

Trenco

818 Soundside Rd Edenton, NC 27932

Re: 28305

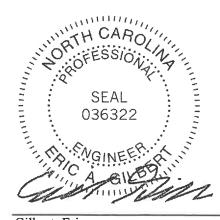
Lowes 647/Humbert

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by C & R Truss.

Pages or sheets covered by this seal: I69579833 thru I69579883

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



November 15,2024

Gilbert, Eric

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

Job Truss Truss Type Qty Lowes 647/Humbert 169579833 28305 G4 Common Supported Gable Job Reference (optional) CAR Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:49 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-Wou9hVgY0l6oSq9QwuQmNFrWtxlsc1n1VZ8AiPyJcIG 9-6-0 19-0-0 9-6-0 1-2-8 4x4 = Scale = 1:45.7 8.00 12 9 10 11 12 0-10-12 13 61-0 24 23 22 21 19 18 17 16 15 14 5x6 = 19-0-0 19-0-0 Plate Offsets (X,Y)- [19:0-3-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in I/defl Ļ/d **PLATES** (loc) GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) -0.01 13 120 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.15 BC 0.05 Vert(CT) -0.01 13 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.00 14 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 118 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3 **BRACING-**

TOP CHORD

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

except end verticals.

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

REACTIONS. All bearings 19-0-0.

(lb) - Max Horz 24=-135(LC 6)

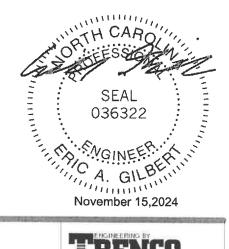
Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15 Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat, II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DQL=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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15,
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1,

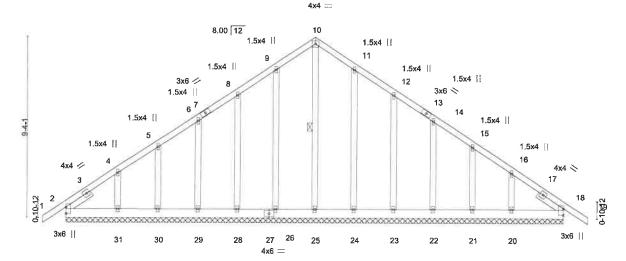


🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENC!: PAGE MII-7473 rev, 1/2/2023 BEFORE USE with Nitro - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILEK REFERENCE PAGE MIL-74-73 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITE&Ø 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/TP/11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579834 28305 G5 GABLE 1 Job Reference (optional) CAR Truss, Autryville, NC - 28318. 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:50 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-?_SXurhAn?Ef4_kaUcy?vSNjxL4YLTgAkDtjEryJcIF -1-2-8 1-2-8 26-6-8 12-8-0 12-8-0



LOADING (psf) SPACING-2-0-0 CSI. DEFL. in l/defl L/d **PLATES** GRIP (loc) TCLL 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) -0.00 19 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) -0.00 19 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.00 18 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 195 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E

2x6 SP No.1 BOT CHORD 2x4 SP No.3 OTHERS

SLIDER Left 2x4 SP No.3 1-6-13, Right 2x4 SP No.3 1-6-13

REACTIONS. All bearings 25-4-0.

(lb) - Max Horz 2=-153(LC 6)

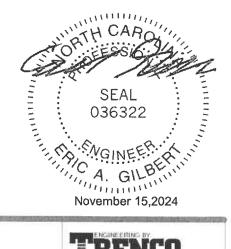
Max Uplift All uplift 100 lb or less at joint(s) 26, 28, 29, 30, 31, 24, 23, 22, 21, 20

Max Grav All reactions 250 lb or less at joint(s) 2, 18, 25, 26, 28, 29, 30, 31, 24, 23, 22, 21, 20

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=25ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 26, 28, 29, 30, 31, 24, 23, 22, 21, 20,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

1 Row at midpt

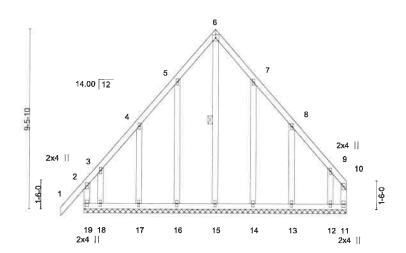
Scale = 1:59.1

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2023 BEFORE USE, Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Lowes 647/Humbert Qty Ply 169579835 28305 G6 Common Supported Gable 1 Job Reference (optional) Cॄ्रिR Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:51 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-TA0v6BioXJMWh8Jn2JTESgwruIPB4w1KztdGmHyJcIE 6-10-0 6-10-0 6-10-0 4x4 =

Scale = 1:60.4



LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) l/defl Ļ/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 0.22 TC Vert(LL) 0.00 120 MT20 244/190 n/r TCDL 10.0 Lumber DOL BC 0.12 1.15 Vert(CT) -0.01 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) -0.00 11 n/a n/a **BCDL** Code IRC2018/TPI2014 10.0 Matrix-R Weight: 109 lb FT = 20%

13-8-0

LUMBER-TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3 **BRACING-**TOP CHORD

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

except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt

REACTIONS. All bearings 13-8-0.

Max Horz 19=210(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 16, 17, 14, 13 except 19=-229(LC 6), 11=-271(LC 7), 18=-189(LC

5), 12=-152(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 11, 17, 13 except 19=336(LC 14), 15=310(LC 8), 16=257(LC 13), 18=291(LC 6), 14=257(LC 14), 12=304(LC 7)

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

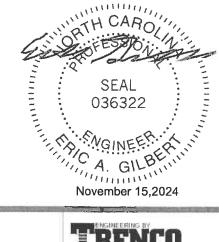
WEBS

6-15=-286/24

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 17, 14, 13 except (jt=lb) 19=229, 11=271, 18=189, 12=152.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 15,2024

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Edenton, NC 27932

Job Truss Truss Type Qty Lowes 647/Humbert Ply 169579836 28305 G7 Common Supported Gable Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:51 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-TA0v6BioXJMWh8Jn2JTESgwrnIP54w0KztdGmHyJcIE 14-10-8 1-2-8 6-10-0 Scale = 1:60,4 4x4 = 6 14.00 12 2x4 || 2x4 || 9 10 1-6-0

13-8-0 13-8-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl I /d PLATES GRIP in (loc) **TCLL** 20.0 Plate Grip DOL 1.15 0.23 TC Vert(LL) -0.0111 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1 15 BC. 0.13 Vert(CT) -0.0111 n/r 120 BCLL 0.0 Rep Stress Incr YES WR 0.13 Horz(CT) -0.00 12 n/a n/a BCDL Code IRC2018/TPI2014 10.0 Matrix-R Weight: 112 lb FT = 20%

16

15

17

18

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

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

except end verticals.

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

2x4 ||

WEBS 1 Row at midpt 6-16

REACTIONS. All bearings 13-8-0.

(lb) - Max Horz 20=-223(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 17, 18, 15, 14 except 20=-239(LC 6), 12=-212(LC 7), 19=-172(LC 7), 13=-162(LC 4)

20 19

2x4 ||

Max Grav All reactions 250 lb or less at joint(s) 18, 14 except 20=316(LC 14), 12=296(LC 13), 16=336(LC 8), 17=258(LC 13), 19=298(LC 6), 15=257(LC 14), 13=280(LC 7)

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

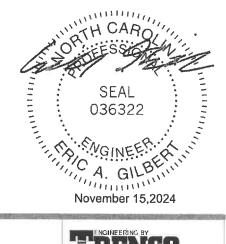
WEBS 6-16=-312/18

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 18, 15, 14 except (jt=lb) 20=239, 12=212, 19=172, 13=162.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 rev. 1/2/2023 REFORE USE



Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579837 28305 G8 2 Common Supported Gable Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:52 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-xNZIJXjRldUNJIuzb1_T_tT0P9lJpNzTCXNqJkyJcID 15-6-B 7-2-0 1-2-8

4x4 ==

6 14.00 12 9-10-5 8 2x4 [] 2x4 10 1-6-0 20 19 18 17 16 15 13 12 14 2x4 || 2x4

LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** TCLL Plate Grip DOL 20.0 1.15 TC 0.24 Vert(LL) -0.01 11 n/r 120 MT20 TCDL 10.0 Lumber DOL 1,15 BC 0.13 Vert(CT) -0.01 11 n/r 120 **BCLL** 0.0

Rep Stress Incr YES WB 0.15 Horz(CT) -0.00 12 n/a n/a Code IRC2018/TPI2014 Matrix-R Weight: 119 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SP No.3

10.0

2x4 SP No.3

OTHERS

REACTIONS. All bearings 14-4-0. (lb) -

Max Horz 20=-231(LC 6) Max Uplift All uplift 100 lb or less at joint(s) 17, 18, 15, 14 except 20=-179(LC 6), 12=-158(LC 7), 19=-138(LC

5), 13=-131(LC 4) Max Grav All reactions 250 lb or less at joint(s) 18, 14, 13 except 20=280(LC 14), 12=263(LC 13), 16=354(LC 8), 17=259(LC 13), 19=261(LC 6), 15=258(LC 14)

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

6-16=-329/20

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 18, 15, 14 except (jt=lb) 20=179, 12=158, 19=138, 13=131.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



GRIP

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

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

except end verticals.

1 Row at midpt

244/190

Scale = 1:62.7

November 15,2024

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Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579838 28305 Ge Common Supported Gable Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:52 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-xNZIJXjRIdUNJIuzb1_T_tT1_9lBpNqTCXNqJkyJciD -1-2-8 4-6-0 9-0-0 10-2-8 1-2-8 4x4 = 5 14.00 12 7 8 1-6-0 14 13 12 11 10 3x6 = 3x6 = 9-0-0 9-0-0 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 0.14 Vert(LL) -0.019 120 MT20 244/190 n/r TCDL 10.0 Lumber DOL 1 15 BC. 0.07 Vert(CT) -0.01 9 120 n/r

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

10

n/a

except end verticals.

n/a

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

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

Weight: 69 lb

FT = 20%

LUMBER-

BCLL.

BCDL

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

0.0

10.0

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS. All bearings 9-0-0.

Max Horz 14=168(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14, 10, 13, 11

Max Grav All reactions 250 lb or less at joint(s) 14, 10, 12, 11 except 13=251(LC 13)

YES

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

NOTES-

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

Rep Stress Incr

Code IRC2018/TPI2014

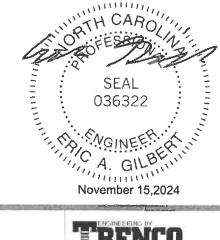
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60

WB

Matrix-R

0.16

- 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 10, 13, 11.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



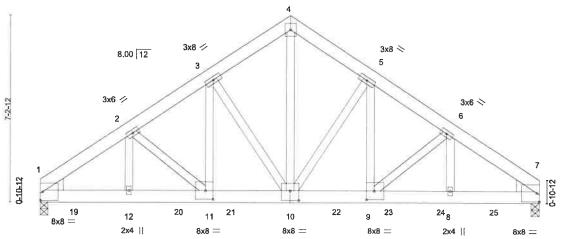
November 15,2024

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE WARNING - Verify dasign parameters and READ NOTES NO THIS AND INCLUDED MITEK REFERENCE PAGE MIT-473 rev. 1/12/2033 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 nijury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Type Truss Qty Plv Lowes 647/Humbert 169579839 28306 GR3 Common Girder 2 Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:53 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-PZ7gWtj33wcExST99kViX5?7GY?DYiycQB6NrAyJclC Autryville, NC - 28318, C&R Truss. 9-6-0 12-6-13 19-0-0 3-0-13 3-0-13 3-0-13 5x6 || Scale = 1:44.3



3-0-13 3-0-13 3-0-13 [9:0-3-8,0-4-0], [10:0-4-0,0-4-8], [11:0-3-8,0-4-0] Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 DEFL. I/defl **PLATES** GRIP in L/d (loc) TCLL 20.0 Plate Grip DOL 1,15 TC 0.42 Vert(LL) -0.07 9-10 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 вс 0.47 Vert(CT) -0.13 9-10 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.68 Horz(CT) 0.04 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-MS Wind(LL) -0.0111 >999 240 Weight: 313 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

12-6-13

15-7-11

19-0-0

Structural wood sheathing directly applied or 5-6-13 oc purlins.

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

9-6-0

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*

4-10: 2x4 SP No.2

WEDGE

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

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=104(LC 7)

Max Grav 1=5957(LC 1), 7=5748(LC 1)

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

TOP CHORD. 1-2=-7788/0, 2-3=-6751/0, 3-4=-5361/0, 4-5=-5361/0, 5-6=-6789/0, 6-7=-7766/0
BOT CHORD 1-12=0/6261, 11-12=0/6261, 10-11=0/5620, 9-10=0/5652, 8-9=0/6238, 7-8=0/6238
WEBS 4-10=0/5539, 5-10=-2159/0, 5-9=0/2426, 6-9=-792/0, 6-8=0/1221, 3-10=-2100/0,

3-11=0/2357, 2-11=-865/0, 2-12=0/1293

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.

6-5-3

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1132 lb down at 1-3-4, 1132 lb down at 3-3-4, 1132 lb down at 5-3-4, 1132 lb down at 11-3-4, 1131 lb down at 11-3-4, and 1131 lb down at 11-3-4, and 1131 lb down at 11-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





1	Job	Truss	Truss Type	Qty	Ply	Lowes 647/Humbert	
	28305	GR3	Common Girder	1			169579839
			Softmon Chief	'	2	Job Reference (optional)	

C&R Truss, Autryville, NC - 28318,

8.530 s Aug 2 2023 MITek Industries, Inc. Wed Nov 13 11:37:53 2024 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-PZ7gWij33wcExST99kViX5?7GY?DYiycQB6NrAyJclC

LOAD CASE(S) Standard

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

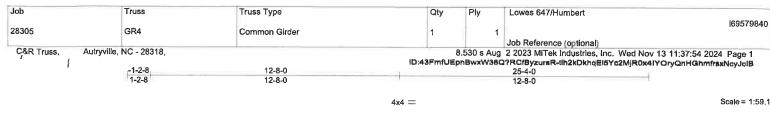
Uniform Loads (plf)

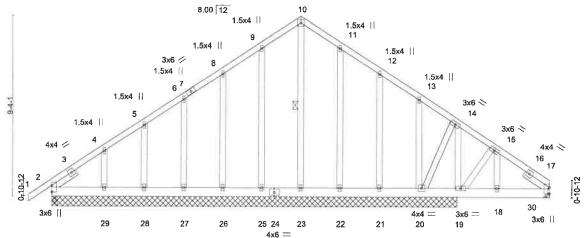
Vert: 1-4=-60, 4-7=-60, 13-16=-20

Concentrated Loads (lb)

Vert: 10=-1132(B) 12=-1132(B) 19=-1132(B) 20=-1132(B) 21=-1132(B) 22=-1132(B) 23=-1132(B) 24=-1131(B) 25=-1131(B)







	25-4-0												
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP								
TCLL	20,0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0,00 17-18 >999 360	MT20 244/190								
TCDL	10.0	Lumber DOL 1,15	BC 0.19	Vert(CT) -0.01 17-18 >999 240	2111100								
BCLL	0.0 *	Rep Stress Incr NO	WB 0.20	Horz(CT) 0.00 17 n/a n/a									
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.00 17-18 >999 240	Weight: 203 lb FT = 20%								

25-4-0

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3 SLIDER 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

REACTIONS. All bearings 20-7-8 except (jt=length) 17=Mechanical.

(lb) - Max Horz 2=152(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 25, 26, 27, 28, 29, 22, 21, 20

Max Grav All reactions 250 lb or less at joint(s) 2, 2, 23, 25, 26, 27, 28, 29, 22, 21, 20 except 17=605(LC 1), 19=581(LC 1)

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

TOP CHORD 15-17=-467/0

BOT CHORD 18-19=0/346, 17-18=0/329 WEBS 15-18=-5/484, 15-19=-493/52

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=25ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 studs spaced at 2-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

8) Refer to girder(s) for truss to truss connections.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 26, 27, 28, 29, 22, 21, 20.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 349 lb down and 27 lb up at 22-4-12, and 349 lb down and 26 lb up at 24-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 collepse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see AMPTPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



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

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

10-0-0 oc bracing: 18-19,17-18.

1 Row at midpt



Job Truss Truss Type Qty Lowes 647/Humbert Ply 169579840 28305 GR4 Common Girder Job Reference (optional)
8.530 s Aug 2 2023 MITsk Industries, Inc. Wed Nov 13 11:37:54 2024 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-tlh2kDkhqEl5Yc2MjR0x4IYOryQnHGhmfrsxNcyJcIB C&R Truss, Autryville, NC - 28318,

LOAD CASE(S) Standard

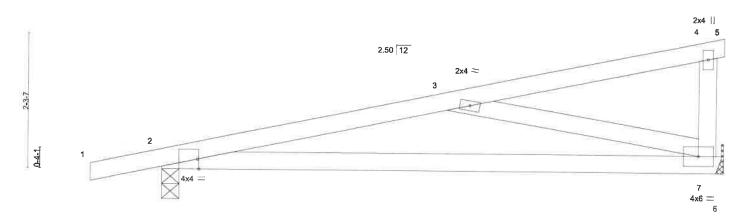
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-10=-60, 10-17=-60, 2-17=-20

Concentrated Loads (lb) Vert: 18=-349(B) 30=-349(B)



Scale = 1:19,3



9-4-0 9-4-0 late Offsets (X,Y)— [2:0-0-4,Edge]										
COADING (psf) FCLL 20.0 FCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.69 BC 0.53 WB 0.26	DEFL. in (loc) i/defl L/d PLATES GRIP Vert(LL) -0.10 7-10 >999 360 MT20 244/190 Vert(CT) -0.22 7-10 >501 240 Horz(CT) 0.01 7 n/a n/a							
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Wind(LL) 0.02 7-10 >999 240 Weight: 39 lb FT = 20%							

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 7=Mechanical, 2=0-3-8

Max Horz 2=58(LC 7) Max Uplift 7=-7(LC 4), 2=-37(LC 4)

Max Grav 7=369(LC 1), 2=440(LC 1)

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

TOP CHORD 2-3=-816/48 BOT CHORD 2-7=-46/795 WEBS 3-7=-720/81

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

WARNING - Veitfy design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579842 28305 М7 Jack-Closed Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:55 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-LxFQxZlJbYtyAldYH9XAcW5PWMgh0ixvuUbUv3yJcIA 9-4-0 1-2-8

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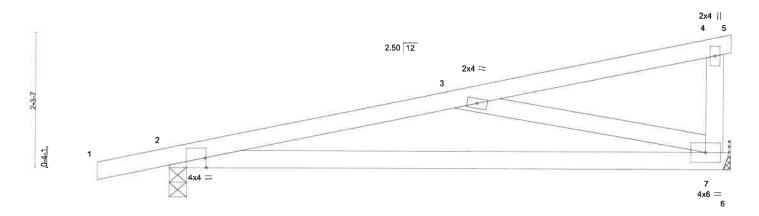


Plate Offsets (X,Y)-- [2:0-0-4,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) l/defl L/d **PLATES GRIP** TCLL 20.0 Plate Grip DOL TC: 1 15 0.69 Vert(LL) -0.107-10 >999 360 MT20 244/190 **TCDL** 10.0 Lumber DOL BC 0.53 1.15 Vert(CT) -0.227-10 >501 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.26 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-AS Wind(LL) 0.02 7-10 >999 240 Weight: 39 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS.

(size) 7=Mechanical, 2=0-3-8 Max Horz 2=58(LC 7) Max Uplift 7=-7(LC 4), 2=-37(LC 4) Max Grav 7=369(LC 1), 2=440(LC 1)

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

TOP CHORD 2-3=-816/48 **BOT CHORD** 2-7=-46/795 WEBS 3-7=-720/81

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

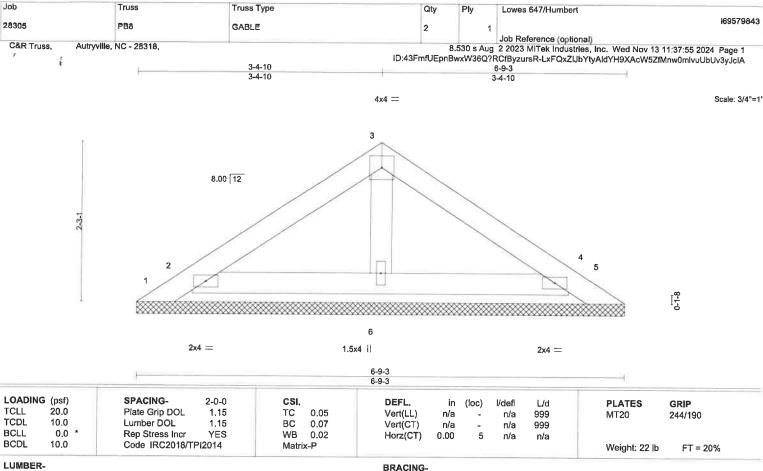


Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 6-9-3.

(lb) - Max Horz 1=34(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4

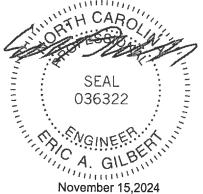
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ff; B=45ff; L=24ff; eave=2ff; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1,
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



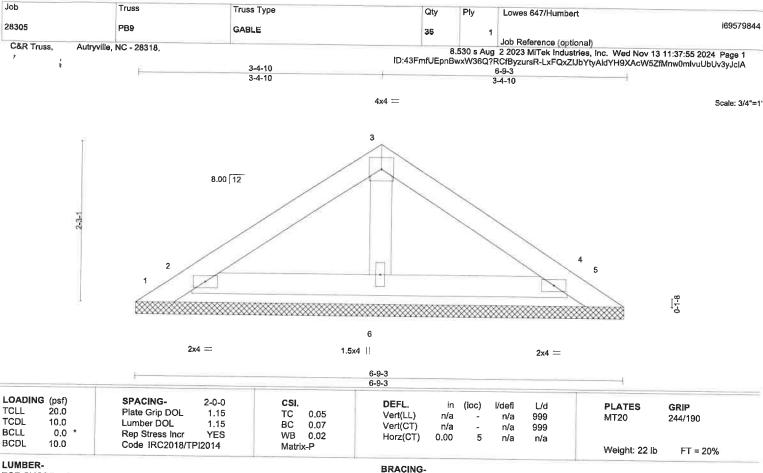
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

November 15,2024

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TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

REACTIONS. All bearings 6-9-3.

(lb) - Max Horz 1=34(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

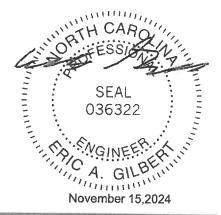
NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 2-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



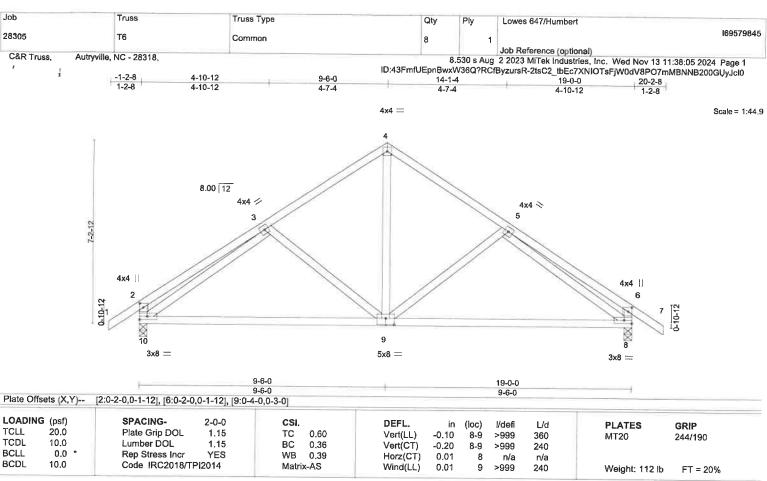
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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. 1/2/2023 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, reaction and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E

2x4 SP No.3 **WEBS**

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

Max Horz 10=-135(LC 6) Max Uplift 10=-13(LC 8), 8=-13(LC 8) Max Grav 10=830(LC 1), 8=830(LC 1)

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

TOP CHORD 2-3=-388/2, 3-4=-723/37, 4-5=-723/37, 5-6=-388/2, 2-10=-388/44, 6-8=-388/44

BOT CHORD 9-10=0/684, 8-9=0/684

WEBS 4-9=0/481, 3-10=-563/30, 5-8=-563/30

NOTES-

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

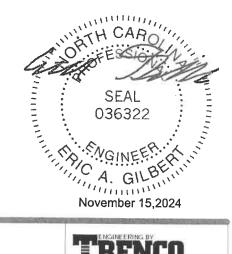
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 10, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1,

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, delivery, erection and bracing of trusses and truss systems, see "ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579846 28305 T7 Common Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:05 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-2tsC2_tbEc7XNIOTsFjW0dV8PO7mMBRNB200GUyJcl0 4-10-12 9-6-0 14-1-4 19-0-0 4-10-12 Scale = 1:44.3 4x4 = 3 8.00 12 4x4 / 4x4 < 2 2 12 2x4 || 2x4 || 5 0-10-12 0-10-12 3x8 = 5x8 = 3x8 == 9-6-0 19-0-0 9-6-0 Plate Offsets (X,Y)--[7:0-4-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defi L/d PLATES **GRIP** in (loc) TÇLL 20.0 Plate Grip DOL 1.15 Vert(LL) -0.10 TC 0.60 6-7 >999 244/190 360 MT20 TCDL 10.0 BC. Lumber DOL 1 15 0.36 Vert(CT) -0.206-7 >999 240 BCLL 0.0 Rep Stress Inci YES WB 0.39 Horz(CT) 0.02 6 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Wind(LL) 0.01 >999 240 Weight: 108 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP 2400F 2.0E WEBS 2x4 SP No.3

REACTIONS.

(size) 8=0-3-8, 6=0-3-8 Max Horz 8=-120(LC 6)

Max Grav 8=748(LC 1), 6=748(LC 1)

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

1-2=-396/4, 2-3=-734/40, 3-4=-734/40, 4-5=-396/4, 1-8=-310/14, 5-6=-310/14

BOT CHORD 7-8=0/702, 6-7=0/702

WEBS 3-7=0/486, 2-8=-557/31, 4-6=-557/31

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

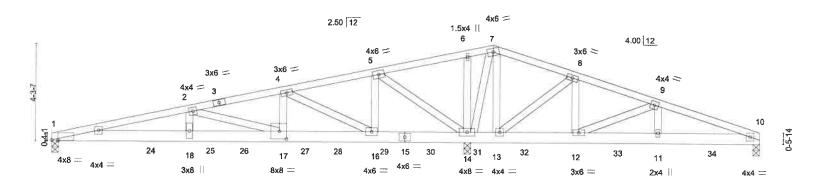
Rigid ceiling directly applied.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579847 28305 78 ROOF SPECIAL GIRDER Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MITek Industries, Inc. Wed Nov 13 11:38:06 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-X3QaFJtD?wFO?SyfQzElZq2NgoSm5ZAXQimZowyJcl? 13-10-9 17-10-1 3-11-8 18-11-6 1-1-5 22-5-10 25-11-14 3-11-8

Scale = 1:49.8



5-1	11-8 11-8	9-11-0 3-11-8	13-10-9 3-11-8	17-10-1 3-11-8	17-10-4 0-0-3 1-1-2	22-5-10 3-6-4		25-11-14 3-6-4	30-4-0 4-4-2
Plate Offsets (X,Y)	[1:0-3-4,0-0-4], [17:0-3-8	3,0-4-0]							
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.38 BC 0.43 WB 0.74 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.10 18-23 -0.20 18-23 0.02 14 -0.02 18	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 701 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0F BOT CHORD 2x6 SP 2400F 2.0E

2x4 SP No.3 WEBS

REACTIONS.

(size) 10=0-3-8, 1=0-3-8, 14=0-3-8 (req. 0-3-9)

Max Horz 1=35(LC 26)

Max Grav 10=980(LC 20), 1=3825(LC 19), 14=17270(LC 1)

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

TOP CHORD

1-2=-11530/0, 2-4=-4129/0, 4-5=0/3708, 5-6=0/10641, 6-7=0/10519, 7-8=0/8725,

8-9=0/4296, 9-10=-682/139

BOT CHORD 1-18=0/11290, 17-18=0/11290, 16-17=0/4027, 14-16=-3607/0, 13-14=-8356/0. 12-13=-4064/0, 11-12=-100/643, 10-11=-100/643

2-18=0/3366, 2-17=-7596/0, 4-17=0/5171, 4-16=-8464/0, 5-16=0/6158, 5-14=-8357/0,

6-14=-673/0, 7-14=-7407/0, 7-13=0/2570, 8-13=-5645/0, 8-12=0/4764, 9-12=-4539/0,

9-11=0/2938

NOTES-

WEBS

1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

7) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.

- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1392 lb down at 2-3-4, 1392 lb down at 4-3-4, 1392 lb down at 6-3-4, 1392 lb down at 8-3-4, 1392 lb down at 10-3-4, 1392 lb down at 12-3-4, 1392 lb down at 14-3-4, 1393 lb down at 16-3-4, 1393 lb down at 18-3-4, 1393 lb down at 20-3-4, 1393 lb down at 22-3-4, 1393 lb down at 24-3-4, and 1393 lb down at 26-3-4, and 1393 lb down at 28-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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

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

November 15,2024

Continued on page 2.

LOAD CASE(S) Standard

🚵 WAFNINC - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lowes 647/Humbert	
28305	Т8	ROOF SPECIAL GIRDER	1			169579847
0007	. ''' NO 00040			4	Job Reference (optional)	

C&R Truss. Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:06 2024 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-X3QaFJtD?wFO?SyfQzEIZq2NgoSm5ZAXQimZowyJcl?

LOAD CASE(S) Standard

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

Vert: 1-7=-60, 7-10=-60, 1-19=-20 Concentrated Loads (lb)

Nert: 12=-1393(B) 11=-1393(B) 23=-1392(B) 24=-1392(B) 25=-1392(B) 26=-1392(B) 27=-1392(B) 28=-1392(B) 29=-1392(B) 30=-1393(B) 31=-1393(B) 32=-1393(B) 33=-1393(B) 34=-1393(B) 34=-1393(B)



Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579848 28305 Т9 Roof Special Girder 2 Job Reference (optional) C&R Truss. Autryville, NC - 28318. 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:07 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-?FzyTfurmENFccXr_gl_52aTRCmCq?jgeMV7KMyJcl_ 13-10-13 17-10-7 3-11-10 22-5-10 3-6-4

Scale = 1:51,8

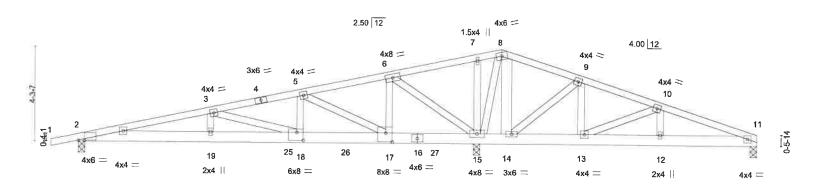


Plate Offsets (X,Y)	5-11-10 5-11-10 [2:0-3-4,0-0-1], [17:0-3-8	9-11-4 3-11-10 3.0-4-121 [18:0-	13-10-13 3-11-10	17-10-4 3-11-7	18-11-6 17-10-7 0-0-3 1-0-14	22-5-10 3-6-4		25-11-14 3-6-4	30-4-0 4-4-2
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress incr Code IRC2018/IT	2-0-0 1.15 1.15 NO	CSI. TC 0.70 BC 0.55 WB 0.79 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.10 18-19 -0.20 18-19 0.03 15 -0.01 19	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20	GRIP 244/190

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.3 *Except*

8-14: 2x6 SP No.1

REACTIONS. (size) 11=0-3-8, 2=0-3-8, 15=0-3-8 (reg. 0-3-14)

Max Horz 2=40(LC 4) Max Uplift 11=-995(LC 19)

Max Grav 2=1303(LC 19), 15=6545(LC 1)

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

2-3=-4690/0, 3-5=-4041/0, 5-6=-462/149, 6-7=0/4151, 7-8=0/4099, 8-9=0/3817, TOP CHORD

9-10=0/3463, 10-11=0/2980

BOT CHORD 2-19=0/4568, 18-19=0/4568, 17-18=0/3938, 15-17=-127/433, 14-15=-3580/0,

13-14=-3278/0, 12-13=-2806/0, 11-12=-2806/0

WEBS 3-18=-668/77, 5-18=0/2317, 5-17=-3982/0, 6-17=0/3807, 6-15=-5347/0, 7-15=-326/6,

8-15=-1719/0, 8-14=-503/52, 9-14=-666/0, 9-13=0/375, 10-13=-722/0, 10-12=0/276

NOTES.

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

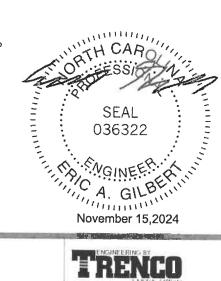
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 585 lb down at 9-4-12, 992 lb down at 9-11-4, 992 lb down at 11-11-4, and 992 lb down at 13-11-4, and 992 lb down at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Structural wood sheathing directly applied or 5-7-12 oc purlins.

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

Continued on page 2 LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Qty Job Truss Truss Type Ply Lowes 647/Humbert 169579848 28305 Т9 Roof Special Girder 1 2

C&R Truss, Autryville, NC - 28318, Job Reference (optional)

8.530 s Aug 2 2023 MITek Industries, Inc. Wed Nov 13 11:38:07 2024 Page 2
ID:43FmfUEpnBwxW36Q?RCfByzursR-?FzyTfurmENFccXr_gl_52aTRCmCq?jgeMV7KMyJcl_

LOAD CASE(S) Standard

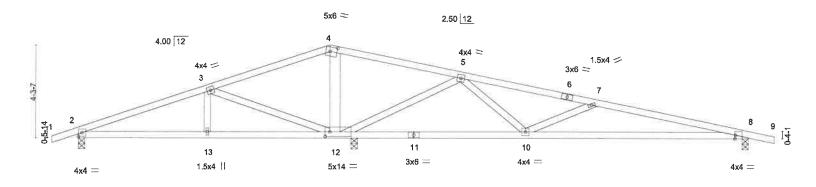
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (pif)
Vert: 1-8=-60, 8-11=-60, 2-20=-20
Concentrated Loads (lib)
Vert: 18=-992(E) 17=-992(E) 25=-585(E) 26=-992(E) 27=-992(E)

Vert: 18=-992(F) 17=-992(F) 25=-585(F) 26=-992(F) 27=-992(F)



Ply Job Truss Type Lowes 647/Humbert Truss Qty 169579849 28305 T10 Roof Special Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:56 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-p8po9vmxMr?povCkqs2P9jdckm2Nl?v368L1SVyJcl9 Autryville, NC - 28318, C&R Truss. 11-4-10 30-4-0 31-6-8 1-2-8 5-10-4 5-6-6 5-11-0

Scale = 1:52.5



		5-10-4	11-4-10	12-4-0	20-3-2		30-4-0	0.00
		5-10-4	5-6-6	0-11-6	7-11-2		10-0-14	
Plate Offs	ets (X,Y)-	[4:0-3-12,0-2-8], [8:0-0-4,	,Edge], [12:0-2	-8,0-2-8]	W			
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL, in (to	c) I/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL) -0.13 10-1	9 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1,15	BC 0.37	Vert(CT) -0.32 10-1	9 >712 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT) 0.01	8 n/a n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matrix-AS	Wind(LL) 0.05 10-1	9 >999 240	Weight: 135 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except*

4-12: 2x6 SP No.1

REACTIONS.

(size) 2=0-3-8, 12=0-3-8, 8=0-3-8

Max Horz 2=-38(LC 6)

Max Uplift 2=-59(LC 20), 8=-24(LC 5)

Max Grav 2=343(LC 19), 12=1766(LC 1), 8=627(LC 20)

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

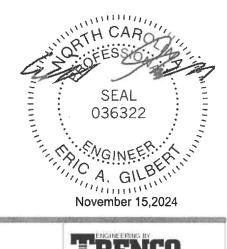
TOP CHORD 2-3=-252/530, 3-4=0/1023, 4-5=0/1027, 5-7=-793/0, 7-8=-1407/37

BOT CHORD 2-13=-480/196, 12-13=-480/196, 8-10=0/1362

WEBS 3-12=-781/11, 4-12=-831/34, 5-12=-1221/39, 5-10=0/776, 7-10=-693/97

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mpn; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



WARNING - Verify dosign parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2023 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 fibesign 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lowes 647/Humbert Ply 169579850 28305 T11 Common 14 Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:56 2024 Page 1 Autryville, NC - 28318, C&R Truss, ID:43FmfUEpnBwxW36Q?RCfByzursR-p8po9vmxMr?povCkqs2P9jdiQm3Vl9d368L1SVyJci9 -1-2-8 1-2-8 6-5-12 12-8-0 25-4-0 6-5-12 6-2-4 6-5-12 Scale = 1:55.1 4x6 6 8.00 12 3x6 🗸 3x6 💸 1.5x4 \\ 7 1.5x4 // 8 4 4x4 🗸 4x4 < 9 10 14 13 4x4 = 4x6 = 4x4 = 3x8 3x8 | 8-6-8 16-9-8 25-4-0 8-6-8 8-3-0 Plate Offsets (X,Y)--[2:0-5-0,0-0-14], [10:0-5-0,0-0-14] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL TC BC 1.15 0.17 Vert(LL) -0.10 12-14 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 0.30 Vert(CT) -0.15 12-14 >999 240

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.03

0.02 12-14

10

n/a

Rigid ceiling directly applied.

n/a

Structural wood sheathing directly applied.

Weight: 157 lb

FT = 20%

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1

0.0

10.0

WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=153(LC 7)

Max Uplift 2=-3(LC 8), 10=-3(LC 8)

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav 2=1100(LC 13), 10=1100(LC 14)

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

TOP CHORD 2-4=-1401/16, 4-6=-1300/76, 6-8=-1300/76, 8-10=-1401/16

BOT CHORD 2-14=0/1198, 12-14=0/821, 10-12=0/1102

WEBS 6-12=-2/614, 8-12=-318/109, 6-14=-2/614, 4-14=-318/109

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-AS

0.24

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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 15,2024

🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITCK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Edenton, NC 27932

Job Truss Truss Type Qty Lowes 647/Humbert Plv 169579851 28305 T12 Common 11 Job Reference (optional) C&R Truss, Autryville, NC - 28318 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:57 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-HKNBMEmZ797gP3mwOaaehxAt8APIUcqCLo4b_xyJcI8 6-5-12 12-8-0 6-5-12 6 - 2 - 44x6 || Scale = 1:54.5 6 8.00 12 3x6 / 1.5x4 \\ 1.5x4 // 5 4x4 🔷 0-10-12 11 10 4x4 = 4x6 = 4x4 = 3x8 || 3x8 || 8-6-8 16-9-8 25-4-0 8-3-0 Plate Offsets (X,Y)--[2:0-5-0,0-0-14], [9:0-5-0,0-0-14]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

(loc)

9

-0.10 10-12

-0.15 10-12

0.02 10-12

0.03

I/defl

>999

>999

>999

n/a

Rigid ceiling directly applied.

360

240

n/a

240

Structural wood sheathing directly applied.

PLATES

Weight: 154 lb

MT20

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

20.0

10.0

0.0

10.0

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x6 SP No.1 **WEBS** 2x4 SP No.3

Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0 SLIDER

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

REACTIONS.

(size) 9=0-3-8, 2=0-3-8 Max Horz 2=150(LC 7) Max Uplift 2=-4(LC 8)

Max Grav 9=1034(LC 14), 2=1102(LC 13)

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

TOP CHORD 2-4=-1402/17, 4-6=-1302/77, 6-7=-1307/79, 7-9=-1407/19

BOT CHORD 2-12=0/1192, 10-12=0/816, 9-10=0/1100

WEBS 6-10=-4/622, 7-10=-321/110, 6-12=-1/613, 4-12=-318/109

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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.

2-0-0

1.15

1.15

YES

CSI.

TC

ВÇ

WB

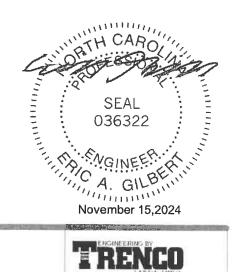
Matrix-AS

0.17

0.30

0.24

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job Truss Truss Type Ply Lowes 647/Humbert Qty 169579852 28305 T13 Common Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:57 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-HKNBMEmZ797gP3mwOaaehxAshARZUb3CLo4b_xyJcl8

6-10-0

3-6-12

4x4 =

Horz(CT)

Wind(LL)

BRACING-

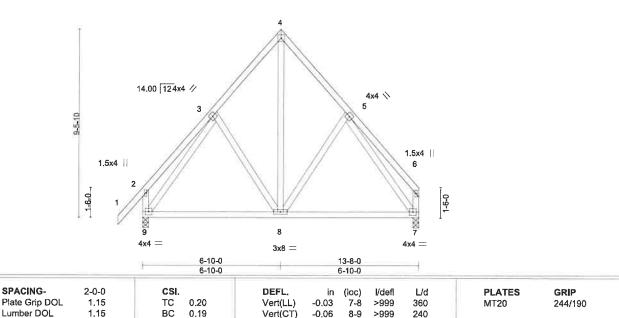
TOP CHORD

BOT CHORD

10-1-4

3-3-4

Scale = 1:57.3



0.00

0.01

n/a

except end verticals,

8 >999 n/a

240

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

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

Weight: 106 lb

FT = 20%

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SP No.2 2x4 SP 2400F 2.0E BOT CHORD

2x4 SP No.3 WEBS

20.0

10.0

10.0

0.0

(size) 9=0-3-8, 7=0-3-8

Max Horz 9=210(LC 7)

Max Uplift 9=-17(LC 8)

Max Grav 9=620(LC 1), 7=531(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 3-4=-401/94, 4-5=-403/95

BOT CHORD 8-9=-40/320, 7-8=0/261

WEBS 4-8=-90/326, 3-9=-418/0, 5-7=-396/0

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

WB

0.29

Matrix-MS

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

YES

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 9.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



November 15,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

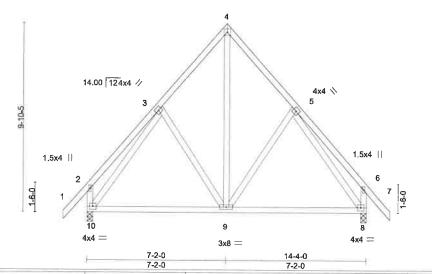
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lowes 647/Humbert 169579853 28305 T14 Common Job Referençe (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:58 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-mWxZaanBuTFX1DL7yH5tE8j16ZmVD1mLaSq8WOyJcl7 -1-2-8 1-2-8 10-7-4 15-6-8

3-8-12

4x4 =



LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.22 BC 0.20	Vert(CT)	in -0.04 -0.07	(loc) 9-10 9-10	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.32 Matrix-MS	Horz(CT) Wind(LL)	0.00	8 9	n/a >999	n/a 240	Weight: 113 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP 2400F 2.0E **WEBS** 2x4 SP No.3

REACTIONS. (size) 10=0-3-8, 8=0-3-8

Max Horz 10=-231(LC 6)

Max Uplift 10=-17(LC 8), 8=-17(LC 8) Max Grav 10=643(LC 1), 8=643(LC 1)

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

TOP CHORD 3-4=-419/98, 4-5=-419/98, 2-10=-260/127, 6-8=-260/127

BOT CHORD 9-10=-33/352, 8-9=0/284

WEBS 4-9=-92/342, 3-10=-431/0, 5-8=-431/0

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 10, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1,



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

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

except end verticals.

MARNING - Verify dissign parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE WARNING - verify disign parameters and READ NOTES ON THIS AND INCLUDED MILEX REPERENCE PACE MILEX - 1/2/2/23 BEFORE USE.

Design valid for use only with MITEX® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSB utilizing Component Section in the property of the and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Type Lowes 647/Humbert Truss Qty Ply 169579854 28305 T15 Common Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:58 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-mWxZaanBuTFX1DL7yH5tE8j15ZmVD2wLaSq8WOyJcl7 10-7-4 3-8-12 Scale = 1:59.6 4x4 = 3 14.00 12 4x4 // 4x4 \ 1.5x4 || 5 1.5x4 [] 1-6-0 7 4x4 = 4x4 =3x8 == 7-2-0 LOADING (psf) SPACING-(loc) 2-0-0 CSI. DEFL. l/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.22 Vert(LL) -0.04 6-7 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.07 6-7 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.31 Horz(CT) 0.00 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-MS Wind(LL) 0.01 >999 240 Weight: 108 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP 2400F 2.0E except end verticals. 2x4 SP No.3 **BOT CHORD** WEBS Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=-199(LC 6) Max Grav 8=562(LC 1), 6=562(LC 1)

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

TOP CHORD 2-3=-430/98, 3-4=-430/98

BOT CHORD 7-8=-39/348, 6-7=0/279

WEBS 3-7=-94/349, 2-8=-419/0, 4-6=-419/0

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Trụss Ply Truss Type Qty Lowes 647/Humbert 169579855 28305 T16 Common 3 Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:59 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-EjVxnwoqfmNOfNwJW?c6mMFAEz8eyZ7Vp6Zi2qyJcI6 1-2-8 4-6-0

4x4 ==

3x6 // 3x6 // 5 [0.9]

3x8 =

BRACING-

TOP CHORD

BOT CHORD

1.5x4 ||

except end verticals.

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

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

9-0-0

LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) l/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.33 Vert(LL) -0.01 7-8 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1,15 вс 0.08 -0.02 Vert(CT) 7-8 >999 240 **BCLL** 0.0 * Rep Stress Incr YES WB 0.06 Horz(CT) -0.00 6 n/a n/a **BCDL** Code IRC2018/TPI2014 10.0 Matrix-MS Wind(LL) 0.00 >999 240 Weight: 65 lb FT = 20%

4-6-0

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3

(size) 8=0-3-8, 6=0-3-8

Max Horz 8=168(LC 7)

Max Uplift 8=-22(LC 8), 6=-22(LC 8) Max Grav 8=430(LC 1), 6=430(LC 1)

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

TOP CHORD 2-3=-289/39, 3-4=-289/39, 2-8=-396/41, 4-6=-396/41

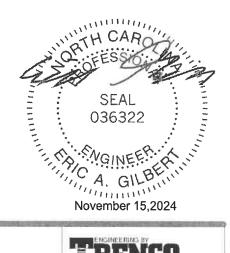
NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ff; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

1.5x4 ||

- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 8, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Scale = 1:44.9

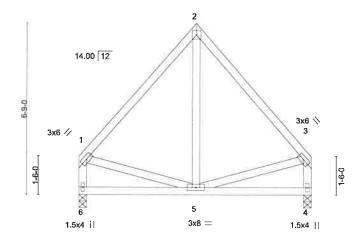
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

ERENCO

Job Truss Truss Type Qty Lowes 647/Humbert 169579856 28306 T17 Common 2 Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:59 2024 Page 1 C&R Truss, Autryville, NC - 28318, ID:43FmfUEpnBwxW36Q?RCfByzursR-EjVxnwoqfmNOfNwJW?c6mMF94z8eyZ8Vp6Zi2qyJcl6 4-6-0 4-6-0 4-6-0 Scale = 1:44.9 4x4 =



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.08	Vert(CT)	-0.02	5-6	>999	240		2.0,700
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-MS	Wind(LL)	0.00	5	>999	240	Weight: 60 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

4-6-0

except end verticals.

4-6-0 4-6-0

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3

(size) 6=0-3-8, 4=0-3-8

Max Horz 6=-136(LC 6)

Max Grav 6=348(LC 1), 4=348(LC 1)

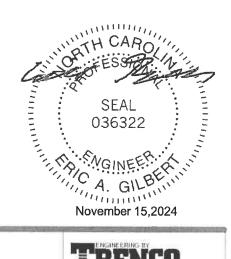
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-273/26, 2-3=-273/26, 1-6=-315/12, 3-4=-315/12

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ff; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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. 1/2/2023 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, in 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 paramenter 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



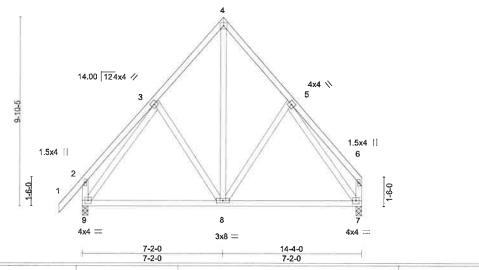
Job Truss Qty Lowes 647/Humbert Truss Type Ply 169579857 28305 T18 2 Common Job Reference (optional) Autryville, NC - 28318, C&R Truss, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:37:59 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-EjVxnwoqfmNOfNwJW?c6mMFCrz6kyU_Vp6Zi2qyJcl6

7-2-0

4x4 =

10-7-4 3-5-4

Scale = 1:59.6



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20,0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.04	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.07	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-MS	Wind(LL)	0.01	8	>999	240	Weight: 111 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E **WEBS** 2x4 SP No.3

REACTIONS. (size) 9=0-3-8, 7=0-3-8

Max Horz 9=218(LC 7) Max Uplift 9=-16(LC 8)

Max Grav 9=647(LC 1), 7=558(LC 1)

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

TOP CHORD 3-4=-424/97, 4-5=-426/99, 2-9=-260/127

8-9=-40/340, 7-8=0/277 BOT CHORD

WEBS 4-8=-93/346, 3-9=-435/0, 5-7=-415/0

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 9.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

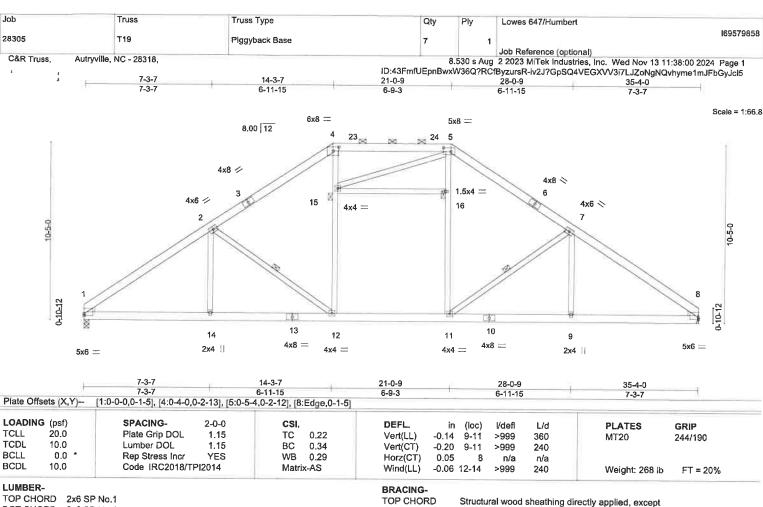


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2023 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 guildance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





BOT CHORD

WEBS

JOINTS

2-0-0 oc purlins (6-0-0 max.): 4-5.

2-12, 7-11

Rigid ceiling directly applied.

1 Brace at Jt(s): 15, 16

1 Row at midpt

TOP CHORD BOT CHORD 2x6 SP No.1

2x4 SP No.3 *Except* WEBS 4-12,5-11: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 8=Mechanical

Max Horz 1=-165(LC 6)

Max Grav 1=1413(LC 1), 8=1413(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-2048/0, 2-4=-1603/64, 4-5=-1307/77, 5-7=-1598/65, 7-8=-2051/0 TOP CHORD **BOT CHORD** 1-14=0/1680, 12-14=0/1680, 11-12=0/1287, 9-11=0/1599, 8-9=0/1599

WEBS 2-14=0/256, 2-12=-522/71, 12-15=0/500, 4-15=0/482, 11-16=0/488, 5-16=0/489,

7-11=-530/69, 7-9=0/264

NOTES-

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

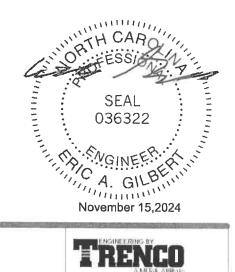
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

6) Refer to girder(s) for truss to truss connections.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 nijury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579859 28305 T20 Piggyback Base Job Reference (optional) C&R Truss. 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:00 2024 Page 1 Autryville, NC - 28318. ID:43FmfUEpnBwxW36Q?RCfByzursR-iv2J?GpSQ4VEGXVV3i7LJZoNRNQvhyle1mJFbGyJcl5 14-3-7 21-0-9 35-4-0 6-11-15 6-11-15 Scale = 1:67.5 6x8 = 5x8 = 8.00 12 25 4x8 4 4x8 > 4x6 🗸 16 4x6 🔷 17 4x4 = 3 0-10-12 0 0 14 11 15 13 12 10 4x8 = 4x8 = 5x6 = 2x4 4x4 = 4x4 = 2x4 || 5x6 = 21-0-9 14-3-7 28-0-9 35-4-0 7-3-7 6-11-15 6-9-3 Plate Offsets (X,Y)--[2:0-0-0,0-1-1], [5:0-4-0,0-2-13], [6:0-5-4,0-2-12], [9:Edge,0-1-5] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES GRIP** in (loc) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.23 Vert(LL) -0.14 10-12 >999 360 244/190 MT20 TCDL 10.0 -0.20 10-12 Lumber DOL 1.15 BC 0.34 Vert(CT) >999 240 **BCLL** 0.0 Rep Stress Inci YES WB 0.29 Horz(CT) 0.05 9 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 -0.06 13-15 >999 240 Weight: 271 lb Matrix-AS Wind(LL) FT ≈ 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

Structural wood sheathing directly applied, except

3-13, 8-12

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied.

1 Brace at Jt(s): 16, 17

1 Row at midpt

LUMBER-

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

WEBS 2x4 SP No.3 *Except*

5-13,6-12: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 9=Mechanical

Max Horz 2=174(LC 7)

Max Grav 2=1480(LC 1), 9=1412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2042/0, 3-5=-1600/63, 5-6=-1305/76, 6-8=-1596/64, 8-9=-2050/0 BOT CHORD 2-15=0/1673, 13-15=0/1673, 12-13=0/1285, 10-12=0/1598, 9-10=0/1598 **WEBS** 3-15=0/256, 3-13=-515/68, 13-16=0/497, 5-16=0/479, 12-17=0/488, 6-17=0/489,

8-12=-530/70, 8-10=0/265

NOTES-

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

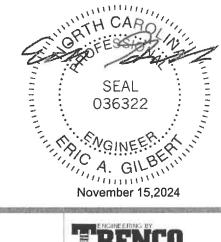
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

6) Refer to girder(s) for truss to truss connections.

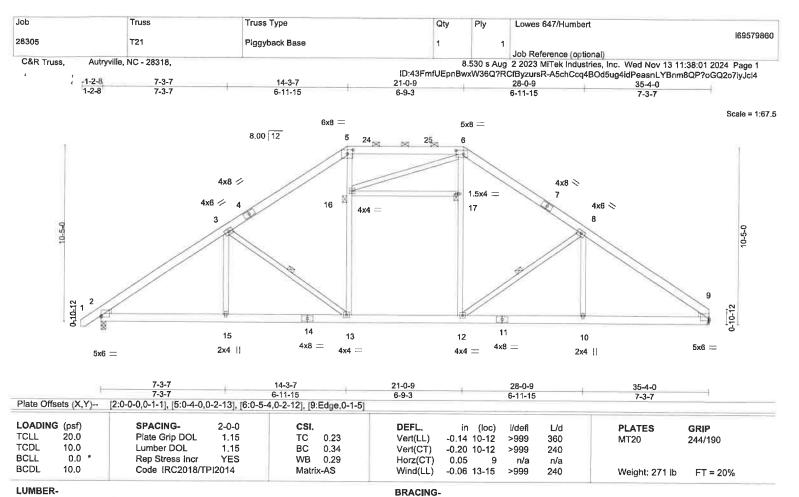
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 15,2024

🧥 WARNING - Verify drisign parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

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

WEBS 2x4 SP No.3 *Except* 5-13,6-12: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 9=Mechanical

Max Horz 2=174(LC 7)

Max Grav 2=1480(LC 1), 9=1412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2042/0, 3-5=-1600/63, 5-6=-1305/76, 6-8=-1596/64, 8-9=-2050/0 TOP CHORD $2\text{-}15\text{=}0/1673,\ 13\text{-}15\text{=}0/1673,\ 12\text{-}13\text{=}0/1285,\ 10\text{-}12\text{=}0/1598,\ 9\text{-}10\text{=}0/1598$ BOT CHORD WEBS 3-15=0/256, 3-13=-515/68, 13-16=0/497, 5-16=0/479, 12-17=0/488, 6-17=0/489,

8-12=-530/70, 8-10=0/265

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except

3-13, 8-12

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied.

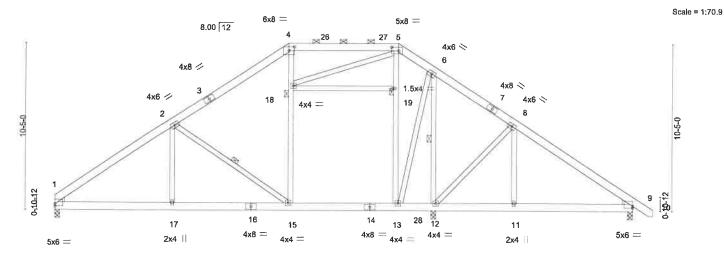
1 Brace at Jt(s): 16, 17

1 Row at midpt

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 1/2/2023 BEFORE USF Design valid for use only with MITe&® 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 _ANS/ITPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579861 28305 T22 Piggyback Base Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:01 2024 Page 1 ID: 43 Fmf UEpn BwxW36Q?RCfByzursR-A5chCcq4BOd5ug4idPeasnLYznmbQNKoGQ2o7iyJcl421-0-9 35-4-0 7-0-11 6-9-3 4-11-0



		7-2-12 7-2-12		14-3-7 7-0-11	21-0-9 6-9-3	23-2-4 2-1-11	28-1-4 4-11-0	-1	35-4-0 7-2-12	+
Plate Offse	ets (X,Y)	[1:0-0-0,0-1-9], [4:0-4-0,0	-2-13], [5:0-5-			2-1-11	4-11-0		7-2-12	
LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1,15 1,15 YES PI2014	CSI. TC 0.25 BC 0.37 WB 0.40 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.09 15-17 -0.18 15-17 0.04 9 0.05 15-17	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 293 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

Structural wood sheathing directly applied, except

2-15, 6-12

2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied.

1 Brace at Jt(s): 18, 19

1 Row at midpt

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.3 *Except*

4-15,5-13: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 12=0-3-8, 9=0-3-8

Max Horz 1=-174(LC 6)

Max Uplift 12=-14(LC 4), 9=-1(LC 8)

Max Grav 1=1283(LC 13), 12=593(LC 22), 9=1220(LC 1)

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

TOP CHORD 1-2=-1851/3, 2-4=-1394/72, 4-5=-1150/84, 5-6=-1226/96, 6-8=-1310/71, 8-9=-1607/10 BOT CHORD 1-17=0/1568, 15-17=0/1568, 13-15=0/1125, 12-13=0/1067, 11-12=0/1264, 9-11=0/1264 WEBS

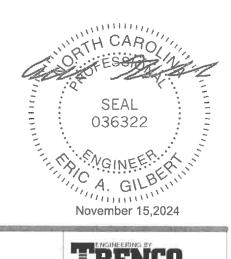
2-17=0/295, 2-15=-530/69, 15-18=0/453, 4-18=0/420, 13-19=-10/271, 5-19=-10/271,

6-12=-338/10, 8-12=-422/57

NOTES.

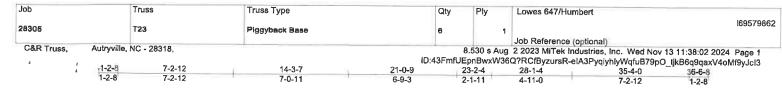
1) Unbalanced roof live loads have been considered for this design.

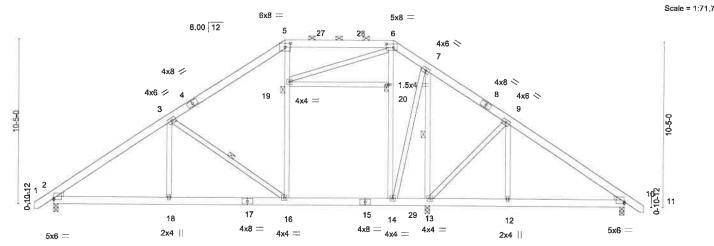
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 9.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PASE MIL-7473 rev. 1/2/2023 BEFORE USE,
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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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)







	7-2-12	ű.	14-3-7		21-0-9	23-2-4	28-1-4		35-4-0	
	7-2-12		7-0-11		6-9-3	2-1-11	4-11-0		7-2-12	17
ets (X,Y)	[2:0-0-0,0-1-1], [5:0-4-0,0)-2-13], [6:0-5-	4,0-2-12], [10	:Edge,0-1-5]						
(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	. ,				244/190
10.0	Lumber DOL	1.15	ВС	0.37	Vert(CT)	-0.18 16-18	>999	240		211/100
0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04 10	n/a	n/a		
10.0	Code IRC2018/TF	PI2014	Matrix	-AS	Wind(LL)	0.05 16-18	>999	240	Weight: 296 lb	FT = 20%
	(psf) 20.0 10.0 0.0 *	7-2-12 ets (X,Y) [2:0-0-0,0-1-1], [5:0-4-0,0 i (psf) SPACING- 20.0 Plate Grip DOL 10.0 Lumber DOL 0.0 * Rep Stress Incr	7-2-12 ets (X,Y) [2:0-0-0,0-1-1], [5:0-4-0,0-2-13], [6:0-5- i (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.15 10.0 Lumber DOL 1.15 0.0 * Rep Stress Incr YES	7-2-12 7-0-11 ets (X,Y) [2:0-0-0,0-1-1], [5:0-4-0,0-2-13], [6:0-5-4,0-2-12], [10 i (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.15 TC 10.0 Lumber DOL 1.15 BC 0.0 * Rep Stress Incr YES WB	7-2-12 7-0-11 ets (X,Y) [2:0-0-0,0-1-1], [5:0-4-0,0-2-13], [6:0-5-4,0-2-12], [10:Edge,0-1-5] i (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.15 TC 0.25 10.0 Lumber DOL 1.15 BC 0.37 0.0 * Rep Stress Incr YES WB 0.40	7-2-12 7-0-11 6-9-3 ets (X,Y) [2:0-0-0,0-1-1], [5:0-4-0,0-2-13], [6:0-5-4,0-2-12], [10:Edge,0-1-5] i (psf) SPACING- 2-0-0 CSI. DEFL. 20.0 Plate Grip DOL 1.15 TC 0.25 Vert(LL) 10.0 Lumber DOL 1.15 BC 0.37 Vert(CT) 0.0 * Rep Stress Incr YES WB 0.40 Horz(CT)	7-2-12 7-0-11 6-9-3 2-1-11 ets (X,Y) [2:0-0-0,0-1-1], [5:0-4-0,0-2-13], [6:0-5-4,0-2-12], [10:Edge,0-1-5] i (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.15 TC 0.25 Vert(LL) -0.09 16-18 10.0 Lumber DOL 1.15 BC 0.37 Vert(CT) -0,18 16-18 0.0 * Rep Stress Incr YES WB 0.40 Horz(CT) 0.04 10	7-2-12 7-0-11 6-9-3 2-1-11 4-11-0 ets (X,Y)— [2:0-0-0,0-1-1], [5:0-4-0,0-2-13], [6:0-5-4,0-2-12], [10:Edge,0-1-5] i (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl 20.0 Plate Grip DOL 1.15 TC 0.25 Vert(LL) -0.09 16-18 >999 10.0 Lumber DOL 1.15 BC 0.37 Vert(CT) -0.18 16-18 >999 0.0 * Rep Stress Incr YES WB 0.40 Horz(CT) 0.04 10 n/a	7-2-12 7-0-11 6-9-3 2-1-11 4-11-0 ets (X,Y) [2:0-0-0,0-1-1], [5:0-4-0,0-2-13], [6:0-5-4,0-2-12], [10:Edge,0-1-5] i (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d 20.0 Plate Grip DOL 1.15 TC 0.25 Vert(LL) -0.09 16-18 >999 360 10.0 Lumber DOL 1.15 BC 0.37 Vert(CT) -0.18 16-18 >999 240 0.0 * Rep Stress Incr YES WB 0.40 Horz(CT) 0.04 10 n/a n/a	7-2-12 7-0-11 6-9-3 2-1-11 4-11-0 7-2-12 ets (X,Y)— [2:0-0-0,0-1-1], [5:0-4-0,0-2-13], [6:0-5-4,0-2-12], [10:Edge,0-1-5] i (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES 20.0 Plate Grip DOL 1.15 TC 0.25 Vert(LL) -0.09 16-18 >999 360 MT20 10.0 Lumber DOL 1.15 BC 0.37 Vert(CT) -0.18 16-18 >999 240 0.0 * Rep Stress Incr YES WB 0.40 Horz(CT) 0.04 10 n/a n/a

LUMBER-

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

2x4 SP No.3 *Except* WEBS 5-16,6-14: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD

Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-6. Rigid ceiling directly applied.

BOT CHORD WEBS

JOINTS

1 Row at midpt 3-16, 7-13

1 Brace at Jt(s): 19, 20

REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 10=0-3-8

Max Horz 2=-177(LC 6)

Max Uplift 13=-9(LC 4), 10=-1(LC 8)

Max Grav 2=1343(LC 13), 13=593(LC 22), 10=1219(LC 1)

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

BOT CHORD

2-3=-1845/1, 3-5=-1391/71, 5-6=-1148/83, 6-7=-1224/95, 7-9=-1308/70, 9-10=-1604/9 2-18=0/1560, 16-18=0/1560, 14-16=0/1123, 13-14=0/1065, 12-13=0/1262, 10-12=0/1262

3-18=0/294, 3-16=-523/66, 16-19=0/450, 5-19=0/417, 14-20=-10/271, 6-20=-10/271,

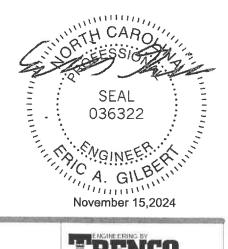
7-13=-338/6, 9-13=-423/57

NOTES-

WEBS

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

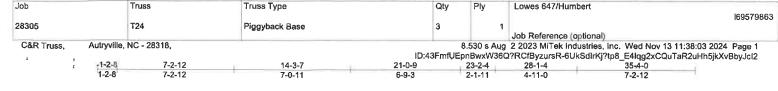
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 10.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

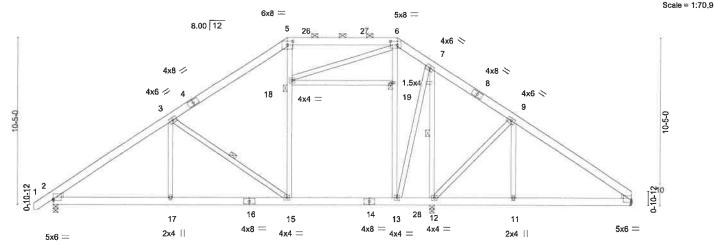


🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 19v. 1/2/2023 BEFORE USE, WALTURIS - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFLECINCE PAGE MILTAT3 ray, 12:2023 BEFORE USE.

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 damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)







		7-2-12		14-3-7		21-0-9	23+2-4	20-	-4	33-4-0	12
		7-2-12		7-0-11		6-9-3	2-1-11	4-11	-0	7-2-12	
Plate Offse	ts (X,Y)	[2:0-0-0,0-1-1], [5:0-4-0,0	-2-13], [6:0-5	-4,0-2-12], [10	:Edge,0-1-9	1					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.09 15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.18 15-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	<-AS	Wind(LL)	0.05 15-17	>999	240	Weight: 293 lb	FT = 20%
						, , , , , , , , , , , , , , , , , , , ,					

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

Structural wood sheathing directly applied, except

3-15, 7-12

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied.

1 Brace at Jt(s): 18, 19

1 Row at midpt

LUMBER-

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

WEBS 2x4 SP No.3 *Except* 5-15,6-13: 2x4 SP No.2

WEDGE

REACTIONS.

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

(size) 2=0-3-8, 12=0-3-8, 10=Mechanical

Max Horz 2=174(LC 7) Max Uplift 12=-9(LC 4)

Max Grav 2=1343(LC 13), 12=595(LC 22), 10=1151(LC 1)

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

TOP CHORD 2-3=-1846/0, 3-5=-1392/70, 5-6=-1149/82, 6-7=-1224/93, 7-9=-1310/69, 9-10=-1609/9 BOT CHORD 2-17=0/1554, 15-17=0/1554, 13-15=0/1117, 12-13=0/1059, 11-12=0/1260, 10-11=0/1260 WEBS 3-17=0/294, 3-15=-523/66, 15-18=0/450, 5-18=0/417, 13-19=-8/271, 6-19=-8/270,

7-12=-336/7, 9-12=-430/60

NOTES-

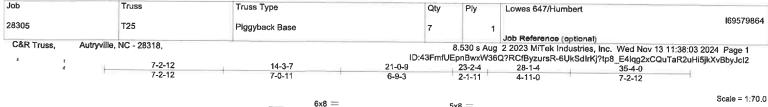
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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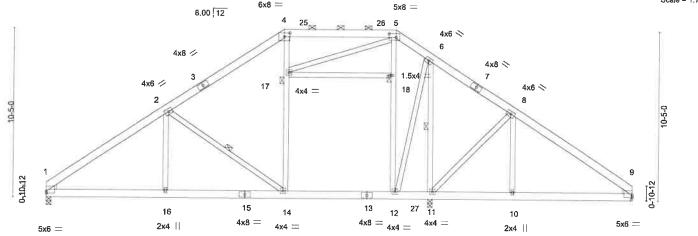


Plate Offse	ets (X,Y)	7-2-12 7-2-12 [1:0-0-0,0-1-9], [4:0-4-0,0	0-2-13], [5:0-5	14-3-7 7-0-11 4.0-2-12], [9:Edge.0-1-9]	21-0-9 6-9-3	23-2-4 2-1-11	28-1 4-1		35-4-0 7-2-12	
LOADING TCLL TCDL BCLL BCDL		SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES	CSI. TC 0.25 BC 0.37 WB 0.41 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.09 14-16 -0.18 14-16 0.04 9 0.05 14-16	i/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 290 lb	GRIP 244/190 FT = 20%

LUMBER-

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

WEBS 2x4 SP No.3 *Except* 4-14.5-12: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

WEBS

JOINTS

TOP CHORD

Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-5.

2-14, 6-11

BOT CHORD Rigid ceiling directly applied

1 Row at midpt

1 Brace at Jt(s): 17, 18

REACTIONS.

(size) 1=0-3-8, 11=0-3-8, 9=Mechanical

Max Horz 1=-165(LC 6) Max Uplift 11=-14(LC 4)

Max Grav 1=1284(LC 13), 11=595(LC 22), 9=1152(LC 1)

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

TOP CHORD 1-2=-1852/3, 2-4=-1395/71, 4-5=-1151/83, 5-6=-1226/94, 6-8=-1312/70, 8-9=-1611/9 **BOT CHORD** 1-16=0/1561, 14-16=0/1561, 12-14=0/1119, 11-12=0/1061, 10-11=0/1261, 9-10=0/1261 WEBS 2-16=0/295, 2-14=-530/69, 14-17=0/454, 4-17=0/420, 12-18=-9/271, 5-18=-9/271,

6-11=-336/11, 8-11=-430/60

NOTES-

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

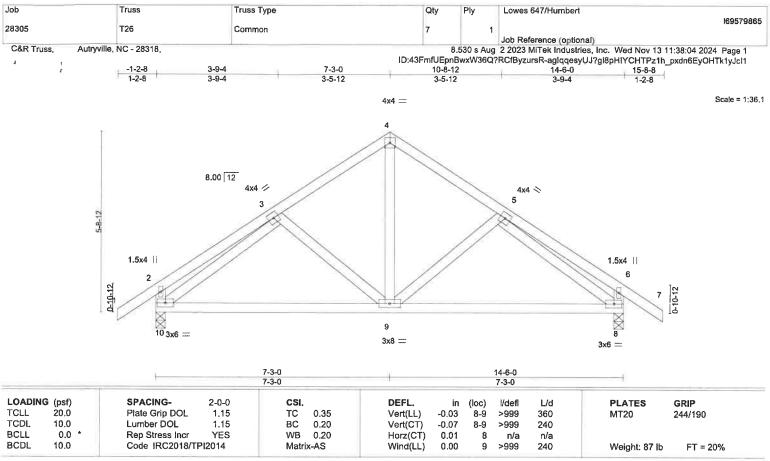
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



🛦 WARNING - Verify dissign parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev., 1/2/2023 BEFORE USE WARNING - verily disign parameters and READ NOTES ON THIS ARD INCLUDED MITTER REPERINCE PAGE MIL-47-3 RS. INJUZ/S BEFORE USE.

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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP 2400F 2.0E BOT CHORD

2x4 SP No.3 WEBS

REACTIONS.

(size) 10=0-3-8, 8=0-3-8 Max Horz 10=110(LC 7)

Max Uplift 10=-17(LC 8), 8=-17(LC 8) Max Grav 10=650(LC 1), 8=650(LC 1)

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

TOP CHORD 3-4=-528/30, 4-5=-528/30, 2-10=-281/45, 6-8=-281/45

BOT CHORD 9-10=0/488, 8-9=0/482

WEBS 4-9=0/347, 3-10=-463/15, 5-8=-463/15

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 10, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

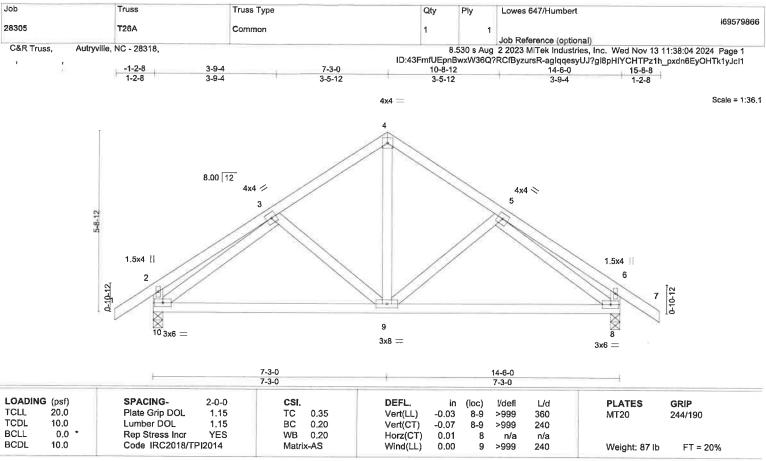


Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 2x4 SP 2400F 2.0E BOT CHORD

2x4 SP No.3 WERS

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

Max Horz 10=110(LC 7)

Max Uplift 10=-17(LC 8), 8=-17(LC 8) Max Grav 10=650(LC 1), 8=650(LC 1)

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

TOP CHORD 3-4=-528/30, 4-5=-528/30, 2-10=-281/45, 6-8=-281/45

BOT CHORD 9-10=0/488, 8-9=0/482

WEBS 4-9=0/347, 3-10=-463/15, 5-8=-463/15

NOTES-

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

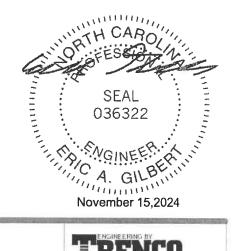
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60

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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 10, 8. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Type Qty Lowes 647/Humbert 169579867 28305 T27 Common Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:04 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-agiqqesyUJ?gl8pHIYCHTPz1h_pxdnFEyOHTk1yJcl1 7-3-0 3-5-12 14-6-0 3-5-12 3-9-4 Scale = 1:36.0 4x4 = 3 8.00 12 4x4 🗸 4x4 <> 1.5x4 1.5x4 5 0-10-12 0-10-12 7 3x6 3x8 = 3x6 = 7-3-0 LOADING (psf) SPACING-**PLATES** 2-0-0 CSI. DEFL. I/defi GRIP in (loc) I/dTCLL 20.0 Plate Grip DOL 1.15 244/190 TC 0.35 Vert(LL) -0.036-7 >999 360 MT20 TCDL 10.0 BC Lumber DOL 1.15 0.20 Vert(CT) -0.07 6-7 >999 240 BCLL 0,0 Rep Stress Incr YES WB 0.19 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-AS Wind(LL) 0.01 7 >999 240 Weight: 83 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP 2400F 2.0E 2x4 SP No.3 **WEBS**

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

Max Horz 8=-95(LC 6)

Truss

Max Grav 8=568(LC 1), 6=568(LC 1)

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

TOP CHORD 1-2=-256/14, 2-3=-542/33, 3-4=-542/33, 4-5=-256/14

BOT CHORD 7-8=0/503, 6-7=0/503

WEBS 3-7=0/353, 2-8=-444/14, 4-6=-444/14

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lowes 647/Humbert 169579868 28305 TGE3 GABLE 1 Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:08 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-TSXLg?vTXXV6El62XOGDeF7oibEnZcpqt0FgsoyJcHz 14-3-7 21-0-9 35-4-0 6-9-3 14-3-7 Scale = 1:66.3 4x8 == 4x8 = 8.00 12 1342 14 10 41 11 12 8 15 8x8 / 8x8 > 16 17 18 19 20 21 0,10-12 0-10-12 5x8 35 34 33 28 27 39 38 37 36 32 31 30 29 26 25 24 23 4x8 = 4x8 = 35-4-0 Plate Offsets (X,Y)--[6:0-4-0,0-4-8], [9:0-4-0,0-2-13], [13:0-4-0,0-2-13], [16:0-4-0,0-4-8], [28:0-3-0,0-2-0], [34:0-3-0,0-2-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in I/defl L/d **PLATES GRIP** (loc) TCII 20 0 1.15 Plate Grip DOL TC 0.02 Vert(LL) n/a 999 MT20 244/190 n/a TCDL 10.0 Lumber DOL 1,15 BC 0.02 Vert(CT) 999 n/a n/a BCLL 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.00 21 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 330 lb FT = 20%LUMBER-**BRACING-**2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2x6 SP No.1 2-0-0 oc purlins (6-0-0 max.): 9-13. 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 11-31, 10-32, 8-33, 12-30, 14-29

TOP CHORD **BOT CHORD**

OTHERS WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. All bearings 35-4-0.

(lb) - Max Horz 1=-172(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 21, 31, 35, 36, 37, 38, 39, 40, 27, 26, 25, 24, 23, 22 Max Grav All reactions 250 lb or less at joint(s) 1, 21, 31, 32, 33, 35, 36, 37, 38, 39, 40, 30, 29, 27, 26,

25, 24, 23, 22

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 21, 31, 35, 36, 37, 38, 39, 40, 27, 26, 25, 24, 23, 22.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MARNING - Varify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL7473 rev. 1/2/2023 REFORE USE Design valid for use only with MITE&® 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, delivery, erection and bracing of trusses and truss systems, see _ANS/ITPI Quality Criteria and DSB-22 available from Truss Plate institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lowes 647/Humbert 169579869 28305 TGE4 GABI F Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:09 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-xe5jtLw5IrdzsvhE55nSATgyS?Z0I32z6g_DOFyJcHy 14-3-7 14-3-7 21-0-9 14-3-7 Scale = 1:66.3 4x8 = 4x8 =8.00 12 10 41 11 12 13⁴² 14 15 8x8 / 8x8 💸 16 6 17 18 19 20 21 0-10-12 0-10-12 5x8 [] 5x8 || 35 34 33 27 39 38 37 36 32 31 30 29 28 26 25 24 23 22 4x8 == 4x8 = 35-4-0 35-4-0 $[6:0\text{-}4\text{-}0.0\text{-}4\text{-}8],\ [9:0\text{-}4\text{-}0.0\text{-}2\text{-}13],\ [13:0\text{-}4\text{-}0.0\text{-}2\text{-}13],\ [16:0\text{-}4\text{-}0.0\text{-}4\text{-}8],\ [28:0\text{-}3\text{-}0.0\text{-}2\text{-}0],\ [34:0\text{-}3\text{-}0.0\text{-}2\text{-}0]$ Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. in I/defl L/d **PLATES GRIP** (loc) TCLL 20.0 Plate Grip DOL 1.15 TC 0.02 Vert(LL) n/a 999 MT20 244/190 n/a TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.00 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 330 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD

WEBS

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

2x4 SP No.3 **OTHERS** WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. All bearings 35-4-0.

(lb) - Max Horz 1=-172(LC 6)

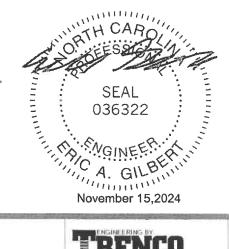
Max Uplift All uplift 100 lb or less at joint(s) 1, 21, 31, 35, 36, 37, 38, 39, 40, 27, 26, 25, 24, 23, 22 Max Grav All reactions 250 lb or less at joint(s) 1, 21, 31, 32, 33, 35, 36, 37, 38, 39, 40, 30, 29, 27, 26,

25, 24, 23, 22

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=35ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20,0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 21, 31, 35, 36, 37, 38, 39, 40, 27, 26, 25, 24, 23, 22.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



11-31, 10-32, 8-33, 12-30, 14-29

2-0-0 oc purlins (6-0-0 max.): 9-13.

1 Row at midpt

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. 1/2/2023 BEFORE USE. Design valid for use only with MITER® 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, delivery, erection and bracing of trusses and truss systems, see ANS/ITP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lowes 647/Humbert 169579870 28305 V5 Valley 2 Job Reference (optional) C&R Truss. 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:13 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-pPLEjjzcM48OKX??KxsOLJqdWcvDEuiZ1lyRX0yJcHu Autryville, NC - 28318, 6-7-15 6-7-15 4x4 = Scale = 1:49.9 3 14.00 12 1.5x4 1.5x4 || 4 () 4x4 // 4x4 \\ 6 1.5x4 1.5x4 || 1.5x4 13-3-10 13-3-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES GRIP** TCLL 20.0 Plate Grip DOL 1.15 0.08 TC Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.19 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.00 5 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 67 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2

2x4 SP No 3 OTHERS

REACTIONS. All bearings 13-3-7. (lb) -

Max Horz 1=-149(LC 6) Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-111(LC 8), 6=-111(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=327(LC 13), 8=415(LC 13), 6=415(LC 14)

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

WEBS

2-8=-279/152, 4-6=-279/152

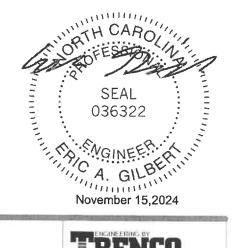
NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=111, 6=111.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

🗥 WARNING - Verify design paremeters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 (1947, 1/2/2023 BEFORE USE Design valid for use only with MITE-80 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Reference (optional) C&R Truss, Autryville, NC - 28318. 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:13 2024 Page 1 ID: 43 FmfUE pnBwxW36Q?RCfByzursR-pPLEjjzcM48OKX??KxsOLJqdUcwHEuJZ1IyRX0yJcHuID: 44 FmfUE pnBwxW36Q?RCfByzursR-pPLEjjzcM48QRCfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48QrcfW48Qrcf5-6-3 11-0-7 4x4 = Scale = 1:42.2 3 14.00 12 6-5-4 1.5x4 || 1,5x4 || 404 4x4 // 4x4 📏 8 7 6 1.5x4 || 1.5x4 | 1.5x4 || 11-0-7 LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl L/d **PLATES** GRIP in (loc) TCLL 20.0 Plate Grip DOL 1,15 TC 0.09 Vert(LL) 244/190 999 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.12 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.08 5 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 52 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Qty

2

Ply

Lowes 647/Humbert

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

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

169579871

LUMBER-

Job

28305

2x4 SP 2400F 2.0E TOP CHORD

BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 11-0-0.

Max Horz 1=-122(LC 6) (lb) -

Truss

V6

Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-101(LC 6), 8=-111(LC 8), 6=-111(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=347(LC 13), 6=346(LC 14)

Truss Type

Valley

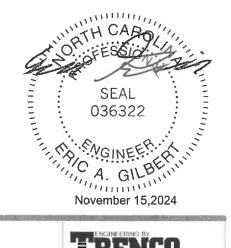
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-8=-287/156, 4-6=-287/156

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=101, 8=111, 6=111,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



🗥 WARNING - Verify dusign parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE, wakning - yeary design parameters and READ NOTES DIV FHIS AND INCLUDED MITER REFERENCE PACE MIT-473 fet, 102/023 BEFORE USE.

Design valid for use only with MITER's connectors. This design is based only upon parameters shown, and is for an individual bullding component, not a truss system. Before use, the bullding 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, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579872 28305 V7 Valley 2 1 Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:13 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-pPLEjjzcM48OKX??KxsOLJqcRcvaEvfZ1IyRX0yJcHu 4x4 = Scale = 1:34.5 2 14.00 12 3 90 -0-0 2x4 // 4 2x4 \ 1.5x4 || 0-0-3 8-9-0 8-8-13 LOADING (psf) SPACING-2-0-0 CSI. DEFL. 1 /d PLATES in l/defi GRIP (loc) TCLL 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.17 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-P Weight: 38 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

REACTIONS.

(size) 1=8-8-9, 3=8-8-9, 4=8-8-9

Max Horz 1=-95(LC 6)

Max Uplift 1=-21(LC 8), 3=-21(LC 8)

Max Grav 1=212(LC 1), 3=212(LC 1), 4=244(LC 3)

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

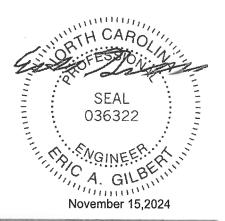
NOTES

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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 MI-7473 rev. 1/2/2023 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 damage. For general guildance regarding the fabrication, storage, delivery, eraction and bracing of trusses and truss systems, see ANPTPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lowes 647/Humbert Ply 169579873 VA 28305 Valley 2 Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MITek Industries, Inc. Wed Nov 13 11:38:14 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-lbvcx2_E7NGFygaCueNdtWNoP0G3zLOiFyi_3SyJcHt 3-2-13 4x4 = Scale = 1:26.1 2 14.00 12 3 9-0-4 -5 2x4 // 2x4 \ 1.5x4 || 0-0-3 6-5-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL (loc) I/defl L/d **PLATES** GRIP TCLL. 20.0 Plate Grip DOL 1,15 TC 0.07 Vert(LL) n/a 999 MT20 244/190 n/a TCDL 10.0 Lumber DOL 1.15 ВÇ 0.09 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-P Weight: 28 lb FT = 20%BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

REACTIONS.

(size) 1=6-5-2, 3=6-5-2, 4=6-5-2

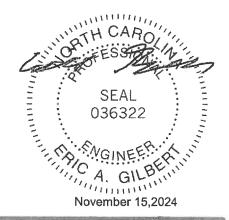
Max Horz 1≈-69(LC 6)

Max Uplift 1=-15(LC 8), 3=-15(LC 8)

Max Grav 1=152(LC 1), 3=152(LC 1), 4=175(LC 3)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1,60
- 3) Gable requires continuous bottom chord bearing.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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. 1/2/2023 BEFORE USE,

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal Injury and property damage, For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qtv Plv Lowes 647/Humbert 169579874 28305 V9 Valley Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MITek Industries, Inc. Wed Nov 13 11:38:14 2024 Page 1 $ID: 43 Fmf UEpn BwxW36Q?RCf Byzurs R-lbvcx2_E7NGFygaCueNdtWNpA0HwzLbiFyi_3SyJcHt$ 4-2-2 2-1-1 2^{4x4} = Scale = 1:15.0 14.00 12 3 0-0-4 <u>5</u> 2x4 // 1.5x4 || 2x4 \ 4-1-15 4-2-2 0-0-3 4-1-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL (loc) l/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.03 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr WB 0.01 YES Horz(CT) 0.00 3 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-P Weight: 17 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

REACTIONS.

(size) 1=4-1-11, 3=4-1-11, 4=4-1-11

Max Horz 1=-42(LC 6)

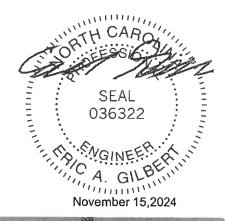
Max Uplift 1=-9(LC 8), 3=-9(LC 8)

Max Grav 1=93(LC 1), 3=93(LC 1), 4=107(LC 3)

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ff; B=45ff; L=24ff; eave=4ff; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-2-2 oc purlins.

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

WARNING - Verify design perameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 chembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see "ANSI/TPI1 Quality Critoria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



28305 V10 Valley Job Reference (optional) C&R Truss. Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:09 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-xe5jtLw5IrdzsvhE55nSATgwh?Xtl5mz6g_DOFyJcHy 4x4 = 2 14.00 12 3 \$ -9-************************************ 2x4 // 4 2x4 📏 1.5x4 || 0-0-3 8-4-7 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** L/d GRIP in (loc) l/defl **TCLL** 20.Ó Plate Grip DOL 1.15 TC 0.14 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.15 Vert(CT) n/a n/a 999

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

n/a

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

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

Weight: 36 lb

FT = 20%

Qty

Ply

Lowes 647/Humbert

169579875

LUMBER-

BCLL

BCDL

Job

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2

0.0

10.0

OTHERS 2x4 SP No.3

REACTIONS. (size) 1=8-4-0, 3=8-4-0, 4=8-4-0

Truss

Truss Type

Max Horz 1=-91(LC 6)

Max Uplift 1=-20(LC 8), 3=-20(LC 8)

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav 1=202(LC 1), 3=202(LC 1), 4=233(LC 3)

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

NOTES

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

 Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

WB

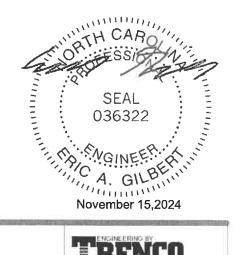
Matrix-P

0.05

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITE&® 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 damage. For general guidance regarding the fabrication, storage, delivery, eraction and bracing of trusses and truss systems, see AMSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579876 28305 V11 Valley Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:10 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-Pqf55hxj39mqT3GQfoJhjgC6ZPuI1YR7KKknwhyJcHx 3-0-8 4x4 = Scale = 1:24.6 2 14.00 12 3 9-0-4 <u>.</u>4 2x4 // 2x4 \ 1.5x4 0-0-3 6-1-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in I/defl 1/d PLATES (loc) GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL вс 1.15 0.08 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-P Weight: 26 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. (size) 1=6-0-9, 3=6-0-9, 4=6-0-9

Max Horz 1=-64(LC 6)

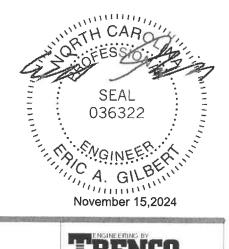
Max Uplift 1=-14(LC 8), 3=-14(LC 8)

Max Grav 1=142(LC 1), 3=142(LC 1), 4=164(LC 3)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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, 1/2/2023 REFORE USE. Design valid or 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lowes 647/Humbert 169579877 28305 V12 Valley 1 Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:10 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-Pqf55hxj39mqT3GQfoJhjgC7GPv41Yd7KKknwhyJcHx 1-10-13 3-9-9 1-10-13 4x4 = Scale = 1:13.9 14.00 12 ş 20.4 4 2x4 // 1.5x4 || 2x4 📏 0-0-3 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl 1/d**PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.02 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 3 n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-P Weight: 15 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS

REACTIONS. (size) 1=3-9-2, 3=3-9-2, 4=3-9-2

Max Horz 1=-37(LC 6)

Max Uplift 1=-8(LC 8), 3=-8(LC 8)

Max Grav 1=83(LC 1), 3=83(LC 1), 4=95(LC 3)

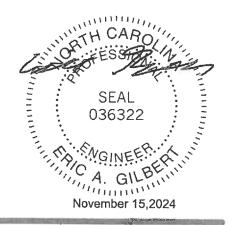
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ff; B=45ff; L=24ff; eave=4ff; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.

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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-9-9 oc purlins.

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

🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITCK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lowes 647/Humbert 169579878 28305 V13 Valley Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:10 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-Pqf55hxj39mqT3GQfoJhjgC66Puh1XT7KKknwhyJcHx 8-0-8 16-1-0 8-0-8 4x4 = Scale = 1:34.2 8.00 12 1.5x4 || 1.5x4 || 2 5 4x4 🥢 4x4 <> 9 8 7 6 1.5x4 || 1.5x4 1.5x4 || 3x6 = 16-0-10 16-1-0 0-0-6 16-0-10 LOADING (psf) SPACING-2-0-0 ÇSI. DEFL. L/d **PLATES** GRIP in l/defl (loc) **TCLL** 20.0 Plate Grip DOL TC 0.09 1.15 Vert(LL) 244/190 n/a n/a 999 MT20 **TCDL** 10.0 Lumber DOL 1.15 BC 0.12 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Inci WB YES 0.08 Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 64 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP 2400F 2.0E TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x4 SP No.2 **BOT CHORD** BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 16-0-4.

Max Horz 1=83(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=358(LC 19), 6=358(LC 20)

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

2-9=-270/85, 4-6=-270/85

NOTES.

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lowes 647/Humbert 169579879 28305 V14 Valley Job Reference (optional) 8.530 s Aug 2 2023 MITek Industries, Inc. Wed Nov 13 11:38:11 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-t0DTI1xLqSuh5DrdDWqwGuIH3pEpm?BGZ_TKS7yJcHw C&R Truss, Autryville, NC - 28318, 6-0-8 6-0-8 6-0-8 4x4 == Scale = 1:25.7 8.00 12 1.5x4 || 1.5x4 || 7 6 4x4 // 4x4 < 1.5x4 || 1.5x4 1.5x4 || 0-0-6 12-0-10 LOADING (psf) SPACING-CSL 2-0-0 DEFL in (loc) i/defi L/d **PLATES** GRIP TCLL 20.Ó Plate Grip DOL 1.15 TC 0.08 Vert(LL) n/a 999 244/190 n/a MT20 TCDL 10.0 Lumber DOL 1.15 вс 0.12 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 n/a n/a BCDI 10.0 Code IRC2018/TPI2014 Matrix-S FT = 20% Weight: 45 lb **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 12-0-4.

Max Horz 1=-61(LC 6) (lb) -

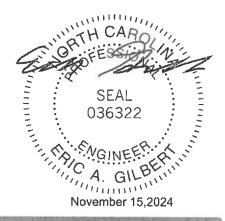
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

All reactions 250 lb or less at joint(s) 1, 5 except 7=259(LC 1), 8=295(LC 19), 6=295(LC 20)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



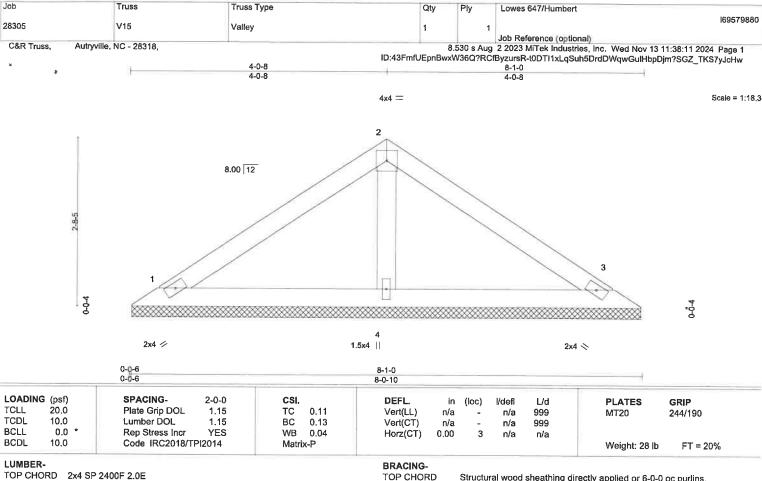
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

🚵 WARNING - Veilfy design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE WARNING - VERTY 068(gn parameters and KEAD NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE NIT-47-3 RV. 17/2/2/3 DEFURE USE.

Design valid for use only with MITER® 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 and DSB-22_available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





BOT CHORD

TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

REACTIONS.

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

Max Horz 1=-39(LC 6)

Max Uplift 1=-12(LC 8), 3=-12(LC 8)

Max Grav 1=157(LC 1), 3=157(LC 1), 4=255(LC 1)

FORCES. (ib) - 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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat, II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

WARNINC - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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
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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lowes 647/Humbert 169579881 28305 V16 Valley Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:11 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-t0DTl1xLqSuh5DrdDWqwGull1pEvm?0GZ_TKS7yJcHw 2-0-8 2-0-8 2-0-8 3x6 = Scale = 1:9.5 8.00 12 3 200 <u>τ</u> 2x4 // 2x4 <> 4-1-0 4-0-10 Plate Offsets (X,Y)-[2:0-3-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP Plate Grip DOL TCLL 20.0 1.15 TC 0.02 Vert(LL) n/a 999 244/190 n/a MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

0.00

999

n/a

Structural wood sheathing directly applied or 4-1-0 oc purlins.

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

Weight: 12 lb

FT = 20%

n/a

n/a

3

BCDL 10.0

TCDL

BCLL

LUMBER-TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2

10.0

0.0

REACTIONS. (size) 1=4-0-4, 3=4-0-4

Max Horz 1=17(LC 7)

Max Grav 1=125(LC 1), 3=125(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

вс

WB

Matrix-P

0.12

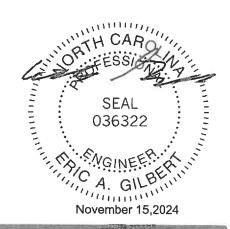
0.00

- Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lowes 647/Humbert 169579882 28305 V17 GABLE 2 Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:12 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-LDnrWNy_bm0XjNQpmDL9o5IQnDYGVSJPoeDu?ayJcHv 16-8-10

Scale = 1:26.8

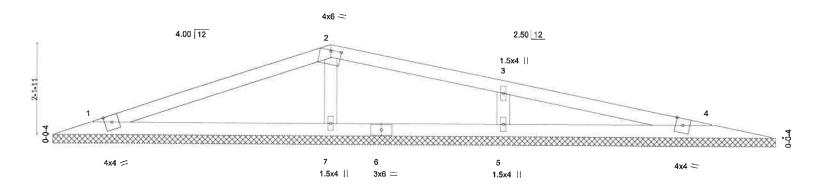


Plate Offsets (X,Y) [2:0-3-0,0-0-3]										
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.21 BC 0.24 WB 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	` '					Weight: 50 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

All bearings 16-8-10.

(lb) - Max Horz 1=-18(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 5

Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 7=394(LC 1), 5=410(LC 20)

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

WEBS 2-7=-277/37, 3-5=-314/74

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



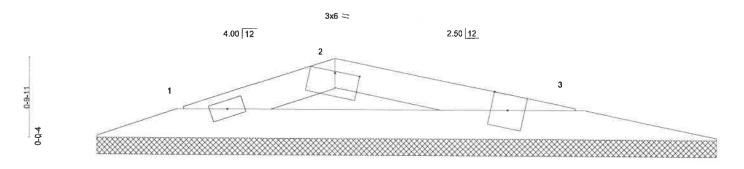
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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. 1/2/2023 BEFORE USE, Design valid for use only with MTEk® 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 _ANS/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job Truss Truss Type Qtv Lowes 647/Humbert 169579883 28305 V18 Valley Job Reference (optional) C&R Truss, Autryville, NC - 28318. 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed Nov 13 11:38:12 2024 Page 1 ID:43FmfUEpnBwxW36Q?RCfByzursR-LDnrWNy_bm0XjNQpmDL9o5ITMDYxVSGPoeDu?ayJcHv

Scale = 1:11.5



2x4 =

4x4 =

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

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

6-3-13 3-10-10

0-0-12 0-0-12 Plate Offsets (X,Y)	[2:0-3-0,0-0-3]	6-3-13 6-3-1						- C
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.19 WB 0.00	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	-	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 15 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD

2x4 SP No.2

(size) 1=6-1-14, 3=6-1-14

Max Horz 1=-5(LC 5)

Max Grav 1=155(LC 1), 3=155(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify dusign parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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