

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: 28169-28169A  
7 Wildwood RG14-A01 Stanton

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I47529503 thru I47529526

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



August 19, 2021

Johnson, Andrew

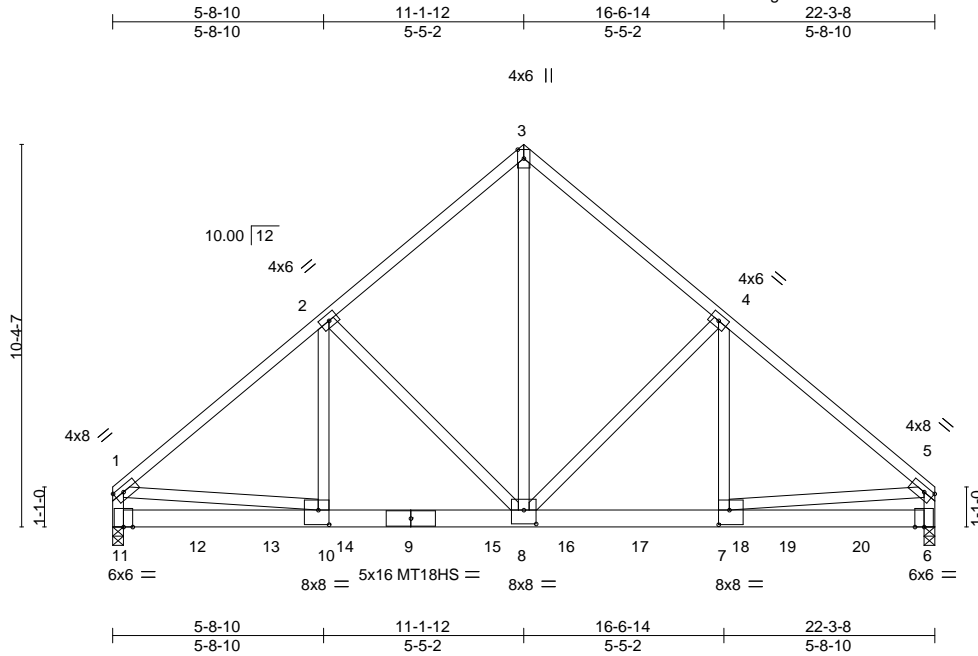
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes),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

Job 28169-28169A	Truss G1	Truss Type COMMON GIRDER	Qty 1	Ply 2	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529503
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:39 2021 Page 1  
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-OXL3vGEHbsrKkFDiOOmvtSXRdaRGlqDJloydgpymJdA



Scale = 1:62.5

Plate Offsets (X,Y)-- [1:0-3-0,0-1-12], [5:0-3-0,0-1-12], [7:0-3-8,0-4-12], [8:0-4-0,0-4-8], [10:0-3-8,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	-0.11 7-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.21 7-8	>999	180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.87	Horz(CT)	0.03 6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 328 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP DSS  
 WEBS 2x4 SP No.3 \*Except\*  
 3-8,1-11,5-6: 2x4 SP No.2

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

**REACTIONS.** (size) 11=0-3-8, 6=0-3-8  
 Max Horz 11=-255(LC 4)  
 Max Uplift 11=-586(LC 8), 6=-476(LC 9)  
 Max Grav 11=6170(LC 1), 6=6545(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-7135/699, 2-3=-5175/577, 3-4=-5175/577, 4-5=-7403/587, 1-11=-5288/526,  
 5-6=-5463/445  
 BOT CHORD 10-11=-332/1122, 8-10=-564/5396, 7-8=-372/5614, 6-7=-135/1102  
 WEBS 3-8=-603/6168, 4-8=-2501/311, 4-7=-91/2985, 2-8=-2144/432, 2-10=-249/2460,  
 1-10=-350/4430, 5-7=-290/4557

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 11, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 586 lb uplift at joint 11 and 476 lb uplift at joint 6.



August 19, 2021

Continued on page 2

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



818 Soundside Road  
 Edenton, NC 27932

Job 28169-28169A	Truss G1	Truss Type COMMON GIRDER	Qty 1	Ply <b>2</b>	7 Wildwood RG14-A01 Stanton I47529503 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:39 2021 Page 2  
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-OXL3vGEHbsrKkfdiOOmvtSXRdaRGIqDJloydgpymJdA

**NOTES-**

- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1087 lb down and 123 lb up at 2-2-12, 1045 lb down and 124 lb up at 4-2-12, 1045 lb down and 124 lb up at 6-2-12, 1045 lb down and 124 lb up at 8-2-12, 1045 lb down and 124 lb up at 10-2-12, 1215 lb down and 73 lb up at 12-2-12, 1215 lb down and 73 lb up at 14-2-12, 1215 lb down and 73 lb up at 16-2-12, and 1215 lb down and 73 lb up at 18-2-12, and 1215 lb down and 73 lb up at 20-2-12 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=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 9=-1045(B) 12=-1038(B) 13=-1045(B) 14=-1045(B) 15=-1045(B) 16=-1122(B) 17=-1122(B) 18=-1122(B) 19=-1122(B) 20=-1122(B)

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

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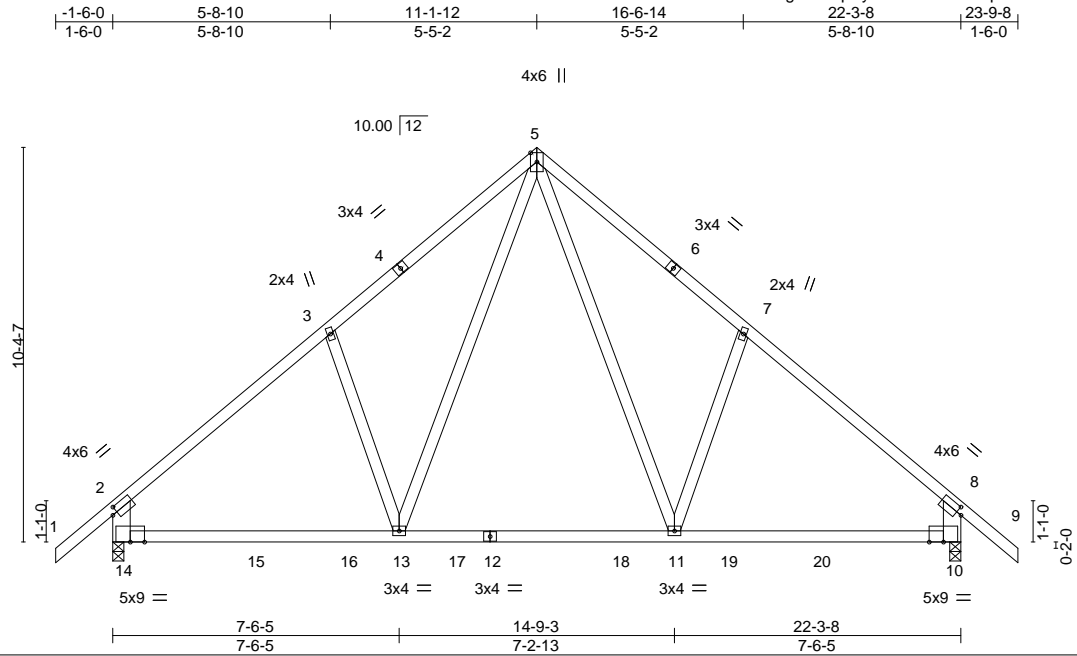
Job 28169-28169A	Truss T1	Truss Type Common	Qty 2	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529504
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:41 2021 Page 1

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Scale = 1:60.6

Plate Offsets (X,Y)--	[2:0-1-11,0-2-0], [8:0-1-11,0-2-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.91	Vert(LL) -0.21 11-13 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.62	Vert(CT) -0.36 11-13 >727 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.02 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 134 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-14,8-10: 2x6 SP No.2	

<b>REACTIONS.</b>	(size) 14=0-3-8, 10=0-3-8
	Max Horz 14=-295(LC 10)
	Max Uplift 14=-114(LC 12), 10=-114(LC 13)
	Max Grav 14=1021(LC 19), 10=1021(LC 20)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1054/199, 3-5=-945/328, 5-7=-945/328, 7-8=-1054/199, 2-14=-911/252, 8-10=-911/252
BOT CHORD	13-14=-104/860, 11-13=0/612, 10-11=0/738
WEBS	5-11=-183/504, 7-11=-285/273, 5-13=-183/504, 3-13=-285/273

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 14 and 114 lb uplift at joint 10.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19,2021

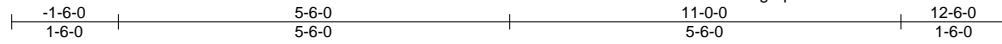
Job 28169-28169A	Truss T1E	Truss Type Common Supported Gable	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton 147529505
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84 Components (Dunn),

Dunn, NC - 28334,

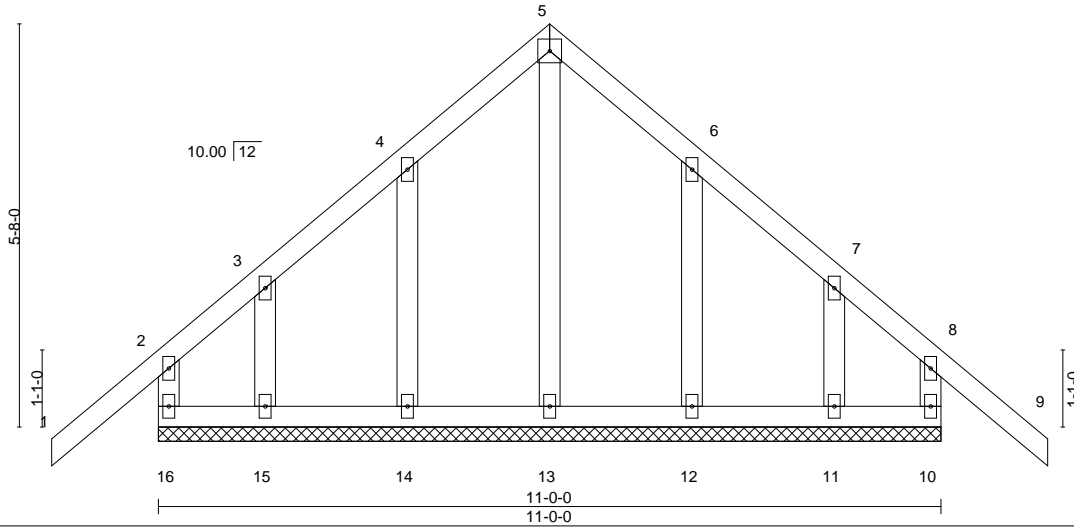
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:42 2021 Page 1

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4x4 =

Scale = 1:32.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	-0.01	9	n/r	120	MT20	244/190
BCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.02	9	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 69 lb	FT = 20%

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

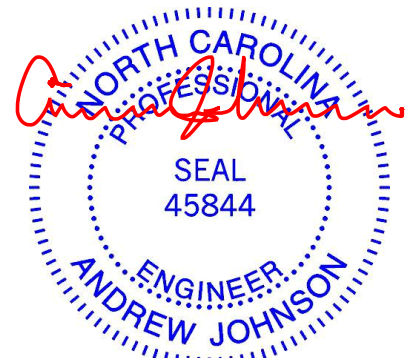
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings 11-0-0.  
(lb) - Max Horz 16=176(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 16, 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 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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



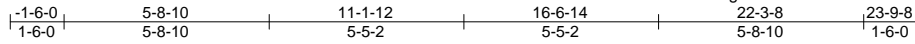
818 Soundside Road  
Edenton, NC 27932

Job 28169-28169A	Truss T1SE	Truss Type GABLE	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton 147529506
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84 Components (Dunn), Dunn, NC - 28334,

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Scale: 3/16"=1'

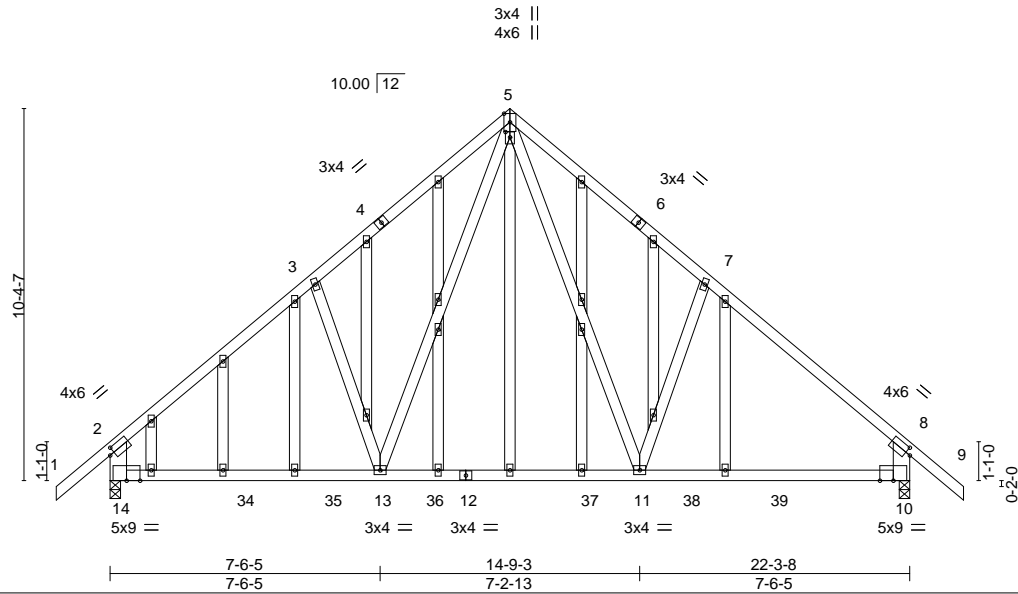


Plate Offsets (X,Y)--	[2:0-1-11,0-2-0], [5:0-1-12,0-1-8], [8:0-1-11,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.62	Vert(LL) -0.21 11-13 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.40	Vert(CT) -0.36 11-13 >727 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 209 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	
OTHERS 2-14,8-10: 2x6 SP No.2	
2x4 SP No.3	

**REACTIONS.** (size) 14=0-3-8, 10=0-3-8  
 Max Horz 14=-295(LC 10)  
 Max Uplift 14=-114(LC 12), 10=-114(LC 13)  
 Max Grav 14=1021(LC 19), 10=1021(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1054/199, 3-5=-945/328, 5-7=-945/328, 7-8=-1054/199, 2-14=-911/252, 8-10=-911/252  
 BOT CHORD 13-14=-104/860, 11-13=0/612, 10-11=0/738  
 WEBS 5-11=-183/504, 7-11=-285/273, 5-13=-183/504, 3-13=-285/273

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=114, 10=114.
  - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job 28169-28169A	Truss T2	Truss Type ROOF TRUSS	Qty 5	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529507
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:44 2021 Page 1

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4x6 ||

Scale = 1:66.3

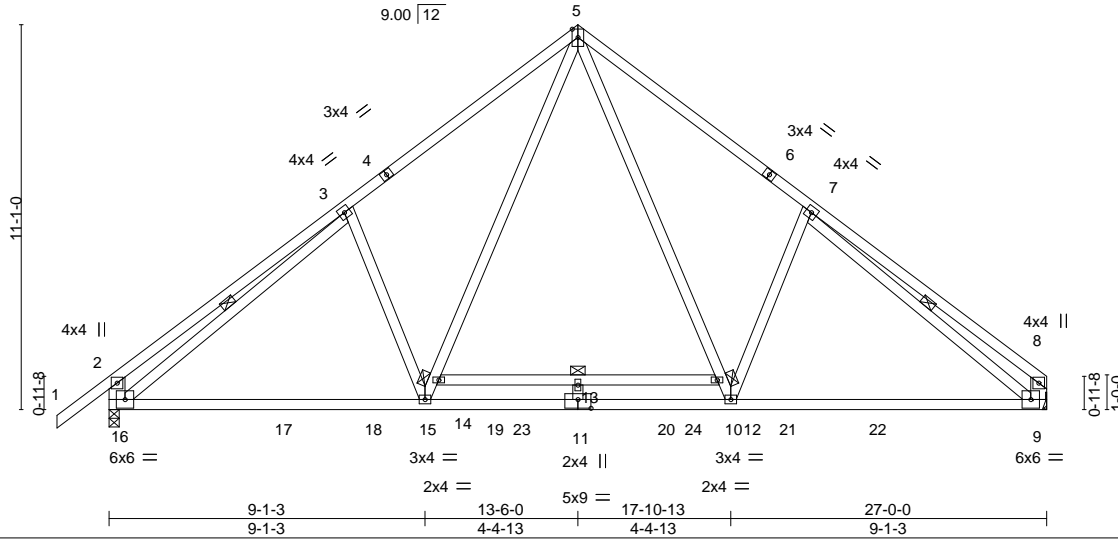


Plate Offsets (X,Y)-- [11:0-4-8,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.55	Vert(LL) -0.29 13 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.79	Vert(CT) -0.47 13 >678 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.04 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 185 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 *Except* 12-14: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.3 *Except* 2-16,8-9: 2x6 SP No.2	WEBS 6-0-0 oc bracing: 12-14 1 Row at midpt 3-16, 7-9

**REACTIONS.** (size) 16=0-3-8, 9=Mechanical  
 Max Horz 16=296(LC 9)  
 Max Uplift 16=-91(LC 12), 9=-53(LC 13)  
 Max Grav 16=1375(LC 20), 9=1272(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-567/245, 3-5=-1527/293, 5-7=-1539/296, 7-8=-472/190, 2-16=-546/247,  
 8-9=-406/166  
 BOT CHORD 15-16=-110/1357, 11-15=0/1000, 10-11=0/1000, 9-10=-59/1217  
 WEBS 5-12=-134/843, 10-12=-166/720, 7-10=-345/312, 14-15=-161/705, 5-14=-128/827,  
 3-15=-338/305, 3-16=-1264/0, 7-9=-1300/10

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 9.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



August 19, 2021

Job 28169-28169A	Truss T2A	Truss Type Common	Qty 3	Ply 1	7 Wildwood RG14-A01 Stanton 147529508
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84 Components (Dunn),

Dunn, NC - 28334,

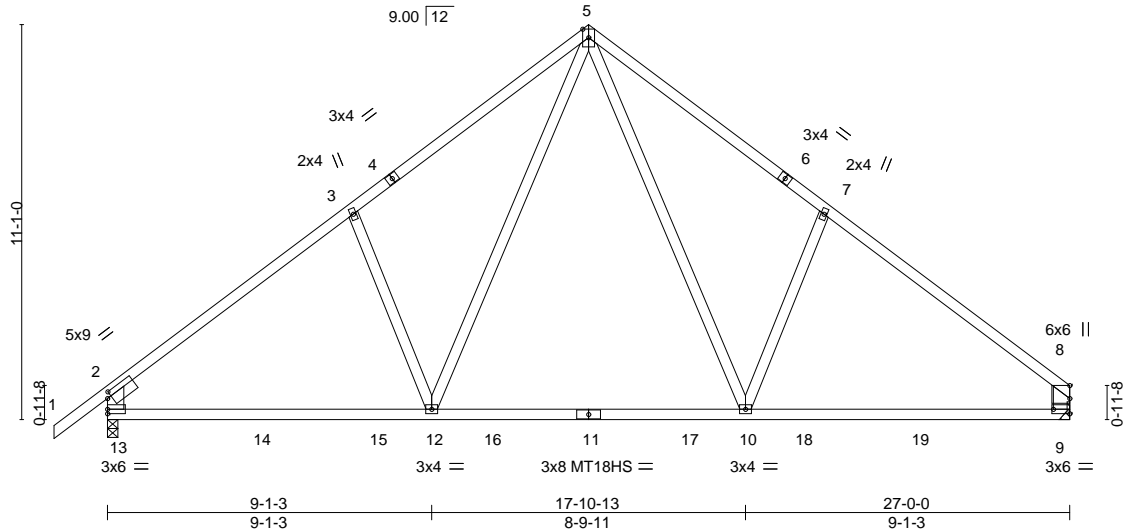
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:45 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-DhjK9KJ1AicU2agslftJ77nSI?Mo9eUB7kPxtTymJd4



4x6 ||

Scale = 1:64.6



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.87	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.98	Vert(LL) -0.39 10-12 >826 240	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Vert(CT) -0.64 10-12 >501 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) 0.04 9 n/a n/a		
				Weight: 148 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
BOT CHORD 2x4 SP No.2	
WEBS 2x4 SP No.3 *Except* 2-13,8-9: 2x6 SP No.2	

**REACTIONS.** (size) 13=0-3-8, 9=Mechanical  
 Max Horz 13=296(LC 11)  
 Max Uplift 13=141(LC 12), 9=103(LC 13)  
 Max Grav 13=1247(LC 19), 9=1144(LC 20)

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

TOP CHORD	2-3=-1402/256, 3-5=-1287/376, 5-7=-1290/374, 7-8=-1397/253, 2-13=-1122/291, 8-9=-1002/210
BOT CHORD	12-13=-170/1174, 10-12=0/808, 9-10=-114/1031
WEBS	5-10=-190/666, 7-10=-362/307, 5-12=-189/668, 3-12=-346/302

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=141, 9=103.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job 28169-28169A	Truss T2B	Truss Type Common	Qty 2	Ply 1	7 Wildwood RG14-A01 Stanton 147529509
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84 Components (Dunn),

Dunn, NC - 28334,

8,510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:46 2021 Page 1

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4x6 ||

Scale = 1:64.6

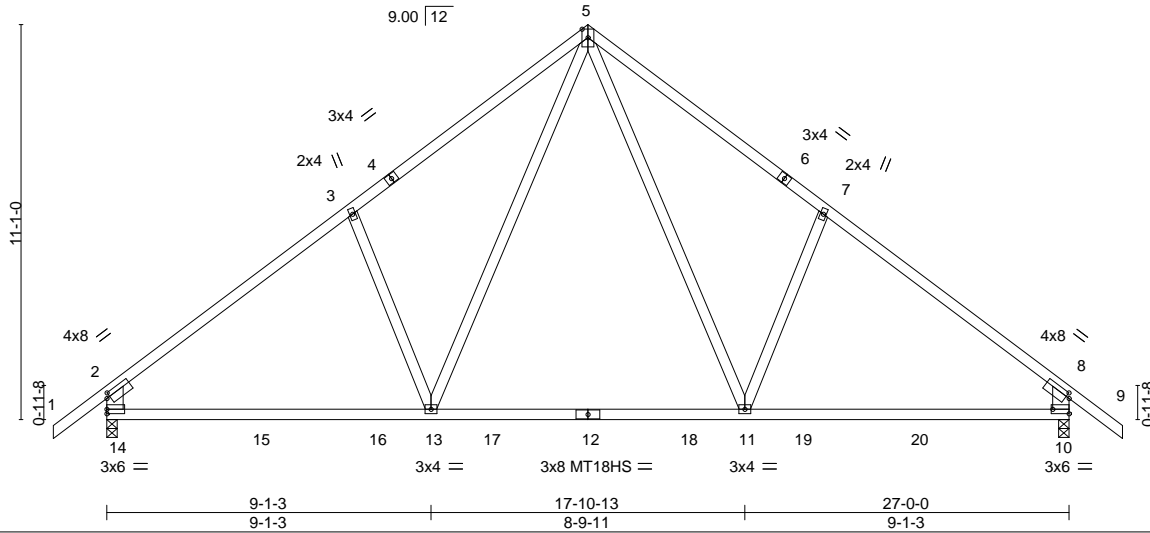


Plate Offsets (X,Y)-- [2:0-1-3,0-1-8], [8:0-1-3,0-1-8], [10:Edge,0-1-8]

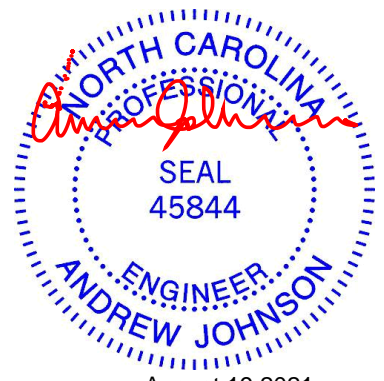
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.77	Vert(LL) -0.33 11-13 >956 240	MT18HS	244/190
BCLL 0.0 *	Lumber DOL 1.25	WB 0.49	Vert(CT) -0.54 11-13 >586 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 151 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4,6-9: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-14,8-10: 2x6 SP No.2	

**REACTIONS.** (size) 14=0-3-8, 10=0-3-8  
 Max Horz 14=-307(LC 10)  
 Max Uplift 14=-140(LC 12), 10=-140(LC 13)  
 Max Grav 14=1245(LC 19), 10=1245(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1397/253, 3-5=-1282/372, 5-7=-1282/372, 7-8=-1397/253, 2-14=-1118/290,  
 8-10=-1118/290  
 BOT CHORD 13-14=-148/1186, 11-13=0/822, 10-11=-33/1036  
 WEBS 5-11=-188/661, 7-11=-346/302, 5-13=-188/661, 3-13=-346/302

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=140, 10=140.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	7 Wildwood RG14-A01 Stanton	147529510
28169-28169A	T2E	Common Supported Gable	1	1		

84 Components (Dunn),

Dunn, NC - 28334,

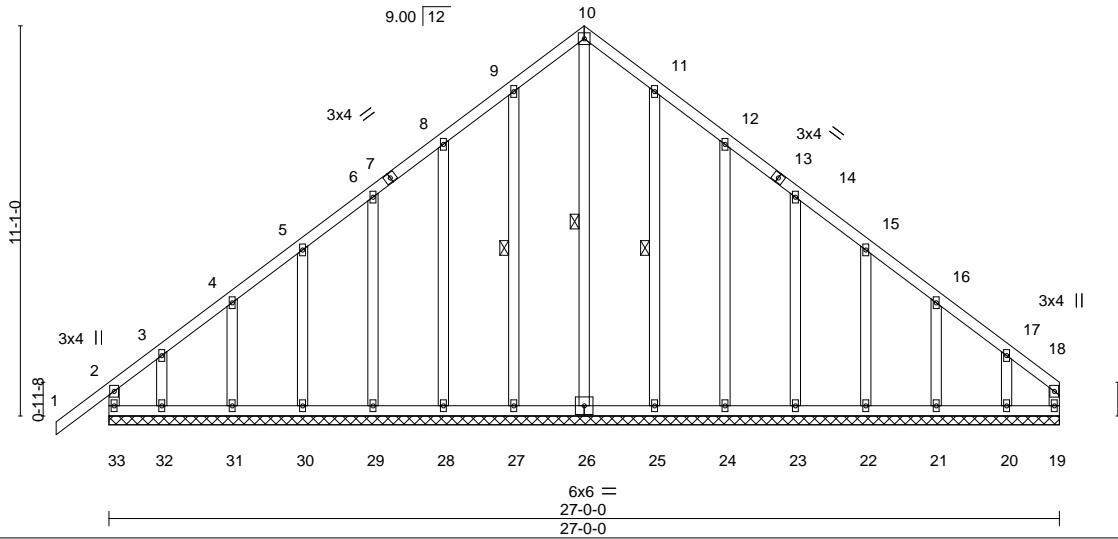
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:48 2021 Page 1

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4x4 =

Scale = 1:65.5



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	-0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.01	19	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 205 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 10-26, 9-27, 11-25
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 27-0-0.  
 (lb) - Max Horz 33=295(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 27, 28, 29, 30, 31, 25, 24, 23, 22, 21 except 33=161(LC 8), 19=116(LC 11), 32=169(LC 12), 20=171(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 19, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20 except 33=294(LC 20), 26=301(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 8-9=-228/255, 9-10=-278/315, 10-11=-278/315, 11-12=-228/255  
 WEBS 10-26=-307/211

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 28, 29, 30, 31, 25, 24, 23, 22, 21 except (jt=lb) 33=161, 19=116, 32=169, 20=171.
  - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021

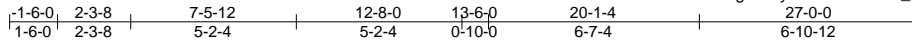
Job 28169-28169A	Truss T3	Truss Type Roof Special	Qty 4	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529511
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:49 2021 Page 1

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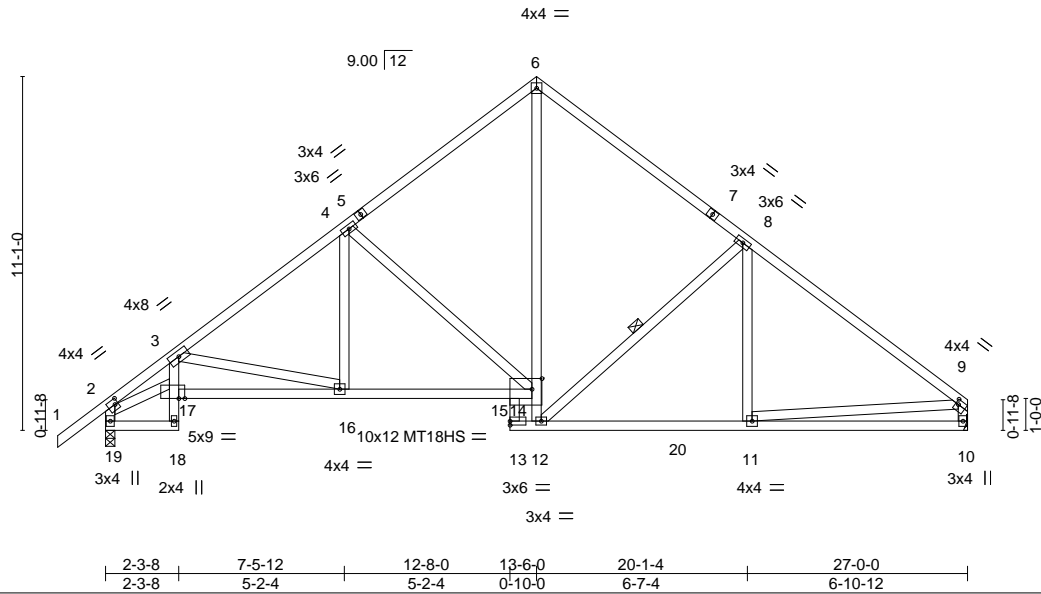


Plate Offsets (X,Y)--	[2:0-1-4,0-2-0], [9:0-1-0,0-1-12], [14:0-3-12,0-4-0], [17:0-2-4,0-0-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.56	Vert(LL) -0.16 15-16 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.95	Vert(CT) -0.33 15-16 >962 180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT) 0.22 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			
				Weight: 176 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 3-18: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-12: 2x4 SP No.2	WEBS 1 Row at midpt 8-12

**REACTIONS.** (size) 19=0-3-8, 10=Mechanical  
 Max Horz 19=295(LC 9)  
 Max Uplift 19=140(LC 12), 10=104(LC 13)  
 Max Grav 19=1170(LC 1), 10=1065(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2176/357, 3-4=-1506/275, 4-6=-1001/299, 6-8=-997/298, 8-9=-1330/242,  
 2-19=-1126/243, 9-10=-993/202  
 BOT CHORD 3-17=-71/505, 16-17=-473/2071, 15-16=-162/1239, 14-15=-173/675, 12-13=0/564,  
 11-12=-104/978, 10-11=-84/251  
 WEBS 3-16=-853/317, 4-16=0/392, 4-14=-644/241, 2-17=-329/1756, 9-11=-20/771,  
 12-14=-70/497, 6-14=-196/787, 8-12=-492/245

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=140, 10=104.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



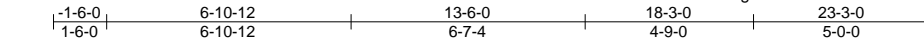
Job 28169-28169A	Truss T5	Truss Type Common	Qty 5	Ply 1	7 Wildwood RG14-A01 Stanton 147529512
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84 Components (Dunn),

Dunn, NC - 28334,

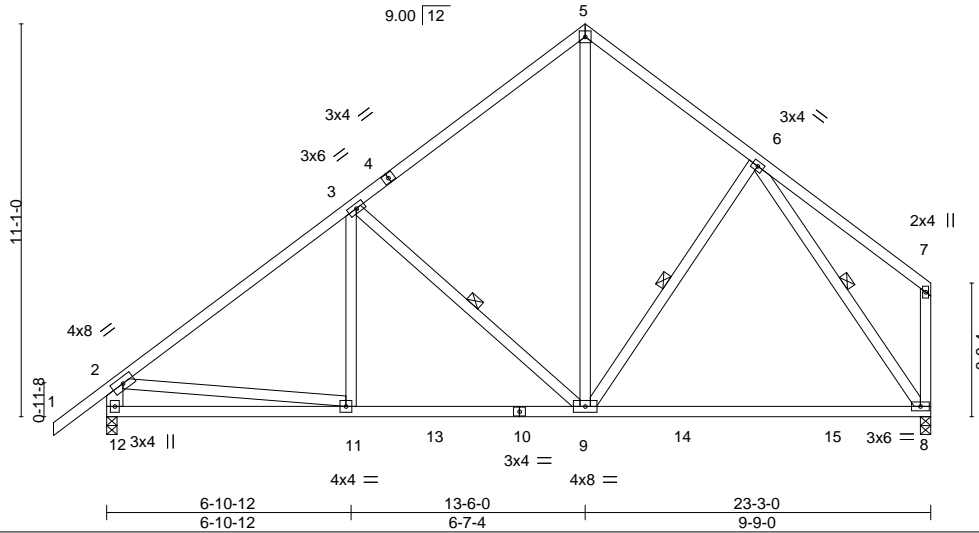
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:50 2021 Page 1

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4x4 =

Scale = 1:65.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.67	Vert(LL)	-0.33 8-9	>827	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.57 8-9	>483	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 158 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-12: 2x6 SP No.2	WEBS 1 Row at midpt 3-9, 6-9, 6-8

**REACTIONS.** (size) 12=0-3-8, 8=0-3-8  
 Max Horz 12=332(LC 9)  
 Max Uplift 12=-129(LC 12), 8=-82(LC 12)  
 Max Grav 12=1023(LC 1), 8=946(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1099/204, 3-5=-773/252, 5-6=-730/269, 2-12=-956/259  
 BOT CHORD 11-12=-327/435, 9-11=-213/947, 8-9=-127/523  
 WEBS 3-9=-466/241, 5-9=-164/554, 2-11=0/627, 6-8=-829/177

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 12=129.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

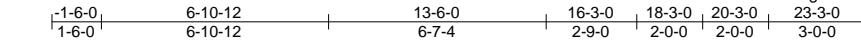


Job 28169-28169A	Truss T5A	Truss Type ROOF TRUSS	Qty 2	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529513
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:52 2021 Page 1

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Scale = 1:69.9

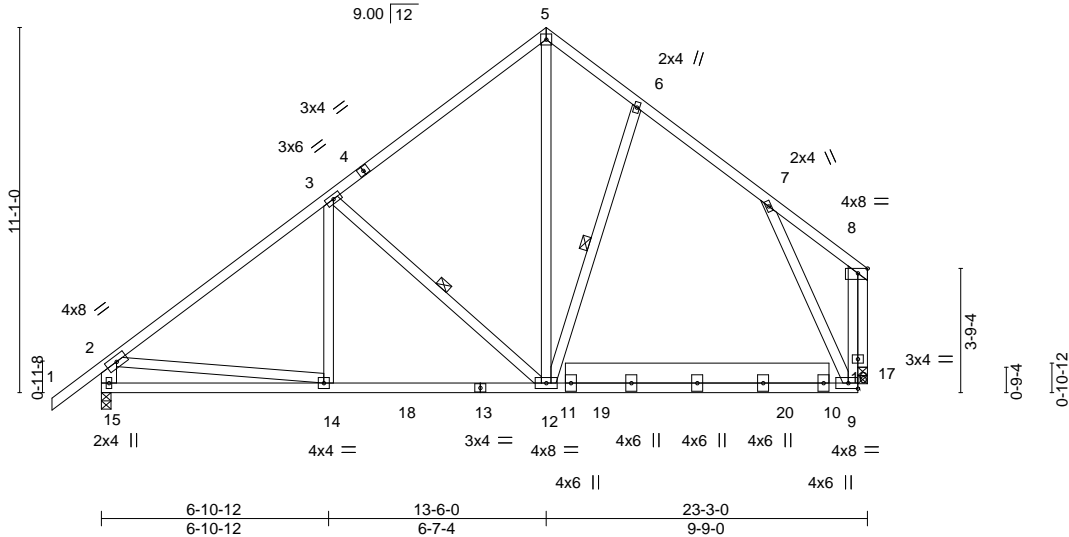


Plate Offsets (X,Y)-- [8:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 1.00	Vert(LL)	-0.10	12-14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.46	Vert(CT)	-0.23	12-14	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.69	Horz(CT)	0.04	17	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 184 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 10-11: 2x8 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 2-15: 2x6 SP No.2  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-12, 6-12

**REACTIONS.** (size) 15=0-3-8, 17=0-3-8  
 Max Horz 15=285(LC 9)  
 Max Uplift 15=123(LC 12), 17=88(LC 12)  
 Max Grav 15=1023(LC 1), 17=955(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1110/193, 3-5=-758/246, 5-6=-653/298, 6-7=-780/218, 2-15=-967/246,  
 9-16=-55/1042, 8-16=-55/1042  
 BOT CHORD 14-15=-332/401, 12-14=-203/949, 9-12=-71/501  
 WEBS 3-12=-501/232, 5-12=-218/500, 6-12=-90/270, 2-14=0/661, 7-9=-947/120,  
 8-17=-958/151

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 15=123.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



August 19, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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

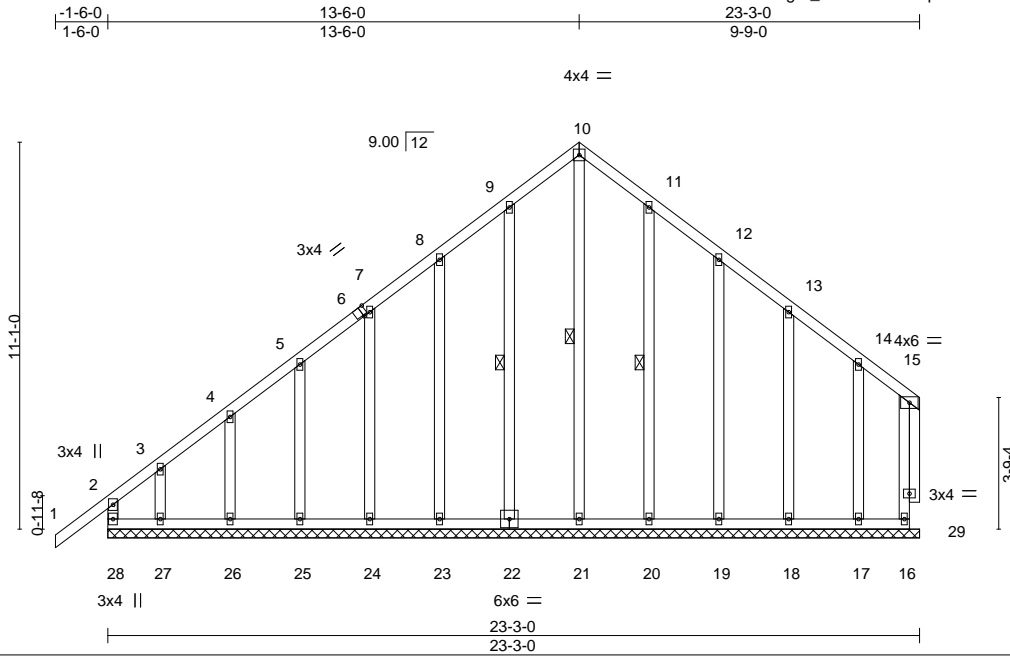


818 Soundside Road  
 Edenton, NC 27932

Job 28169-28169A	Truss T5E	Truss Type Common Supported Gable	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton 147529514
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:53 2021 Page 1  
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-\_EBLR3P3I9cL?pHPDK0BSp6yuDlglJOMzzLM8?ymJcy



Scale = 1:66.0

Plate Offsets (X,Y)--	[6:0-1-8,Edge]						
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.32	Vert(LL) -0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.15	Vert(CT) -0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.21	Horz(CT) -0.00	16	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					
						Weight: 194 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD 2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3		WEBS	1 Row at midpt 10-21, 9-22, 11-20
OTHERS 2x4 SP No.3			

**REACTIONS.** All bearings 23-3-0.  
 (lb) - Max Horz 28=333(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 16, 22, 23, 24, 25, 26, 20, 19, 18, 17 except 28=280(LC 8), 21=111(LC 11), 27=217(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 16, 22, 23, 24, 25, 26, 20, 19, 18, 17 except 28=396(LC 20), 21=302(LC 13), 27=254(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-28=-317/221, 2-3=-371/318, 3-4=-288/259, 4-5=-276/260, 5-7=-252/253, 8-9=-260/297, 9-10=-309/355, 10-11=-309/355, 11-12=-260/297  
 WEBS 10-21=-354/246

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 22, 23, 24, 25, 26, 20, 19, 18, 17 except (jt=lb) 28=280, 21=111, 27=217.
  - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



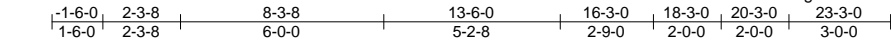
Job 28169-28169A	Truss T6	Truss Type ROOF TRUSS	Qty 3	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529515
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:55 2021 Page 1

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6x6 =

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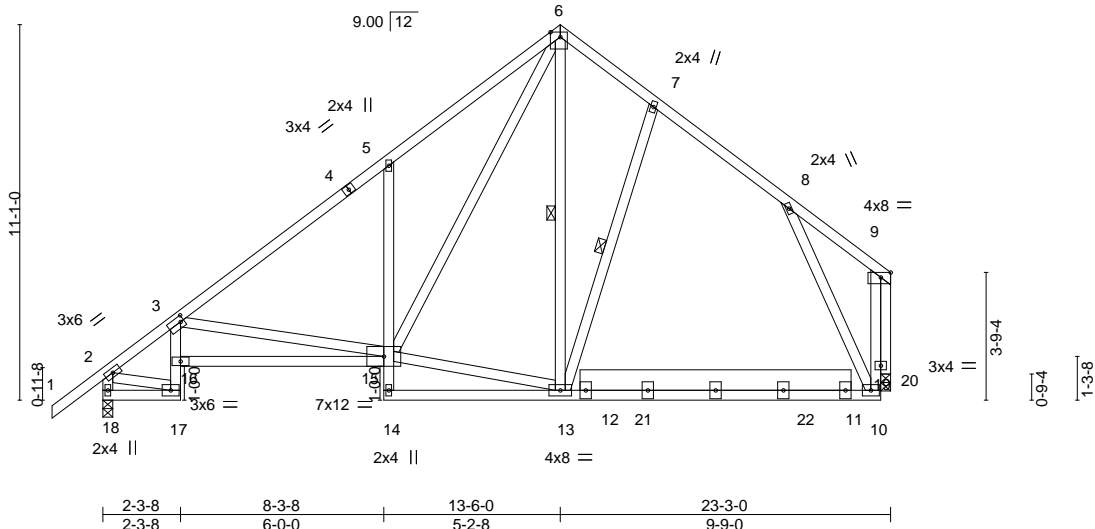


Plate Offsets (X, Y)--	[3:0-1-4,0-2-0], [6:0-3-8,Edge], [9:0-3-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.98	Vert(LL)	-0.11	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.26	15-16	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.15	20	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 201 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 3-17: 2x4 SP No.1, 5-14: 2x4 SP No.3, 11-12: 2x8 SP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 6-13, 7-13

**REACTIONS.** (size) 18=0-3-8, 20=0-3-8  
 Max Horz 18=284(LC 9)  
 Max Uplift 18=-122(LC 12), 20=-89(LC 12)  
 Max Grav 18=1020(LC 1), 20=935(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1010/181, 3-5=-1169/239, 5-6=-1162/437, 6-7=-660/304, 7-8=-755/219,  
 2-18=-1080/240, 10-19=-56/1016, 9-19=-56/1016  
 BOT CHORD 15-16=-523/1626, 5-15=-402/297, 10-13=-72/486  
 WEBS 3-15=-679/337, 13-15=-9/521, 6-15=-342/850, 7-13=-90/275, 2-17=-127/771,  
 8-10=-915/123, 9-20=-938/151

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 4x6 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb) 18=122.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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

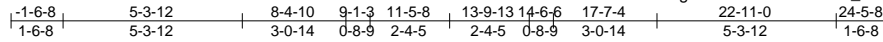
**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job 28169-28169A	Truss T7	Truss Type ATTIC	Qty 11	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529516
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:56 2021 Page 1

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6x6 =

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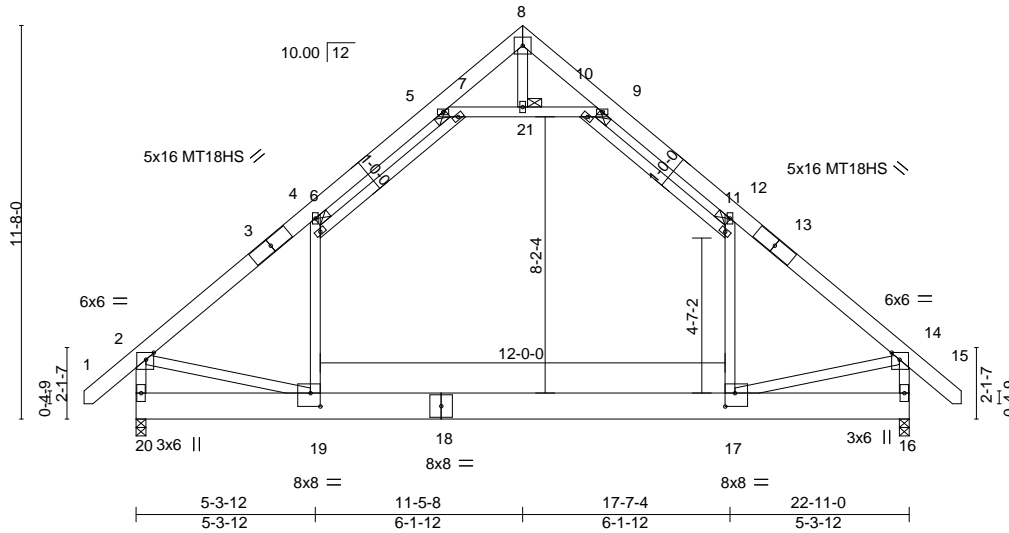


Plate Offsets (X,Y)-- [2:0-2-12,0-2-8], [14:0-2-12,0-2-8], [17:0-3-8,0-4-12], [19:0-3-8,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 1.00	Vert(LL) -0.32 17-19 >840 240	MT18HS	244/190
BCLL 0.0 *	Lumber DOL 1.25	WB 0.46	Vert(CT) -0.51 17-19 >536 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 16 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.18 17-19 825 360	Weight: 231 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 6-7,10-11: 2x4 SP No.2, 1-3,13-15: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS 2x4 SP No.3 *Except* 12-17,4-19,5-9: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 21, 6, 7, 10, 11

**REACTIONS.** (size) 20=0-3-8, 16=0-3-8  
 Max Horz 20=322(LC 11)  
 Max Grav 20=1445(LC 20), 16=1445(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1538/0, 4-5=-1135/164, 5-8=-30/271, 8-9=-30/271, 9-12=-1135/164,  
 12-14=-1537/0, 2-20=-1487/73, 14-16=-1487/73  
 BOT CHORD 19-20=-274/410, 17-19=0/1057  
 WEBS 11-17=0/679, 11-12=-24/592, 6-19=0/679, 4-6=-24/592, 5-7=-1466/206, 7-21=-1314/199,  
 10-21=-1314/199, 9-10=-1467/206, 2-19=0/943, 14-17=0/945

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-12, 5-7, 7-21, 10-21, 9-10; Wall dead load (5.0psf) on member(s).11-17, 11-12, 6-19, 4-6
  - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-19
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 11) Attic room checked for L/360 deflection.



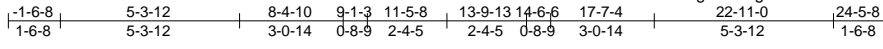


Job 28169-28169A	Truss T7E	Truss Type GABLE	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton 147529517
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:57 2021 Page 1

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6x6 =

Scale = 1:68.3

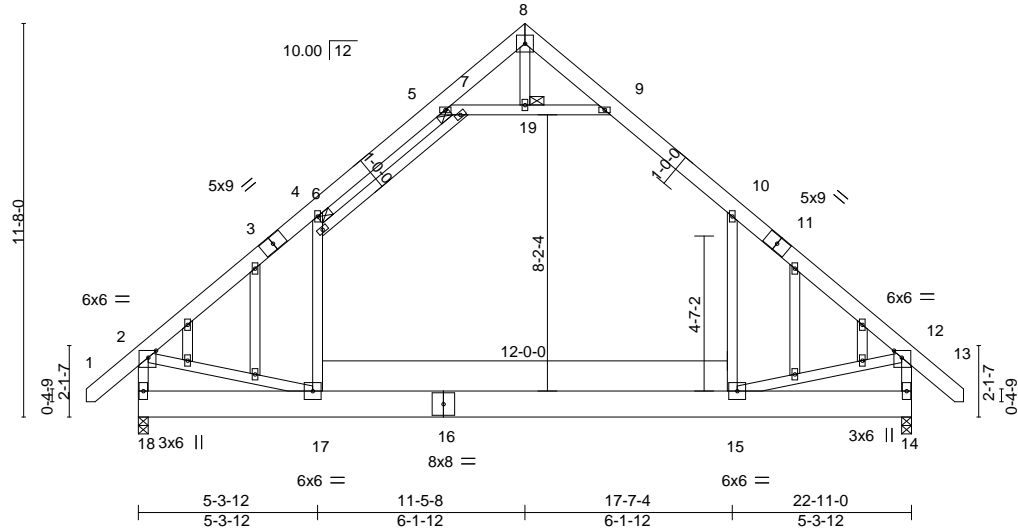


Plate Offsets (X,Y)--	[2:0-2-12,0-2-8], [12:0-2-12,0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.88	Vert(LL) -0.29 15-17 >923 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.42	Vert(CT) -0.46 15-17 >584 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 14 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.15 15-17 966 360	Weight: 236 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 6-7: 2x4 SP No.2, 1-3,11-13: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.2 *Except* 14-16: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 9-5-9 oc bracing.
WEBS 2x4 SP No.3 *Except* 10-15,4-17,5-9: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 19, 6, 7
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 18=0-3-8, 14=0-3-8  
 Max Horz 18=322(LC 11)  
 Max Grav 18=1445(LC 20), 14=1445(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1520/1, 4-5=-1109/165, 5-8=-13/307, 8-9=-25/317, 9-10=-999/156, 10-12=-1513/9,  
 2-18=-1471/74, 12-14=-1463/73  
 BOT CHORD 17-18=-273/410, 15-17=0/1047  
 WEBS 10-15=-16/648, 6-17=-2/672, 4-6=-28/598, 5-7=-1457/209, 7-19=-1340/201,  
 9-19=-1341/202, 2-17=0/927, 12-15=0/919

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-7, 7-19, 9-19; Wall dead load (5.0psf) on member(s).10-15, 6-17, 4-6
  - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17
  - 10) This truss is designed in accordance with the 2015 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.
  - 12) Attic room checked for L/360 deflection.



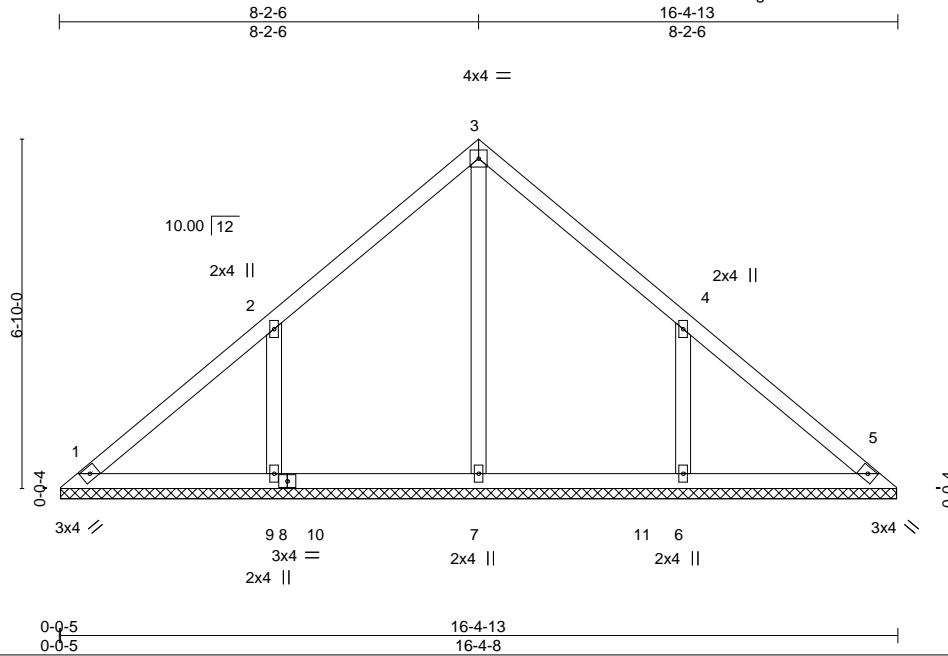
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before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

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job 28169-28169A	Truss V1	Truss Type Valley	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529518
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:58 2021 Page 1  
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Scale = 1:45.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 73 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

**REACTIONS.** All bearings 16-4-3.  
(lb) - Max Horz 1=161(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=197(LC 12), 6=197(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=360(LC 22), 9=439(LC 19), 6=439(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-9=-322/241, 4-6=-322/241

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=197, 6=197.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021

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

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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



818 Soundside Road  
Edenton, NC 27932

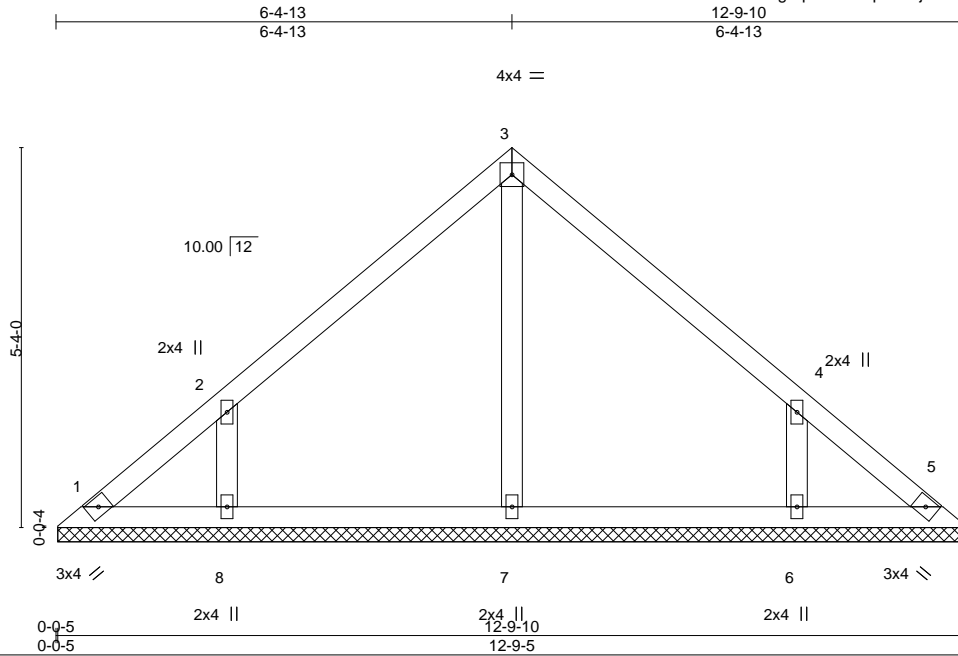
Job 28169-28169A	Truss V2	Truss Type Valley	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	I47529519
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:09:59 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-pNZc56Upt?NVjkiYZb7bh4M?6eMVR3UFLvohMfymJcs



Scale = 1:32.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 54 lb	FT = 20%

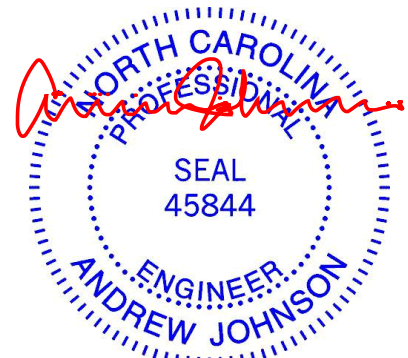
**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 12-9-0.  
 (lb) - Max Horz 1=124(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=164(LC 12), 6=163(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=326(LC 19), 6=326(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-272/205, 4-6=-272/205

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=164, 6=163.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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

ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

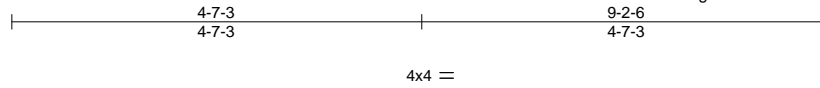
Job 28169-28169A	Truss V3	Truss Type Valley	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton 147529520
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84 Components (Dunn),

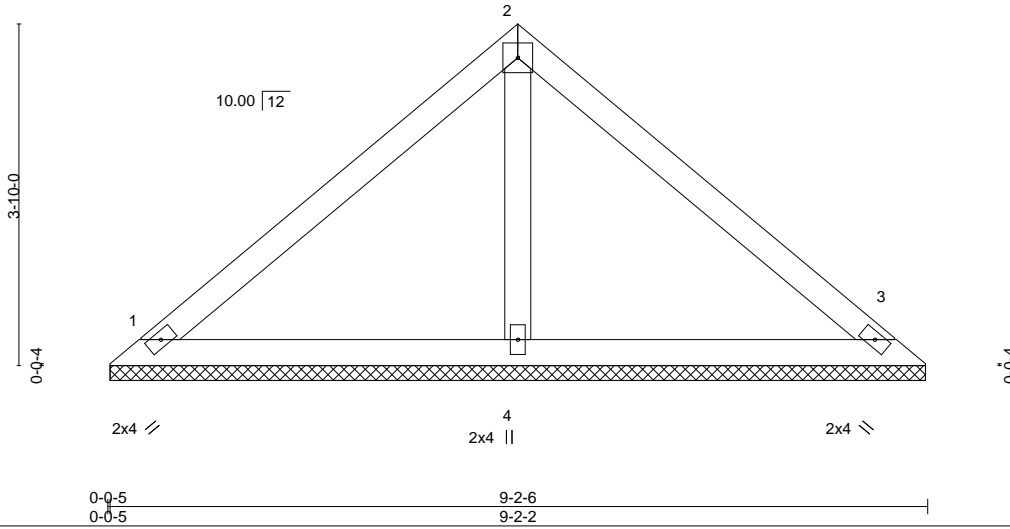
Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:10:00 2021 Page 1

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Scale = 1:25.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.30	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 35 lb	FT = 20%

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

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

**REACTIONS.** (size) 1=9-1-13, 3=9-1-13, 4=9-1-13  
 Max Horz 1=-87(LC 8)  
 Max Uplift 1=-29(LC 13), 3=-39(LC 13), 4=-7(LC 12)  
 Max Grav 1=176(LC 1), 3=176(LC 1), 4=320(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 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021

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

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818 Soundside Road  
 Edenton, NC 27932

Job 28169-28169A	Truss V4	Truss Type Valley	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton 147529521 Job Reference (optional)
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84 Components (Dunn),

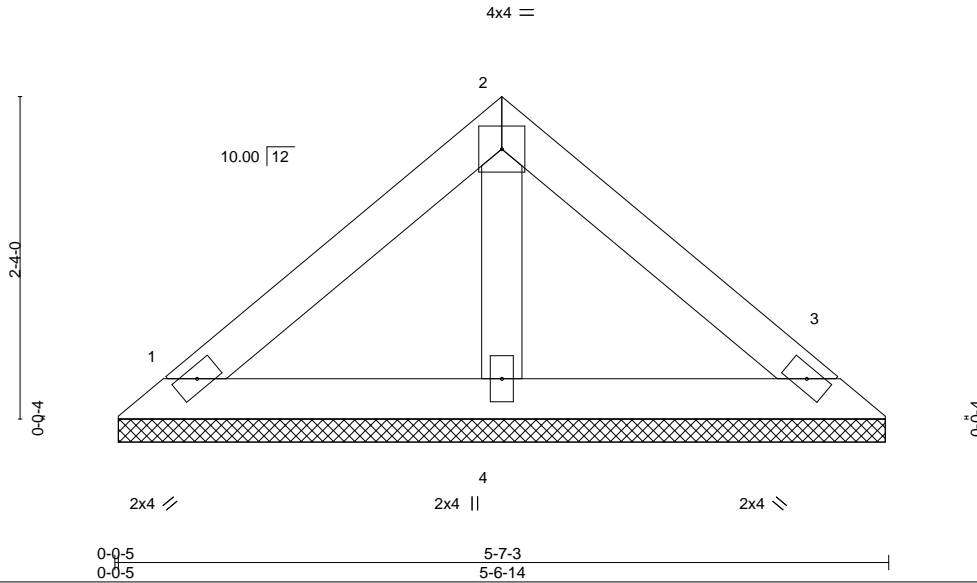
Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:10:01 2021 Page 1

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Scale = 1:16.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 20 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=5-6-10, 3=5-6-10, 4=5-6-10  
 Max Horz 1=49(LC 8)  
 Max Uplift 1=23(LC 13), 3=29(LC 13)  
 Max Grav 1=109(LC 1), 3=109(LC 1), 4=166(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 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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

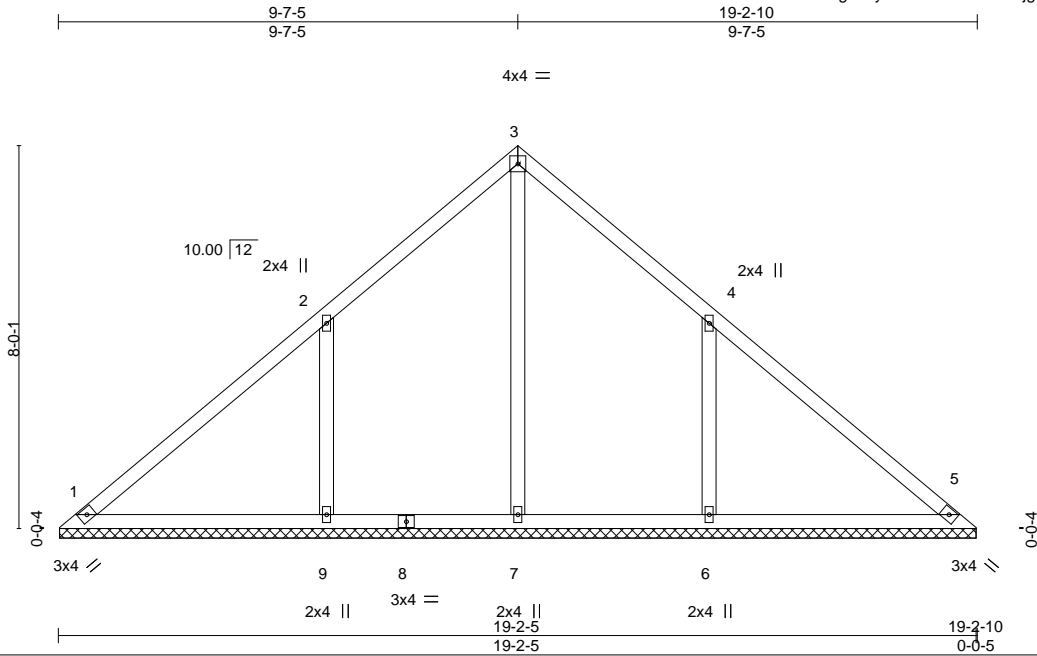


818 Soundside Road  
 Edenton, NC 27932

Job 28169-28169A	Truss V5	Truss Type Valley	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529522
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:10:02 2021 Page 1  
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Scale: 1/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.22	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.18	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 87 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

**REACTIONS.** All bearings 19-2-0.  
(lb) - Max Horz 1=190(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=239(LC 12), 6=239(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=355(LC 22), 9=554(LC 19), 6=553(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-9=-391/290, 4-6=-391/290

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=239, 6=239.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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



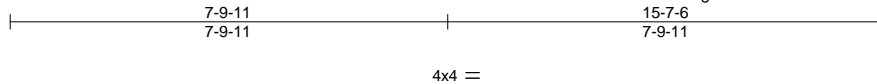
818 Soundside Road  
Edenton, NC 27932

Job 28169-28169A	Truss V6	Truss Type Valley	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529523
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:10:03 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-h9o7xTXKxEtwCL2KoRCXswXgeFihNtwrGXmuVQymJco



Scale = 1:41.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 68 lb	FT = 20%

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

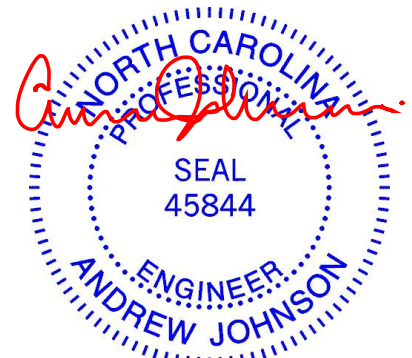
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 15-6-13.  
(lb) - Max Horz 1=-153(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-188(LC 12), 6=-187(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=353(LC 22), 8=408(LC 19), 6=408(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-307/230, 4-6=-307/230

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=188, 6=187.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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

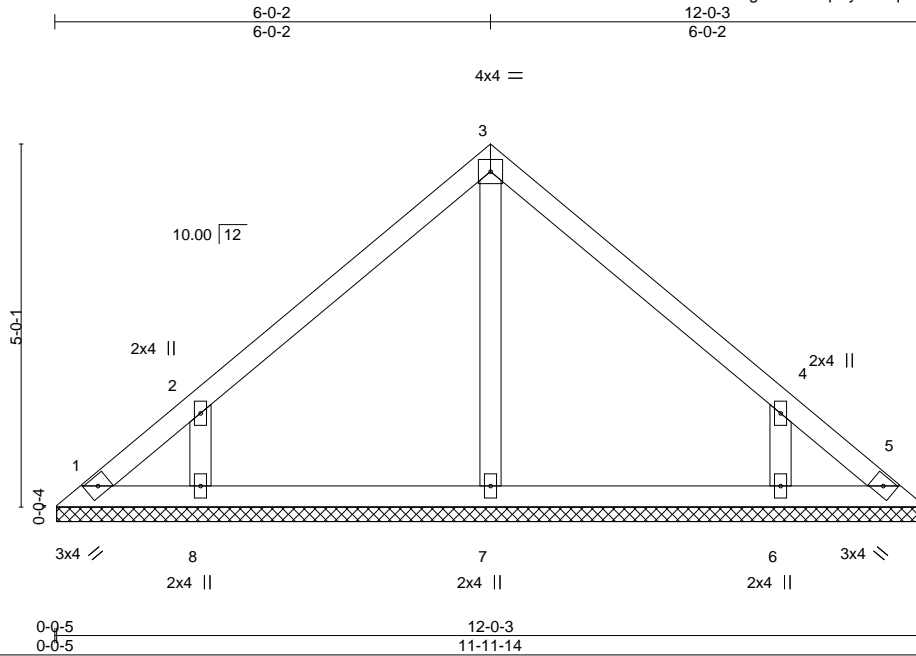


818 Soundside Road  
Edenton, NC 27932

Job 28169-28169A	Truss V7	Truss Type Valley	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton Job Reference (optional)	147529524
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:10:04 2021 Page 1  
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Scale: 3/8"=1'

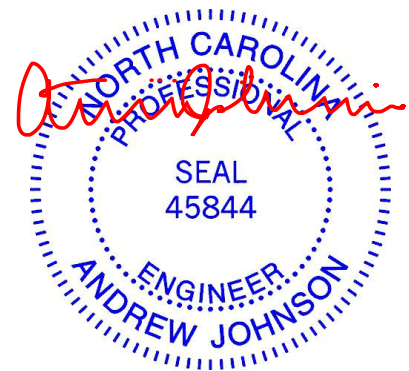
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.21	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 49 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 11-11-10.  
 (lb) - Max Horz 1=116(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=163(LC 12), 6=163(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=322(LC 19), 6=321(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-272/206, 4-6=-272/206

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=163, 6=163.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021



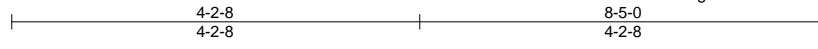
Job 28169-28169A	Truss V8	Truss Type Valley	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton 147529525
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84 Components (Dunn),

Dunn, NC - 28334,

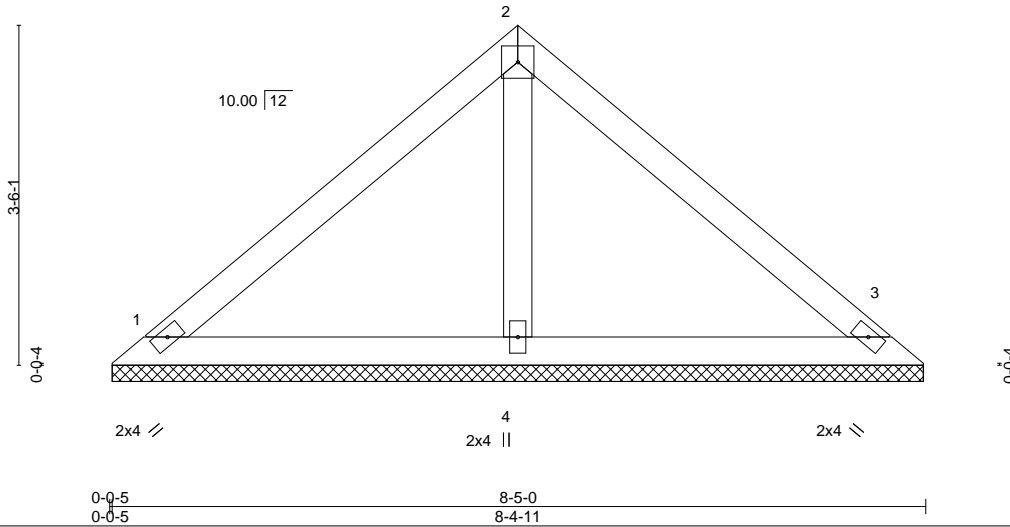
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:10:05 2021 Page 1

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4x4 =

Scale: 1/2"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.25	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 32 lb	FT = 20%
	Code IRC2015/TPI2014				

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

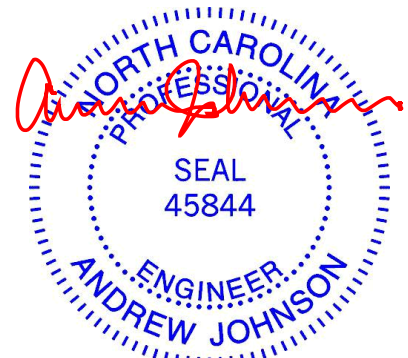
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=8-4-6, 3=8-4-6, 4=8-4-6  
 Max Horz 1=78(LC 11)  
 Max Uplift 1=-36(LC 13), 3=-46(LC 13)  
 Max Grav 1=173(LC 1), 3=173(LC 1), 4=263(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 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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

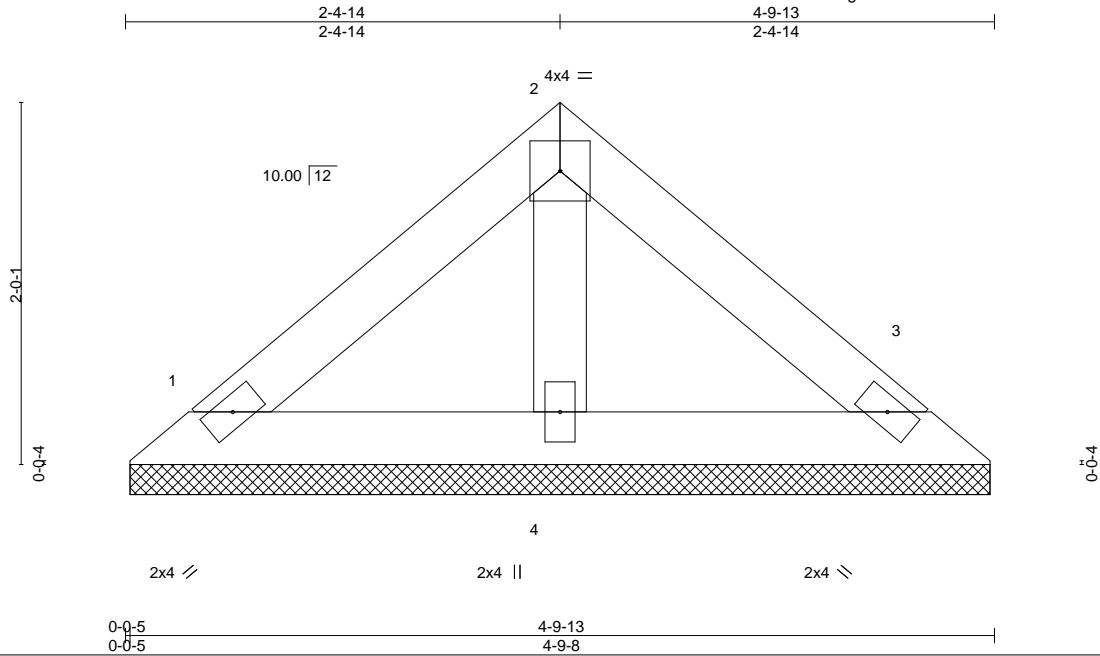


818 Soundside Road  
 Edenton, NC 27932

Job 28169-28169A	Truss V9	Truss Type Valley	Qty 1	Ply 1	7 Wildwood RG14-A01 Stanton I47529526
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 10:10:05 2021 Page 1  
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Scale = 1:12.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.07	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 17 lb	FT = 20%
	Code IRC2015/TPI2014							

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

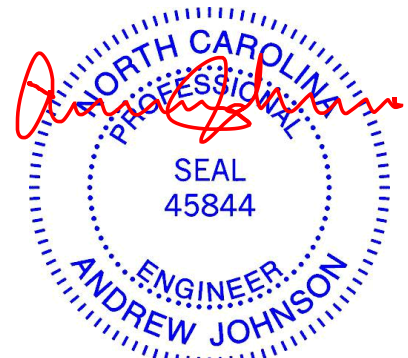
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=4-9-3, 3=4-9-3, 4=4-9-3  
 Max Horz 1=41(LC 11)  
 Max Uplift 1=19(LC 13), 3=24(LC 13)  
 Max Grav 1=91(LC 1), 3=91(LC 1), 4=139(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 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 19, 2021

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

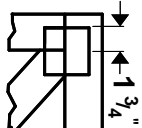
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



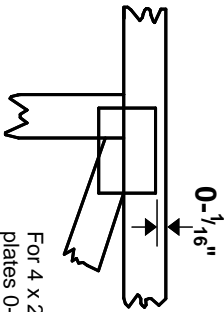
818 Soundside Road  
 Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

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

## PLATE SIZE

**4 X 4**

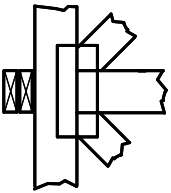
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



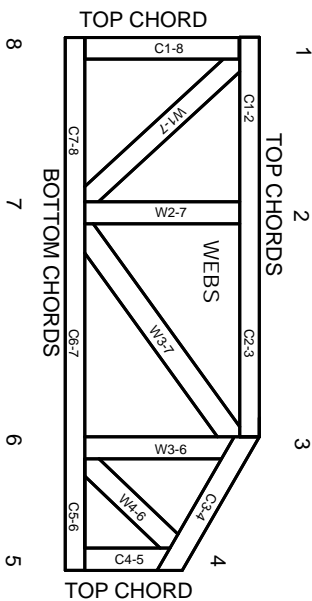
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8  
dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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



# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.