

| Site In Project Lot/Bld Model Addres City: Genera Drawin | formation t Customer ock: ss: al Truss Er ogs Show S | Blakenship ngineering Classification | Project riteria & ing Cond | St Desig | ubdivision: ate: n Loads (In s): | | - | Trenco 818 Soundside Rd Edenton, NC 27932 |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Wind C | ode: ASCE | C2018/TPI20 27-16 [All Hei | | | De | | MWFRS (D | virectional) ASCE 7-16 [All Heights] |
| | peed: 120 r bad: 40.0 ps | | | | FI | oor Load: N/A | A psf | |
| | loof Height | | | | E | xposure Categ | ory: B | |
| No. 1 2 3 4 5 6 7 8 9 10 112 13 14 16 17 | Seal# 172573207 172573208 172573209 172573210 172573211 172573213 172573214 172573215 172573216 172573216 172573219 172573219 172573220 172573220 172573222 | Truss Name AT1 AT2 CJ1 CJ2 G1 G2 J1 J2 J3 J4 J5 J6 J7 J8 J9 J11 PB1 | 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 | No. 35 36 37 39 40 41 43 44 45 46 47 48 49 50 | Seal# 172573241 172573242 172573243 172573244 172573245 172573246 172573246 172573247 172573248 172573250 172573250 172573253 172573254 172573255 172573255 172573258 172573258 172573258 172573259 172573260 172573261 172573262 172573263 | Truss Name T7 T8 T9 T10 T11 T12 T13 T14 T15 T16 T17 T18 T19 TG1 TG2 TG3 TG4 | 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 | |
| 18 19 20 21 22 23 25 26 27 28 29 30 31 32 34 | 172573223 172573224 172573224 172573225 172573227 172573228 172573229 172573231 172573232 172573233 172573233 172573234 172573236 172573236 172573238 172573238 172573239 172573239 172573240 | PB2 PB3 PB4 PB5 PB6 PB7 PB7 PB8 PB9 PB10 PB11 PB12 T1 PB12 T1 T2 T3 T4 T3 T4 T5 T6 | 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 | 52 55 55 55 55 55 55 55 55 55 66 23 45 66 66 66 66 66 | 172573258 172573259 172573260 172573261 172573262 172573263 172573264 172573266 172573266 172573266 172573267 172573268 172573269 172573270 172573270 172573271 172573271 | TG5 TG6 TGE1 TGE2 TSGE1 TSGE2 V1 | 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 4/8/25 | |

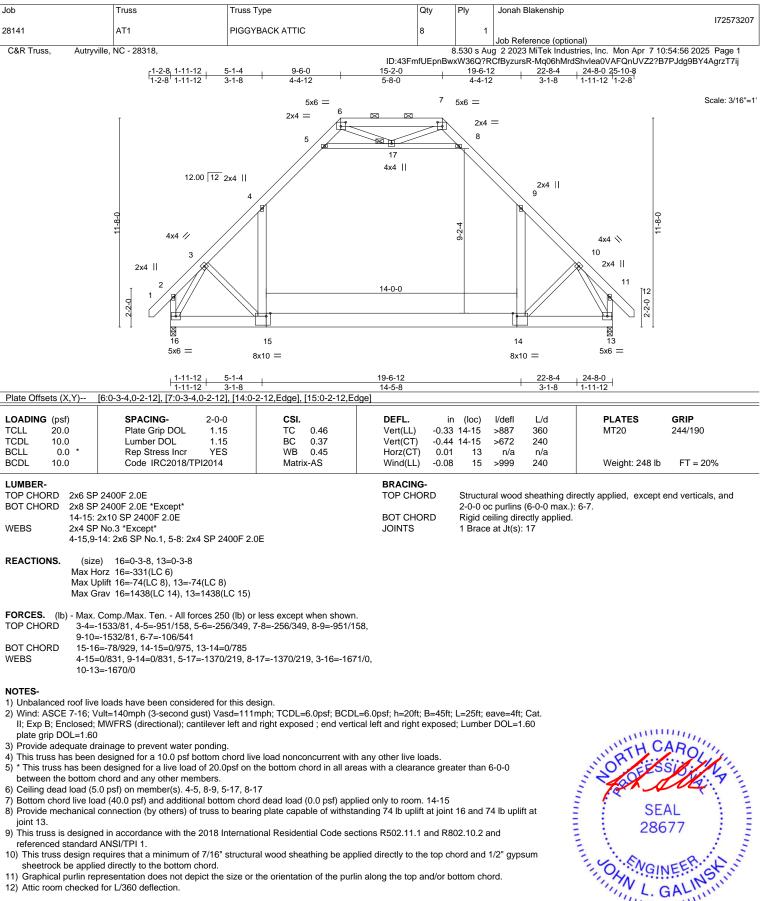
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters

My license renewal date for the state of North Carolina is December 31, 2025 **IMPORTANT NOTE:** The seal on these truss component designs is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer named is licensed in the iurisdiction (a) is a conference that the engineer name (b) is a conference 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.



Galinski, John

April 8,2025



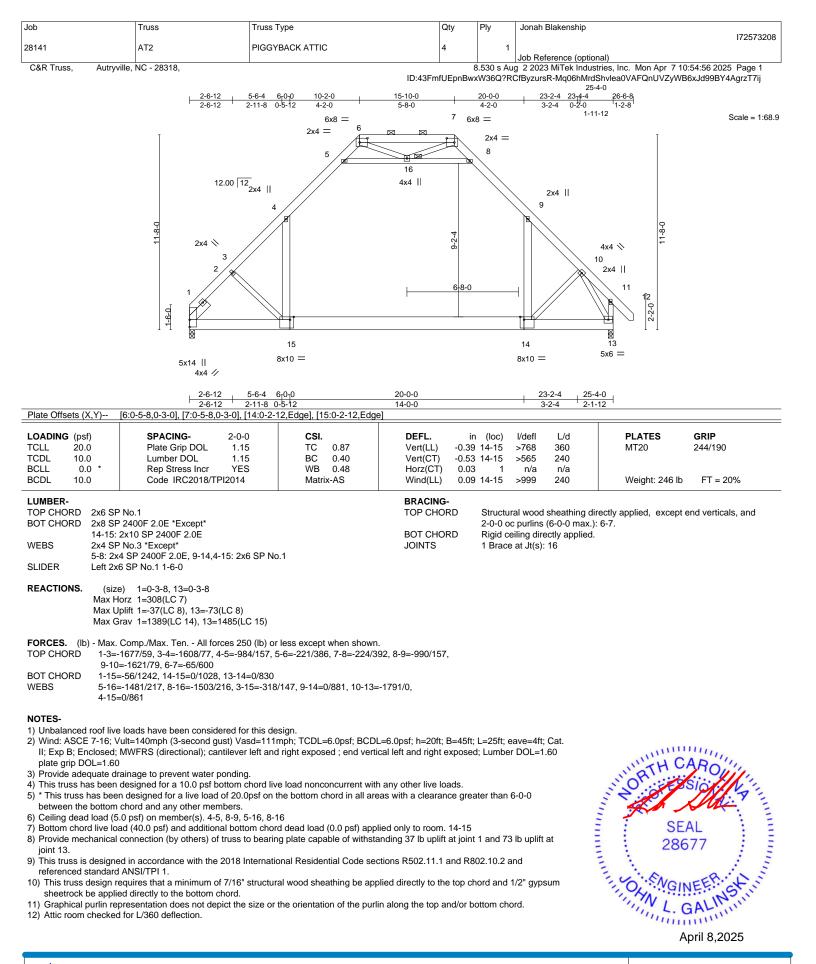
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

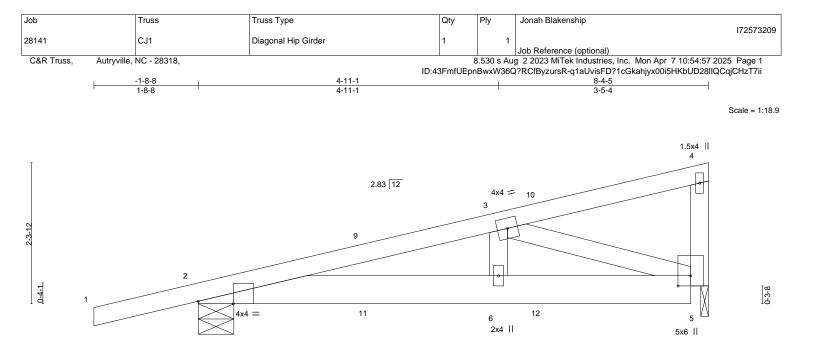
GA1

April 8,2025

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 a futs system: Denote use, the building designer inder very the applications of design had needed an intervent with a policitation of the system of the state of the system of the syste and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



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| | <u> </u> | <u>4-11-1</u> 4-11-1 | | | | 3-4-5 3-5-4 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------|-------------------------|--------------------------------------------------|------------------------------------|
| Plate Offsets (X,Y) | [2:0-6-14,Edge], [5:0-2-0,0-2-8] | | | | C | | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014 | CSI. TC 0.23 BC 0.21 WB 0.20 Matrix-MP | DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0 Wind(LL) 0.0 | 03 6-8 >99 01 5 n/ | 9 360 9 240 a n/a | PLATES MT20 Weight: 43 lb | GRIP 244/190 FT = 20% |
| LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x6 SP WEBS 2x4 SP | ' No.1 | | BRACING- TOP CHORD BOT CHORD | | | rectly applied or 6-0-0 or 10-0-0 oc bracing. |) oc purlins. |
| Max H Max U | e) 2=0-7-0, 5=0-1-8 orz 2=61(LC 19) plift 2=-34(LC 4) rav 2=463(LC 1), 5=360(LC 1) | | | | | | |
| TOP CHORD 2-3=- BOT CHORD 2-6=0 | Comp./Max. Ten All forces 250 (lb) of 716/0)/686, 5-6=0/686 725/0 | r less except when showr | ι. | | | | |
| II; Exp B; Enclosed; plate grip DOL=1.60 2) This truss has been 3) * This truss has been between the bottom | fult=120mph (3-second gust) Vasd=95m MWFRS (directional); cantilever left and designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on chord and any other members. considers parallel to grain value using A | d right exposed ; end vert re load nonconcurrent wit the bottom chord in all are | ical left and right expos h any other live loads. eas with a clearance gr | ed; Lumber DOI | _=1.60 | | |
| 6) Provide mechanical 7) This truss is designer referenced standard 8) Hanger(s) or other c | connection (by others) of truss to bearin connection (by others) of truss to bearin ed in accordance with the 2018 Internati | ng plate capable of withst onal Residential Code se ufficient to support conce | ctions R502.11.1 and F | 802.10.2 and wn and 11 lb up | at | SE 28 OKN L. | SIST |
| and 5 lb down at 2-s design/selection of s | 9-8, 5 lb down at 2-9-8, and 23 lb down such connection device(s) is the respons S) section, loads applied to the face of t | at 5-7-7, and 23 lb dowr sibility of others. | n at 5-7-7 on bottom ch | | chulu, | SE 28 | AL 677 |
| 1) Dead + Roof Live (b Uniform Loads (plf) Vert: 1-4=-6 Concentrated Loads | | Increase=1.15 | | | | MGI | GALIN |

LOAD CASE(S) Standard

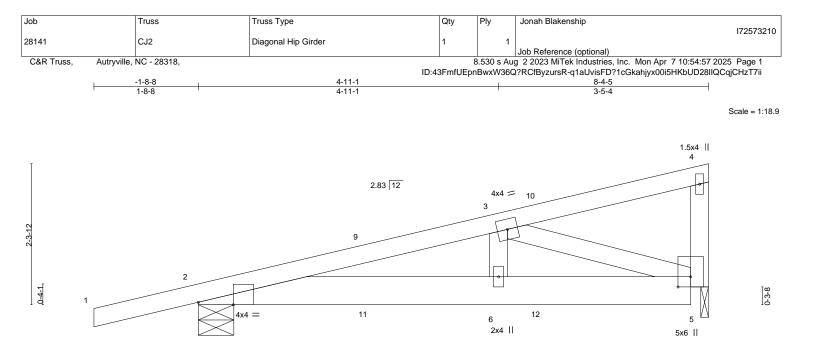
Concentrated Loads (lb)

Vert: 10=-19(F=-9, B=-9) 11=-5(F=-2, B=-2) 12=-40(F=-20, B=-20)

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April 8,2025

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| 4-11-1 4-11-1 | | | | | 8-4-5 | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|--------------------------------------|---------------------|-----------------------------------------------------------|------------------------------------------------------|------------------------------------|
| Plate Offsets (X,Y) | [2:0-6-14,Edge], [5:0-2-0,0-2-8] | - | | | | | 3-3-4 | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014 | CSI. TC 0.23 BC 0.21 WB 0.20 Matrix-MP | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.02 -0.03 0.01 0.01 | 6-8 > 6-8 > 5 | l/defl L/d >999 360 >999 240 n/a n/a >999 240 | PLATES MT20 Weight: 43 lb | GRIP 244/190 FT = 20% |
| LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x6 SP WEBS 2x4 SP | No.1 | | BRACING- TOP CHOR BOT CHOR | | | | directly applied or 6-0-0 d or 10-0-0 oc bracing. |) oc purlins. |
| Max H Max U Max G FORCES. (Ib) - Max. | e) 2=0-7-0, 5=0-1-8 orz 2=61(LC 4) plift 2=-34(LC 4) rav 2=463(LC 1), 5=360(LC 1) Comp./Max. Ten All forces 250 (lb) c 716/0 | r less except when shown | | | | | | |
| | 0/686, 5-6=0/686 | | | | | | | |
| | ult=120mph (3-second gust) Vasd=95r MWFRS (directional); cantilever left an | | | | | | | |
| 2) This truss has been | designed for a 10.0 psf bottom chord li | | | | | | | |
| , | n designed for a live load of 20.0psf on chord and any other members. | the bottom chord in all are | eas with a clearance | e greate | er than 6- | 0-0 | | |
| 4) Bearing at joint(s) 5 | considers parallel to grain value using | ANSI/TPI 1 angle to grain | formula. Building | designer | should v | verify | | |
| capacity of bearing s | surface. connection (by others) of truss to beari | ng plate at joint(s) 5 | | | | | | CARO |

5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 2.
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) 39 lb down and 11 lb up at 2-9-8, 39 lb down and 11 lb up at 2-9-9, and 65 lb down and 36 lb up at 5-7-7, and 65 lb down and 36 lb up at 5-7-9 on top chord, and 5 lb down at 2-9-8, 5 lb down at 2-9-9, and 23 lb down at 5-7-7, and 23 lb down at 5-7-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 2-5=-20

Concentrated Loads (lb)

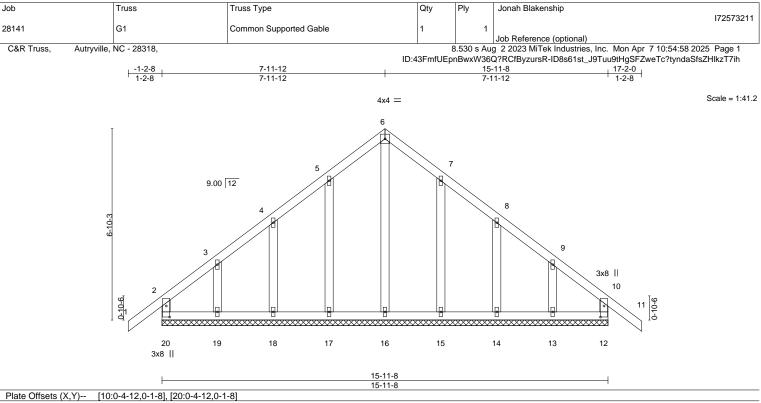
Vert: 10=-19(F=-9, B=-9) 11=-5(F=-2, B=-2) 12=-40(F=-20, B=-20)

SEAL 28677

April 8,2025



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| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014 | CSI. TC 0.13 BC 0.05 WB 0.10 Matrix-R | DEFL. Vert(LL) Vert(CT) Horz(CT) | in -0.01 -0.01 0.00 | (loc) 11 11 12 | l/defl n/r n/r n/a | L/d 120 120 n/a | PLATES MT20 Weight: 98 lb | GRIP 244/190 FT = 20% |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------|------------------------------|-------------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER- TOP CHORD 2x4 SF | 2 No.2 | | BRACING- TOP CHOF | | Structu | Iral wood | sheathing di | rectly applied or 6-0-0 |) oc purlins, |

| LUMBER- | | BRACING- | |
|-----------|-------------|-----------|---------------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlir |
| BOT CHORD | 2x4 SP No.2 | | except end verticals. |
| WEBS | 2x4 SP No.3 | BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| OTHERS | 2x4 SP No.3 | | |

REACTIONS. All bearings 15-11-8.

(lb) - Max Horz 20=134(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

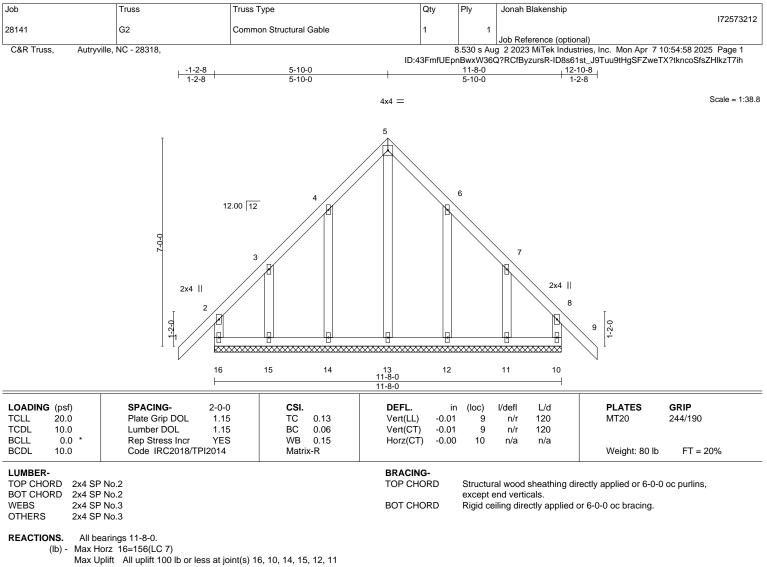
NOTES-

- 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 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) 20, 12, 17, 18, 19, 15, 14, 13.
- 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.



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Max Opint An upint 100 bo ness at joint(s) 10, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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 studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

All plates are 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, 10, 14, 15, 12, 11.

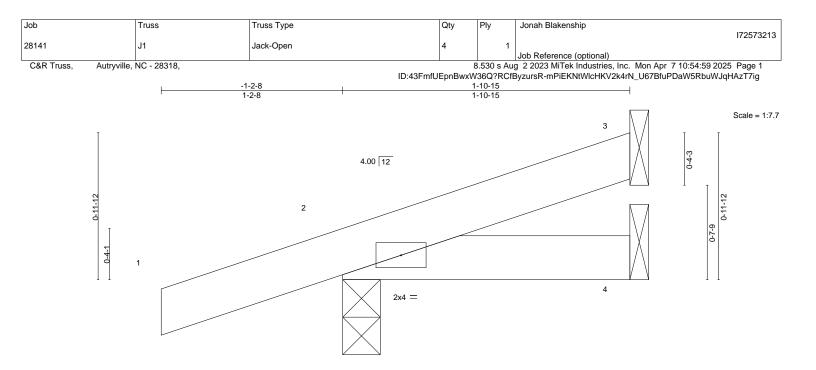
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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A MiTek Affili 818 Soundside Road



| | | | I | 1-10-15 1-10-15 | | | | |
|----------------------------|---------------------------------------------|------------------------|-------------------------------|--------------------|----------------|------------|----------------|------------------------|
| LOADING (psf) TCLL 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.10 | DEFL. Vert(LL) -0.0 | n (loc) | l/defl >999 | L/d 360 | PLATES MT20 | GRIP 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.02 | Vert(CT) -0.0 | 5 7 | >999 | 240 | WIT20 | 244/190 |
| BCLL 0.0 * BCDL 10.0 | Rep Stress Incr YES Code IRC2018/TPI2014 | WB 0.00 Matrix-MP | Horz(CT) 0.0 Wind(LL) -0.0 | | n/a >999 | n/a 240 | Weight: 8 lb | FT = 20% |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=28(LC 8)

Max Uplift 3=-1(LC 8), 2=-32(LC 8) Max Grav 3=35(LC 1), 2=172(LC 1), 4=29(LC 3)

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

NOTES-

 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

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) 3, 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.



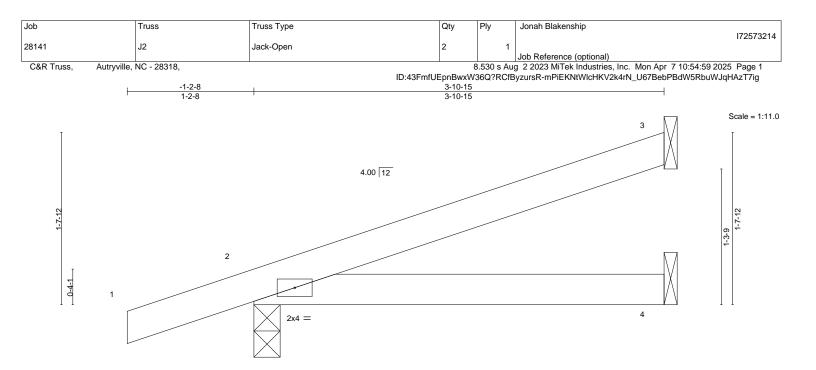
Structural wood sheathing directly applied or 1-10-15 oc purlins.

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

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| | | | 3-10-15 3-10-15 | | | | | | |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------|-----------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014 | CSI. TC 0.18 BC 0.15 WB 0.00 Matrix-MP | DEFL. in Vert(LL) -0.01 Vert(CT) -0.02 Horz(CT) 0.00 Wind(LL) 0.00 | 4-7 4-7 2 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 14 lb | GRIP 244/190 FT = 20% | |

TOP CHORD

BOT CHORD

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=42(LC 8)

Max Uplift 3=-13(LC 8), 2=-23(LC 8)

Max Grav 3=94(LC 1), 2=238(LC 1), 4=68(LC 3)

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

NOTES-

 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

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) 3, 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.



Structural wood sheathing directly applied or 3-10-15 oc purlins.

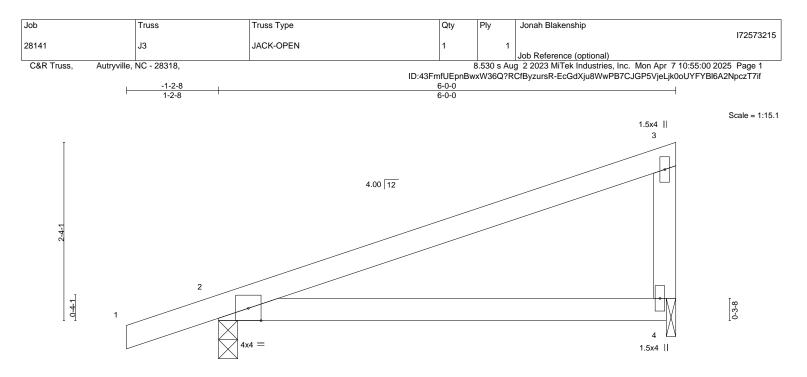
Rigid ceiling directly applied or 10-0-0 oc bracing.

April 8,2025

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LUMBER-



| | | <u> </u> | | | | | |
|-----------------------------------------|----------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------|--|--|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 | CSI. TC 0.46 BC 0.36 | DEFL. in (loc) I/defl L/d Vert(LL) -0.05 4-7 >999 360 | PLATES GRIP MT20 244/190 | | | |
| BCLL 0.0 * BCDL 10.0 | Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014 | WB 0.03 Matrix-AS | Vert(CT) -0.11 4-7 >650 240 Horz(CT) 0.00 2 n/a n/a Wind(LL) 0.03 4-7 >999 240 | Weight: 23 lb FT = 20% | | | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

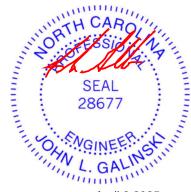
WEBS 2x4 SP No.3

REACTIONS. 2=0-3-0, 4=0-1-8 (size) Max Horz 2=57(LC 8) Max Uplift 2=-17(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

NOTES-

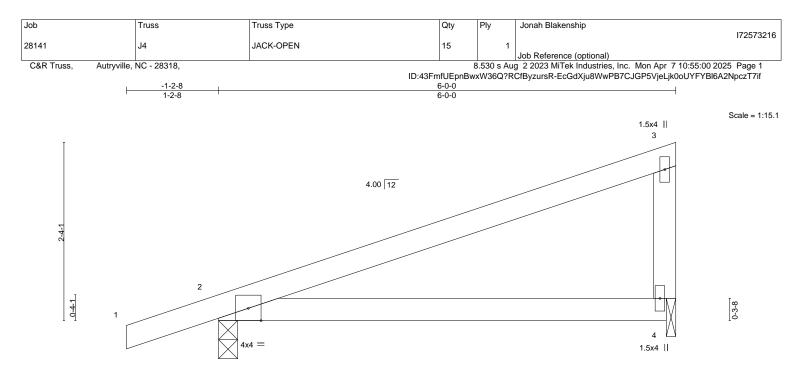
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.



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| | | <u>6-0-0</u> 6-0-0 | | | | | |
|---------------|----------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.05 4-7 >999 360 MT20 244/190 | | | | |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.46 | | | | | |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.36 | Vert(CT) -0.11 4-7 >650 240 | | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.03 | Horz(CT) 0.00 2 n/a n/a | | | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-AS | Wind(LL) 0.03 4-7 >999 240 Weight: 23 lb FT = 20% | | | | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. 2=0-3-0, 4=0-1-8 (size) Max Horz 2=57(LC 8) Max Uplift 2=-17(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.

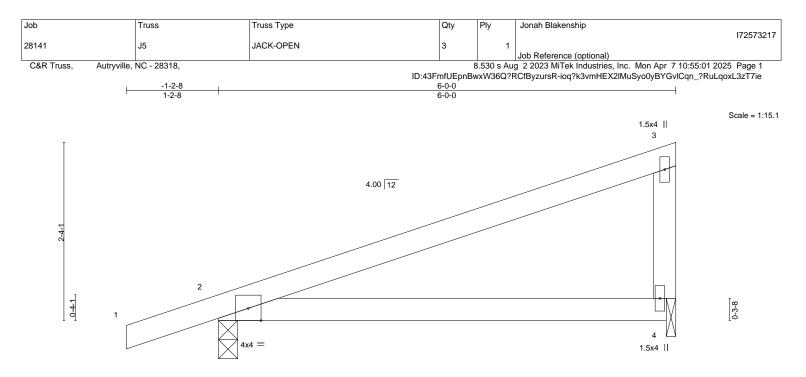


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| | 6-0-0 6-0-0 | | | | | | | |
|--------------|-----------------------|-----------|-------------|----------------------|--------|-----|---------------|----------|
| OADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| CLL 20.0 | Plate Grip DOL 1.15 | TC 0.46 | Vert(LL) -(|).05 4- 7 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.36 | Vert(CT) -(| 0.11 4-7 | >650 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.03 | Horz(CT) (| 0.00 2 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-AS | Wind(LL) (| 0.03 4-7 | >999 | 240 | Weight: 23 lb | FT = 20% |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. 2=0-3-0, 4=0-1-8 (size) Max Horz 2=57(LC 8) Max Uplift 2=-17(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.

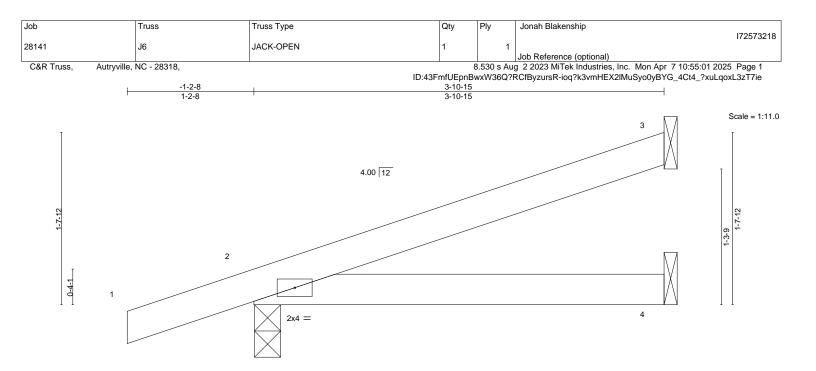


April 8,2025

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| | | 3-10-15 3-10-15 | | | | | |
|-----------------------------------------|-----------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------|--|--|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15 | CSI. TC 0.18 BC 0.15 | DEFL. in (loc) I/defl L/d Vert(LL) -0.01 4-7 >999 360 Vert(CT) -0.02 4-7 >999 240 | PLATES GRIP MT20 244/190 | | | |
| BCLL 0.0 * BCDL 10.0 | Rep Stress Incr YES Code IRC2018/TPI2014 | WB 0.00 Matrix-MP | Horz(CT) 0.00 2 n/a n/a Wind(LL) 0.00 4-7 >999 240 | Weight: 14 lb FT = 20% | | | |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=42(LC 8)

Max Uplift 3=-13(LC 8), 2=-23(LC 8)

Max Grav 3=94(LC 1), 2=238(LC 1), 4=68(LC 3)

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

NOTES-

 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

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) 3, 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.



Structural wood sheathing directly applied or 3-10-15 oc purlins.

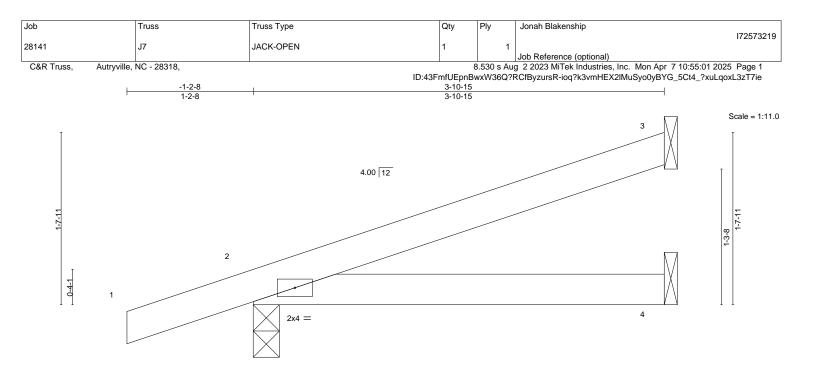
Rigid ceiling directly applied or 10-0-0 oc bracing.

April 8,2025

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| | | 3-10-15 3-10-15 | | | | | |
|-----------------------------------------|-----------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15 | CSI. TC 0.18 BC 0.15 | DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.01 4-7 >999 360 MT20 244/190 Vert(CT) -0.02 4-7 >999 240 MT20 244/190 | | | | |
| BCLL 0.0 * BCDL 10.0 | Rep Stress Incr YES Code IRC2018/TPI2014 | WB 0.00 Matrix-MP | Horz(CT) 0.00 2 n/a n/a Wind(LL) 0.00 4-7 >999 240 Weight: 14 lb FT = 20% | | | | |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=42(LC 8)

Max Uplift 3=-13(LC 8), 2=-23(LC 8) Max Grav 3=94(LC 1), 2=238(LC 1), 4=68(LC 3)

Max Grav 3=34(E0 1), 2=230(E0 1), 4=00(E0 3)

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

NOTES-

- 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
- 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) 3, 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.



Structural wood sheathing directly applied or 3-10-15 oc purlins.

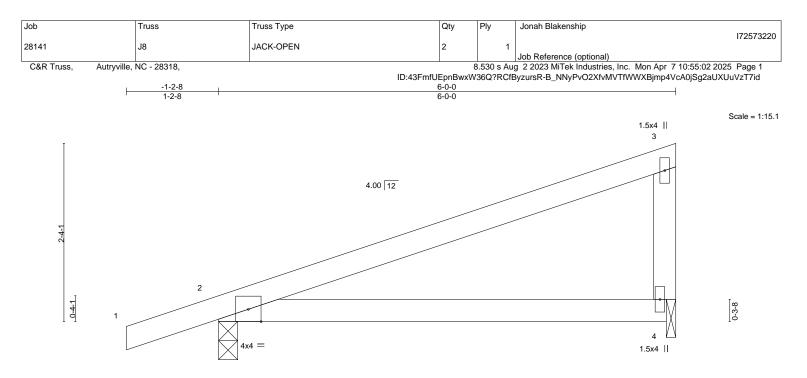
Rigid ceiling directly applied or 10-0-0 oc bracing.

April 8,2025

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| | 6-0-0 6-0-0 | | | | | | |
|-----------------------------------------|----------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 | CSI. TC 0.46 BC 0.36 | DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.05 4-7 >999 360 MT20 244/190 Vert(CT) 0.14 4.7 >959 340 MT20 244/190 | | | | |
| BCLL 0.0 * BCDL 10.0 | Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014 | WB 0.03 Matrix-AS | Vert(CT) -0.11 4-7 >650 240 Horz(CT) 0.00 2 n/a n/a Wind(LL) 0.03 4-7 >999 240 Weight: 23 lb FT = 20% | | | | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. 2=0-3-0, 4=0-1-8 (size) Max Horz 2=57(LC 8) Max Uplift 2=-17(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

NOTES-

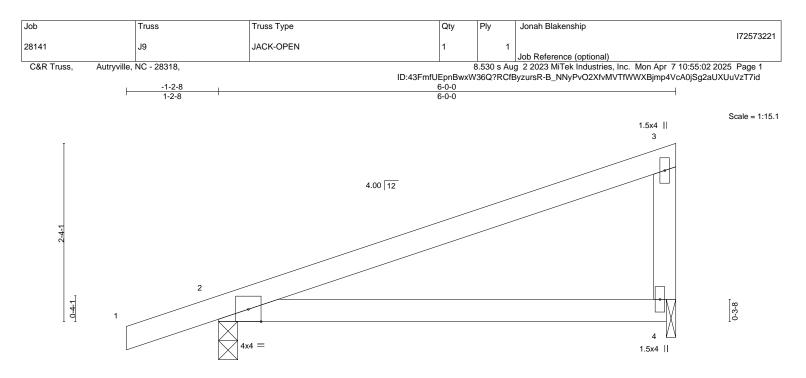
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.



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| <u>6-0-0</u> 6-0-0 | | | | | | | | | |
|-----------------------|-----------------------|-----------|--------------|----------|--------|-----|---------------|----------|--|
| _OADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.46 | Vert(LL) -0. |)5 4-7 | >999 | 360 | MT20 | 244/190 | |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.36 | Vert(CT) -0. | 1 4-7 | >650 | 240 | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.03 | Horz(CT) 0. | 0 2 | n/a | n/a | | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-AS | Wind(LL) 0. | 03 4-7 | >999 | 240 | Weight: 23 lb | FT = 20% | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

2x4 SP No.3

REACTIONS. 2=0-3-0, 4=0-1-8 (size) Max Horz 2=57(LC 8) Max Uplift 2=-17(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

NOTES-

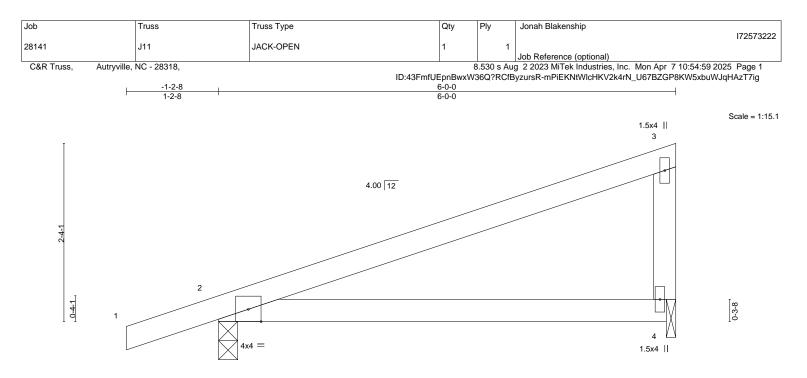
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.



April 8,2025

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| | 6-0-0 6-0-0 | | | | | | |
|-----------------------------------------|----------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 | CSI. TC 0.46 BC 0.36 | DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.05 4-7 >999 360 MT20 244/190 Vert(CT) 0.14 4.7 >959 340 MT20 244/190 | | | | |
| BCLL 0.0 * BCDL 10.0 | Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014 | WB 0.03 Matrix-AS | Vert(CT) -0.11 4-7 >650 240 Horz(CT) 0.00 2 n/a n/a Wind(LL) 0.03 4-7 >999 240 Weight: 23 lb FT = 20% | | | | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. 2=0-3-0, 4=0-1-8 (size) Max Horz 2=57(LC 8) Max Uplift 2=-17(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.

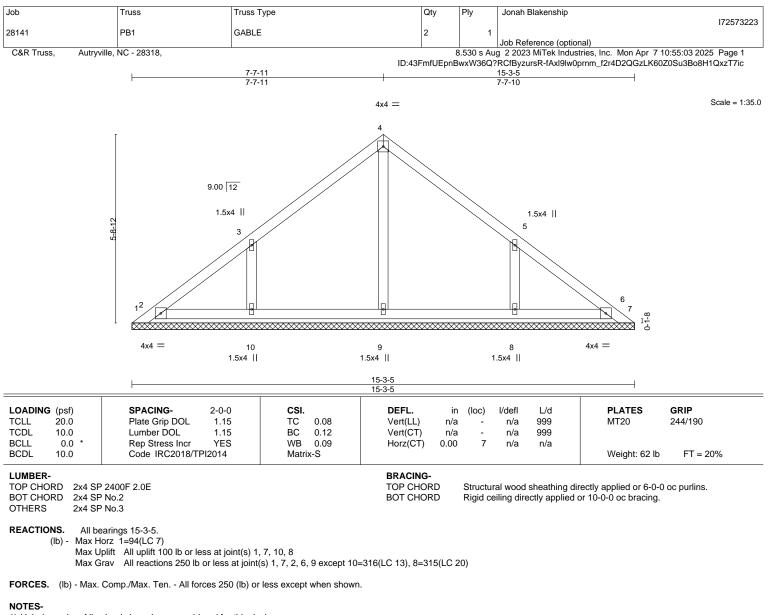


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818 Soundside Road



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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 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, 7, 10, 8.
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.

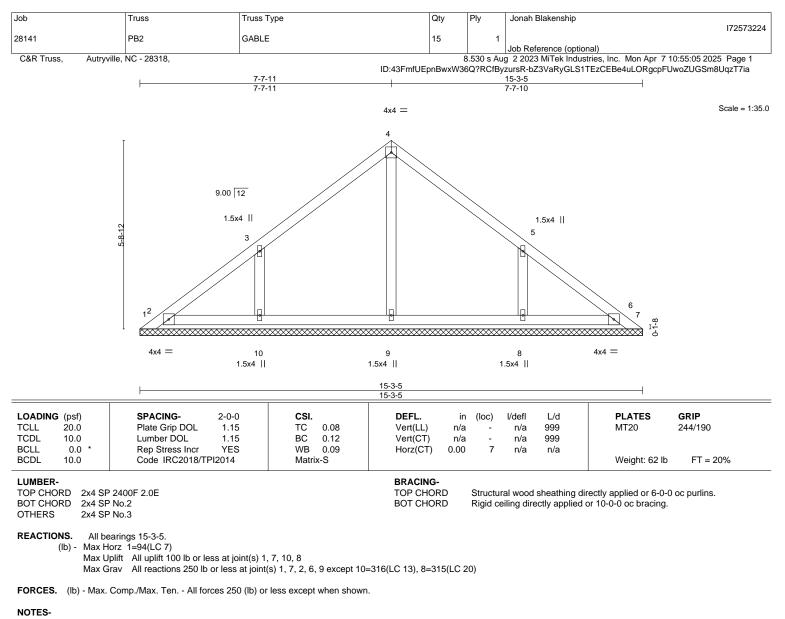
 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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A MITEK Affilia 818 Soundside Road



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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 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, 7, 10, 8.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

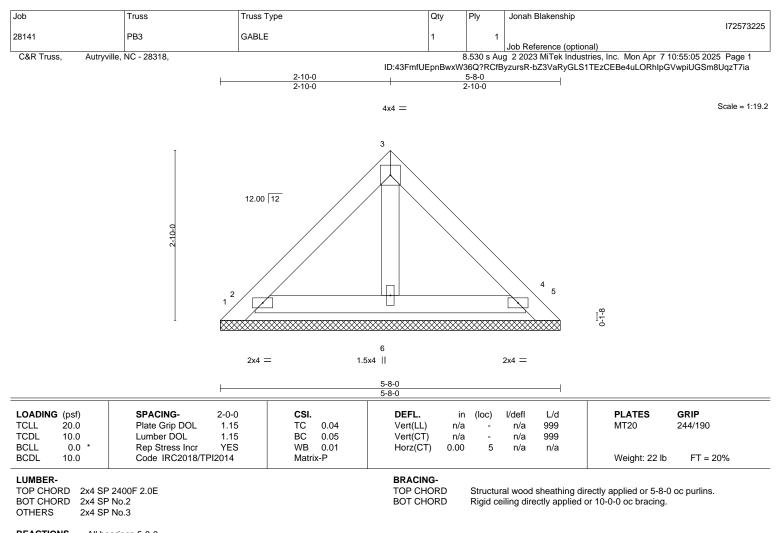
referenced standard ANSI/TPI 1.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 4 except 1=-111(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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

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- 5) Gable studs spaced at 4-0-0 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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 4 except (jt=lb) 1=111.

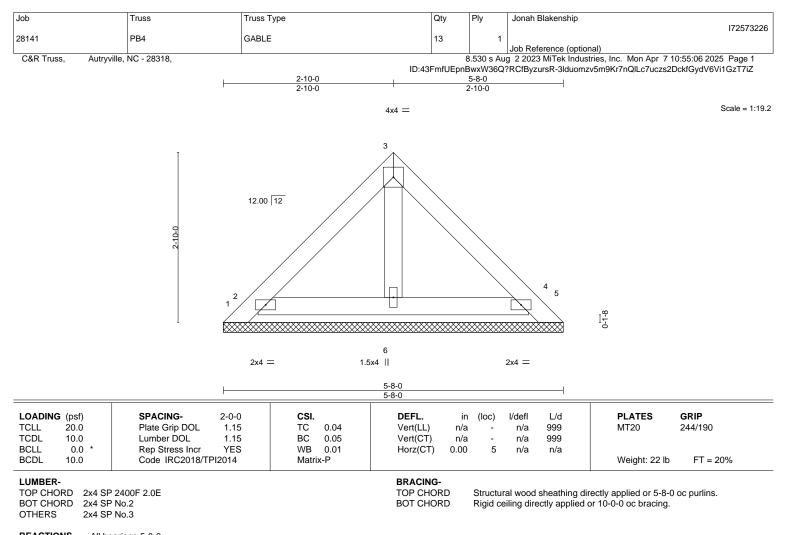
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 4 except 1=-111(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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 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 4-0-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 4 except (jt=lb) 1=111.

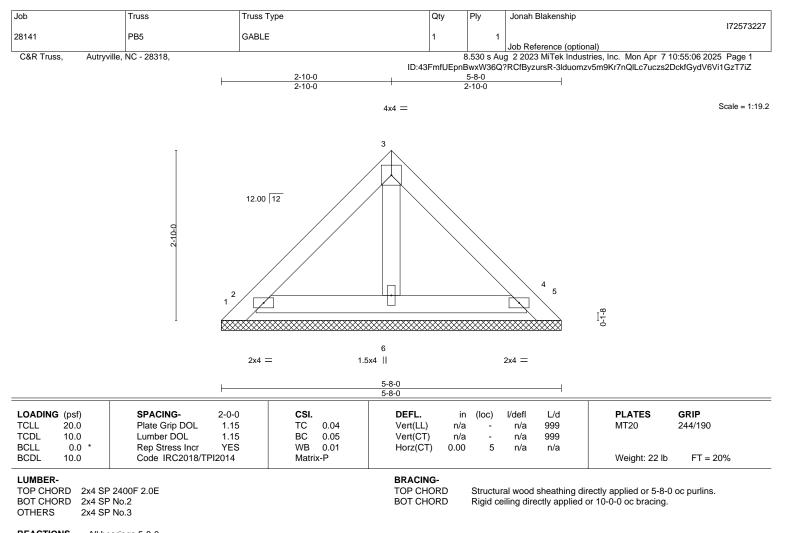
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 4 except 1=-111(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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 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 4-0-0 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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 4 except (jt=lb) 1=111.

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.

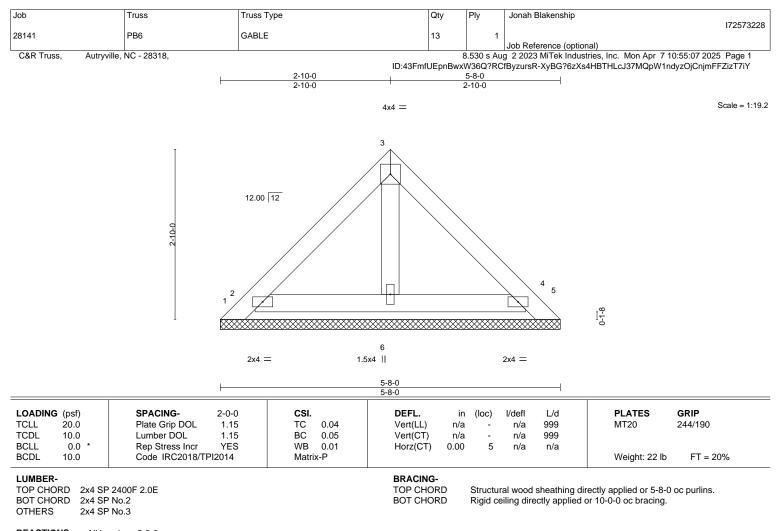
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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A MiTek Aff 818 Soundside Road Edenton, NC 27932



Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 4 except 1=-111(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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 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 4-0-0 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) 5, 2, 4 except (jt=lb) 1=111.

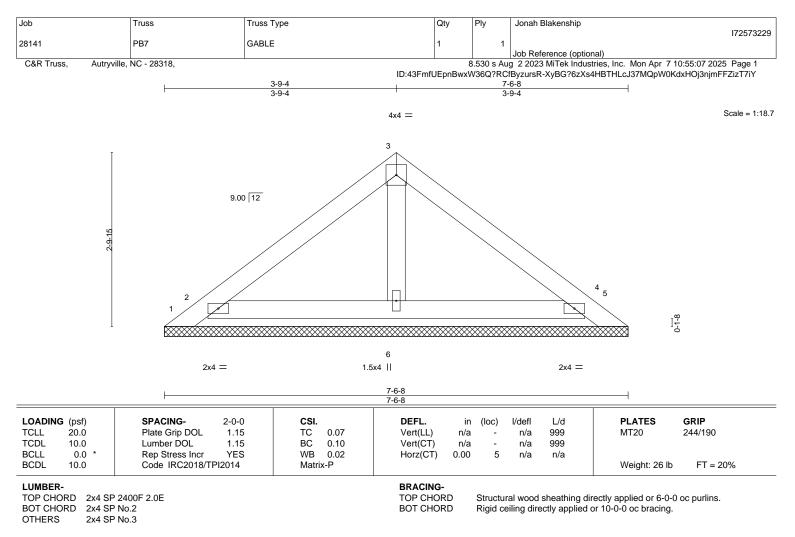
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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REACTIONS. All bearings 7-6-8.

(lb) - Max Horz 1=45(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 1=-137(LC 13), 5=-117(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=310(LC 13), 4=306(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=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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 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) 2, 4 except (jt=lb) 1=137, 5=117.

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.

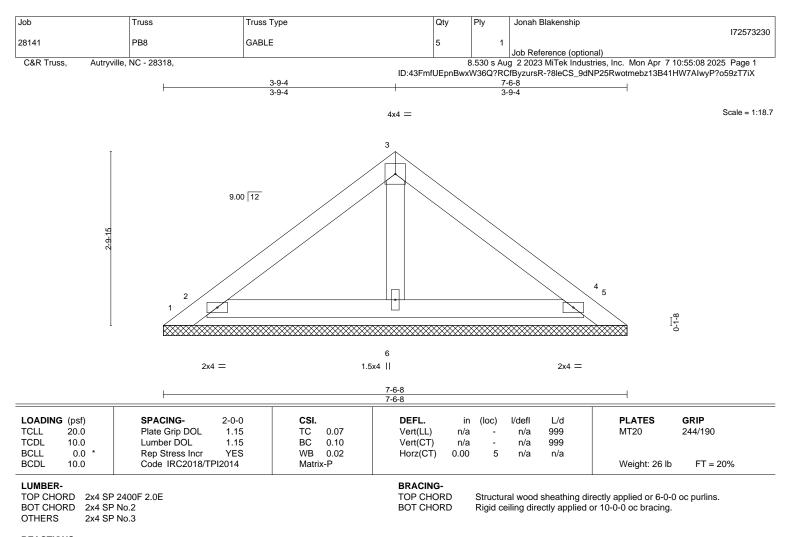
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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A MiTek A 818 Soundside Road Edenton, NC 27932



REACTIONS. All bearings 7-6-8.

(lb) - Max Horz 1=45(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 1=-137(LC 13), 5=-117(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=310(LC 13), 4=306(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=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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 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) 2, 4 except (jt=lb) 1=137, 5=117.

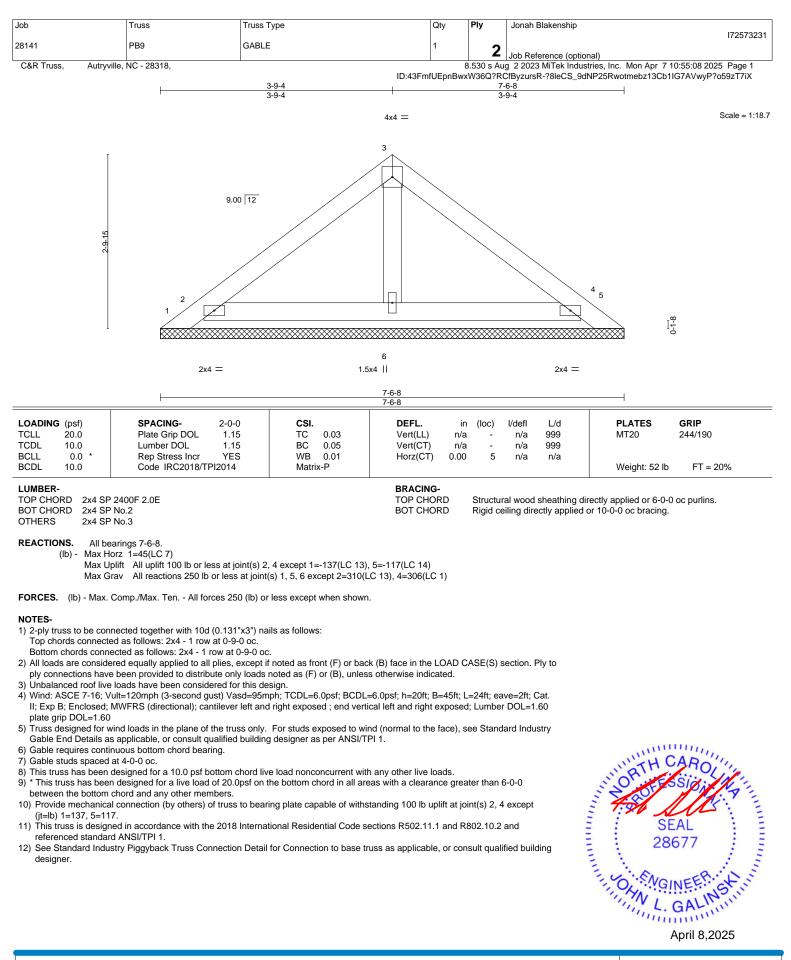
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



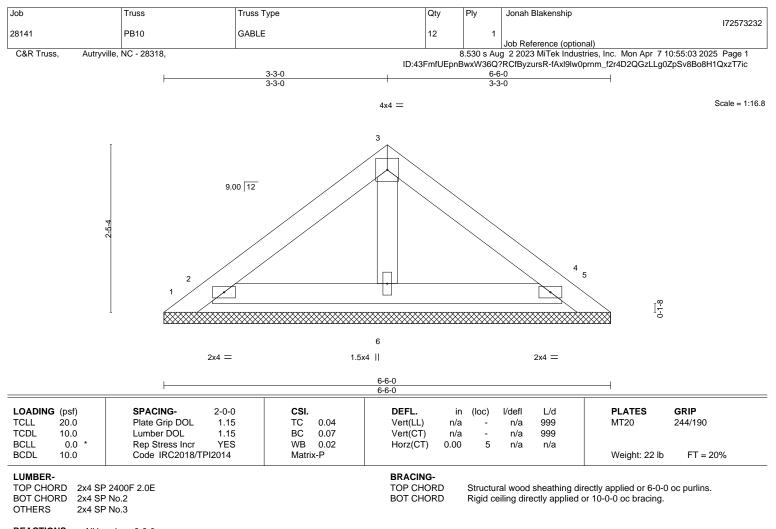
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RENCO A MITCH ATHINA

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- Max Horz 1=-38(LC 6)

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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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 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 4-0-0 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

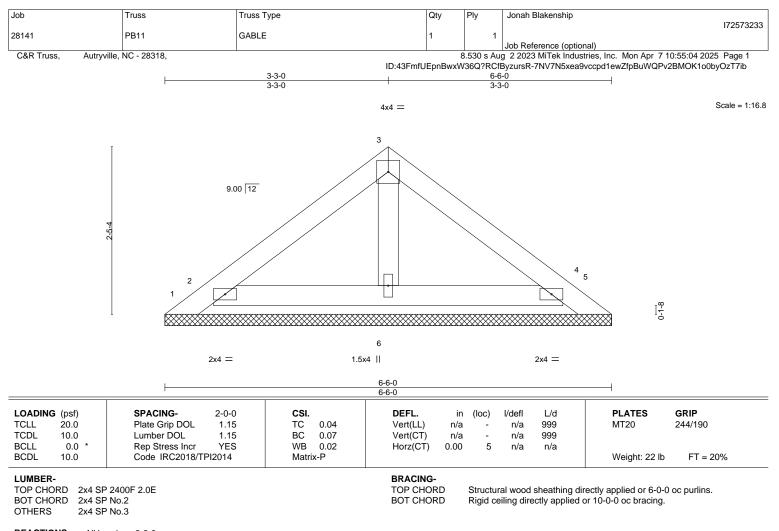
referenced standard ANSI/TPI 1. 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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REACTIONS. All bearings 6-6-0.

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. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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 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 4-0-0 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.

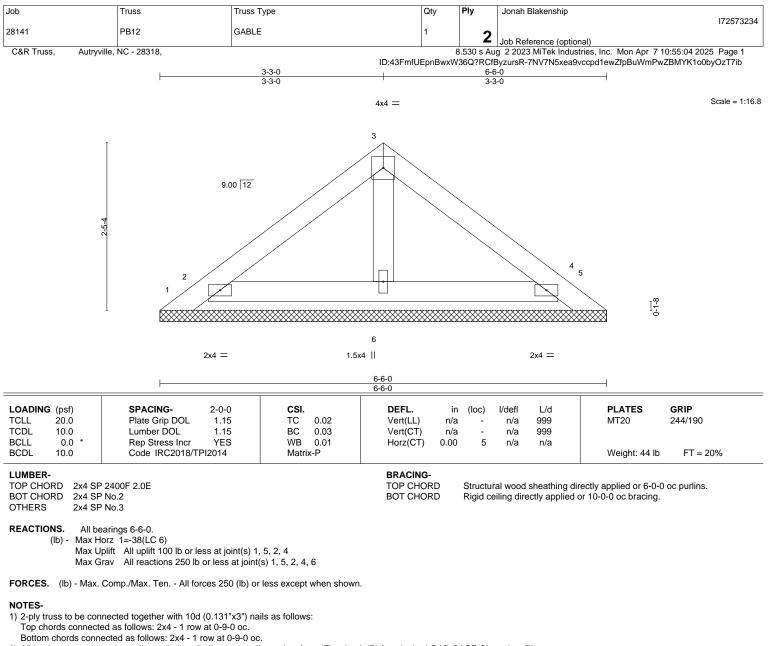
 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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⁽lb) - Max Horz 1=-38(LC 6)



- 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=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
- 5) 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.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 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.

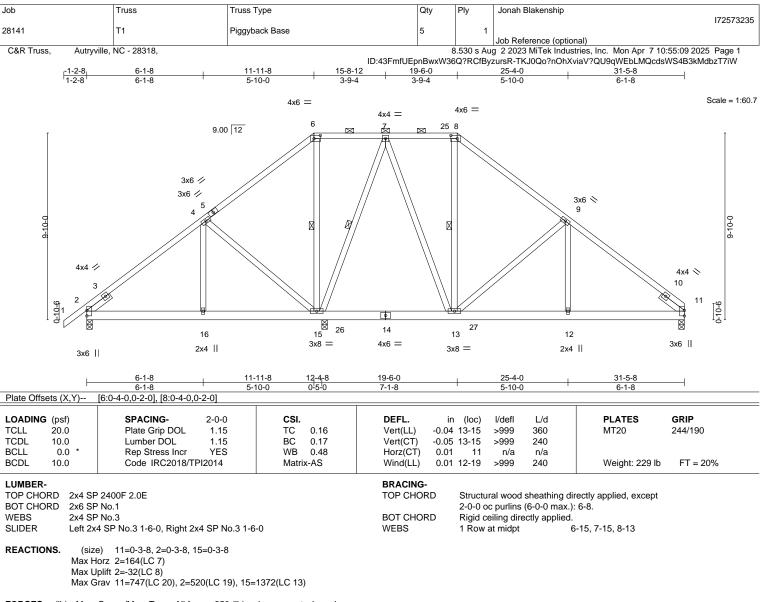
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

TOP CHORD 2-4=-436/54, 7-8=-393/106, 8-9=-571/98, 9-11=-897/38

BOT CHORD 2-16=-21/331, 15-16=-21/331, 12-13=0/653, 11-12=0/653

WEBS 4-15=-414/68, 6-15=-314/0, 7-15=-681/0, 7-13=0/497, 9-13=-394/72

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) 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) 2.

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.

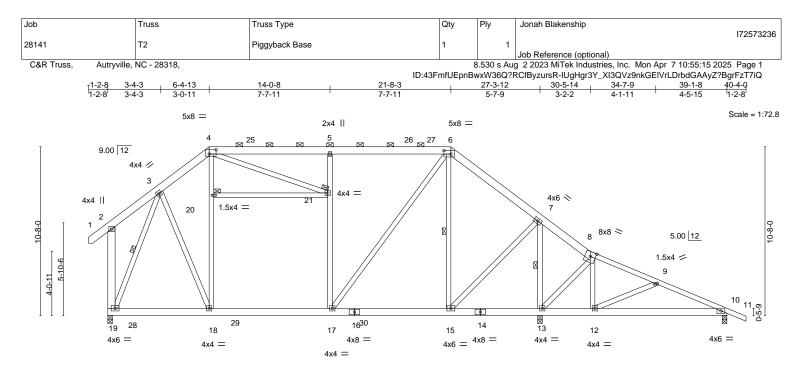
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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| F | | 4-0-8 -7-11 | 21-8-3 7-7-11 | 27-3-12 5-7-9 | 30-5-14 3-2-2 | <u>39-1-8</u> 8-7-10 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------|------------------------------------|
| Plate Offsets (X,Y) | [4:0-5-4,0-3-4], [6:0-5-4,0-2-12] | -7-11 | 7-7-11 | 5-1-5 | 5-2-2 | 0-7-10 | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014 | CSI. TC 0.26 BC 0.39 WB 0.65 Matrix-AS | Vert(CT) -0.1 Horz(CT) -0.1 | in (loc) l/defl 15 15-17 >999 24 15-17 >999 01 10 n/a 05 15-17 >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 349 lb | GRIP 244/190 FT = 20% |
| 8-11: 2 BOT CHORD 2x6 SI WEBS 2x4 SI | P No.1 *Except* 2x4 SP 2400F 2.0E P No.1 P No.3 *Except* 5-17: 2x4 SP No.2, 2-19: 2x6 SP No. | I | BRACING- TOP CHORD BOT CHORD WEBS JOINTS | Structural wood 2-0-0 oc purlins Rigid ceiling di 1 Row at midpl 1 Brace at Jt(s) | s (6-0-0 max.): rectly applied. | rectly applied, except 6 4-6. -15, 7-13, 3-19 | and verticals, and |
| Max H Max U | ze) 13=0-3-8, 19=0-3-8, 10=0-3-8 Horz 19=-244(LC 6) Uplift 19=-5(LC 8), 10=-180(LC 21) Grav 13=2391(LC 14), 19=1211(LC | 13), 10=132(LC 1) | | | | | |
| TOP CHORD 3-4= 9-1(BOT CHORD 18-1 10-1 WEBS 3-18 | Comp./Max. Ten All forces 250 (l -739/111, 4-5=-661/107, 5-6=-638/1 0=-91/776, 2-19=-283/135 19=0/490, 17-18=0/693, 15-17=-28/2 12=-689/103 3=0/579, 17-21=-412/85, 5-21=-436/3 3=-2221/0, 8-12=0/363, 9-12=-381/56 | Ú7, 6-7=-342/103, 7-8=-22/1 52, 13-15=-1020/89, 12-13=- 4, 6-17=0/750, 6-15=-843/13 | 287, 8-9=-87/1001, 909/119, | | | | |
| Wind: ASCE 7-16; II; Exp B; Enclosed plate grip DCL=1.6 Provide adequate d This truss has beer truss has beer truss has beer truss has beer Provide mechanica 10=180. This truss is design referenced standard | drainage to prevent water ponding. n designed for a 10.0 psf bottom cho en designed for a live load of 20.0ps n chord and any other members, with al connection (by others) of truss to b ned in accordance with the 2018 Inte | 95mph; TCDL=6.0psf; BCDL and right exposed ; end ver d live load nonconcurrent wi on the bottom chord in all ar BCDL = 10.0psf. earing plate capable of withst national Residential Code se | tical left and right expos th any other live loads. reas with a clearance gr tanding 100 lb uplift at ju ections R502.11.1 and F | ed; Lumber DOL= eater than 6-0-0 pint(s) 19 except (ji 8802.10.2 and | Cat. 1.60 ≔lb) | SE/ 286 | AR OUNT |

app sheetrock be applied directly to the bottom chord.

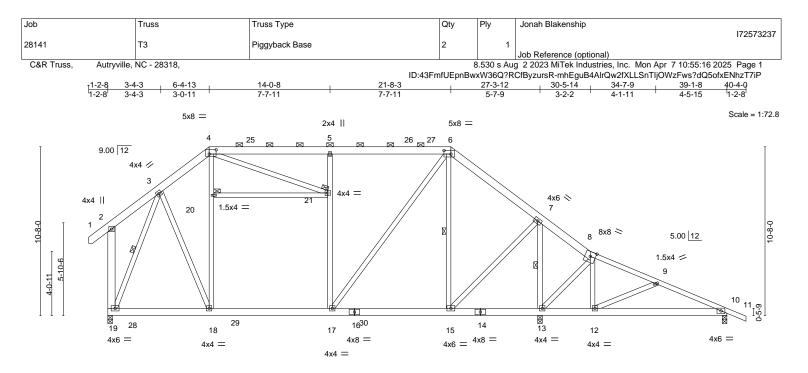
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 8,2025

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| F | | -0-8 7-11 | 21-8-3 7-7-11 | <u>27-3-12</u> 5-7-9 | 30-5-14 | <u>39-1-8</u> 8-7-10 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|------------------------------------|
| Plate Offsets (X,Y) | [4:0-5-4,0-3-4], [6:0-5-4,0-2-12] | 7-11 | 7-7-11 | 5-7-9 | 3-2-2 | 0-7-10 | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014 | CSI. TC 0.26 BC 0.39 WB 0.65 Matrix-AS | Vert(CT) -0.1 Horz(CT) -0.0 | in (loc) l/defl 15 15-17 >999 24 15-17 >999 01 10 n/a 05 15-17 >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 349 lb | GRIP 244/190 FT = 20% |
| 8-11: 2 BOT CHORD 2x6 SF WEBS 2x4 SF | P No.1 *Except* 2x4 SP 2400F 2.0E P No.1 P No.3 *Except* -17: 2x4 SP No.2, 2-19: 2x6 SP No.1 | | BRACING- TOP CHORD BOT CHORD WEBS JOINTS | | is (6-0-0 max.): irectly applied. it 6 | rectly applied, except 6 4-6. -15, 7-13, 3-19 | and verticals, and |
| Max H Max U | te) 13=0-3-8, 19=0-3-8, 10=0-3-8 Horz 19=-244(LC 6) Jplift 19=-5(LC 8), 10=-180(LC 21) Grav 13=2391(LC 14), 19=1211(LC 1 | 3), 10=132(LC 1) | | | | | |
| TOP CHORD 3-4= 9-10 BOT CHORD 18-11 10-12 WEBS 3-18 | Comp./Max. Ten All forces 250 (lb -739/111, 4-5=-661/107, 5-6=-638/10)=-91/776, 2-19=-283/135 9=0/490, 17-18=0/693, 15-17=-28/25 2=-689/103 =0/579, 17-21=-412/85, 5-21=-436/8 =-2221/0, 8-12=0/363, 9-12=-381/56, | 7, 6-7=-342/103, 7-8=-22/12 2, 13-15=-1020/89, 12-13=- -, 6-17=0/750, 6-15=-843/13 | 287, 8-9=-87/1001, 909/119, | | | | |
| Wind: ASCE 7-16; N II; Exp B; Enclosed; plate grip DOL=1.60 Provide adequate d This truss has been * This truss has been between the bottom Provide mechanical 10=180. This truss is design referenced standard | rainage to prevent water ponding. designed for a 10.0 psf bottom chord en designed for a live load of 20.0psf o chord and any other members, with I connection (by others) of truss to be ed in accordance with the 2018 Interr | 5mph; TCDL=6.0psf; BCDL and right exposed ; end vert live load nonconcurrent wit on the bottom chord in all ar 3CDL = 10.0psf. aring plate capable of withst ational Residential Code se | tical left and right expos th any other live loads. reas with a clearance gr tanding 100 lb uplift at ju ections R502.11.1 and F | ed; Lumber DOL= eater than 6-0-0 pint(s) 19 except (8802.10.2 and | ; Cat. :1.60 jt=lb) sum | SE/ 286 | AL 77 |

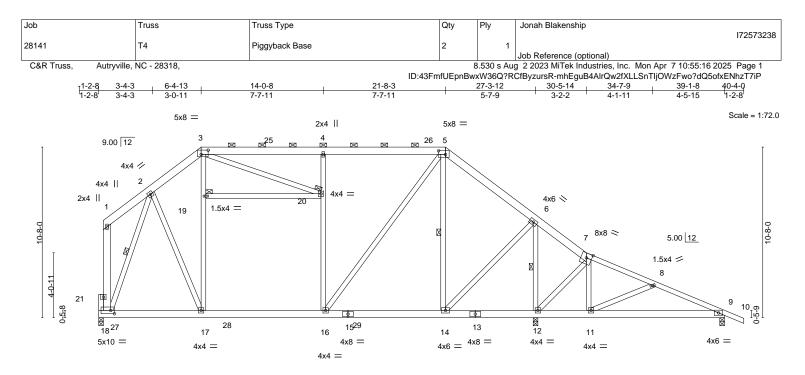
sheetrock be applied directly to the bottom chord.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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| 1 | 6-4-13 | 14-0-8 | 1 | 21-8-3 | 27- | -3-12 | 30-5-14 | 39-1-8 | 1 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|-----|---------------------------------|-------------------------|----------------------------------|------------------------------------|
| | 6-4-13 | 7-7-11 | | 7-7-11 | 5- | -7-9 | 3-2-2 | 8-7-10 | |
| Plate Offsets (X,Y) | [3:0-5-4,0-3-4], [5:0- | 5-4,0-2-12], [18:0-2· | -12,0-2-8] | | | | | | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- Plate Grip DO Lumber DOL Rep Stress In Code IRC20 | 1.15 cr YES | CSI. TC 0.26 BC 0.39 WB 0.65 Matrix-AS | DEFL. Vert(LL) Vert(CT) Horz(CT Wind(LL) | | 4-16 >999 4-16 >999 9 n/a | 9 360 9 240 a n/a | PLATES MT20 Weight: 347 lb | GRIP 244/190 FT = 20% |
| | | | | | | | | | |
| LUMBER- TOP CHORD 2x6 SP No.1 *Except* 7-10: 2x4 SP 2400F 2.0E TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 3-5. BOT CHORD 2x6 SP No.1 BOT CHORD Rigid ceiling directly applied. WEBS 2x4 SP No.3 *Except* 3-17,4-16: 2x4 SP No.2, 1-18: 2x6 SP No.1 WEBS 1 Row at midpt 5-14, 6-12, 2-18 | | | | | | | | | |
| Max Max | size) 12=0-3-8, 18=0- (Horz 18=-143(LC 8) (Uplift 9=-181(LC 21) (Grav 12=2387(LC 14) | | 9=131(LC 1) | | | | | | |
| TOP CHORD 2-3 8-9 BOT CHORD 17 WEBS 2-4 | ax. Comp./Max. Ten A 3=-709/60, 3-4=-638/69 3=-86/778 -18=0/455, 16-17=0/66 17=0/575, 16-20=-413/7 12=-2214/13, 7-11=0/36 | , 4-5=-614/69, 5-6= 8, 12-14=-1009/107 79, 4-20=-437/80, 5- | -317/61, 6-7=-17/127 , 11-12=-897/115, 9- 16=0/743, 5-14=-839 | 4, 7-8=-83/988, 11=-691/98 | | | | | |
| 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=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) except (jt=lb) 9=181.
- 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.

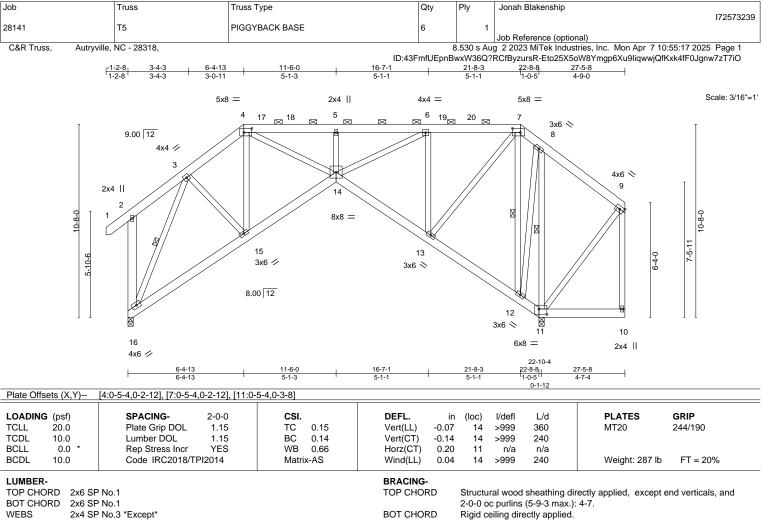


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818 Soundside Road



WEBS

1 Row at midpt

2x4 SP No.3 *Except* 2-16: 2x6 SP No.1, 9-10: 2x4 SP No.2

REACTIONS. (size) 11=0-3-8, 16=0-3-8 Max Horz 16=-193(LC 6)

Max Grav 11=1303(LC 1), 16=961(LC 19)

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

TOP CHORD 3-4=-874/102, 4-5=-1776/70, 5-6=-1776/70, 6-7=-643/69, 2-16=-260/134

BOT CHORD 15-16=-103/559, 14-15=-47/829, 13-14=-29/780 WFBS

3-15=0/440, 4-15=-372/18, 4-14=0/1255, 5-14=-274/53, 6-14=-11/1282, 6-13=-965/63, 7-13=0/942, 7-12=-675/19, 8-12=0/462, 8-11=-875/15, 3-16=-986/0

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 exposed ; end vertical left 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.

6) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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.

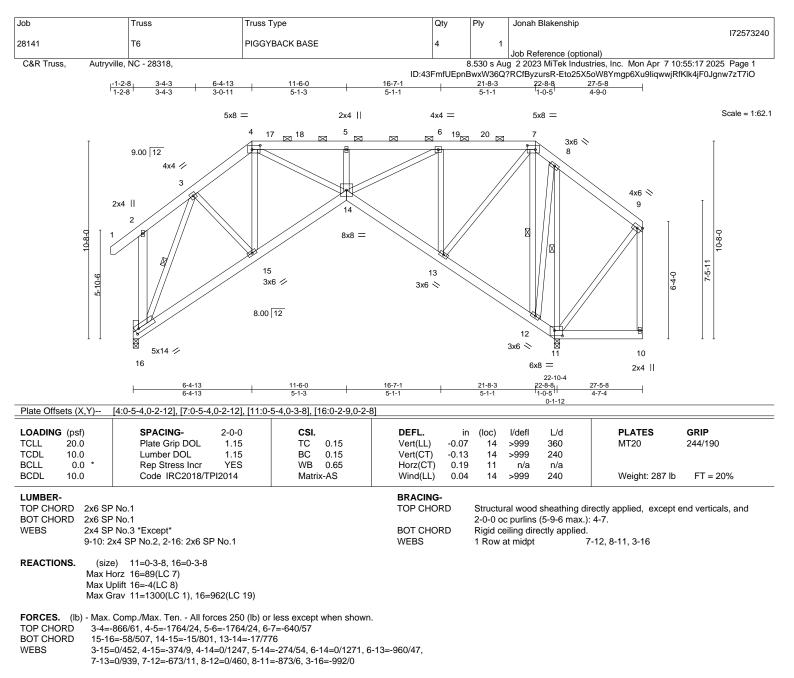
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



7-12, 8-11, 3-16

April 8,2025

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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 exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 3) Provide adequate drainage to prevent water ponding.

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

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) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16.

 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.

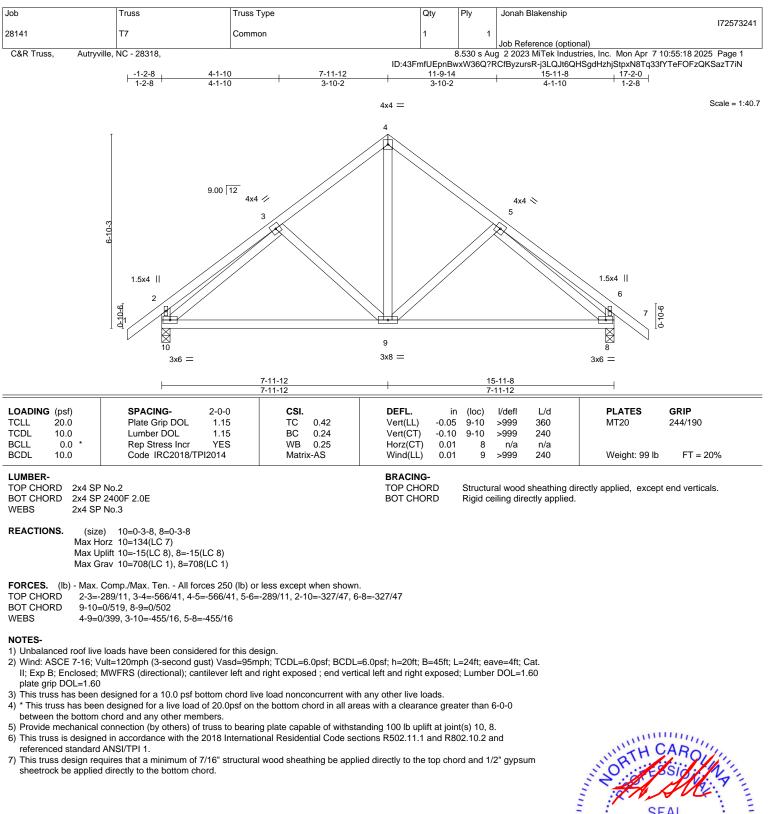
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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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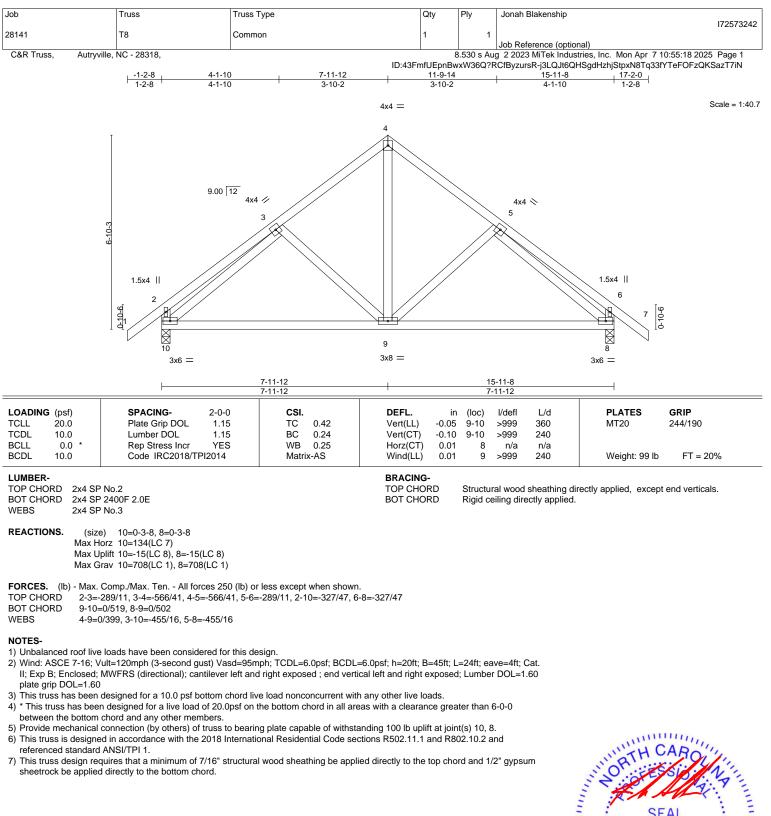


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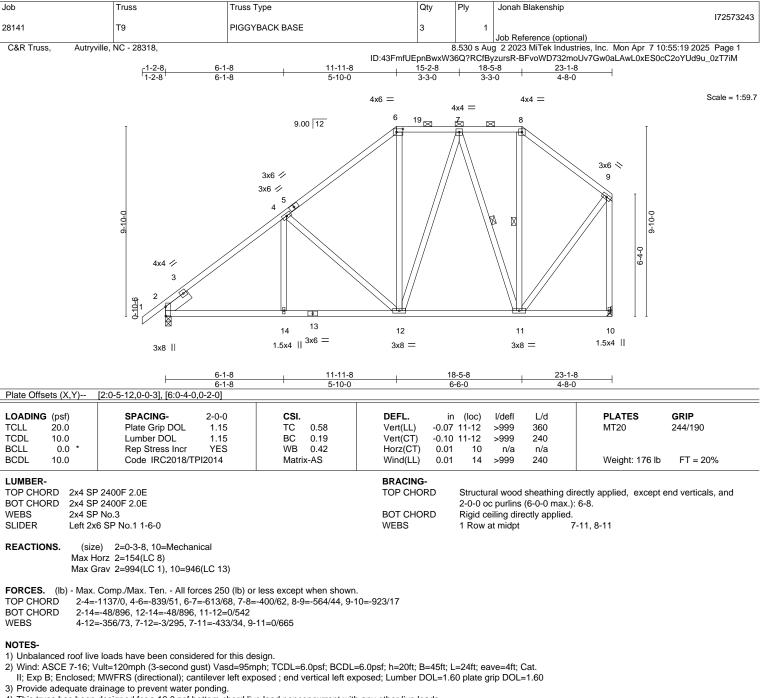
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818 Soundside Road





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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.

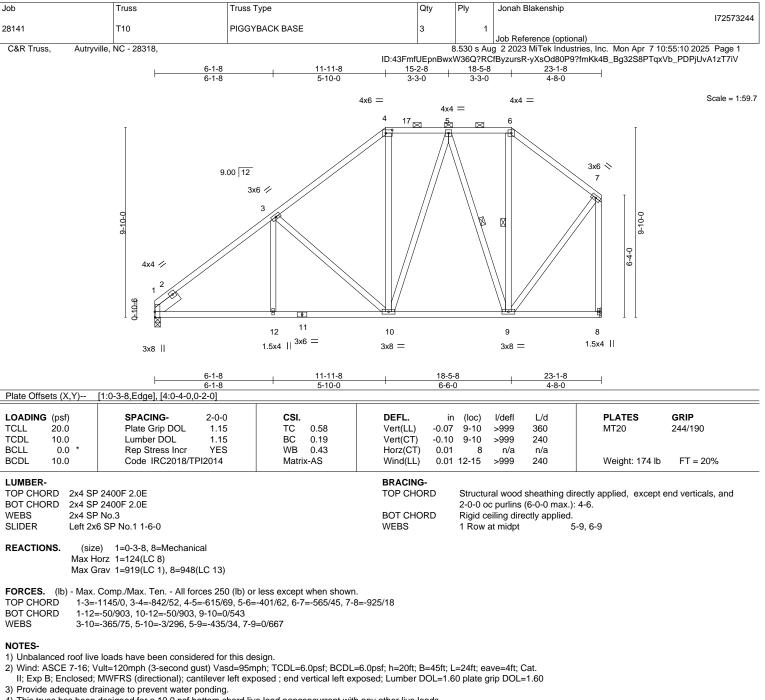
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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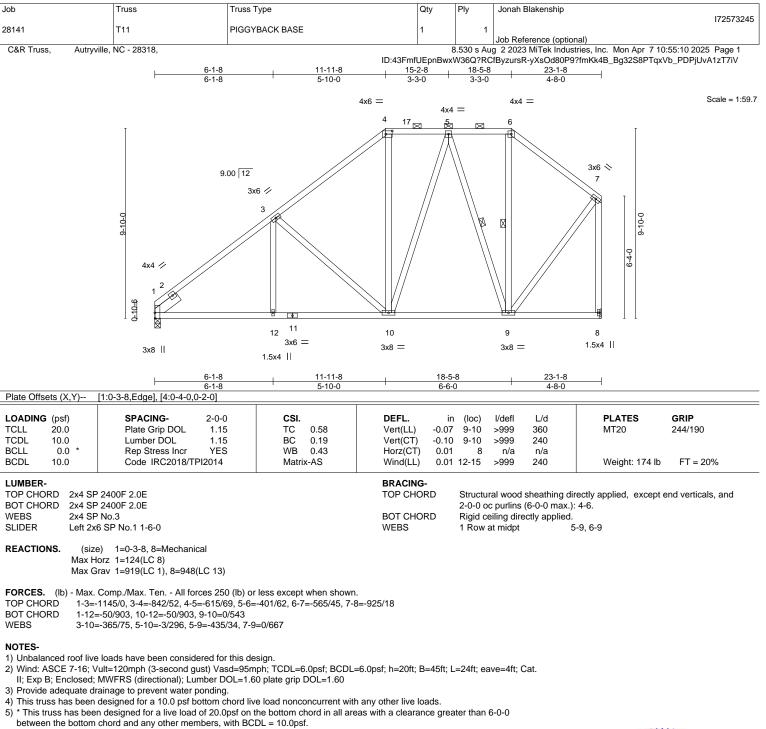
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6) Refer to girder(s) for truss to truss connections.

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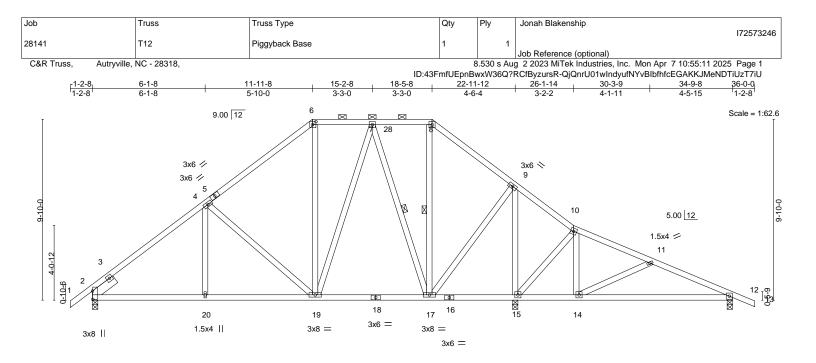
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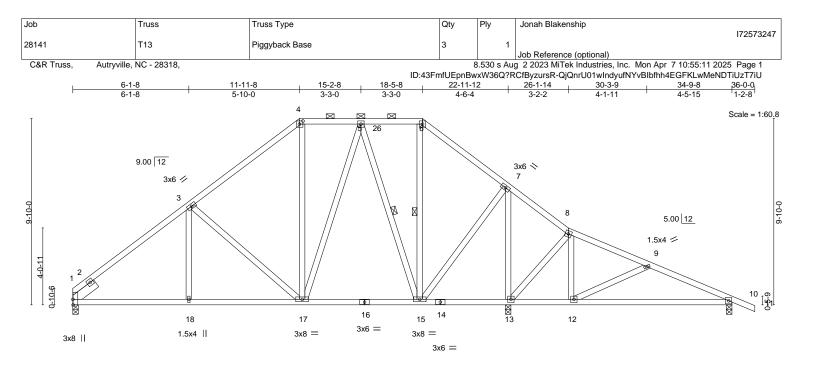


| | L | 6-1-8 | 11-11-8 | | 18-5-8 | 22-11 | | 26-1 | 14 | 34-9-8 | |
|-----------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|---------------------|-------------------------|--------------------|--------------------------|----------------------------|----------------|-----------|
| Plate Offset | ats (X Y) | <u>6-1-8</u> [2:0-5-8,0-0-3], [6:0-2-4 | 5-10-0 | | 6-6-0 | 4-6 | -4 | 3-2 | -2 | 8-7-10 | |
| | //3 (//, 1) | <u>[2.0 0 0,0 0 0], [0.0 2 -</u> | r,0 2 0j | | | | | | | | |
| LOADING | (psf) | SPACING- | 2-0-0 | CSI. | DEF | L. in | (loc) | l/defl | L/d | PLATES | GRIP |
| | 20.0 | Plate Grip DOL | 1.15 | TC 0.30 | Vert | | 14-27 | >999 | 360 | MT20 | 244/190 |
| | 10.0 | Lumber DOL | 1.15 | BC 0.23 | Vert | | 14-27 | >922 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB 0.84 | Horz | | | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/ | TPI2014 | Matrix-AS | Wind | l(LL) 0.01 | 19 | >999 | 240 | Weight: 233 lb | FT = 20% |
| LUMBER- TOP CHOR BOT CHOR WEBS | RD 2x4 SI 2x4 SI | P No.2 P 2400F 2.0E P No.3 | | | top bot | CING- CHORD CHORD | 2-0-0 o Rigid c | c purlins eiling dire | (6-0-0 max ctly applied | ý. | |
| SLIDER | Left 2 | x6 SP No.1 1-6-0 | | | WEB | S | 1 Row | at midpt | | 7-17, 8-17 | |
| | Max U Max ((Ib) - Max | Horz 2=-167(LC 6) Jplift 2=-2(LC 8), 12=-9(Grav 2=948(LC 19), 15= . Comp./Max. Ten All 1 | 1531(LC 1), 12= | less except when sh | | | | | | | |
| TOP CHOR | | -1068/9, 4-6=-775/72, 6 2=-535/6 | -7=-560/85, 7-8= | -315/87, 8-9=-470/80 |), 9-10=0/270, | | | | | | |
| BOT CHOR WEBS | 4-19 |)=0/888, 19-20=0/888, 1)=-361/71, 7-19=0/334, 7 4=0/365, 11-14=-370/55 | 7-17=-474/6, 9-17 | | /4, 10-15=-422/0 | , | | | | | |
| NOTES- | | | | | | | | | | | |
| Unbalani Wind: AS II; Exp B plate grip | SCE 7-16; ' 3; Enclosed p DOL=1.6 | | gust) Vasd=95m cantilever left and | ph; TCDL=6.0psf; B0 | | | | | 60 | | 1155 |
| | | Irainage to prevent wate | | | | | | | | | A |
| | | 1T20 unless otherwise in | | - lood nonconcurrent | المحافة برهم ملاسيا | ive leede | | | | IN TH C | ARO |
| 6) * This tru | uss has bee | n designed for a 10.0 psf en designed for a live loa n chord and any other m | ad of 20.0psf on t | he bottom chord in a | | | iter than | 6-0-0 | | NUMBER S | Spiller . |
| 8) This trus | ss is design | I connection (by others) ed in accordance with th d ANSI/TPI 1. | | | | | | | | SE/ | AL |
| This trus sheetroc | ss design re ck be applie | equires that a minimum of directly to the bottom epresentation does not d | chord. | | | • | | | m | SE/ 286 | |
| ioj Giaphic | ical putiin fe | presentation does not d | | | punin along the | top and/of b | Suom Ch | oru. | | NGIN | FEREN |

L. GALININ

April 8,2025

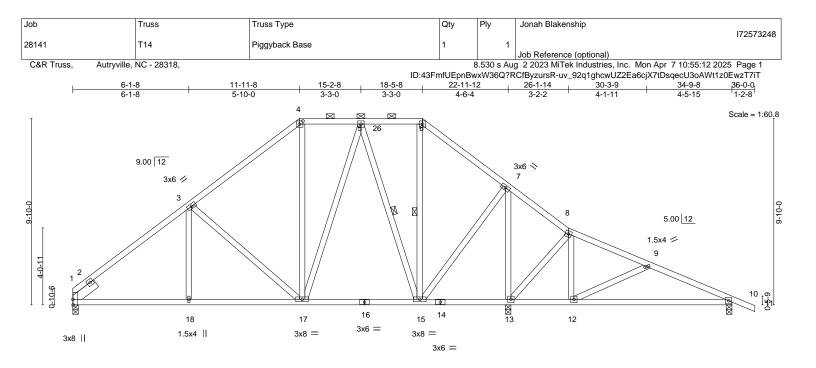
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| ⊢ | 6-1-8 | 11-11-8 | 18-5-8 | 22-11-1 | | 1-14 | 34-9-8 | |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------|-----------------------------------|----------------|------------------------|
| <u> </u> | 6-1-8 | 5-10-0 | 6-6-0 | 4-6-4 | 3- | 2-2 | 8-7-10 | |
| Plate Offsets | (X,Y) [1:0-3-8,Edge | 9], [4:0-2-4,0-2-0] | | | | | | |
| | 0.0 Plate 0 | ING- 2-0-0 Grip DOL 1.15 er DOL 1.15 | CSI. TC 0.15 BC 0.22 | Vert(LL) -0.07 | (loc) l/def 12-25 >999 12-25 >981 | 360 | PLATES MT20 | GRIP 244/190 |
| | 0.0 * Rep S | tress Incr YES IRC2018/TPI2014 | WB 0.80 Matrix-AS | Horz(CT) 0.02 | | n/a | Weight: 231 lb | FT = 20% |
| LUMBER- TOP CHORD BOT CHORD WEBS SLIDER | | 3-0 | | BRACING- TOP CHORD BOT CHORD WEBS | Structural wo 2-0-0 oc purli Rigid ceiling o 1 Row at mid | ns (6-0-0 max lirectly applied | | |
| REACTIONS. | (size) 1=0-3-8, Max Horz 1=-162(L Max Uplift 10=-13(L | 13=0-3-8, 10=0-3-8 C 6) | =483(LC 20) | - | | | | |
| FORCES. (I TOP CHORD | | | or less except when shown. 6=-342/91, 6-7=-506/85, 8-9 | 9=-255/0, | | | | |
| BOT CHORD WEBS | 1-18=0/912, 17-18 | | 12=0/519 5=0/738, 7-13=-1109/0, 8-1 | 3=-433/3, | | | | |
| NOTES- | | | | | | | | |
| Unbalance Wind: ASC II; Exp B; E plate grip E | E 7-16; Vult=120mph (inclosed; MWFRS (dire DOL=1.60 | ectional); cantilever left ar | esign. nph; TCDL=6.0psf; BCDL=6 d right exposed ; end vertica | | | t; Cat. =1.60 | ~~~~ | 1115 |
| | equate drainage to pre re 4x4 MT20 unless ot | | | | | | 11111 C | AD |
| 5) This truss I6) * This truss between th | has been designed for has been designed fo e bottom chord and an | a 10.0 psf bottom chord I r a live load of 20.0psf or y other members, with B0 | ve load nonconcurrent with a the bottom chord in all area CDL = 10.0psf. ng plate capable of withstan | s with a clearance grea | | | SE 286 | |
| This truss i referenced | s designed in accordar standard ANSI/TPI 1. | ice with the 2018 Internation | ional Residential Code secti | ions R502.11.1 and R8 | 02.10.2 and | | SE | AL |
| sheetrock l | be applied directly to th | e bottom chord. | al wood sheathing be applied r the orientation of the purlin | | | osum | 286 | 77 |
| - • | · · | · | | - · | | | NGIN SNGIN | FERIN |

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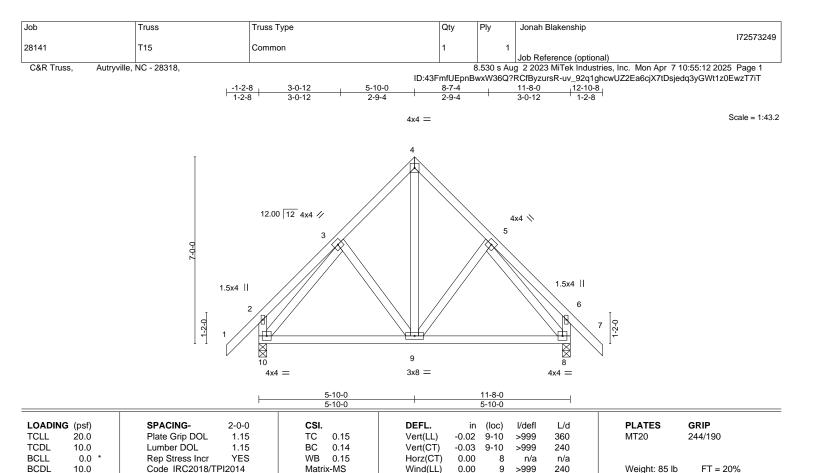




| | L | 6-1-8 | 11-11-8 | 18-5-8 | | 22-11-1 | 2 | 26-1-1 | 4 | 34-9-8 | |
|---------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------|------------------------------------------|---------------|--------------------|----------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | 6-1-8 | 5-10-0 | 6-6-0 | | 4-6-4 | | 3-2-2 | | 8-7-10 | |
| Plate Offse | ets (X,Y) | [1:0-3-8,Edge], [4:0-2- | 4,0-2-0] | | | | | | | | |
| LOADING TCLL | (psf) 20.0 | SPACING- Plate Grip DOL | 2-0-0 1.15 | CSI. TC 0.15 | DEFL. Vert(LL) | | (loc) 12-25 | l/defl >999 | L/d 360 | PLATES MT20 | GRIP 244/190 |
| TCDL BCLL | 10.0 0.0 * | Lumber DOL Rep Stress Inc | 1.15 YES | BC 0.22 WB 0.80 | Vert(CT) Horz(CT) | -0.14 0.02 | 12-25 10 | >981 n/a | 240 n/a | | |
| BCDL | 10.0 | Code IRC2018 | /TPI2014 | Matrix-AS | Wind(LL) | 0.01 | 18-21 | >999 | 240 | Weight: 231 lb | FT = 20% |
| LUMBER- TOP CHOF BOT CHOF WEBS SLIDER | RD 2x4 SF 2x4 SF | 2400F 2.0E 2400F 2.0E 2005 2.0E 2003 6 SP No.1 1-6-0 | | · / | BRACING- TOP CHOR BOT CHOR WEBS | RD | 2-0-0 c Rigid c | oc purlins | sheathing ((6-0-0 max ctly applied | | |
| REACTION | NS. (siz Max H Max U | e) 1=0-3-8, 13=0-3-8 lorz 1=-162(LC 6) plift 10=-13(LC 8) lrav 1=886(LC 19), 13 | | -483(LC 20) | | | | | | | |
| TOP CHOP | RD 1-3≕ 9-10: | 1096/14, 3-4=-800/76 =-586/14 | 4-5=-581/89, 5-6 | r less except when shown. 5=-342/91, 6-7=-506/85, 8-1 | 9=-255/0, | | | | | | |
| BOT CHOF WEBS | 3-17 | =0/912, 17-18=0/912, ⁻ =-367/73, 5-17=0/323, =0/361, 9-12=-369/52 | | 12=0/519 5=0/738, 7-13=-1109/0, 8- ⁻ | 13=-433/3, | | | | | | |
| NOTES- | | | | | | | | | | | |
| | ced roof live | e loads have been con | sidered for this de | sian | | | | | | | |
| 2) Wind: A II; Exp B | SCE 7-16; \ | /ult=120mph (3-second MWFRS (directional); | d gust) Vasd=95n | hph; TCDL=6.0psf; BCDL= d right exposed ; end vertic | | | | | at. 60 | | |
| | | rainage to prevent wat | | | | | | | | , in the second s | in the second se |
| | | T20 unless otherwise i | | | | | | | | IN TH C | ARO |
| 6) * This tru | uss has bee | | ad of 20.0psf on | ve load nonconcurrent with the bottom chord in all area DL = 10.0psf. | | | ter than | 6-0-0 | | I'I OFFICE | SPK Nor |
| 8) This trus | ss is designe | | | ng plate capable of withstan onal Residential Code sect | | | | and | | SEL 286 | AL |
| 9) This trus | ss design re | | | l wood sheathing be applie | ed directly to the t | op cho | rd and 1 | I/2" gypsu | m | 286 | 77 |
| 10) Graphi | ical purlin re | presentation does not | depict the size or | the orientation of the purlir | n along the top ar | nd/or bo | ottom ch | nord. | | THE SOUND | ala |



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| 1.11 | MBER- | |
|------|-------|--|
| LU | | |

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=156(LC 7) Max Uplift 10=-19(LC 8), 8=-19(LC 8) Max Grav 10=536(LC 1), 8=536(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 3-4=-347/59, 4-5=-347/59 TOP CHORD

BOT CHORD 9-10=0/293

WEBS 4-9=-39/269, 3-10=-354/0, 5-8=-354/0

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.



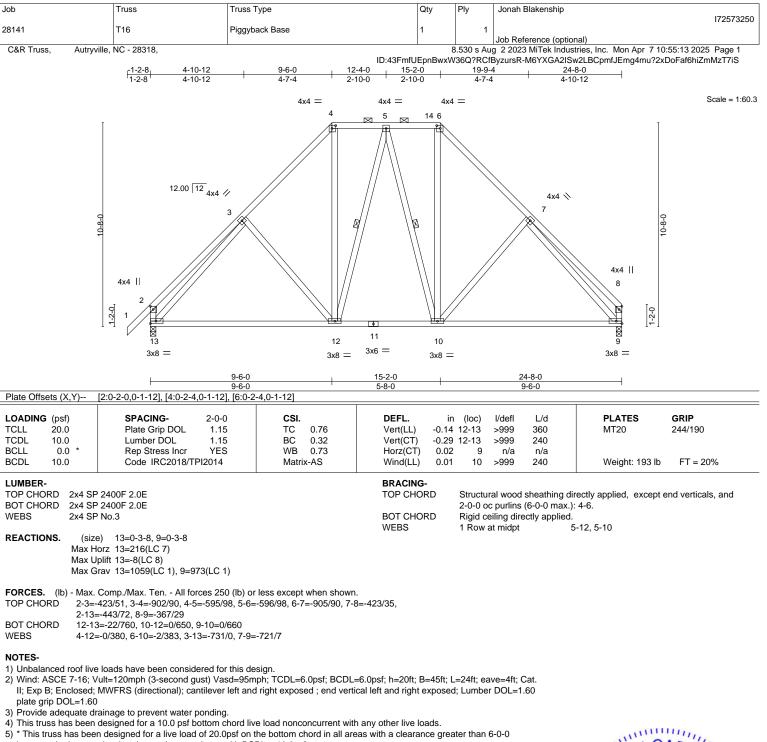
April 8,2025

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 that the operating of the second se and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

BRACING-TOP CHORD

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

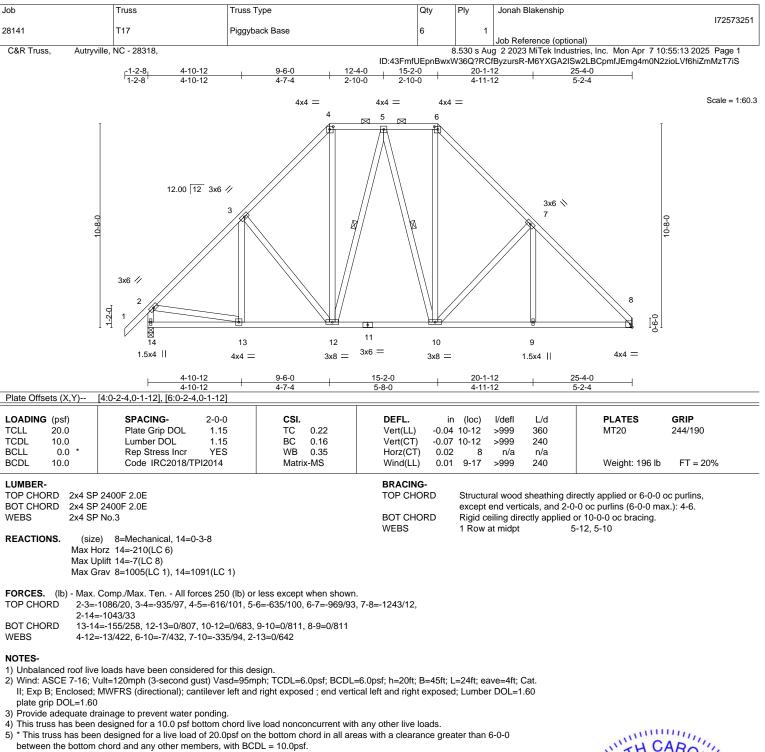


- between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 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.



TRENGINEERING BY A MITEK Affiliate

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

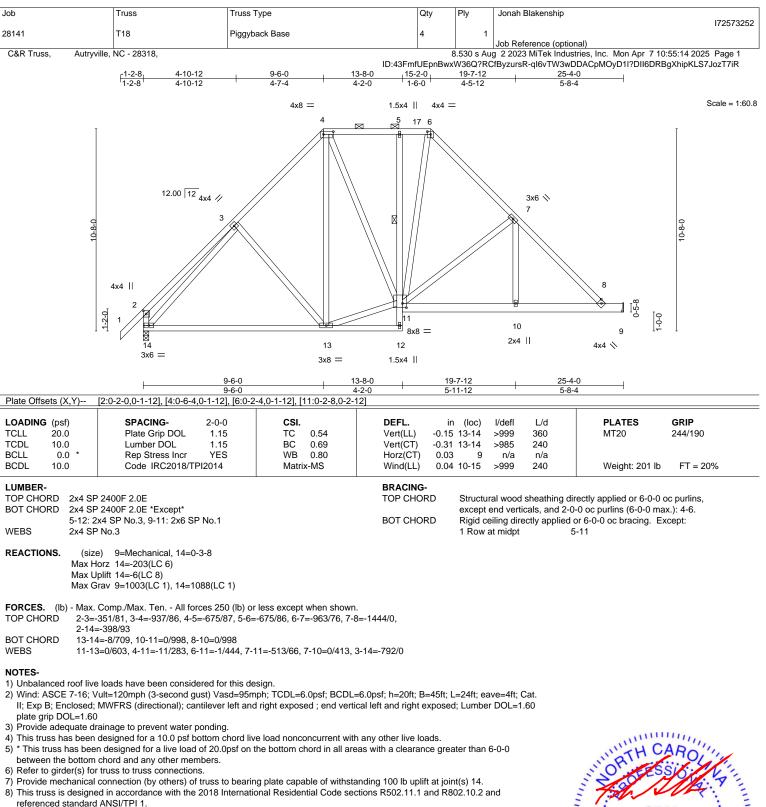
referenced standard ANSI/TPI 1.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 8,2025

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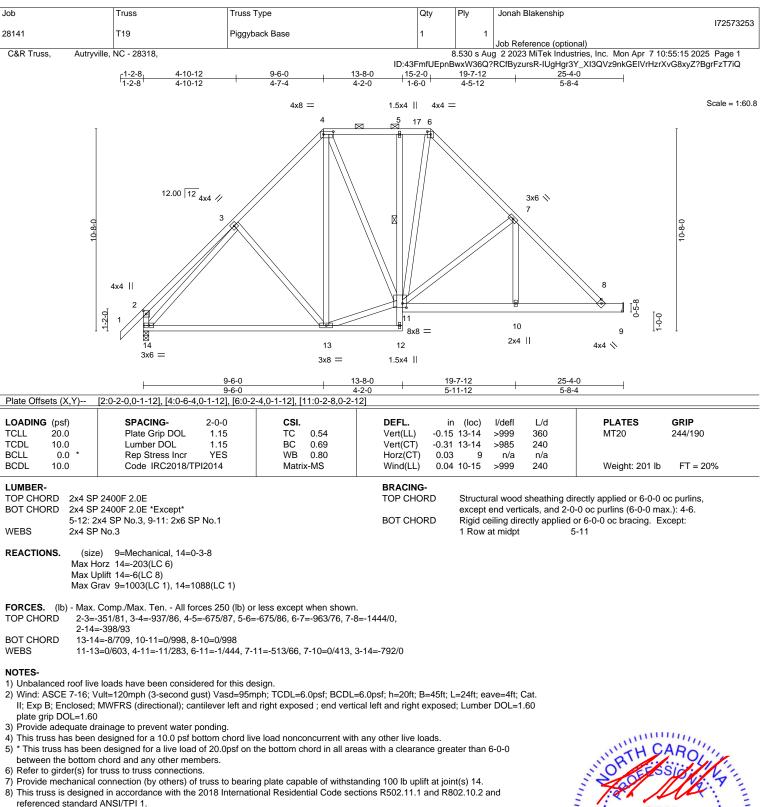


9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 8,2025

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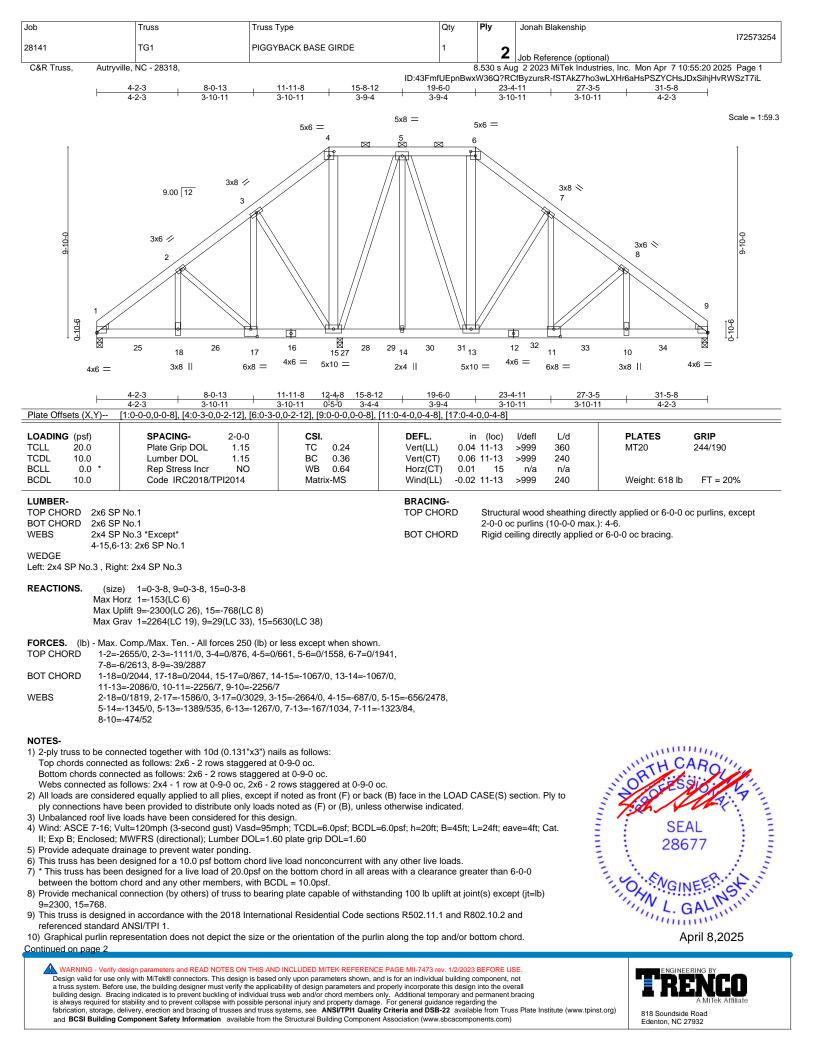


9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 8,2025

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| - [· | lob | Truss | Truss Type | Qty | Ply | Jonah Blakenship |
|------|------------------------|-------------|----------------------|---------|-------------|----------------------------------------------------------------|
| | | | | | | 172573254 |
| | 28141 | TG1 | PIGGYBACK BASE GIRDE | 1 | 2 | |
| | | | | | 2 | Job Reference (optional) |
| | C&R Truss, Autryville, | NC - 28318, | | 8 | 3.530 s Aug | g 2 2023 MiTek Industries, Inc. Mon Apr 7 10:55:20 2025 Page 2 |
| | | | ID:43Fmf | UEpnBwx | W36Q?RC | fByzursR-fSTAkZ7ho3wLXHr6aHsPSZYCHsJDxSihjHvRWSzT7iL |

NOTES-

11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 906 lb down at 2-0-12, 906 lb down at 4-0-12, 906 lb down at 6-0-12, 908 lb down at 8-0-12, 908 lb down at 10-0-12, 902 lb down at 12-0-12, 899 lb down at 12-3-4, 13 lb down and 850 lb up at 13-1-4, 13 lb down and 850 lb up at 15-1-4, 843 lb up at 17-1-4, 843 lb up at 19-1-4, 13 lb down and 850 lb up at 21-1-4, 13 lb down and 850 lb up at 21-1-4, 13 lb down and 850 lb up at 21-1-4, and 125 lb up at 31-1-4, and 175 lb up at 25-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

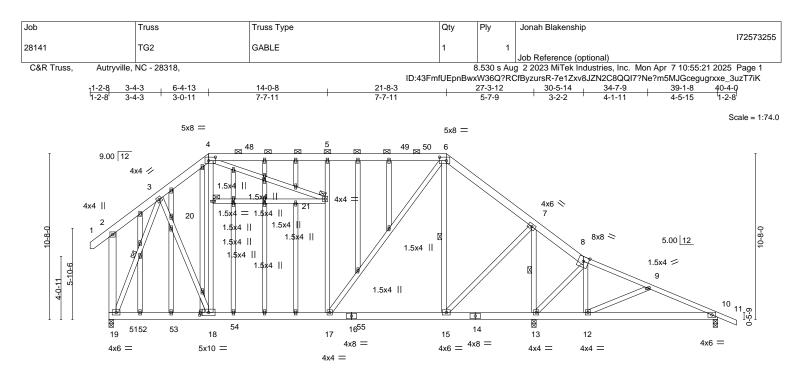
Uniform Loads (plf) Vert: 1-4=-60, 4-6=-60, 6-9=-60, 19-22=-20

Concentrated Loads (lb)

Vert: 16=-899(B) 18=-897(B) 17=-899(B) 15=-1798(B) 13=389(B) 11=391(B) 10=125(B) 24=125(B) 25=-897(B) 26=-897(B) 28=391(B) 29=391(B) 30=389(B) 32=391(B) 33=175(B) 34=389(B)

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)





| F | 6-4-13 | 14-0-8 | | I-8-3 7-11 | | 7-3-12 5-7-9 | | 30-5-14 | <u>39-1-8</u> 8-7-10 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|--------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------|
| Plate Offsets (X,Y) [| [4:0-5-4,0-2-12], [6:0-5-4, | | | | | | 0-0-12] | 3-2-2 | 8-7-10 | |
| 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/TF | 2-0-0 1.15 1.15 NO Pl2014 | CSI. TC 0.29 BC 0.54 WB 0.65 Matrix-MS | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | -0.15 -0.24 0.01 | | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 442 lb | GRIP 244/190 FT = 20% |
| 8-11: 2x BOT CHORD 2x6 SP WEBS 2x4 SP | No.3 *Except* 17: 2x4 SP No.2, 2-19: 2: | x6 SP No.1 | | BRACING- TOP CHOR BOT CHOR WEBS JOINTS | :D :D | except Rigid ce 1 Row a | end vert | icals, and 2 ectly applie | directly applied or 6-0-0 2-0-0 oc purlins (6-0-0 ma ad or 6-0-0 oc bracing. 6-15, 7-13, 3-19 | |
| Max Ho Max Up |) 13=0-3-8, 19=0-3-8, prz 19=-244(LC 6) olift 13=-15(LC 34), 10=- rav 13=2405(LC 14), 19= | 180(LC 28) | 207(LC 1) | | | | | | | |
| TOP CHORD 3-4=-{ 9-10= BOT CHORD 18-19: 10-12: WEBS 3-18= | Comp./Max. Ten All for 375/67, 4-5=-745/74, 5-6 -244/777, 2-19=-292/126 0/563, 17-18=0/781, 15 =-691/243 0/619, 17-21=-458/82, 5- -2247/72, 8-13=-274/0, 8 | =-725/73, 6-7=-43 5 5-17=-14/322, 13-1 -21=-476/83, 6-17= | 7/61, 7 ⁻ 8=-173/1296, 8 5=-1021/211, 12-13=-{ =0/779, 6-15=-839/66, | 920/265, | | | | | | |
| NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; Vi II; Exp B; Enclosed; I plate grip DOL=1.60 3) Truss designed for w Gable End Details as 4) Provide adequate dra 5) All plates are 2x4 MT 6) Gable studs spaced a 7) This truss has been between the bottom d 9) Provide mechanical of 10=180. | loads have been conside ult=120mph (3-second gu WWFRS (directional); car ind loads in the plane of applicable, or consult qu anage to prevent water p 20 unless otherwise indi | ered for this design ust) Vasd=95mph; ntilever left and rig the truss only. Fo ualified building de bonding. icated. ottom chord live lo of 20.0psf on the l nbers, with BCDL truss to bearing pl | n. TCDL=6.0psf; BCDL= ht exposed ; end vertic r studs exposed to win signer as per ANSI/TP ad nonconcurrent with pottom chord in all area = 10.0psf. ate capable of withsta | al left and right e: d (normal to the f l 1. any other live loa as with a clearand | kposed; ace), se ds. ce great | Lumbe ee Stanc er than (s) 13 e | r DOL=1 lard Indu 6-0-0 xcept (jt | Cat. .60 ustry =lb) | SE 286 | ARO SOLAR AL 577 |

- 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) 13 except (jt=lb) 10=180.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard Continued on page 2

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11111 April 8,2025



| Job | Truss | Truss Type | Qty | Ply | Jonah Blakenship |
|-------|----------|------------|-----|-----|----------------------------------------------------------------|
| | | | | | 172573255 |
| 28141 | TG2 | GABLE | 1 | 1 | Job Reference (optional) |
| | NC 20240 | | | | a 2 2022 MiTek Industrias Inc. Man Ant. 7 10:55:21 2025 Dags 2 |

C&R Truss, Autryville, NC - 28318,

8.530 s Aug 2 2023 MiTek Industries, Inc. Mon Apr 7 10:55:21 2025 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-7e1Zxv8JZN2C8QQI7?Ne?m5MJGcegugrxxe_3uzT7iK

LOAD CASE(S) Standard

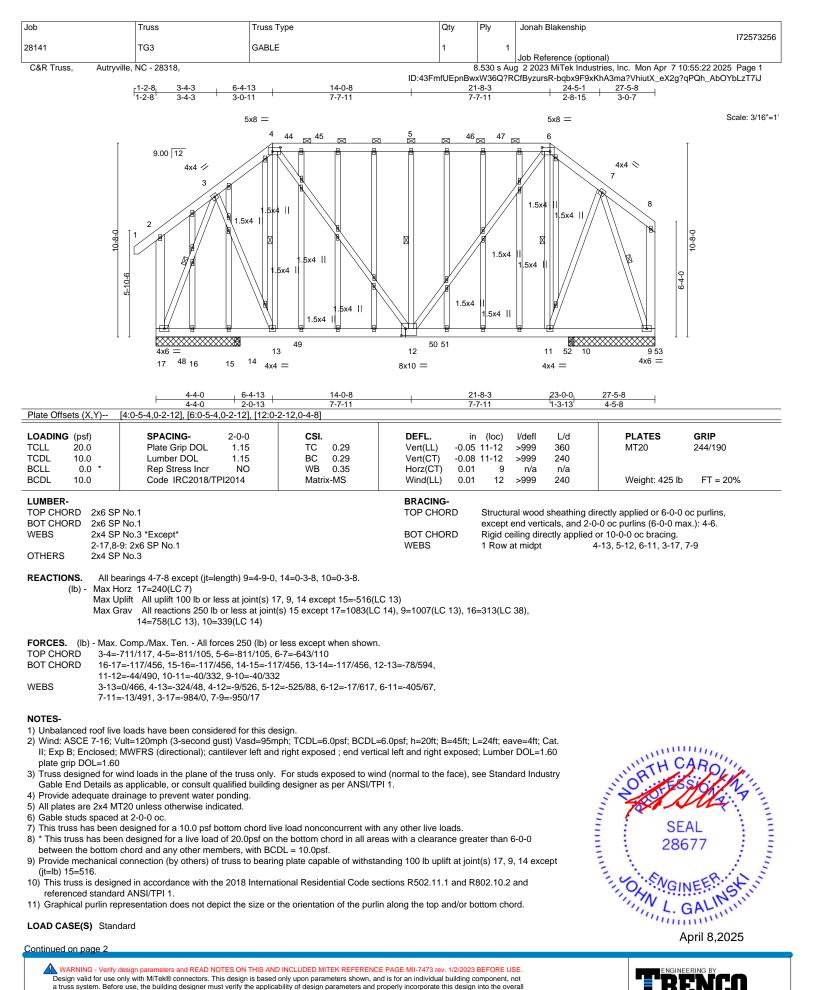
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-8=-60, 8-11=-60, 19-45=-20

Concentrated Loads (lb) Vert: 19=-218 52=-207 53=-207

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bilding 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 | Jonah Blakenship |
|------------|---------------|-------------|------------|-----|-------------|----------------------------------------------------------------|
| | | | | | | 172573256 |
| 28141 | - | TG3 | GABLE | 1 | 1 | |
| | | | | | | Job Reference (optional) |
| C&R Truss, | Autryville, N | IC - 28318, | | 8 | 3.530 s Aug | g 2 2023 MiTek Industries, Inc. Mon Apr 7 10:55:22 2025 Page 2 |

8.530 s Aug 2 2023 MiTek Industries, Inc. Mon Apr 7 10:55:22 2025 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-bqbx9F9xKhA3ma?VhiutX_eX2g?qPQh_AbOYbLzT7iJ

LOAD CASE(S) Standard

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

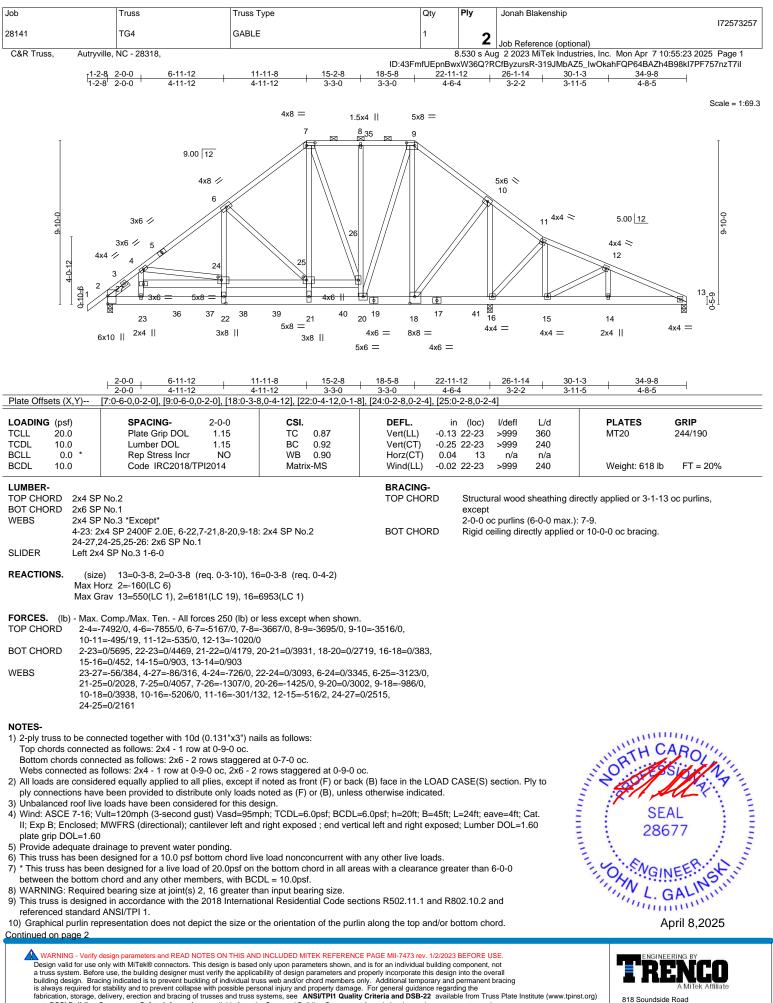
Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-8=-60, 9-17=-20

Concentrated Loads (lb)

Vert: 16=-207 15=-207

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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| [| Job | Truss | Truss Type | Qty | Ply | Jonah Blakenship |
|---|------------------------|-------------|------------|-----------|------------|----------------------------------------------------------------|
| | | | | | | 172573257 |
| | 28141 | TG4 | GABLE | 1 | 2 | |
| | | | | | _ | Job Reference (optional) |
| | C&R Truss, Autryville, | NC - 28318, | | | 3.530 s Au | g 2 2023 MiTek Industries, Inc. Mon Apr 7 10:55:23 2025 Page 2 |
| | | | ID:43Fm | nfUEpnBw: | xW36Q?R | CfByzursR-319JMbAZ5_lwOkahFQP64BAZh4B98kl7PF757nzT7il |

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 985 lb down at 2-0-12, 983 lb down at 4-0-12, 983 lb down at 6-0-12, 983 lb down at 8-0-12, 983 lb down at 10-0-12, 983 lb down at 10-0-12, 985 lb down at 20-0-12, and 985 lb down at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

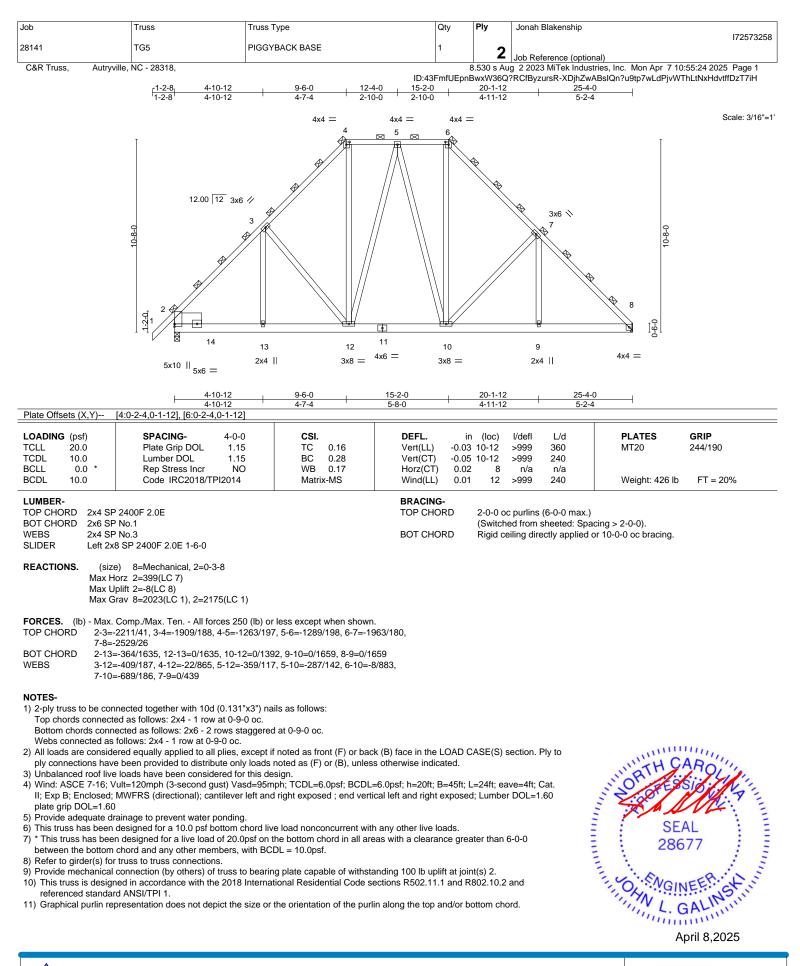
Vert: 1-7=-60, 7-9=-60, 9-11=-60, 11-13=-60, 28-31=-20

Concentrated Loads (lb)

Vert: 19=-985(B) 23=-985(B) 21=-983(B) 18=-985(B) 17=-985(B) 36=-983(B) 37=-983(B) 38=-983(B) 39=-983(B) 40=-985(B) 41=-985(B) 41=-9

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| Job | Truss | Truss Type | Qt | / Ply | Jonah Blakenship | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 28141 | TG6 | PIGGYBACK ATTIC | 1 | 2 | | | 172573259 |
| C&R Truss, Autr | yville, NC - 28318, | | | 8.530 s Au | Job Reference (option g 2 2023 MiTek Industr | ries, Inc. Mon Apr 71 | |
| | | | | | HByzursR-?PG3nGBpd 25-4 | -0 | wdcl6QsZcCCgzT7iG |
| | 2-6-12 | 5-6-4 6 ₁ 0-0 10-2-0 2-11-8 0-5-12 4-2-0 | <u>15-10-0</u> 5-8-0 | 20-0-0 4-2-0 | <u>23-2-4</u> 23 ₁ 4-4 3-2-4 0-2-0 | <u>26-6-8</u> 1-2-8 | |
| | | 6x8 = | | 7 6x8 = | 1-11- | 12 | Scale = 1:68.9 |
| | Ī | 3x6 = | | 3x6 = | | I | |
| | | 5 | | → ₹ ⁸ | | | |
| | 12.00 | | 16 4x4 | | | | |
| | | 4x8 | | | 3x6 | | |
| | q | | | | | Ģ | |
| | 0- 8- 1- 1- 2x4 ≫ | | | | | 4x4 ∕\ / | |
| | 3. | | | | 10 |) | |
| | | 15-5-8 | | | | 2x4 | |
| | 1 | | | | | | |
| | 1-0-0 | | | | | | |
| | | | 21 3-9-8 22 | 2 | | | |
| | 5.44 11 | 15 8x10 = | | | 14 9-10-8 MT20HS = | 13 5x6 = | |
| | 5x14 4x4 // | 11-8-0 | | | | | |
| | 2-6-12 | 5-6-4 6 ₁ 0 ₁ 0 2-11-8 0-5-12 | 20-0-0 | | 23-2-4 25-4- | | |
| Plate Offsets (X,Y) | <u>2-6-12</u> [6:0-5-8,0-3-0], [7:0-5-8,0-3- | <u>2-11-8_0-5-12</u> 0], [9:0-3-0,Edge], [14:0-4-12,Edge] | 14-0-0 , [15:0-2-12,Edge] | | 3-2-4 2-1-1 | 2 ' | |
| LOADING (psf) | SPACING- | 3-0-0 CSI . | DEFL. | in (loc) | l/defl L/d | PLATES | GRIP |
| TCLL 20.0 TCDL 10.0 | | 1.15 TC 0.81 1.15 BC 0.73 | Vert(LL) Vert(CT) | | >578 360 >406 240 | MT20 MT20HS | 244/190 187/143 |
| BCLL 0.0 * BCDL 10.0 | Rep Stress Incr Code IRC2018/TPI2 | NO WB 0.50 | Horz(CT) Wind(LL) | 0.02 1 | n/a n/a >999 240 | Weight: 493 lb | |
| | | | | 0.10 14 10 | 2000 240 | Weight. 400 lb | 11 - 2070 |
| | SP 2400F 2.0E | | BRACING- TOP CHOR | | purlins (6-0-0 max.), | | |
| | SP 2400F 2.0E *Except* 5: 2x10 SP 2400F 2.0E | | BOT CHOR | | d from sheeted: Space | | |
| WEBS 2x4 S | SP No.3 *Except* 2x4 SP 2400F 2.0E, 9-14,4-15 | 2 2 2 5 5 P No 1 | JOINTS | 0 | at Jt(s): 6, 7, 16, 11 | J | |
| | 2x6 SP No.1 1-6-0 | | | | | | |
| | ize) 1=0-3-8, 13=0-3-8 | | | | | | |
| | Horz 1=462(LC 7) Uplift 1=-102(LC 8), 13=-164(| (LC 8) | | | | | |
| Max | Grav 1=3167(LC 14), 13=348 | 5(LC 16) | | | | | |
| () | • | s 250 (lb) or less except when show 5=-2215/266, 5-6=0/1080, 7-8=0/10 | | | | | |
| 9-1 | 10=-4262/199, 10-11=-62/290, | 6-7=-72/1624, 11-13=-102/253 | 077, 0-92230/203 | | | | |
| WEBS 5-1 | | , 3-15=-468/218, 6-16=-50/253, 7-1 | 6=-49/256, | | | | |
| 10- | 13=-4790/0, 9-14=0/2723, 10- | 14=-53/475, 4-15=0/2514 | | | | | |
| NOTES- 1) 2-ply truss to be o | onnected together with 10d (0. | 131"x3") nails as follows: | | | | | |
| Top chords conne | cted as follows: 2x6 - 2 rows s | taggered at 0-9-0 oc, 2x4 - 1 row at vs staggered at 0-9-0 oc, 2x10 - 2 ro | | 0.00 | | | 0.00 |
| Webs connected a | as follows: 2x4 - 1 row at 0-9-0 | oc, 2x6 - 2 rows staggered at 0-9-0 | oc. | | | TH C | ARO |
| | | es, except if noted as front (F) or ba only loads noted as (F) or (B), unle | | | ection. Ply to | SE 280 | Sid: Min |
| | ve loads have been considere Vult=140mph (3-second gust) | d for this design.) Vasd=111mph; TCDL=6.0psf; BCE | 0L=6.0psf; h=20ft; B | =45ft; L=25ft; ea | ave=4ft; Cat. | | Mar 1 |
| II; Exp B; Enclose plate grip DOL=1. | | ever left and right exposed ; end ver | tical left and right ex | posed; Lumber | DOL=1.60 | SE | AL E |
| | drainage to prevent water pon | | | | = | 280 | 677 E |
| | en designed for a 10.0 psf botto | om chord live load nonconcurrent wi | | | | | 1.1 |
| 7) This truss has bee | | 20.0psf on the bottom chord in all an ers. | reas with a clearanc | e greater than 6 | -0-0 | THY ENGL | NEER |
| 7) This truss has bee | m chord and any other membe | | pplied only to room | 14-15 | | THE AN I | AL INSULL |
| 8) * This truss has be between the botto 9) Ceiling dead load | (5.0 psf) on member(s). 4-5, 8 | i donom choro dead idad (U U dsh a | | | | | |
| 7) This truss has bee 8) * This truss has bee between the botto 9) Ceiling dead load 10) Bottom chord live 11) Provide mechani | (5.0 psf) on member(s). 4-5, 8 e load (40.0 psf) and additional | russ to bearing plate capable of with | | ft at joint(s) exce | ept (jt=lb) | in the second se | |
| 7) This truss has bee 8) * This truss has bee between the botto 9) Ceiling dead load 10) Bottom chord live 11) Provide mechani 1=102, 13=164. 12) This truss is desi | (5.0 psf) on member(s). 4-5, 8 e load (40.0 psf) and additional cal connection (by others) of the gned in accordance with the 2 | | standing 100 lb upli | | spt (jt=iD) | 11111 | April 8,2025 |
| 7) This truss has bee 8) * This truss has bee between the botto 9) Ceiling dead load 10) Bottom chord live 11) Provide mechani 1=102, 13=164. | (5.0 psf) on member(s). 4-5, 8 e load (40.0 psf) and additional cal connection (by others) of the gned in accordance with the 2 | russ to bearing plate capable of with | standing 100 lb upli | | spt (jt=iD) | 11111 | April 8,2025 |
| This truss has bee This truss has bee This truss has bee This truss has bee between the botto Ceiling dead load Bottom chord live Bottom chord live Provide mechani 1=102, 13=164. This truss is desi contineierengeses | (5.0 psf) on member(s). 4-5, 8 a load (40.0 psf) and additional cal connection (by others) of tr gned in accordance with the 2 lard ANSI/TPI 1. | russ to bearing plate capable of with | standing 100 lb upli sections R502.11.1 ICE PAGE MII-7473 rev. 1 and is for an individual bu | and R802.10.2 a | and E. | 11111 | April 8,2025 |

is always required for stability and to prevent coulapse 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 DSE-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 | Jonah Blakenship |
|------------------------|-------------|-----------------|---------|------------|----------------------------------------------------------------|
| | | | | | 172573259 |
| 28141 | TG6 | PIGGYBACK ATTIC | 1 | 2 | |
| | | | | _ | Job Reference (optional) |
| C&R Truss, Autryville, | NC - 28318, | | | 3.530 s Au | g 2 2023 MiTek Industries, Inc. Mon Apr 7 10:55:25 2025 Page 2 |
| | | ID:43Fm | fUEpnBw | W36Q?R0 | fByzursR-?PG3nGBpdcYed2j4MrRa9cGw6twdcl6QsZcCCgzT7iG |

NOTES-

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1207 lb down and 50 lb up at 11-8-0, and 1207 lb down and 50 lb up at 15-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

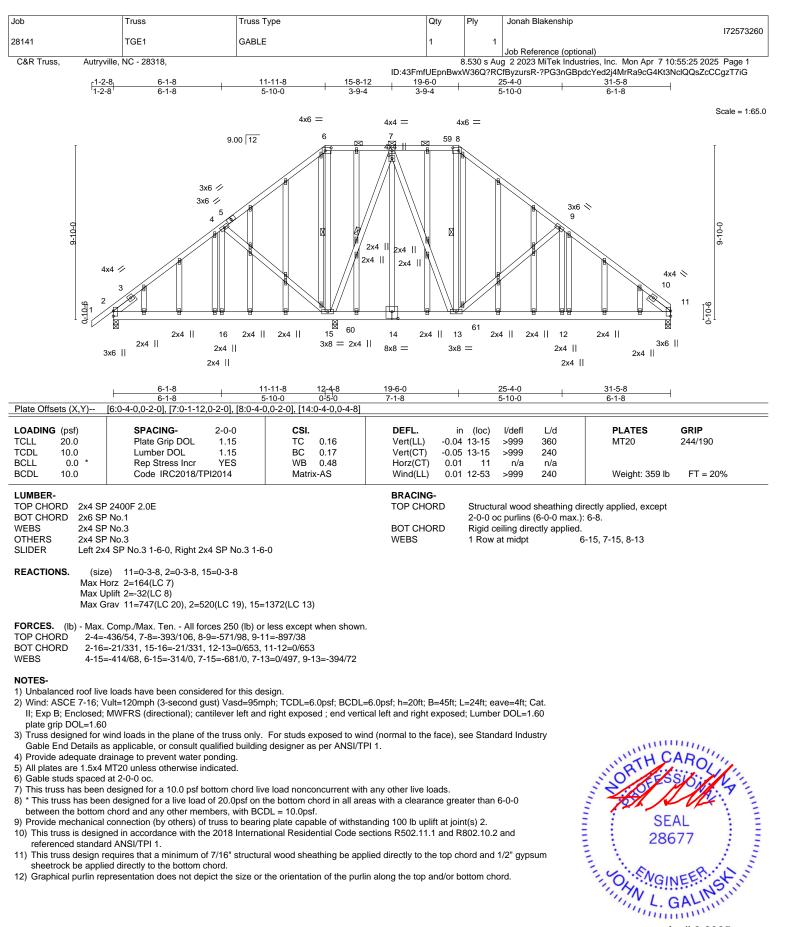
Uniform Loads (plf)

Vert: 13-17=-30, 1-4=-90, 4-5=-105, 5-6=-90, 7-8=-90, 8-9=-105, 9-11=-90, 11-12=-90, 6-7=-90, 5-8=-15

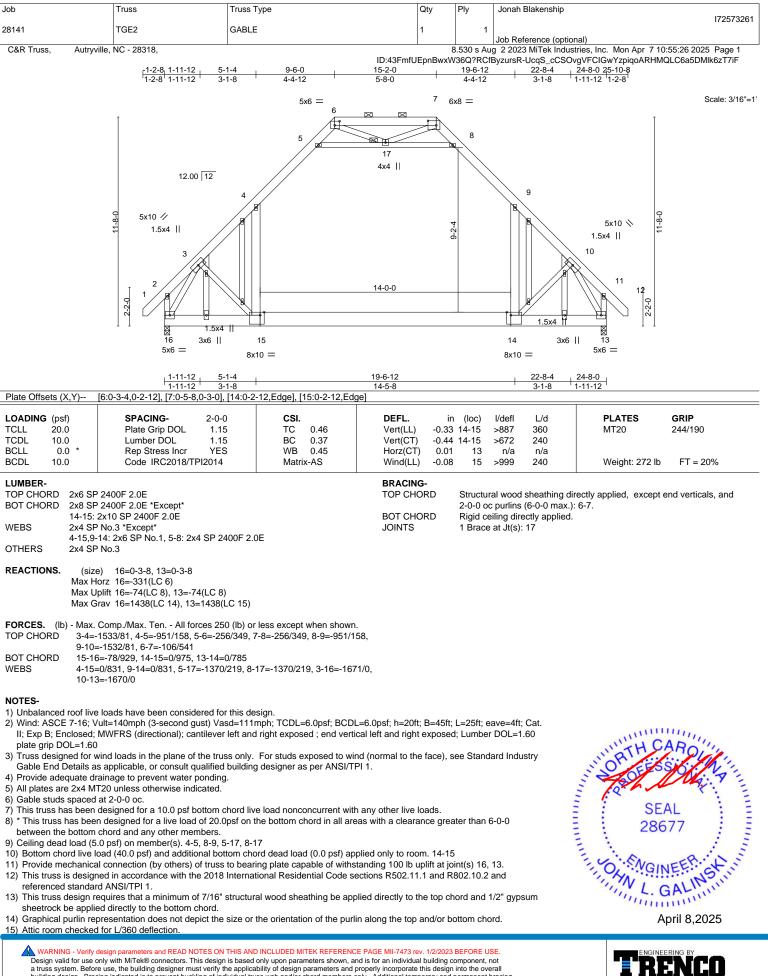
Concentrated Loads (lb) Vert: 21=-650(F) 22=-650(F)

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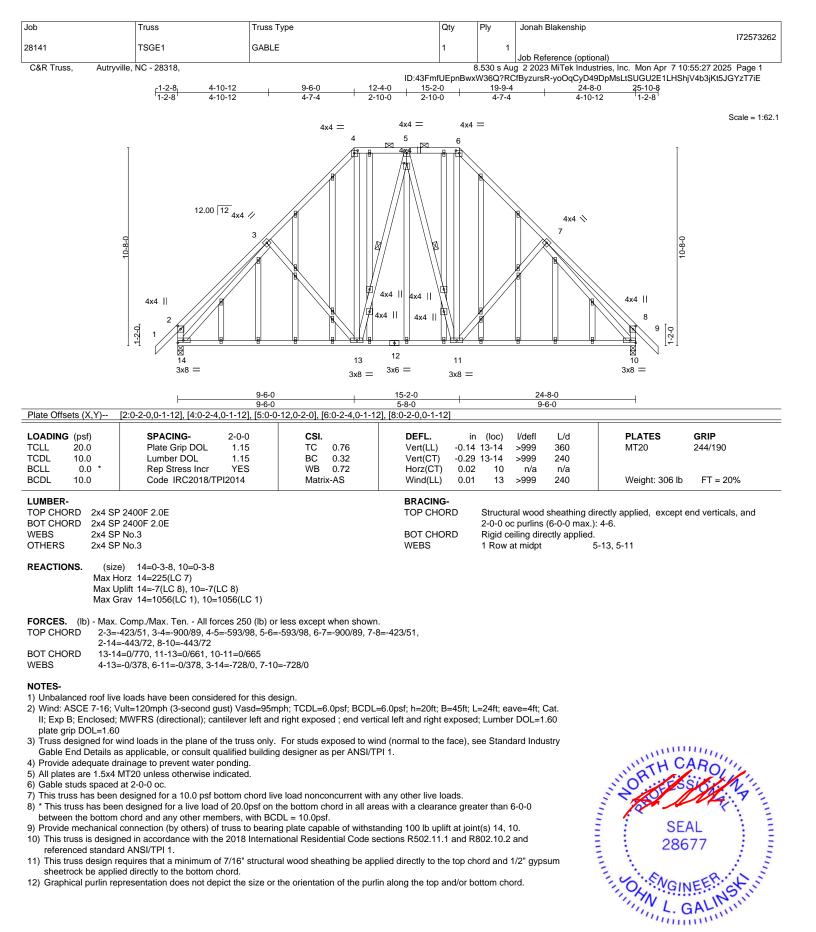




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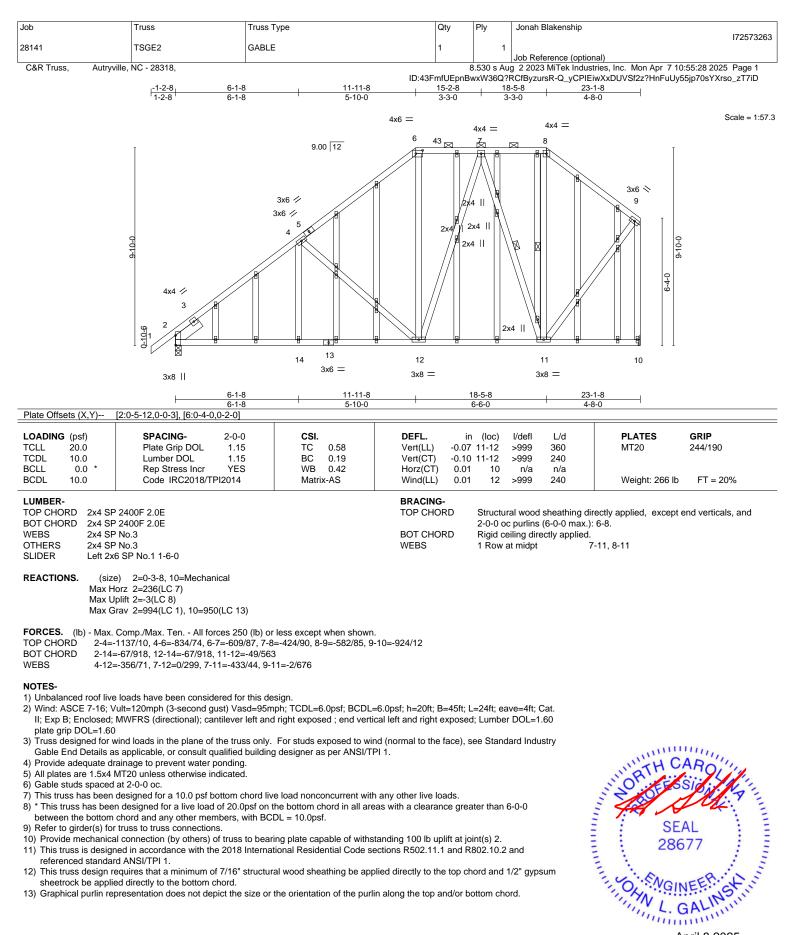


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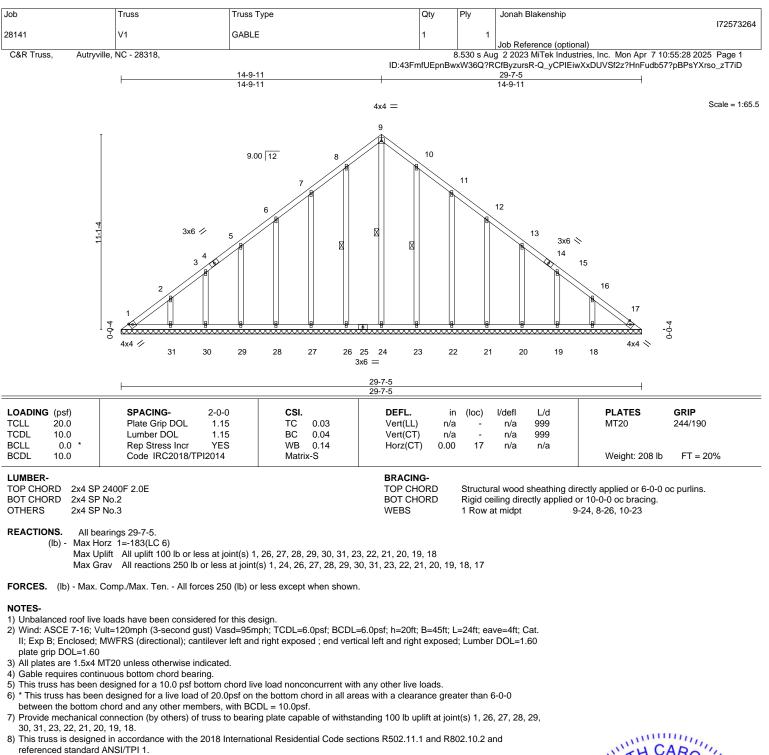
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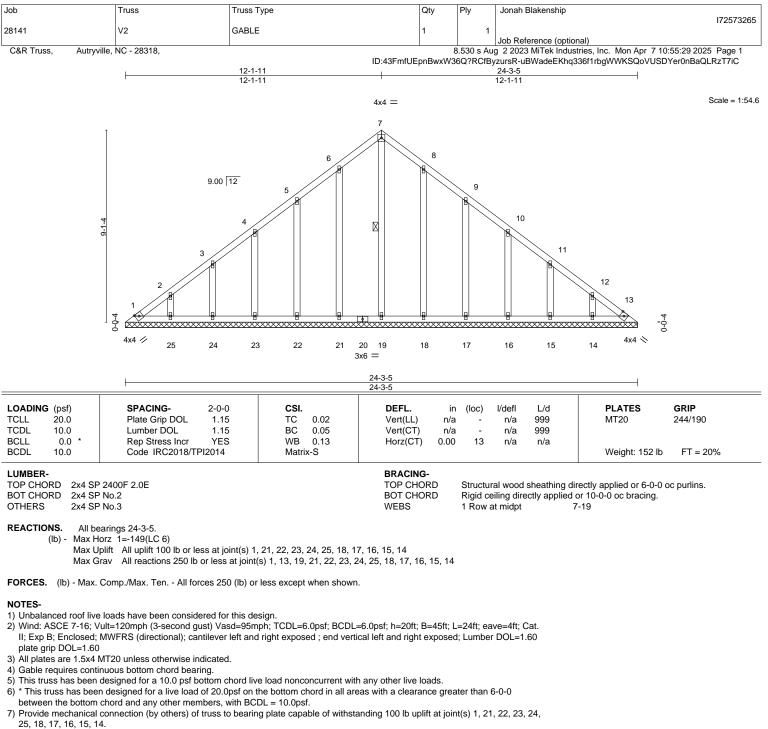
A MiTe 818 Soundside Road





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A MiTek Af 818 Soundside Road

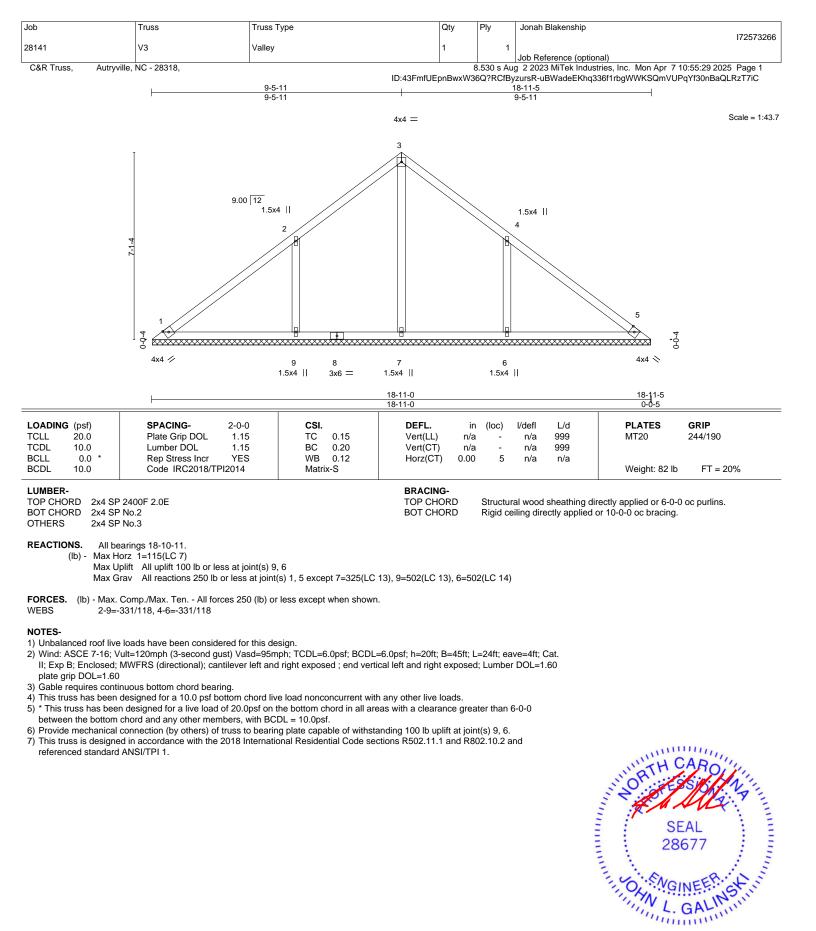


8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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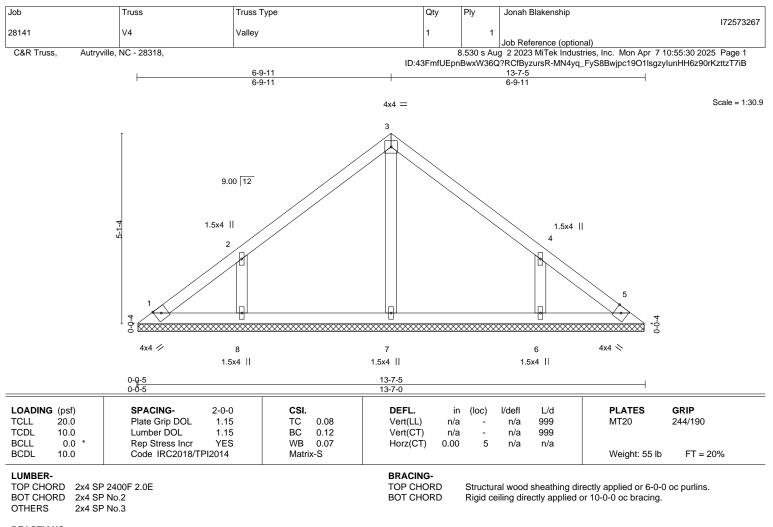
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818 Soundside Road



REACTIONS. All bearings 13-6-11. (Ib) - Max Horz 1=-81(LC 6

 Max Horz 1=-81(LC 6) Max Uplift All uplift 100 lb or less at joint(s) 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=308(LC 19), 6=308(LC 20)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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

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) 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.

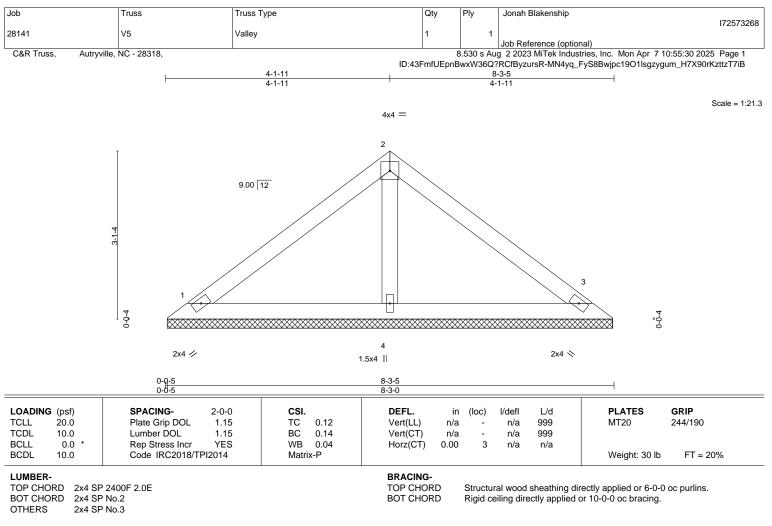


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818 Soundside Road



REACTIONS. (size) 1=8-2-11, 3=8-2-11, 4=8-2-11 Max Horz 1=47(LC 7) Max Uplift 1=-14(LC 8), 3=-14(LC 8) Max Grav 1=170(LC 1), 3=170(LC 1), 4=253(LC 1)

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

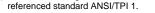
NOTES-

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

3) Gable requires continuous bottom chord bearing.

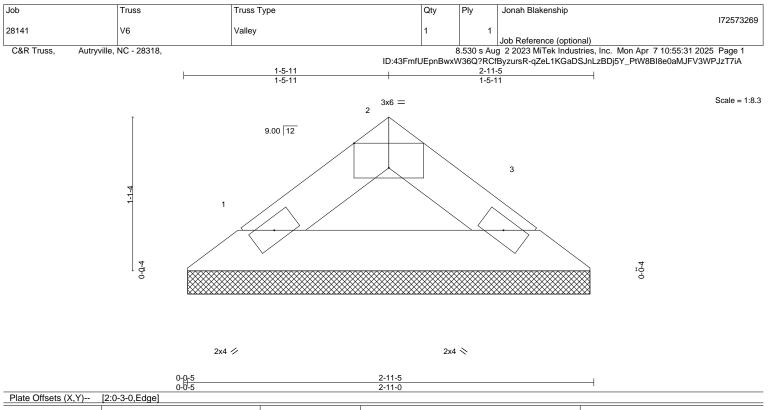
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide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





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| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014 | CSI. TC 0.01 BC 0.05 WB 0.00 Matrix-P | DEFL. Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 8 lb | GRIP 244/190 FT = 20% |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------|--------------------------|----------------------|-----------------------------|--------------------------|--------------------------------|------------------------------------|
| LUMBER- TOP CHORD 2x4 SP | 2400F 2.0E | | BRACING- TOP CHOR | D | Structu | ral wood | sheathing d | irectly applied or 2-1 | 1-5 oc purlins. |

BOT CHORD

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

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

REACTIONS. (size) 1=2-10-11, 3=2-10-11 Max Horz 1=-13(LC 6) Max Grav 1=83(LC 1), 3=83(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.

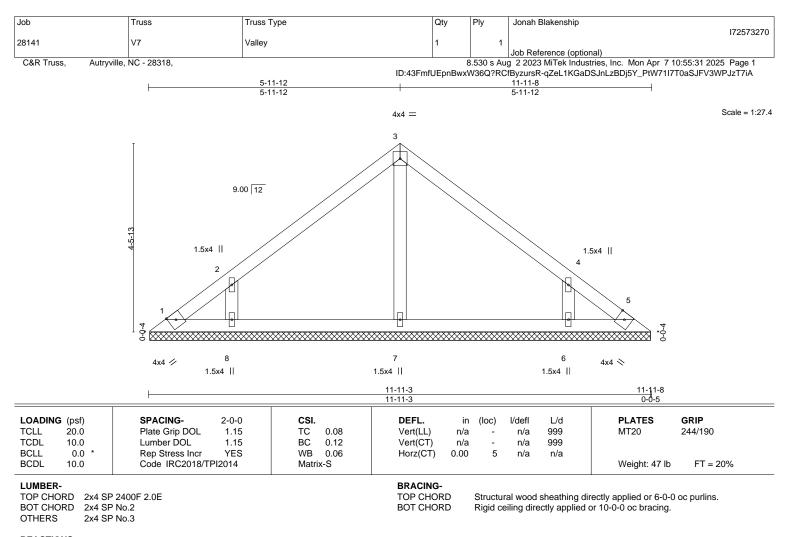
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) This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



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REACTIONS. All bearings 11-10-13. (lb) - Max Horz 1=-71(LC 6)

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

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

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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

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.

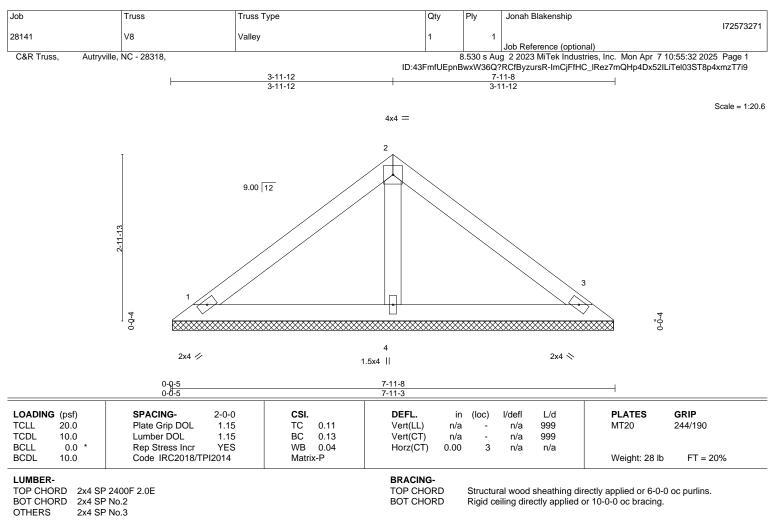
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REACTIONS. (size) 1=7-10-13, 3=7-10-13, 4=7-10-13 Max Horz 1=45(LC 7) Max Uplift 1=-14(LC 8), 3=-14(LC 8) Max Grav 1=162(LC 1), 3=162(LC 1), 4=242(LC 1)

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

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.

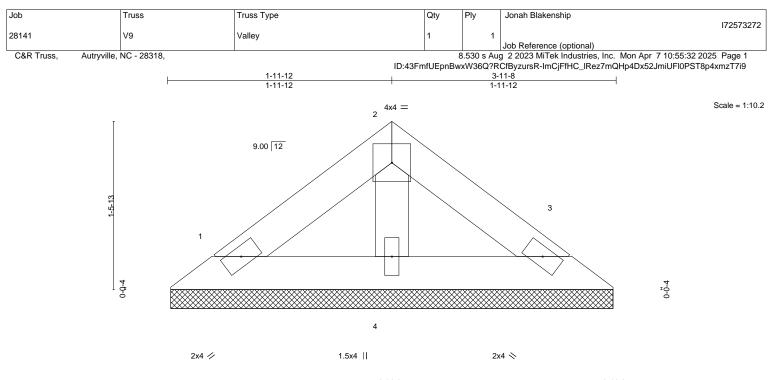
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SEAL 28677

April 8,2025

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A MiTek Affili 818 Soundside Road



| | | 1 | 3-11-3 3-11-3 | | | | | <u>3-11</u> -8 0-0-5 | | | |
|---------------|-----------------|--------|------------------|------|----------|------|-------|-------------------------|-----|---------------|----------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | тс | 0.02 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| 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 | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/T | PI2014 | Matri | ĸ-P | | | | | | Weight: 13 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

TOP CHORD

OTHERS 2x4 SP No.3

REACTIONS. 1=3-10-13, 3=3-10-13, 4=3-10-13 (size) Max Horz 1=-20(LC 6) Max Uplift 1=-6(LC 8), 3=-6(LC 8) Max Grav 1=71(LC 1), 3=71(LC 1), 4=105(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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 3-11-8 oc purlins.

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

April 8,2025

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 PCB Building Component Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road

HOW THE SEA THURSDAY TO THE TANK SEAL 28677 GA

