MITER AND INVLOCED MITERATE INVOLUTION INVOLVED MITERATE INVO



Job Qty Truss Truss Type Ply 154670577 J1022-5104 C2 SCISSORS Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:25 2022 Page 1 ID:3B2IIiU9aTYR6OtFvgEVAlyq8ik-l8M3ZhJEBMH0EM3LQ1LhKKcAJojQceugu7VKZEyUDcG Fayetteville, NC - 28314, Comtech, Inc. 0-10-8 Scale = 1:56.3 5x5 = 4 12,00 12 4x4 // 4x4 N 5 4x4 📏 5x8 || 2x4 = 2x4 = 6.00 12 3x10 H 3x10 || 16-4-0 8-2-0 8-2-0 Plate Offsets (X,Y)-- [2:0-4-4,0-1-11], [6:0-4-4,0-1-11] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (ioc) i/defl L/d **PLATES GRIP** TCLL 20.0 Plate Grip DOL TC 0,30 Vert(LL) -0.04 6-8 >999 360 MT20 244/190 1.15 TODL 10.0 Lumber DOL 1,15 0.21 Vert(CT) -0.08 >999 240 BC 6-8

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.04

-0.03

6

8 >999

n/a

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Weight: 141 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

SLIDER

Left 2x6 SP No.1 5-10-1, Right 2x6 SP No.1 5-10-1

Rep Stress Incr

Code IRC2015/TPI2014

REACTIONS.

(size) 2=0-5-8, 6=0-5-8 Max Horz 2=213(LC 11)

Max Uplift 2=-28(LC 12), 6=-28(LC 13) Max Grav 2=694(LC 1), 6=694(LC 1)

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

TOP CHORD 2-4=-971/78, 4-6=-996/76 BOT CHORD 2-8=-50/744, 6-8=-38/734

WEBS 4-8=0/799

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 8-2-0, Exterior(2) 8-2-0 to 12-6-13, Interior(1) 12-6-13 to 17-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

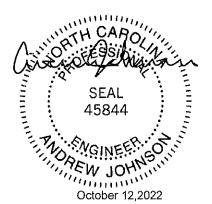
WB 0.18

Matrix-S

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 rev. 579/2020 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, praction and bracing of trusses and truss systems, see

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



Job Qty Truss Truss Type Ply 154670578 J1022-5104 СЗ Scissor Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:26 2022 Page 1 Comtech, Inc. Fayetleville, NC - 28314, ID:3B2liiU9aTYR6OtFvgEVAlyq8tk-DLwRn1KsyfPtsVeY_lswtY8L2C3aL56p7nEu5hyUDcF 8-2-0 8-2-0 Scale = 1:56.3 5x5 == 3 12.00 12 4x4 // 4x4 N 10 4x4 💉 5x8 || 2x4 =2x4 =1-2-0 1.20 6.00 12 3x10 || 3x10 || 16-4-0 8-2-0 Plate Offsets (X,Y)-- [1:0-2-15,0-1-11], [5:0-4-4,0-1-11] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP 2-0-0 in 244/190 20.0 Plate Grip DOL 1.15 0.30 Vert(LL) -0,04 5-6 >999 360 MT20 TCLL TC TCDL BC 0,21 Vert(CT) 80.0-5-6 >999 240 10.0 Lumber DOL 1.15 YES WB 0.18 Horz(CT) 0.05 5 BCLL 0.0 Rep Stress Incr n/a n/a Weight: 136 lb FT = 20% BCDL 10,0 Code IRC2015/TPI2014 Matrix-S Wind(LL) -0.03 6 >999

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

Left 2x6 SP No.1 5-10-1, Right 2x6 SP No.1 5-10-1 SLIDER

REACTIONS.

(size) 1=0-5-8, 5=0-5-8 Max Horz 1=-213(LC 10)

Max Uplift 1=-26(LC 13), 5=-26(LC 12) Max Grav 1=637(LC 1), 5=637(LC 1)

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

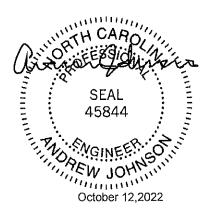
TOP CHORD 1-3=-978/85, 3-5=-1002/78 BOT CHORD 1-6=-51/749, 5-6=-39/740

WEBS 3-6=0/805

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ff; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-7 to 4-7-4, Interior(1) 4-7-4 to 8-2-0, Exterior(2) 8-2-0 to 12-6-13, Interior(1) 12-6-13 to 16-1-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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 MFTak® connectors. This design is based only upon parameters shown, and is for an individual bullding 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 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 collepse with possible personal injury and properly manage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply 154670579 J1022-5104 C4 Common Girder 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:28 2022 Page 1 ID:3B2liiU9aTYR6OIFvgEVAlyq8tk-9j2CCjM6UGfb5pnw6AuOyzDc9?dfpt66a5j_AZyUDcD Comtech, Inc. Fayetteville, NC - 28314, 8-2-0 Scale = 1:57.4 5x8 ||

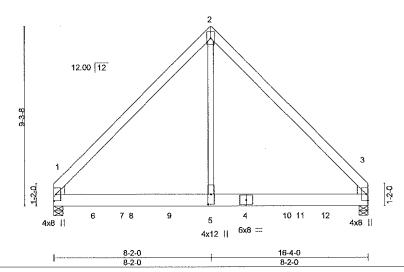


Plate Offsets (X,Y) {5:0-6	-4,0-2-0}	0-2-0		0-2-0	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.58 BC 0.75 WB 0.66 Matrix-S	DEFL. in Vert(LL) -0.10 Vert(CT) -0.18 Horz(CT) 0.01 Wind(LL) 0.06	(loc) I/defl L/d 3-5 >999 360 3-5 >999 240 3 n/a n/a 1-5 >999 240	PLATES GRIP MT20 244/190 Weight: 241 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No 1

2x8 SP 2400F 2.0E *Except* BOT CHORD

3-4: 2x8 SP No.1

WEBS

2x4 SP No.2

WEDGE

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

REACTIONS.

(size) 1=0-5-8, 3=0-5-8 Max Horz 1=209(LC 5)

Max Uplift 1=-149(LC 9)

Max Grav 1=4296(LC 2), 3=5493(LC 2)

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

TOP CHORD 1-2=-4066/48, 2-3=-4058/61 1-5=0/2685, 3-5=0/2685

BOT CHORD 2-5=0/5383 WEBS

- 1) 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: 2x8 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=149.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1002 lb down and 91 lb up at 2-0-12, 958 lb down and 91 lb up at 4-0-12, 942 lb down and 91 lb up at 8-0-12, 942 lb down and 91 lb up at 10-0-12, 1074 lb down at 12-0-12, and 1124 lb down at 14-0-12, and 1134 lb down at 16-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

45844 مرينسانين فيدار October 12,2022

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Continued on page 2

WARNING - Verily 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 methers only. Additional temporary and permanent bracing is always required for stability and to prevent outlings of individual truss web and/or chord methers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



818 Soundside Road

Job Truss Truss Type Qty Pty i ;	
J1022-5104 C4 Common Girder 1 2 Job Reference (optional)	4670579

Comtech, Inc.

Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:28 2022 Page 2 ID:3B2IIiU9aTYR6OIFvgEVAlyq8tk-9j2CCjM6UGlb5pnw6AuOyzDc9?dfpt66a5j_AZyUDcD

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 1-3=-20

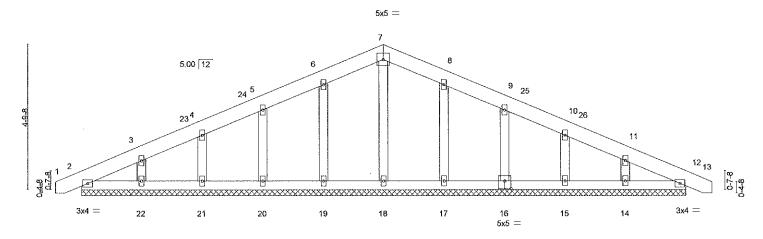
Concentrated Loads (lb)

Vert: 4=-770(B) 5=-770(B) 3=-913(B) 6=-770(B) 8=-770(B) 9=-770(B) 10=-903(B) 12=-903(B)



Job Qty Truss Truss Type Plv 154670580 J1022-5104 G1 COMMON SUPPORTED GAB Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:29 2022 Page 1 Comtech, Inc. ID:3B2#iU9aTYR6O1FvgEVAlyq8tk-dwcaP3MkFanRjzM7ftPdVAmwYP8CYU9GplTYiOyUDcC 0-10-8 0-10-8 21-9-0 0-10-8 10-0-0 10-0-0

Scale = 1:36.5



	-10-8 -10-8					20-10-8 20-0-0						 21-9-0 0-10-8
Plate Offse		[16:0-2-8,0-3-0]				20-0-0						0-10-0
LOADING TCLL TCDL BCLL	(psf) 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.03 0.02 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0,00 0.00 0.00	(loc) 12 12 12	I/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2015/TP	12014	Matrix	:-S	, ,					Weight: 115 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.2 OTHERS

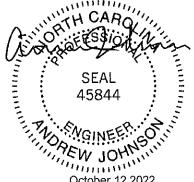
All bearings 20-0-0,

(lb) - Max Horz 2=-90(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vull=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-12 to 3-8-1, Exterior(2) 3-8-1 to 10-0-0, Corner(3) 10-0-0 to 14-4-13, Exterior(2) 14-4-13 to 20-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

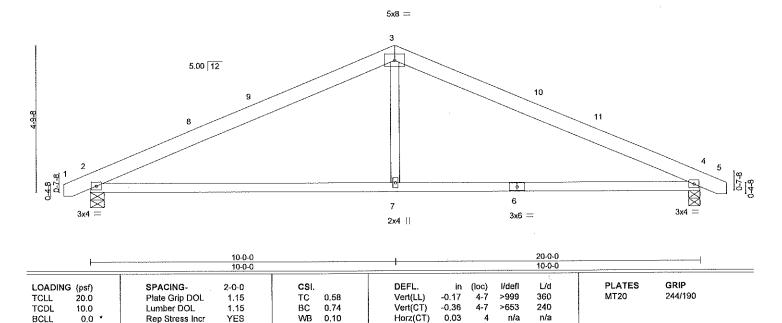
October 12,2022

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



Job Truss Truss Type Qly Ply 154670581 J1022-5104 G2 COMMON Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:30 2022 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:3B2IiiU9aTYR6OIFvgEVAlyq8ik-56AydPNN0uvlK7xJDaws1OJykpJAGwKP2PC5ESyUDc8 0-10-8 0-10-8 20-0-0 10-0-0 10-0-0 10-0-0

Scale = 1:36.2



Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.05

4-7

>999

240

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 5-7-10 oc purlins.

Weight: 91 lb

FT = 20%

LUMBER-

BCDL

TOP CHORD 2x6 SP No.1

10.0

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

REACTIONS.

(size) 2=0-5-8, 4=0-4-8

Max Horz 2=-54(LC 17)

Max Uplift 2=-62(LC 12), 4=-62(LC 13) Max Grav 2=841(LC 1), 4=838(LC 1)

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-1186/283, 3-4=-1185/283 BOT CHORD 2-7=-135/1007, 4-7=-135/1007

3-7=0/454 WEBS

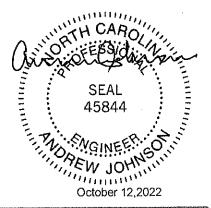
NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vull=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to 20-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) This truss has been designed for a 10.0 psf bottom chord live toad nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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 properly dange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply			11,4-74
J1022-5104	J1	GABLE	1	1			154670582
	ayetteville, NC - 28314,				Job Reference (optional 6 2022 MiTek Industries		7:42:21 2022 Page 1
Connect, Inc.,					8 2022 Millek industries VAlyq8tk-ZIkKqlO?nB1		
		0-11-0 0-11-0	13-8-0 13-8-0				
		3 19 19	8.00 12 3x4 = 8 6 7 17 18 9.00 12	9 14 3 3 4 1 1 16	13 12 15 4x4 1 7 6		Scale = 1:51.7
		24	12-11-3		13-8-0 0-8-13		
.//	т'	K.L.	12-11-3		0-8-13		
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 CSI. 1.15 TC 0.11 1.15 BC 0.10	Vert(CT) 0.	00 1 00 1	l/def! L/d n/r 120 n/r 120	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10,0	Rep Stress Incr Code IRC2015/TP	YES WB 0.02 2014 Matrix-R	Horz(CT) -0.	02 11	n/a n/a	Weight: 73 lb	FT = 20%

LUMBER-TOP CHORD

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

WEBS 2x4 SP No.2 OTHERS 2x4 SP No.2 BRACING-

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 12-13.

REACTIONS. All bearings 13-8-0.

(lb) - Max Horz 21=450(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 21, 11, 12, 16, 18, 19 except 13=-340(LC 12), 17=-104(LC 12),

20=-112(LC 12)

Max Grav All reactions 250 ib or less at joint(s) 12, 13, 15, 16, 17, 18, 19, 20 except 21=286(LC 12)

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

TOP CHORD 5-7=-206/268, 7-8=-273/349, 8-9=-299/374

BOT CHORD 20-21=-557/444, 19-20=-544/434, 18-19=-548/436, 17-18=-548/435, 16-17=-548/435,

15-16=-548/435, 13-15=-543/424, 9-14=-325/416, 13-14=-325/416

NOTES-

- Wind: ASCE 7-10; Vull=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-11-0 to 3-8-0, Exterior(2) 3-8-0 to 13-8-0 zone; 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 stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 5) 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.
- 7) *This truss has been designed for a live load of 40.0psf 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) Bearing at joint(s) 21, 11, 13, 15, 16, 17, 18, 19, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 ib uplift at joint(s) 21, 11, 12, 16, 18, 19 except (it=ib) 13=340, 17=104, 20=112.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 12, 13, 15, 16, 17, 18, 19, 20.



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 property 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, detivery, crection and bracing of trusses and thruss systems, see Austral 1971 Quality Griteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road

Job Qly Truss Truss Type ₽İy 154670583 J1022-5104 J2 MONOPITCH Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:32 2022 Page 1 Comtech, Inc. ID:3B2liiU9aTYR6OtFvgEVAiyq8tk-1VHi14PdYV90aQ5iL?zK7pOKqd5NkniiVjhCJKyUDc9 -0-11-0 0-11-0 6-10-0 6-10-0 Scale = 1:65.6 8.00 12 6 2-1-1 3x4 🗸 10 2x4 [] 8 3x4 || 3 4x4 // 4x6 🗸 4x12 4 9.00 12 2x4 || 6-10-0 6-10-0 6-1-3 Plate Offsets (X,Y)-- [2:0-2-8,0-1-12], [5:0-2-14,0-1-8] LOADING (psf) SPACING-CSI. DEFL. l/defl L/d **PLATES** GRIP 2-0-0 (loc) in 244/190 Plate Grip DOL Vert(LL) -0.07 11-12 360 MT20 20.0 1.15 TC 0.41 >999 TCLL TCDL ВÇ 0.31 -0.16 11-12 >986 240 10.0 Lumber DOL 1.15 Vert(CT) **BCLL** YES WB 0,30 Horz(CT) 0.03 0.0 Rep Stress Incr 9 n/a n/a Weight: 81 lb FT = 20% 8CDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.07 11 >999 240 LUMBER-BRACING-TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, BOT CHORD 2x4 SP No.1 except end verticals. BOT CHORD Rigid ceiling directly applied or 7-11-9 oc bracing

2x4 SP No.2 WEBS

(size) 12=0-5-8, 9=Mechanical

Max Horz 12=311(LC 12) Max Uplift 9=-209(LC 12)

Max Grav 12=597(LC 1), 9=595(LC 19)

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

TOP CHORD

REACTIONS.

2-12=-671/361, 2-3=-1619/567, 3-5=-1729/710 11-12=-569/616, 10-11=-615/1231, 5-10=-863/427 2-11=-316/1221, 3-11=-408/251, 5-11=-369/827

BOT CHORD WEBS

- NOTES-1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 13-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 talf by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9 = 209.



MARNING - 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 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 properly 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



Job Truss Truss Type Qty ₽ly 154670584 J1022-5104 JЗ MONOPITCH Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:33 2022 Page 1 Comtech, Inc. Fayetteville, NC - 28314, ID:3B2IIiU9aTYR6OtFvgEVAlyq8lk-Whr5FQQFJpltBaguujUZf0xVT0QOTEKrkNRlmyUDc8 13-5-8 -0-11-0 0-11-0 6-8-8 Scale = 1;62.3 8.00 12 5 6 2x4 11 3x6 🗸 3x6 🗸 4 3 4x4 🥠 2 24-5 13 87 10 9 3x6 = 2x4 II 3x4 = 6-8-8 6-9-0 Plate Offsets (X,Y)-- [2:0-1-0,0-1-12] LOADING (psf) DEFL. **PLATES GRIP** SPACING-CSI. in l/defl L/d 2-0-0 (loc) 244/190 Plate Grip DOL 0.42 -0.08 >999 MT20 20.0 1.15 Vert(LL) 360 TCLL TC 8-9 ВС -0.12 TCDL 10.0 1 15 0.33 Vert(CT) 8-9 >999 240 Lumber DOL WB 0.28 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.01 8 n/a n/a Code IRC2015/TPI2014 9 >999 240 Weight: 97 lb FT = 20% BCDL 10.0 Matrix-S Wind(LL) 0.00 LUMBER-BRACING-

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

TOP CHORD

BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 9-7-1 oc bracing. 2x4 SPF No.2 - 5-8, 3-8 T-Brace:

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.

(size) 8=Mechanical, 10=0-3-8

Max Horz 10=306(LC 12) Max Uplift 8=-203(LC 12)

Max Grav 8=685(LC 19), 10=604(LC 19)

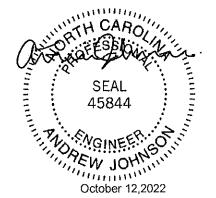
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-504/0, 2-10=-558/34

BOT CHORD 9-10=-426/430, 8-9=-194/427 3-9=0/272, 3-8=-593/270, 2-9=-3/369 WEBS

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1,60 plate grip DOL=1,60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 ib uplift at joint(s) except (it=ib) 8=203
- 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 8EFORE 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 guildance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply 154670585 J1022-5104 J4 MONOPITCH Job Reference (optional) Comtech, inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:34 2022 Page 1

ID:3B2lljiU9aTYR6OtFvgEVAlyq8ik-_tPTSmQt46QkpkF4SQ?oCETgSQmXChf?z1AJNDyUDc7 10-11-8 -9-11-0 1-11-0 0-11-0 1-11-0

Scale = 1:66.6

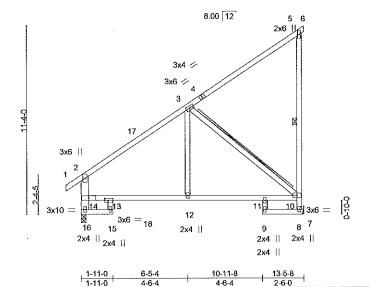


Plate Offsets (X,Y)-- [13:0-2-8,0-1-8] LOADING (psf) CSI. DEFL. **PLATES** GRIP SPACING-(loc) L/d 2-0-0 in I/defl -0,05 244/190 11-12 20.0 Plate Grip DOL 0.40 Vert(LL) >999 360 MT20 TCLL 1.15 TC -0.12 11-12 TCDL 10.0 1 15 BC 0.33 Vert(CT) >999 240 Lumber DOL Rep Stress Incr WB BCLL 0.0 YES 0.27 Horz(CT) 0.03 8 n/a n/a Code IRC2015/TPI2014 Wind(LL) 0.07 12-13 240 Weight: 94 lb FT = 20% BCDL 10.0 Matrix-S >999

4-6-4

LUMBER-

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1 *Except*

13-15,9-11: 2x4 SP No.2

WEBS 2x4 SP No.2 *Except*

2-16: 2x6 SP No.1

BRACING-TOP CHORD

4-6-4

BOT CHORD

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt T-Brace:

2-6-0

5-8

2x4 SPF No.2 - 3-10

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.

(size) 8=Mechanical, 16=0-3-8 Max Horz 16=306(LC 12)

Max Uplift 8=-204(LC 12)

Max Grav 8=641(LC 19), 16=635(LC 19)

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

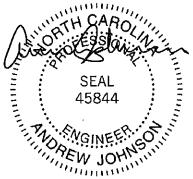
TOP CHORD 2-3=-569/0, 8-10=-653/292, 14-16=-565/119, 2-14=-515/121

BOT CHORD 15-16=-350/148, 13-14=0/641, 12-13=-259/515, 11-12=-259/515, 10-11=-274/514

WEBS 3-10=-648/333, 3-12=-13/271

NOTES-

- 1) Wind: ASCE 7-10; Vull=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=204
- 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 12,2022

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Jab Truss Type Qty Ply Truss 154670586 J1022-5104 J5 ROOF SPECIAL ß Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:35 2022 Page 1 ID:3B2lliU9aTYR6OtFvgEVAlyq8tk-S4zrg6RVrQYbRuqG08W1kR0r1q5ex9W8BhwswfyUDc6

Structural wood sheathing directly applied or 6-0-0 oc purlins,

5-8, 3-10

Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

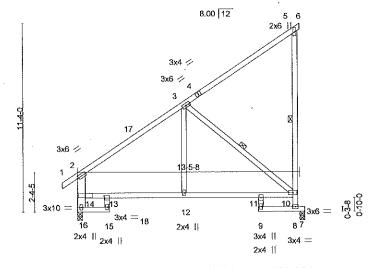
except end verticals.

1 Row at midpt

6-0-0 oc bracing: 15-16,13-15.

10-11-8

Scale = 1:66.6



1-11-0 6-5-4 10-11-8 13-5-813-9-0 2-6-0 0-3-8

Plate Offsets (X,Y)	[2:0-1-0,0-1-8], [13:0-0-8,0-1-8]	***************************************	The state of the s	
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.41 BC 0.41	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.08 11-12 >999 360 MT20 244/190 Vert(CT) -0.19 11-12 >840 240	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.23 Matrix-S	Horz(CT) 0.05 7 n/a n/a Wind(LL) 0.06 12-13 >999 240 Weight: 94 lb FT = 20%	ó

BRACING-

TOP CHORD

BOT CHORD

WE8S

LUMBER-

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1 *Except*

13-15,9-11: 2x4 SP No.2

WEBS 2x4 SP No.2 *Except*

2-16; 2x6 SP No.1

REACTIONS. (size) 16=0-3-8, 7=0-3-8

Max Horz 16=306(LC 12)

Max Uplift 7=-196(LC 12)

Max Grav 16=655(LC 19), 7=624(LC 19)

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

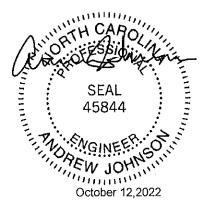
TOP CHORD 2-3=-605/14, 8-10=-719/317, 14-16=-583/126, 2-14=-540/131

BOT CHORD 15-16=-344/132, 13-14=0/683, 12-13=-271/545, 11-12=-271/545, 10-11=-229/398

WEBS 3-10=-680/345, 3-12=-31/294

NOTES:

- 1) Wind; ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- *This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (ti=ib) 7=196.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 tev. 5/19/2020 BEFORE USE. AM WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT 747-80. 5792/200 BEFORE OSE.

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



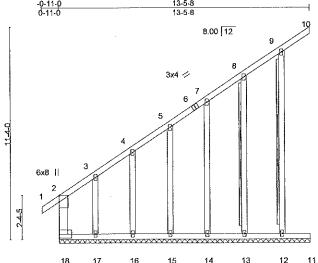
 Job
 Truss
 Truss Type
 Qty
 Ply
 t
 154670587

 J1022-5104
 J6
 GABLE
 1
 1
 Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek industries,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:36 2022 Page 1 ID:3B2lliU9aTYR6OIFvgEVAlyq8tk-wGXDISS7ckgS22PTar1GHtZzeEPBgdflQLfPS6yUDc5 13-5-8

Scale = 1:59.2



13-5-8 13-5-8

Plate Offsets (X,Y)	[2:0-4-3,Edge]									100000000000000000000000000000000000000	
LOADING (ps TCLL 20, TCDL 10,	ó	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0,61 0.51	DEFL. Vert(LL) Vert(CT)	ni 00,00- 00.0	(loc) 2 2	l/defl n/r n/r	L/d 120 120	PLATES MT20	GRIP 244/190
BCLL 0 BCDL 10.	.0 * 0	Rep Stress Incr Code IRC2015/TF	YES PI2014	WB Matri	0.14 x-S	Horz(CT)	-0.22	10	n/a	n/a	Weight: 108 lb	FT = 20%

LUMBER-

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

BOT CHORD WEBS Structural wood sheathing directly applied or 5-9-12 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

T-Brace: 2x4 SPF No.2 - 8-13, 9-12
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 13-5-8.

(lb) - Max Horz 18=444(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 10, 14, 13, 12 except 18=-250(LC 10),

17=-898(LC 12), 15=-127(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 11, 16, 15, 14, 13, 12

except 18=886(LC 12), 17=408(LC 10)

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

TOP CHORD

2-18=-572/455, 2-3=-679/546, 3-4=-362/298, 4-5=-332/273

WEBS 3-17=-489/549

NOTES-

Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 13-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5x8

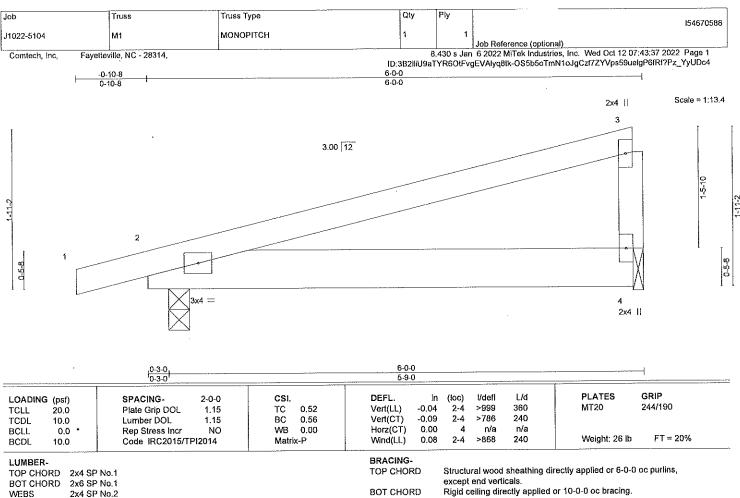
- 2) Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf 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.
- 9) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 14, 13, 12 except (jt=lb) 18=250, 17=898, 15=127.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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2x4 SP No.2 WEBS

REACTIONS.

(size) 4=0-1-8, 2=0-3-0

Max Horz 2=81(LC 4)

Max Uplift 4=-295(LC 4), 2=-336(LC 4) Max Grav 4=510(LC 1), 2=581(LC 1)

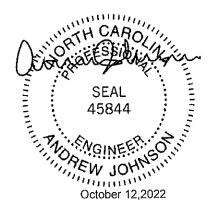
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; porch left exposed; 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 40.0psf 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) except (it=lb) 4=295, 2=336,
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced); Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 2-4=-120(F=-100)



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Job	Truss	Truss Type	Qty	Ply L	s		154670589
J1022-5104	M2	MONOPITCH	7	1 lob Pr	eference (optional)		10 10, 5555
Comtech, Inc, Fa	yetteville, NC - 28314, -0-10-8		ID:3B2⊪U9aT 6-0-0	430 s Jan 6 202	anterice (optional) 2 MiTek Industries, Inc. 48tk-OS5b5oTmN1oJg	Wed Oct 12 07: Czf7ZYVps5Ayel	43:37 2022 Page 1 /P6fRf?Pz_YyUDc4
1	0-10-8		6-0-0			2x4	Scale = 1:13.4
						3	
		3.00 12	6				01
1.11-2	2	5					1-5-10
8-9-0			L. AMMIN				
	3x4 =					4 2x4	
	0-3-0		6-0-0 5-9-0				-
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE	5 TC 0.45 5 BC 0.55 S WB 0.00	DEFL. in Vert(LL) -0.01 Vert(CT) -0.03 Horz(CT) 0.00	2-4 >999 2-4 >999 4 n/a	L/d 360 240 n/a	MT20	GRIP 244/190 FT = 20%
BCDL 10.0 LUMBER- TOP CHORD 2x4 5	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.03 BRACING- TOP CHORD	***************************************	240 d sheathing directly a	Weight: 26 lb	

BOT CHORD

BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

REACTIONS.

(size) 4=0-1-8, 2=0-3-0

Max Horz 2=57(LC 8)

Max Uplift 4=-92(LC 8), 2=-121(LC 8)

Max Grav 4=223(LC 1), 2=294(LC 1)

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

- 1) Wind: ASCE 7-10; Vull=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-10-1 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 40.0psf 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
- 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=121.



Rigid ceiling directly applied or 10-0-0 oc bracing.

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Job	Truss	Truss Type	Qty	Ply	· ·	154670590
J1022-5104	P1	GABLE	2	1	Job Reference (optional)	13467 0330
Comtech, Inc, Faye	tteville, NC - 28314,	J. J	15 0 DOU'! 10	8.430 s Jan	6 2022 MiTek Industries,	Inc, Wed Oct 12 07:43:38 2022 Page 1 ILYrhG3IM4eN91C38YWatf8WW_yUDc3
-0-4-8 0-4-8		6-9-10 6-5-2		a i y R6OiFvgt		ILTINGSIMMENSTC35TWARGWWV_YODC3
						Scale = 1:15.5 3x4 = 4
		3	.00 12		2x4 3	
		9	2x4 10			
2-3-10	3x4 =					
1 2						
	<u> </u>		7 2x4		6 2x6	5 2x4
-0-4-8 0-4-8		Haran	6-4-8 8-0-0		under.	
	[4:0-1-15,0-1-8]			All Annua N		
TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPl2	2-0-0 CSI. 1.15 TC 0.36 1.15 BC 0.04 YES WB 0.09 1014 Matrix-P	Vert(CT) 0	in (loc) .00 1 .00 1 .00 5	l/defl L/d n/r 120 n/r 120 n/a n/a	PLATES GRIP MT20 244/190 Weight: 36 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x6 SP WEBS 2x4 SP OTHERS 2x4 SP	No.1 No.2		BRACING- TOP CHORD BOT CHORD	Structura Rigid cei	al wood sheathing direc iling directly applied or 6	tly applied or 6-0-0 oc purlins. 6-0-0 oc bracing.
	earings 7-10-8. orz 2=98(LC 8)					

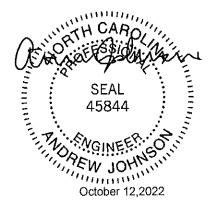
Max Uplift All uplift 100 lb or less at joint(s) 5, 2 except 6=-225(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 5, 2, 7 except 6=409(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. WEBS 3-6=-383/501

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-4-8 to 4-0-5, Exterior(2) 4-0-5 to 7-10-1 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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 40.0psf 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 6=225.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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818 Soundside Road

Job	Truss	Truss Type	Qt	/ Ply	,					070501
J1022-5104	P2	MONOPITCH	5		1				154	670591
						Job Reference				
Comtech, Inc.	Fayetteville, NC - 28314,		ID anou	8.430	s Jan	6 2022 MiTek	Industries, Inc. We	ed Oct 12 07:4	13:39 2022 Pag	ge 1
	-0-4-8	6-{	ID;3B2II 5-2	U9a i YR6	Uthvgt	VAIYQ8IK-KICI	4VUU0uf21vV72Fz 7-8	.6_VHBPIRPN -7 .8.	t?cx63u43Qy∪i ∙0-0.	DCZ
H	-0-4-8 0-4-8	6-4					7-8- 1-3	5 0-	-0-0 -3-9	
									Coolo	= 1:15.8
								3x4 =	Ocale	- 1,10.0
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g	1	•	5							
2-3-10				_				İ		
"								ļ	1	
	_									
	2									
1								L	Δ M	ထု
949									ΙXΙ	0-5-8
ld [-{ €}}	1
		3x4 =						4		
	$ \times $							2x	4	
	3x4 ===									
	0-3-0 0-3-0		8-0-0							
Plate Offsets (X,Y		O 1 91	7-9-0						· · · · · · · · · · · · · · · · · · ·	
Plate Offsets (A,1	j [2.0-4-4,Euge], [3.0-1-13	7,0-1-8]								
LOADING (psf)	SPACING-	2-0-0 CSI.	DEFL.			i/defi L/d			GRIP	
TCLL 20.0	Plate Grip DOL	1,15 TC 0.91	Vert(LL)			>999 360		20 2	244/190	
TCDL 10.0	Lumber DOL	1.15 BC 0.58	Vert(CT)			>961 240				
BCLL 0.0 BCDL 10.0	* Rep Stress incr Code IRC2015/T	YES WB 0.03 PI2014 Matrix-P	Horz(CT) Wind(LL)	0.00 0.11	4 2-4	n/a n/a >878 240		ight; 33 lb	FT = 20%	
DODL 10.0	Gode IAC2019/11	CIZOTA WAUK-P	VVRIG(LL)	J. 1 I	<u>د-</u> ۲	-010 240	746	911., 00 10	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
LUMBER-			BRACING-							
TOPICHORD 2	VA SD No 1		TOP CHOS	D S	troctura	al wood sheati	hing dìrectly appli	ed or 2-2-0 or	c purlins	

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.

(size) 2=0-3-0, 4=0-1-8

Max Horz 2=69(LC 8)

Max Uplift 2=-130(LC 8), 4=-126(LC 8) Max Grav 2=340(LC 1), 4=307(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-4-8 to 4-0-5, Interior(1) 4-0-5 to 7-10-1 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 40.0psf 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) except (jt=lb)
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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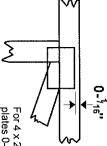


818 Soundside Road

PLATE LOCATION AND ORIENTATION



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



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

∞

Φ

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Ç'n

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 × 4

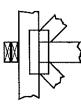
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

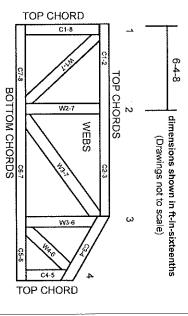
Industry Standards:

ANSI/TPI1: National Design Specification for Metal
Plate Connected Wood Truss Construction.
DSR-89: Design Standard for Bracing.

DSB-89; BCSI:

Design Standard for Bracing.
Building Component Safety Information,
Guide to Good Practice for Handling,
Installing & Bracing of Metal Plate
Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet MII-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.

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- 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 ANS/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- 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 purins 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.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. 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/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.