

Trenco
818 Soundside Rd
Edenton, NC 27932

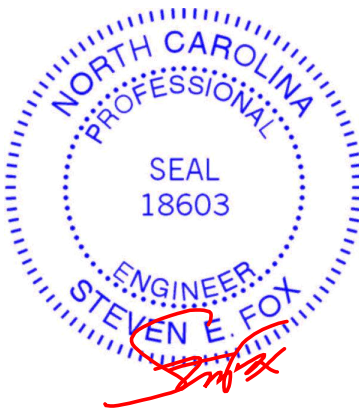
Re: 28170-28170A
Huntington A 1546

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: I47525137 thru I47525169

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

North Carolina COA: C-0844



August 19, 2021

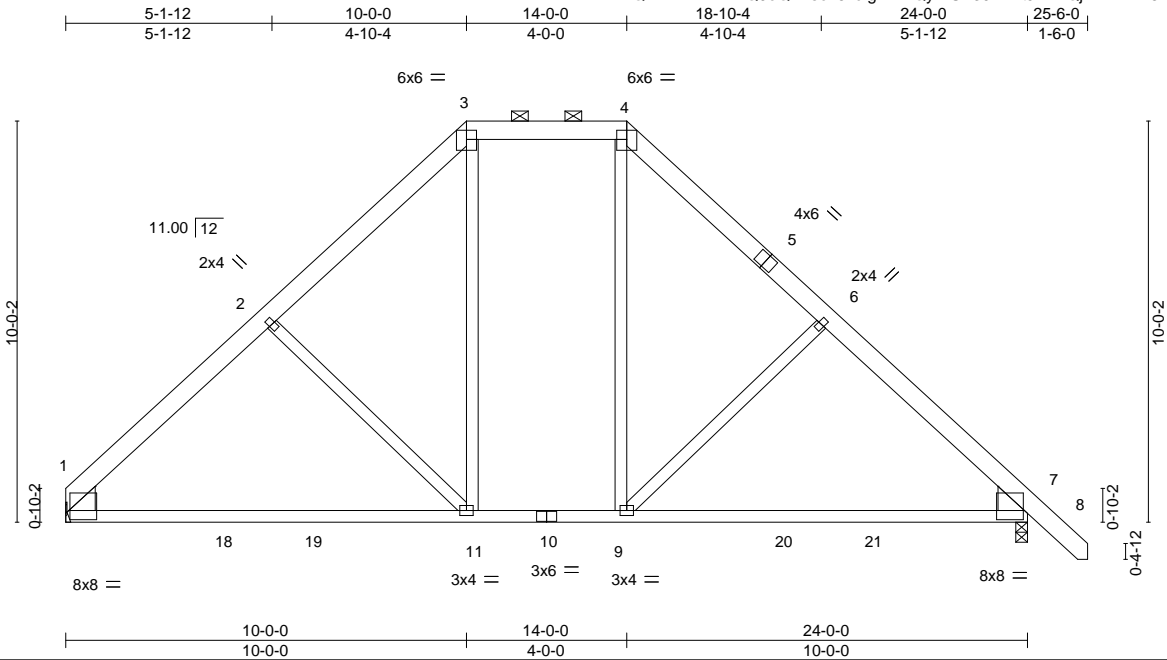
Fox, Steve

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 28170-28170A	Truss A	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Huntington A 1546	147525137
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84 Components, Dunn, NC 28334

8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Aug 19 08:42:30 2021 Page 1
 ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-4DQyDISV39E2ZtJnYPQjvwT?IkiA52BeLmnRdOymKut



Scale = 1:57.5

Plate Offsets (X,Y)-- [1:0-0-5,0-2-12], [3:0-3-0,0-2-12], [4:0-3-0,0-2-12], [7:0-0-5,0-2-12]

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 0.21	Vert(LL)	-0.17	9-17	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.25	BC 0.78	Vert(CT)	-0.34	11-14	>839		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 166 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x8 SP No.2 , Right: 2x8 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except 2'-0" oc purlins (6'-0" max.): 3-4.
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

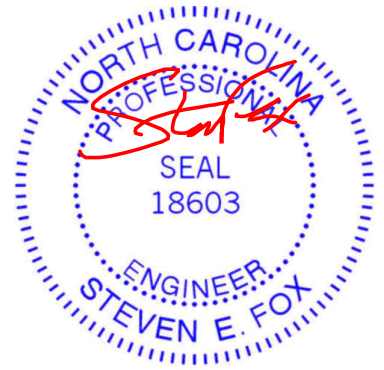
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=958/Mechanical, 7=1045/0-3-8 (min. 0-1-10)
 Max Horz 1=-249(LC 8)
 Max Uplift 1=-75(LC 12), 7=-106(LC 13)
 Max Grav 1=961(LC 2), 7=1045(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1097/251, 2-3=-940/280, 3-4=-636/270, 4-5=-847/278, 5-6=-937/249, 6-7=-1112/250
 BOT CHORD 1-18=-133/925, 18-19=-133/925, 11-19=-133/925, 10-11=-10/683, 9-10=-10/683, 9-20=-38/774, 20-21=-38/774, 7-21=-38/774
 WEBS 2-11=-345/259, 3-11=-73/417, 4-9=-69/409, 6-9=-339/253

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=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
 - 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.
 - * 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 75 lb uplift at joint 1 and 106 lb uplift at joint 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.
 - 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



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 28170-28170A	Truss A1	Truss Type PIGGYBACK BASE	Qty 6	Ply 1	Huntington A 1546	I47525138
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84 Components, Dunn, NC 28334

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-ZDZc7X46p7ogotHnbKMw0udt_iS_GWrlsNBTNymKu3
8.510 s Jun 1 2021 MiTek Industries, Inc. Thu Aug 19 08:43:22 2021 Page 1

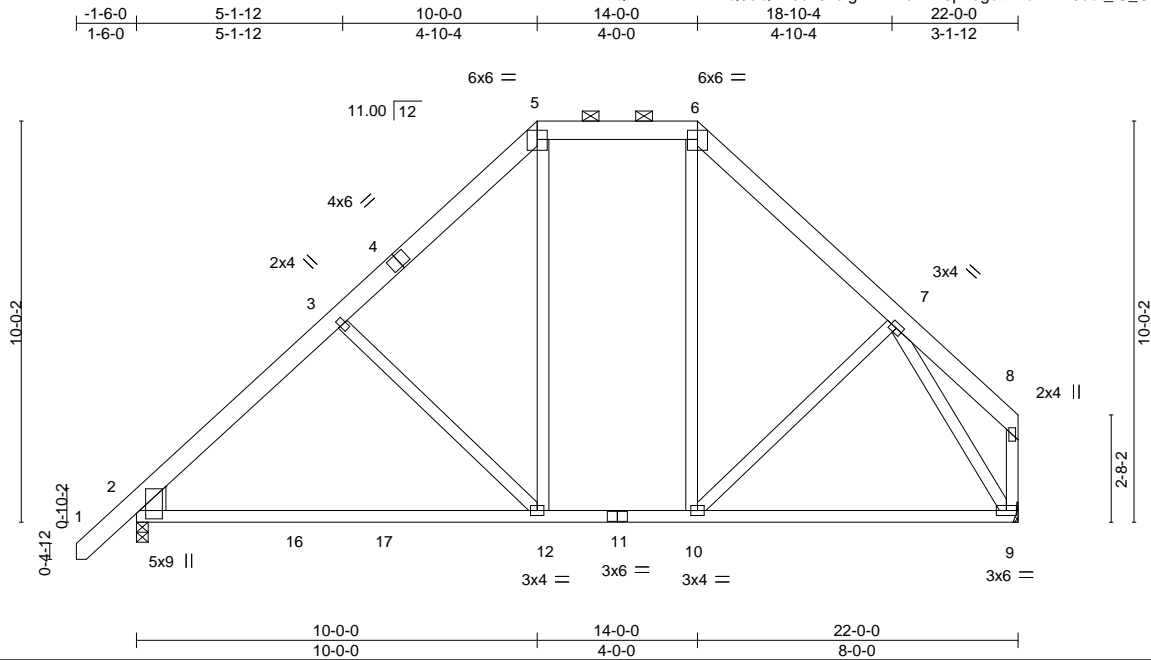


Plate Offsets (X,Y)--	[2:0-2-8,0-1-13], [5:0-3-0,0-2-12], [6:0-3-0,0-2-12]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.25	Vert(LL) -0.20 12-15 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.25	BC 0.80	Vert(CT) -0.41 12-15 >647 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			Weight: 166 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x8 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except 2'-0" oc purlins (6'-0" max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=959/0-3-8 (min. 0-1-8), 9=872/Mechanical
Max Horz 2=244(LC 9)
Max Uplift 2=-99(LC 12), 9=-54(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-972/223, 3-4=-799/222, 4-5=-680/252, 5-6=-542/247, 6-7=-754/244
BOT CHORD 2-16=-184/801, 16-17=-184/801, 12-17=-184/801, 11-12=-30/534, 10-11=-30/534,
9-10=-83/428
WEBS 3-12=-379/256, 5-12=-68/412, 7-9=-861/168

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=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) 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 where a rectangle 3'-6" tall by 2'-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 99 lb uplift at joint 2 and 54 lb uplift at joint 9.
 - 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.
 - 9) 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



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



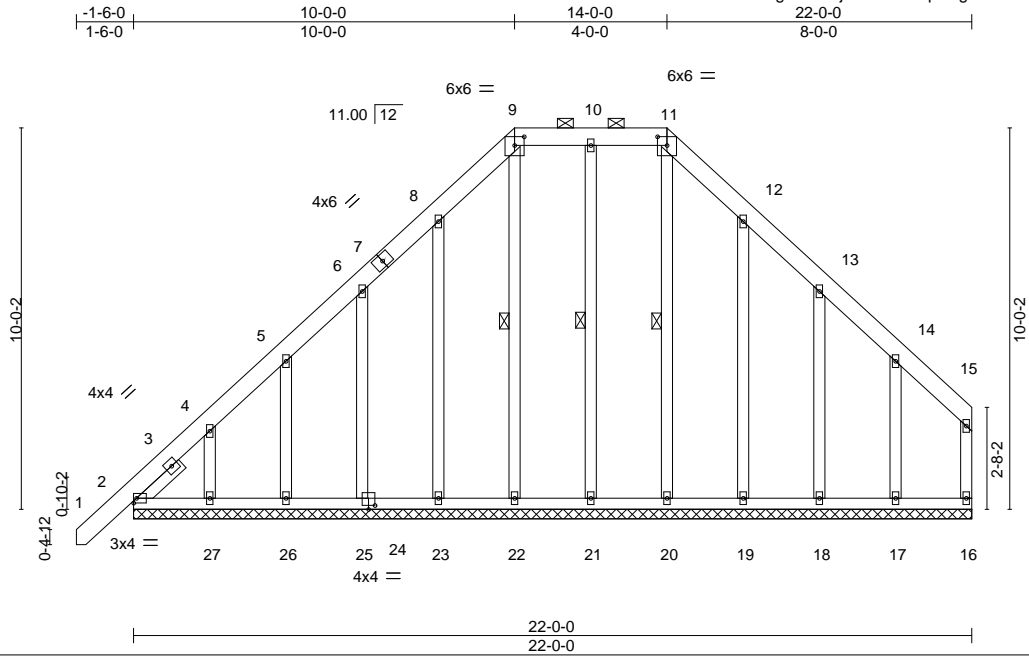
818 Soundside Road
Edenton, NC 27932

Job 28170-28170A	Truss A1E	Truss Type PIGGYBACK BASE SUPPO	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525139
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84 Components (Dunn), Dunn, NC - 28334,

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ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-e4DdjhDxXNecmpdNgf503au90a?P5ajHvPe_hymMKC



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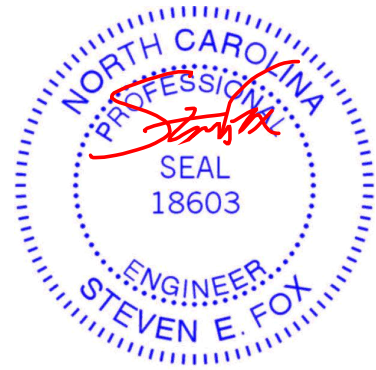
Plate Offsets (X,Y)--	[9:0-3-0,0-2-12], [11:0-3-0,0-2-12], [24:0-2-0,0-1-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.07	Vert(LL) -0.00 1 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.25	BC 0.03	Vert(CT) -0.00 1 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) -0.00 16 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 204 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-11.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 11-20, 10-21, 9-22
OTHERS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-6-0	


REACTIONS. All bearings 22-0-0.
 (lb) - Max Horz 2=282(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 20, 21, 22, 23, 26, 19 except 2=202(LC 8), 25=103(LC 12), 27=127(LC 12), 18=103(LC 13), 17=115(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 16, 20, 21, 22, 23, 25, 26, 27, 19, 18, 17 except 2=310(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-340/307, 4-5=-276/265, 5-6=-253/262, 6-8=-244/275, 8-9=-308/352, 9-10=-251/296, 10-11=-251/296, 11-12=-308/352, 12-13=-244/275

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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) 16, 20, 21, 22, 23, 26, 19 except (jt=lb) 2=202, 25=103, 27=127, 18=103, 17=115.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2021

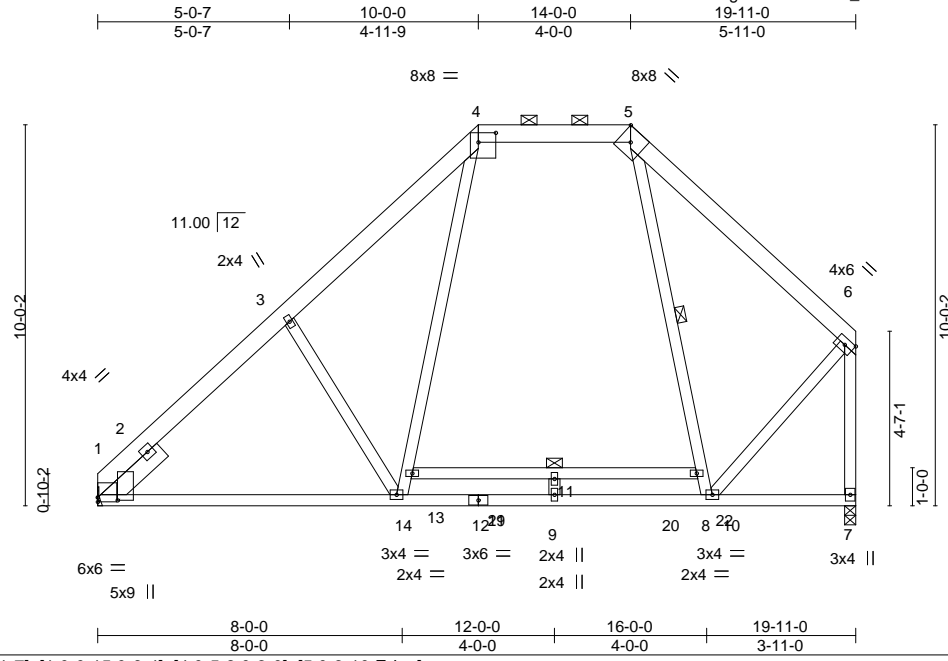
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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</p>	 <p>818 Soundside Road Edenton, NC 27932</p>
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Job 28170-28170A	Truss A2	Truss Type ROOF TRUSS	Qty 2	Ply 1	Huntington A 1546 Job Reference (optional)	147525140
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84 Components (Dunn), Dunn, NC - 28334,

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Scale = 1:60.5

Plate Offsets (X,Y)--	[1:0-0-0,0-1-7], [1:0-0-15,0-6-4], [4:0-5-8,0-3-0], [5:0-3-10,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 0.45	Vert(LL)	-0.30	9-14	>797	MT20	197/144
TCDL 10.0	Lumber DOL	1.25	BC 0.96	Vert(CT)	-0.46	9-14	>510		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 157 lb	FT = 20%

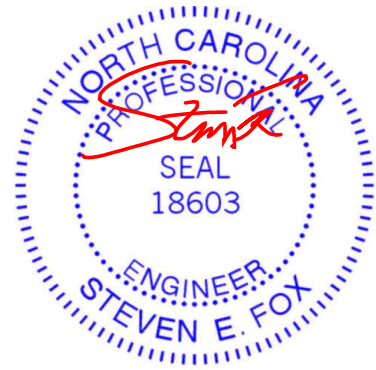
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing, Except: 10-0-0 oc bracing: 1-14. 6-0-0 oc bracing: 10-13
WEBS 1 Row at midpt 5-8

REACTIONS. (size) 1=Mechanical, 7=0-3-8
Max Horz 1=289(LC 11)
Max Uplift 1=-27(LC 12), 7=-6(LC 12)
Max Grav 1=893(LC 2), 7=1002(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1066/143, 3-4=-987/229, 4-5=-494/216, 5-6=-683/168, 6-7=-1074/101
BOT CHORD 1-14=-216/880, 9-14=-64/555, 8-9=-64/555
WEBS 3-14=-388/287, 13-14=-123/593, 4-13=-88/715, 6-8=-28/795

- 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) 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 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) 1, 7.
 - 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.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



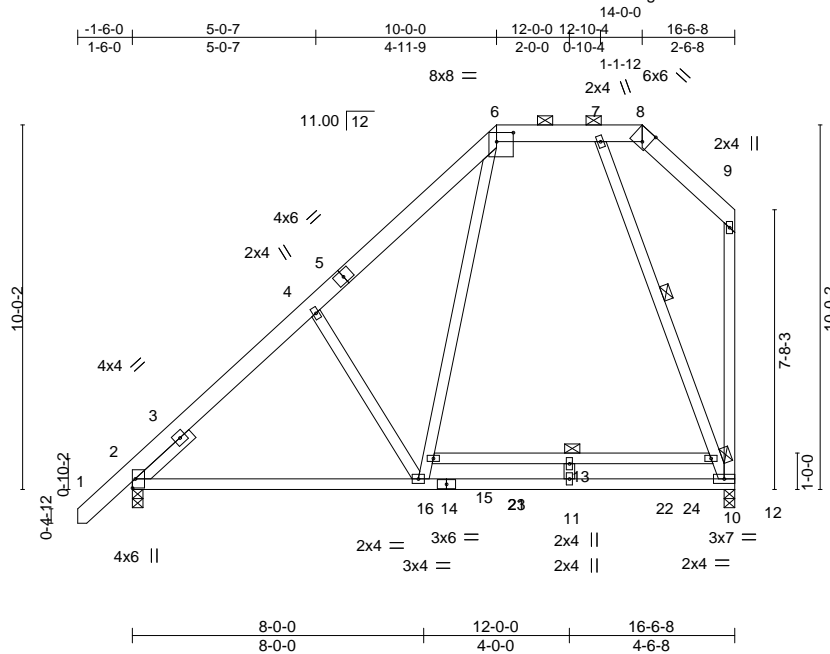
August 19,2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 28170-28170A	Truss A3A	Truss Type ROOF TRUSS	Qty 2	Ply 1	Huntington A 1546	147525142
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:09 2021 Page 1
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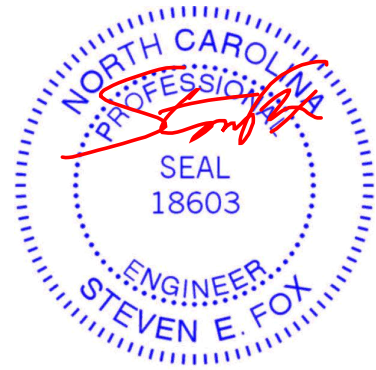
Plate Offsets (X, Y)--	[6:0-5-8,0-3-0], [8:0-2-5,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.78	Vert(LL) -0.38 13 >517 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.25	BC 0.99	Vert(CT) -0.60 13-15 >324 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.01 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 142 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 12-15
SLIDER Left 2x4 SP No.3 2-0-0	1 Row at midpt 7-12

REACTIONS.	(size) 2=0-3-8, 10=0-3-8
	Max Horz 2=351(LC 11)
	Max Uplift 2=-54(LC 12), 10=-14(LC 12)
	Max Grav 2=792(LC 20), 10=923(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-821/120, 4-6=-728/201, 6-7=-352/199
BOT CHORD	2-16=-316/683, 11-16=-170/434, 10-11=-170/434
WEBS	4-16=-385/270, 15-16=-112/598, 6-15=-76/759, 7-12=-850/295, 10-12=-1006/256

- 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) 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 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) 2, 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.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



August 19, 2021

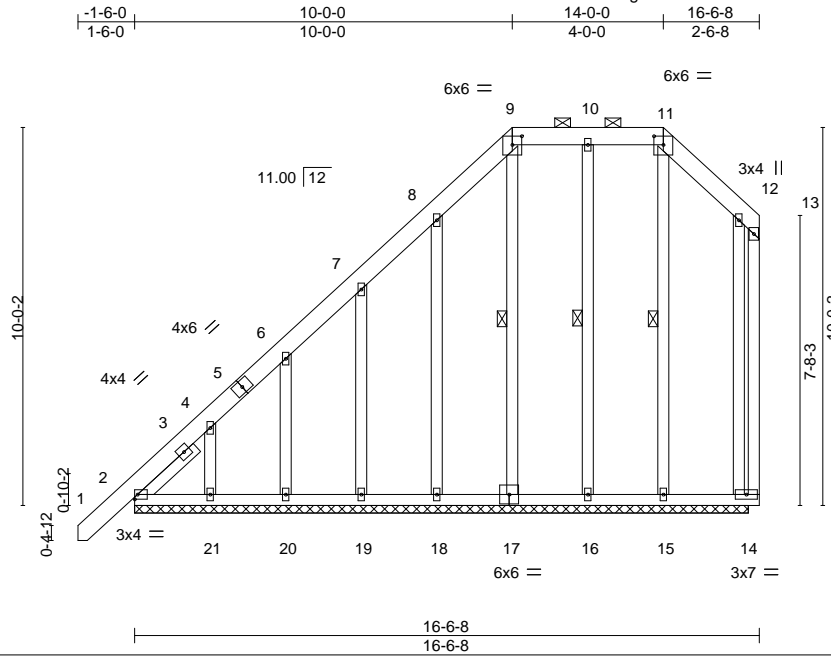
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 28170-28170A	Truss A3AE	Truss Type PIGGYBACK BASE SUPPO	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525143
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:10 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-?20WmOH4MvHusbWLSChBmdbuWbhZmnr2RA6PguyMK7



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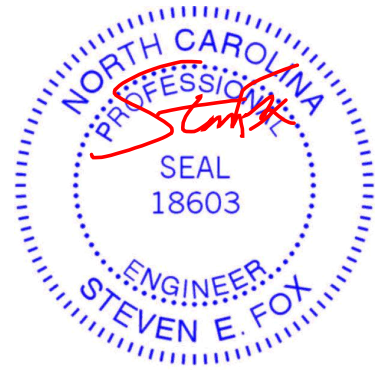
Plate Offsets (X,Y)--	[9:0-3-0,0-2-12], [11:0-3-0,0-2-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	Vert(LL) -0.00 1 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.25	BC 0.16	Vert(CT) -0.00 1 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) -0.00 14 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 173 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-11.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 11-15, 10-16, 9-17
OTHERS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 2-0-0	

REACTIONS. All bearings 16-3-0.
 (lb) - Max Horz 2=347(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 16, 17, 18, 19, 20 except 2=142(LC 8), 21=136(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16, 17, 18, 19, 20, 21 except 2=309(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-450/403, 4-6=-312/297, 6-7=-253/223, 11-12=-239/261

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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) 14, 15, 16, 17, 18, 19, 20 except (jt=lb) 2=142, 21=136.
 - Non Standard bearing condition. Review required.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 19, 2021

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

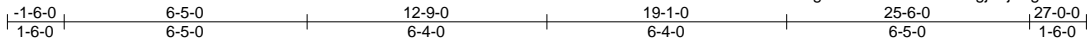
Job 28170-28170A	Truss B	Truss Type COMMON	Qty 2	Ply 1	Huntington A 1546	147525145
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84 Components (Dunn),

Dunn, NC - 28334,

8,510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:12 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-xQ8GB4IKtWXc6ugjadjfr2gJ9PDJEHRLuUbWknymMK5



6x6 =

Scale = 1:60.9

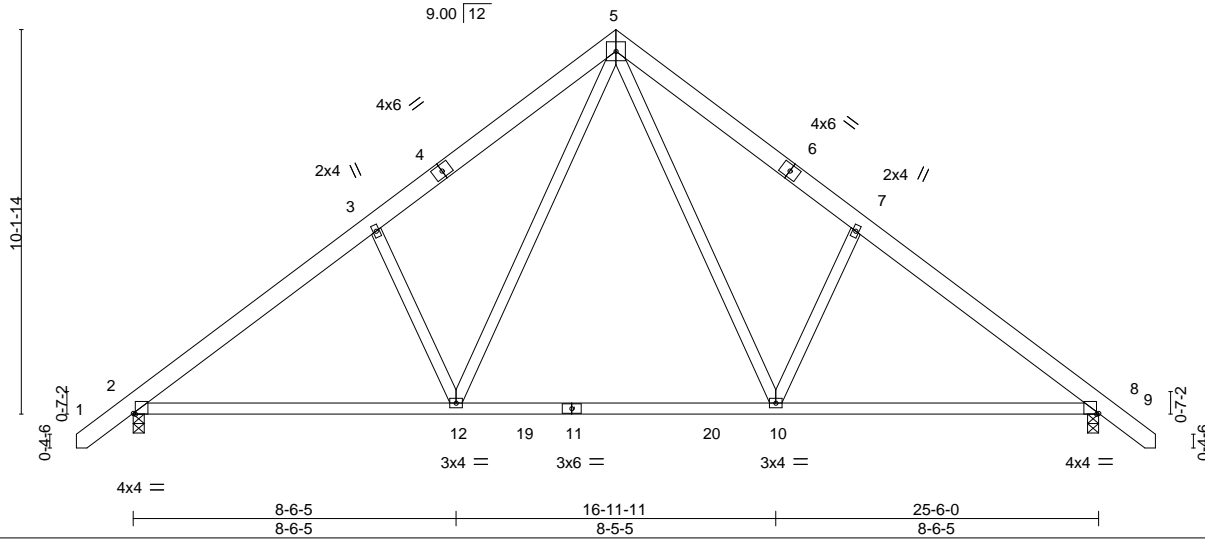


Plate Offsets (X,Y)--	[2:0-0-11,Edge], [8:0-0-11,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.21	Vert(LL) -0.25 10-12 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.25	BC 0.72	Vert(CT) -0.34 10-12 >889 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 168 lb	FT = 20%

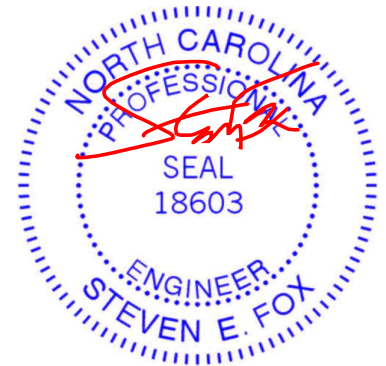
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3

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) 2=0-3-8, 8=0-3-8
 Max Horz 2=-262(LC 10)
 Max Uplift 2=-132(LC 12), 8=-132(LC 13)
 Max Grav 2=1102(LC 1), 8=1102(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1362/252, 3-5=-1249/352, 5-7=-1249/352, 7-8=-1362/252
 BOT CHORD 2-12=-162/1181, 10-12=0/766, 8-10=-68/1033
 WEBS 5-10=-168/658, 7-10=-401/277, 5-12=-167/657, 3-12=-401/276

- 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=132, 8=132.
 - 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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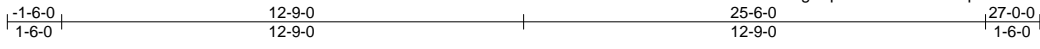
Job 28170-28170A	Truss BE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525146
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84 Components (Dunn),

Dunn, NC - 28334,

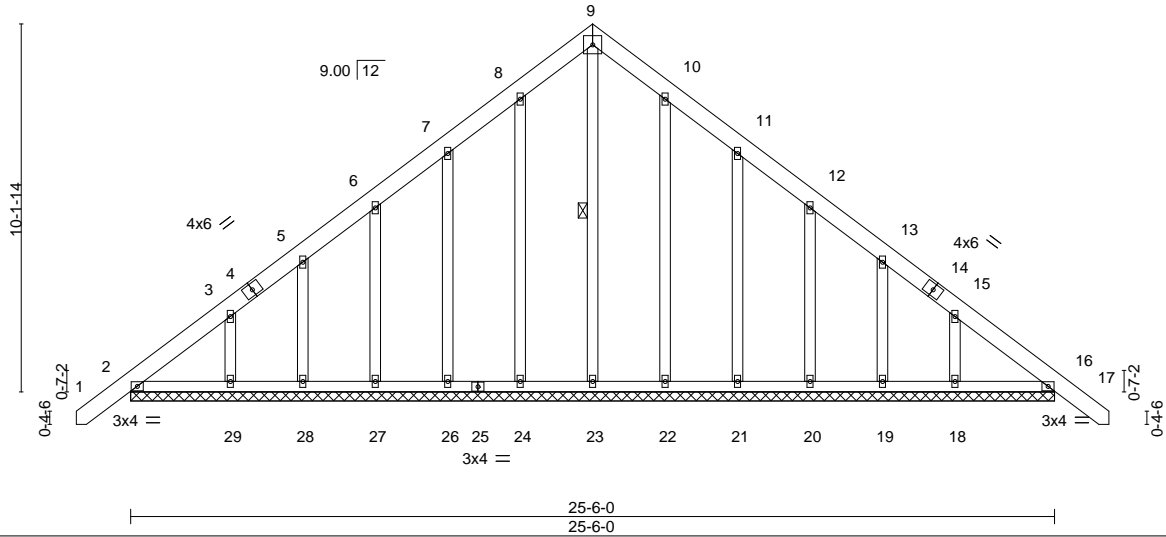
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:14 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-tpG1bmKbP8nKLCp6h2I7wTII?C4FieneMo4cpfymMK3



6x6 =

Scale: 3/16"=1'



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 0.05	Vert(LL)	-0.00	17	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	17	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.01	16	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 209 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF 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.
 WEBS 1 Row at midpt 9-23

REACTIONS. All bearings 25-6-0.
 (lb) - Max Horz 2=262(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18
 Max Grav All reactions 250 lb or less at joint(s) 2, 23, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18, 16

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) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18.
- 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.



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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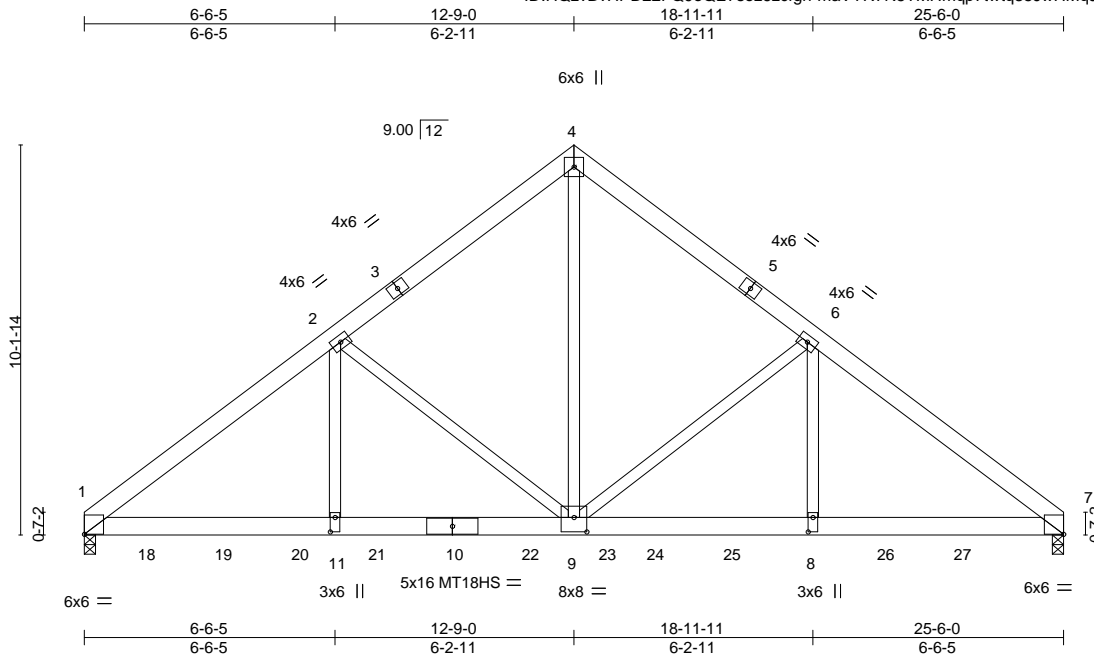
818 Soundside Road
 Edenton, NC 27932

Job 28170-28170A	Truss BGR	Truss Type Common Girder	Qty 1	Ply 2	Huntington A 1546 Job Reference (optional)	147525147
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:18 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-maVYR7N5TMHmqp7twq35JwHMqJOel_DHQ2qyQymMK?



Scale = 1:60.0

Plate Offsets (X,Y)-- [8:0-4-8,0-1-8], [9:0-4-0,0-4-8], [11:0-4-8,0-1-8]

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 0.48	Vert(LL)	-0.11 9-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.22 9-11	>999	180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.80	Horz(CT)	0.06 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 370 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
4-9: 2x4 SP No.2 or 2x4 SPF No.2

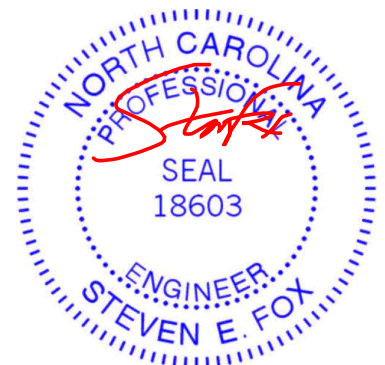
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 7=0-3-8
Max Horz 1=-237(LC 25)
Max Uplift 1=-526(LC 8), 7=-389(LC 9)
Max Grav 1=6423(LC 1), 7=6019(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-8501/688, 2-4=-5612/511, 4-6=-5608/510, 6-7=-7813/539
BOT CHORD 1-11=-604/6790, 9-11=-604/6790, 8-9=-348/6221, 7-8=-348/6221
WEBS 4-9=-463/6285, 6-9=-2348/321, 6-8=-51/2420, 2-9=-3076/478, 2-11=-233/3226

NOTES-

- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=526, 7=389.
- 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

Continued on page 2

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Job 28170-28170A	Truss BGR	Truss Type Common Girder	Qty 1	Ply 2	Huntington A 1546 Job Reference (optional)	I47525147
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:18 2021 Page 2
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-maVYR7N5TMHmqp7twq35JwHMqJOel_DHQ2qyQymMK?

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 941 lb down and 95 lb up at 1-6-12, 941 lb down and 95 lb up at 3-6-12, 941 lb down and 95 lb up at 5-6-12, 941 lb down and 95 lb up at 7-6-12, 941 lb down and 95 lb up at 9-6-12, 873 lb down and 47 lb up at 11-6-12, 873 lb down and 47 lb up at 13-6-12, 688 lb down and 41 lb up at 14-9-12, 688 lb down and 41 lb up at 16-9-12, 688 lb down and 41 lb up at 18-9-12, 688 lb down and 41 lb up at 20-9-12, and 688 lb down and 41 lb up at 22-9-12, and 691 lb down and 38 lb up at 24-9-12 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: 1-4=-60, 4-7=-60, 12-15=-20

Concentrated Loads (lb)

Vert: 10=-938(F) 8=-675(F) 17=-678(F) 18=-938(F) 19=-938(F) 20=-938(F) 21=-938(F) 22=-830(F) 23=-830(F) 24=-675(F) 25=-675(F) 26=-675(F) 27=-675(F)

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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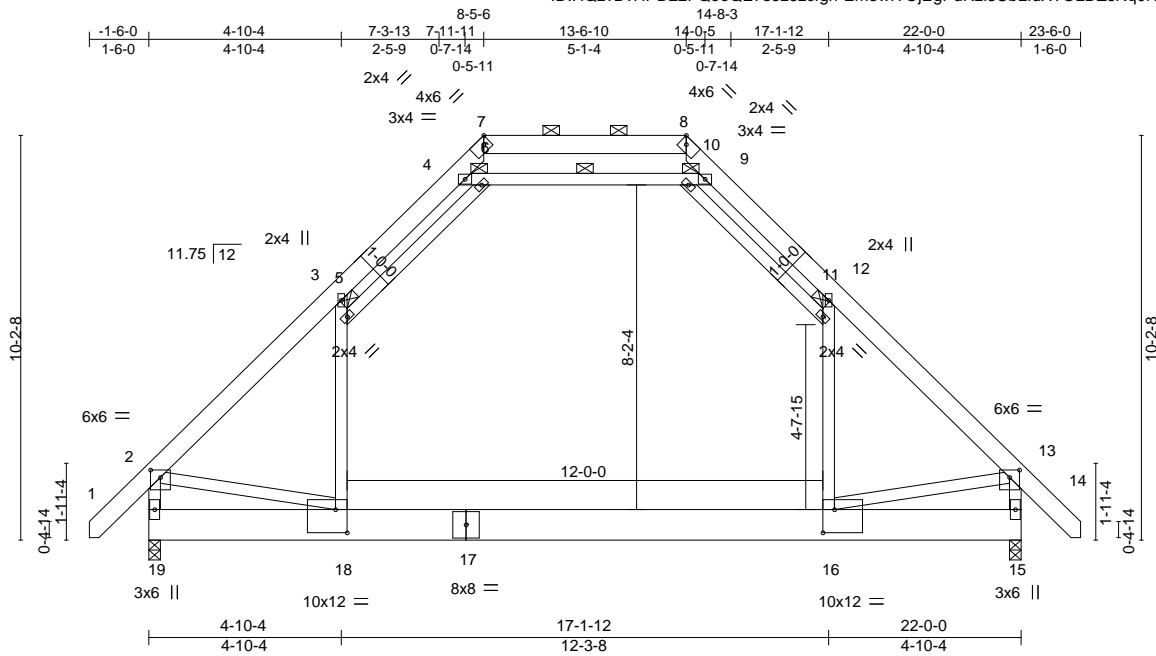
818 Soundside Road
Edenton, NC 27932

Job 28170-28170A	Truss C	Truss Type ATTIC	Qty 8	Ply 1	Huntington A 1546 Job Reference (optional)	147525148
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:19 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-Em3wfTOjEgPdRzi3UbLidXTOLDZsNq0NV4oNUtymMK_



Scale = 1:58.1

Plate Offsets (X,Y)--	[2:0-3-0,0-2-4], [7:0-1-15,Edge], [13:0-3-0,0-2-4], [16:0-3-8,0-7-0], [18:0-3-8,0-7-0]
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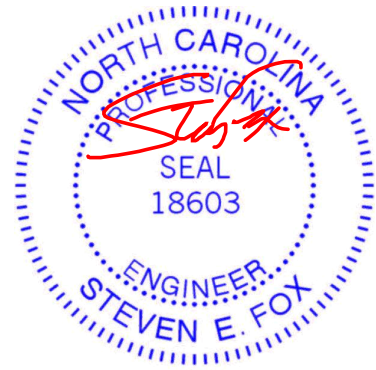
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.25	BC 0.92	Vert(LL) -0.26 16-18 >995 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.50	Vert(CT) -0.40 16-18 >648 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 15 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.16 16-18 919 360	Weight: 221 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 7-8: 2x6 SP No.2, 5-6,10-11: 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-8, 5-6, 10-11.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-18,4-9,12-16: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 6-10

REACTIONS.
(size) 19=0-3-8, 15=0-3-8 Max Horz 19=290(LC 11) Max Grav 19=1388(LC 2), 15=1388(LC 2)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1446/1, 3-4=-849/189, 4-7=0/638, 7-8=0/1004, 8-9=0/638, 9-12=-849/189, 12-13=-1445/1, 2-19=-1450/66, 13-15=-1450/67
BOT CHORD 18-19=-242/366, 16-18=0/935
WEBS 5-18=0/736, 3-5=0/763, 4-6=-1771/163, 6-10=-1790/144, 9-10=-1771/163, 11-16=0/736, 11-12=0/763, 2-18=0/820, 13-16=0/822

- 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) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Ceiling dead load (5.0 psf) on member(s). 3-4, 9-12, 4-6, 6-10, 9-10; Wall dead load (5.0psf) on member(s).5-18, 3-5, 11-16, 11-12
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-18
 - 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.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Attic room checked for L/360 deflection.



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

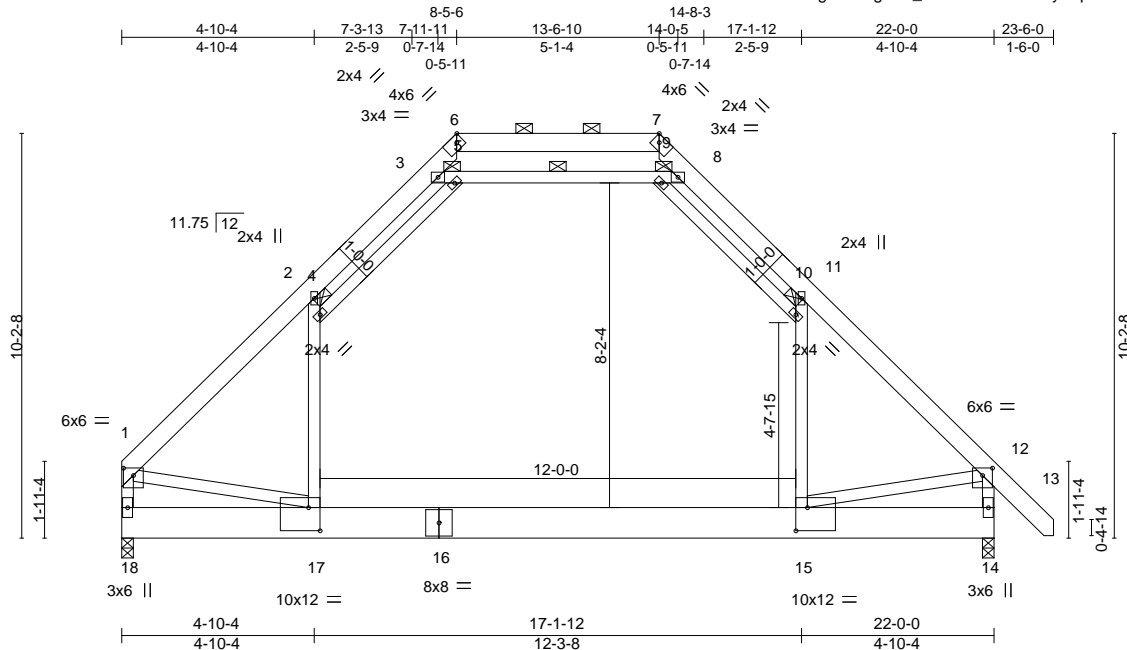
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 28170-28170A	Truss C1	Truss Type ATTIC	Qty 3	Ply 1	Huntington A 1546	147525149
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:21 2021 Page 1

ID:HqzvBvHPD22FQ9eQE7soz6zcfgh-A9Bg39P_mHfKhHsSc0NmiiYkp1FirkSgzOHUYlmmJy



Scale = 1:58.1

Plate Offsets (X,Y)--	[1:0-3-0,0-2-4], [6:0-1-15,Edge], [12:0-3-0,0-2-4], [15:0-3-8,0-7-0], [17:0-3-8,0-7-0]
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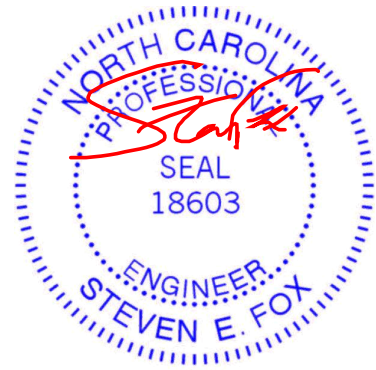
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.25	BC 0.92	Vert(LL) -0.26 15-17 >993 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.50	Vert(CT) -0.40 15-17 >645 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 14 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.16 15-17 918 360	Weight: 217 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except*	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 6-7, 4-5, 9-10.
6-7: 2x6 SP No.2, 4-5,9-10: 2x4 SP No.2 or 2x4 SPF No.2	
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-9
2-17,3-8,11-15: 2x4 SP No.2 or 2x4 SPF No.2	

REACTIONS.
(size) 18=0-3-8, 14=0-3-8
Max Horz 18=-277(LC 8)
Max Grav 18=1309(LC 2), 14=1390(LC 2)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1443/0, 2-3=-855/188, 3-6=0/642, 6-7=0/1010, 7-8=0/642, 8-11=-850/189, 11-12=-1451/1, 1-18=-1373/0, 12-14=-1456/66
BOT CHORD 17-18=-226/344, 15-17=0/939
WEBS 4-17=0/726, 2-4=0/753, 3-5=-1790/166, 5-9=-1799/151, 8-9=-1784/170, 10-15=0/738, 10-11=0/766, 1-17=0/820, 12-15=0/825

- 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
 - 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.
 - * 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.
 - Ceiling dead load (5.0 psf) on member(s). 2-3, 8-11, 3-5, 5-9, 8-9; Wall dead load (5.0psf) on member(s).4-17, 2-4, 10-15, 10-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



August 19,2021

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 28170-28170A	Truss CE	Truss Type GABLE	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525150
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:22 2021 Page 1
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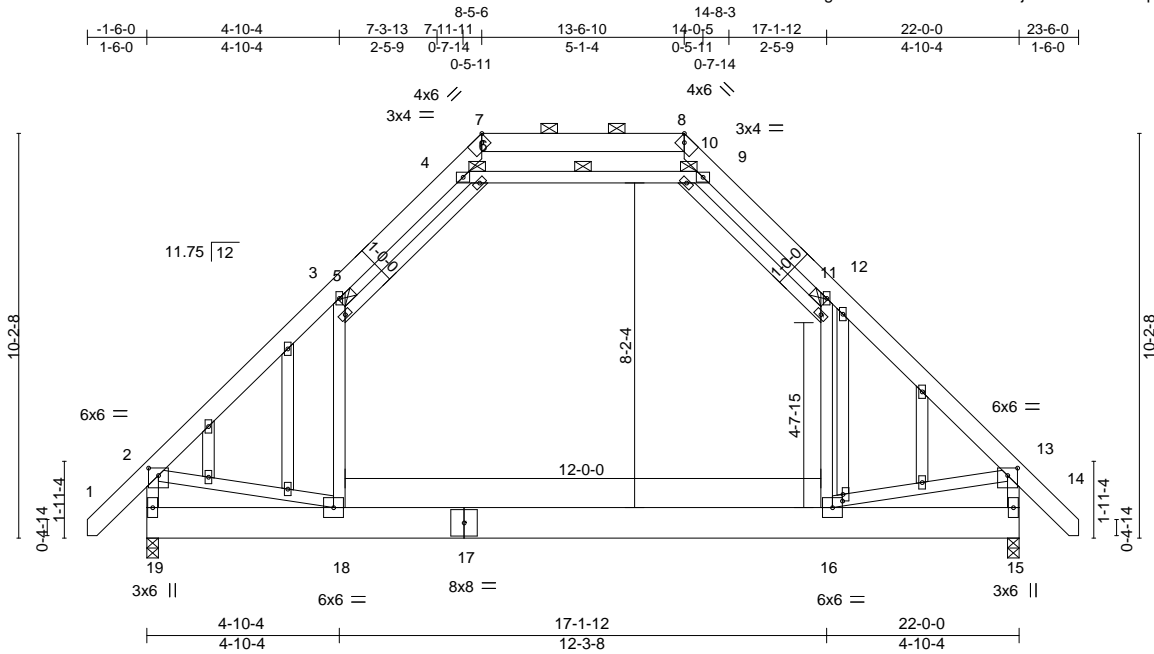


Plate Offsets (X,Y)-- [2:0-3-0,0-2-4], [7:0-1-15,Edge], [13:0-3-0,0-2-4], [24:0-2-0,0-0-2]

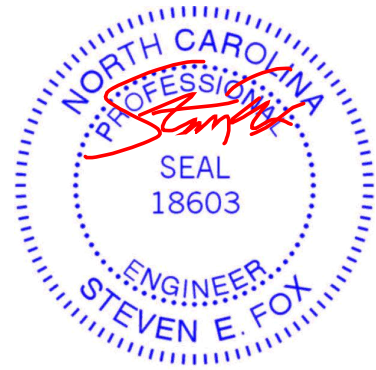
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	-0.26	16-18	>995	MT20	197/144
TCDL 10.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.40	16-18	>648		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.01	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.16	16-18	919	Weight: 239 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 7-8: 2x6 SP No.2, 5-6,10-11: 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-8, 5-6, 10-11.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-18,4-9,12-16: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 6-10
OTHERS 2x4 SP No.3	

REACTIONS. (size) 19=0-3-8, 15=0-3-8
Max Horz 19=290(LC 11)
Max Grav 19=1388(LC 2), 15=1388(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1446/1, 3-4=-849/189, 4-7=0/638, 7-8=0/1004, 8-9=0/638, 9-12=-849/189, 12-13=-1445/1, 2-19=-1450/66, 13-15=-1450/67
BOT CHORD 18-19=-242/366, 16-18=0/935
WEBS 5-18=0/736, 3-5=0/763, 4-6=-1771/163, 6-10=-1790/144, 9-10=-1771/163, 11-16=0/736, 11-12=0/763, 2-18=0/820, 13-16=0/822

- 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 9-12, 4-6, 6-10, 9-10; Wall dead load (5.0psf) on member(s).5-18, 3-5, 11-16, 11-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-18
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



August 19,2021

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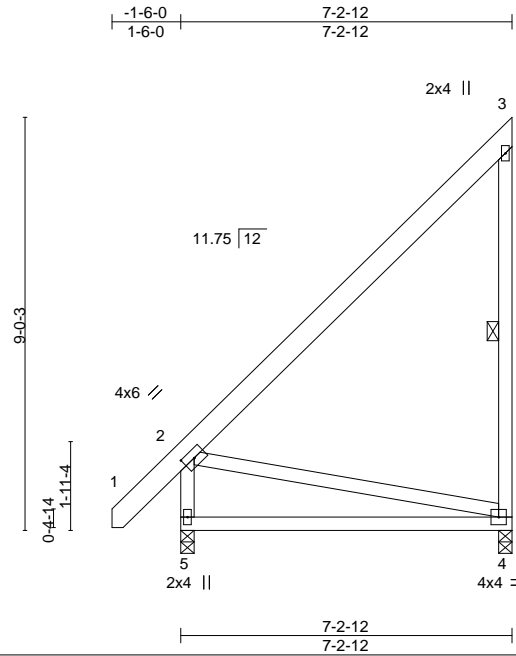
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 28170-28170A	Truss CM	Truss Type MONOPIITCH	Qty 2	Ply 1	Huntington A 1546 Job Reference (optional)	147525151
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:23 2021 Page 1

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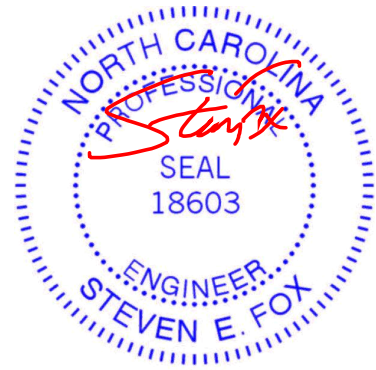
Plate Offsets (X,Y)--	[2:0-2-15,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.47	Vert(LL) -0.14 4-5 >599 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.25	BC 0.63	Vert(CT) -0.28 4-5 >300 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 64 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 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 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-3-11 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-4

REACTIONS.	(size) 4=0-3-8, 5=0-3-8
	Max Horz 5=290(LC 12)
	Max Uplift 4=-241(LC 12)
	Max Grav 4=326(LC 19), 5=379(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-4=-297/228, 2-5=-310/0
BOT CHORD	4-5=-364/291
WEBS	2-4=-298/373

- NOTES-**
- 1) 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 exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=241.
 - 5) 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

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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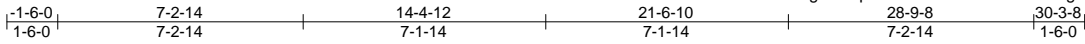
Job 28170-28170A	Truss D	Truss Type COMMON	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525152
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84 Components (Dunn),

Dunn, NC - 28334,

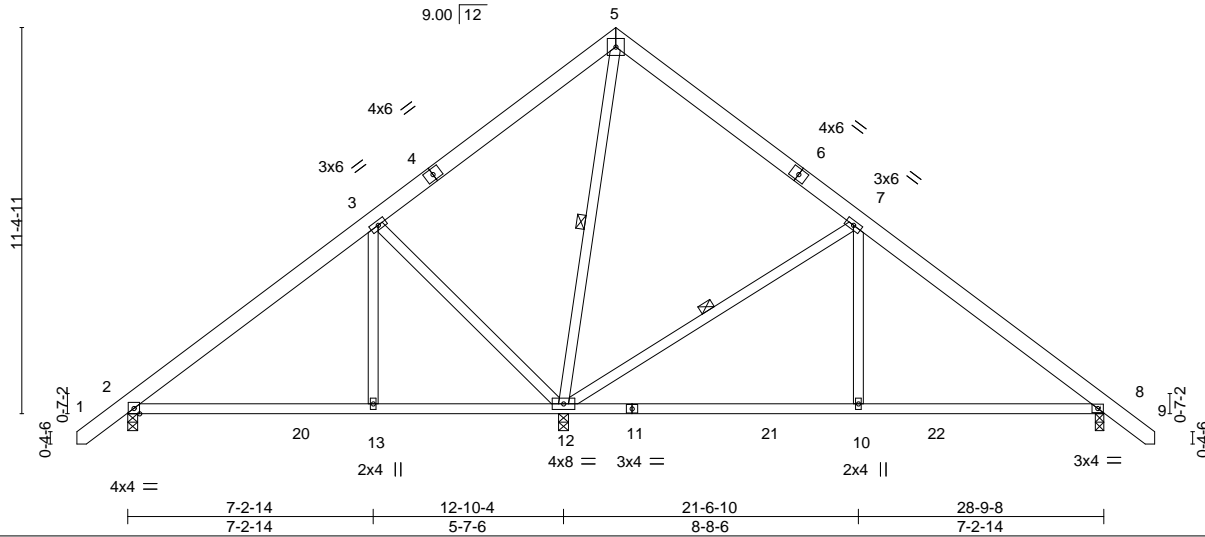
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:24 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-akspiBSS3C1vYka1H8xTKaAMgELJ21u6fMV884ymMJv



6x6 =

Scale = 1:68.0



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 0.30	Vert(LL)	-0.11 10-12	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.22 10-12	>869	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 194 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 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.
 WEBS 1 Row at midpt 5-12, 7-12

REACTIONS.

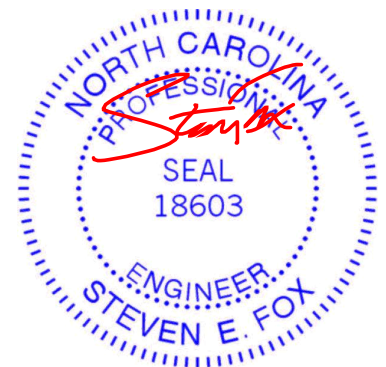
(size) 2=0-3-8, 12=0-3-8, 8=0-3-0
 Max Horz 2=-292(LC 10)
 Max Uplift 2=-71(LC 12), 12=-135(LC 12), 8=-129(LC 13)
 Max Grav 2=545(LC 23), 12=1350(LC 19), 8=700(LC 20)

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

TOP CHORD 2-3=-431/125, 3-5=-74/327, 7-8=-689/140
 BOT CHORD 2-13=-131/385, 12-13=-131/385, 10-12=0/472, 8-10=0/472
 WEBS 5-12=-493/2, 7-12=-739/258, 7-10=0/356, 3-12=-611/270

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=135, 8=129.
- 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 28170-28170A	Truss D1	Truss Type COMMON	Qty 2	Ply 1	Huntington A 1546 Job Reference (optional)	147525153
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84 Components (Dunn), Dunn, NC - 28334,

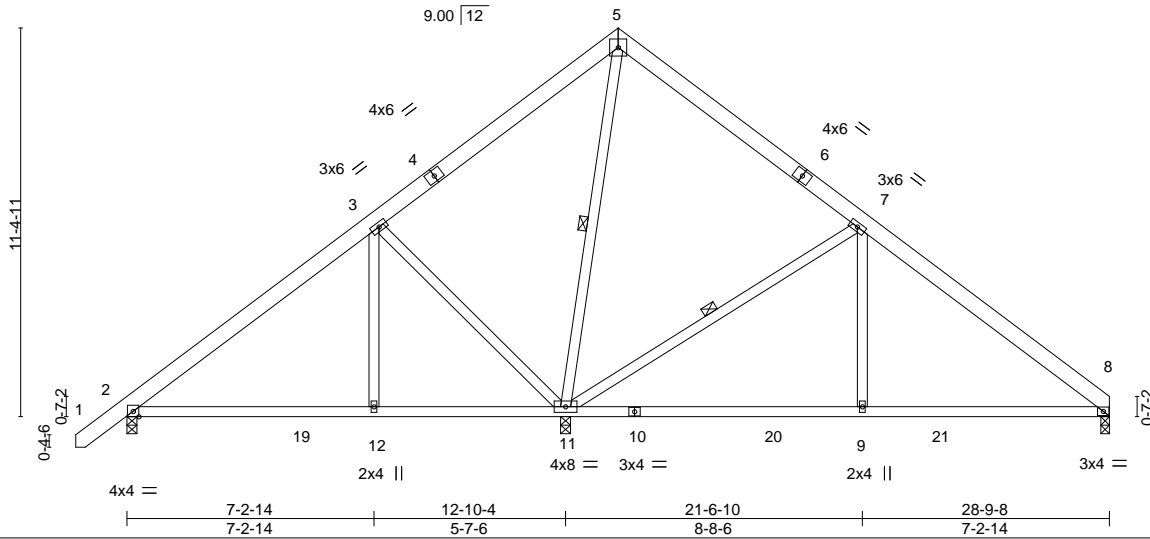
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:25 2021 Page 1

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6x6 =

Scale = 1:67.5



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 0.30	Vert(LL)	-0.11 9-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.22 9-11	>872	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 190 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 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.
 WEBS 1 Row at midpt 5-11, 7-11

REACTIONS.

(size) 2=0-3-8, 11=0-3-8, 8=0-3-0
 Max Horz 2=284(LC 9)
 Max Uplift 2=67(LC 12), 11=142(LC 12), 8=93(LC 13)
 Max Grav 2=546(LC 23), 11=1344(LC 19), 8=620(LC 20)

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

TOP CHORD 2-3=-432/114, 3-5=-68/316, 7-8=-696/131
 BOT CHORD 2-12=-138/378, 11-12=-138/378, 9-11=0/487, 8-9=0/487
 WEBS 5-11=-483/9, 7-11=-748/264, 7-9=0/357, 3-11=-611/271

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 11=142.
- 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

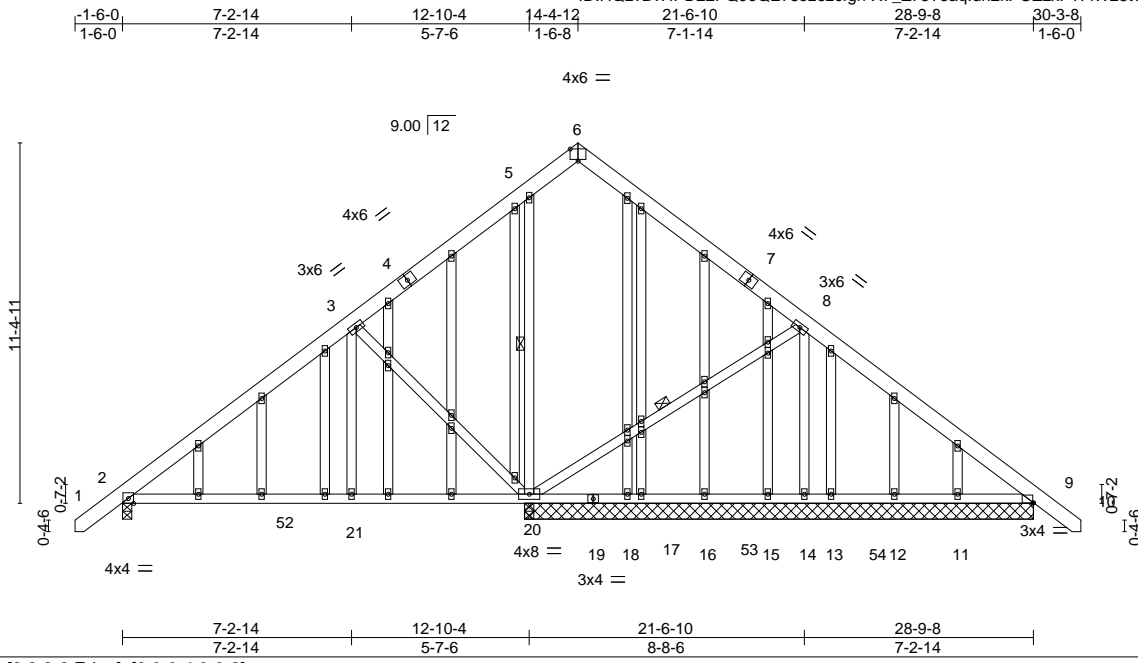
Job 28170-28170A	Truss DE	Truss Type GABLE	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525154
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:26 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-X7_Z7sT6aqln2kPOZzxP?FiW25tWyAP6g_FDzymMJt



Scale = 1:72.8

Plate Offsets (X, Y)--	[6:0-3-0,Edge], [9:0-0-4,0-0-2]				
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 0.28	Vert(LL) -0.05 21-48 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.25	BC 0.38	Vert(CT) -0.10 21-48 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.01 49 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 301 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

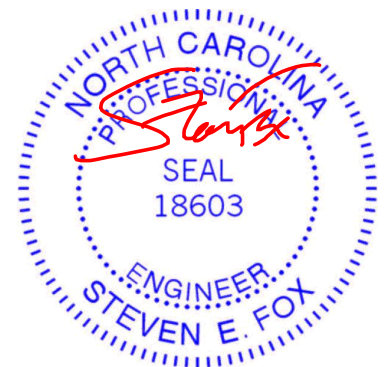
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-20, 8-20

REACTIONS. All bearings 16-1-0 except (jt=length) 2=0-3-8, 20=0-3-8, 20=0-3-8.
 (lb) - Max Horz 2=-292(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 9, 17, 11 except 20=-303(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 18, 17, 16, 15, 13, 12, 11 except 2=690(LC 1), 20=722(LC 19), 20=657(LC 1), 14=438(LC 24), 9=376(LC 24), 9=374(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-683/59, 3-5=-321/130, 6-8=-323/101, 8-9=-325/74
 BOT CHORD 2-21=-39/577, 20-21=-39/577
 WEBS 5-20=-255/127, 8-14=-434/105, 3-20=-567/237, 3-21=0/272

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; BC DL=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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 9, 17, 11, 9 except (jt=lb) 20=303.
- 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.



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



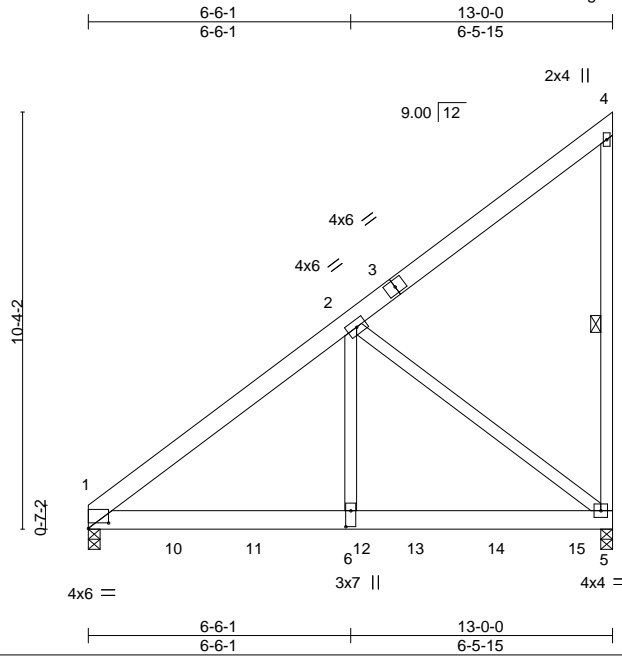
818 Soundside Road
Edenton, NC 27932

Job 28170-28170A	Truss DGR	Truss Type Monopitch Girder	Qty 1	Ply 2	Huntington A 1546 Job Reference (optional)	147525155
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:28 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-TV6KYYV6RYL1MuoW_?PUQL1mslx_pZia_TMHrymMJr



Scale = 1:57.1

Plate Offsets (X,Y)--	[1:0-6-0,0-1-10], [6:0-4-12,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.47	Vert(LL) -0.06 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.86	Vert(CT) -0.12 5-6 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 202 lb	FT = 20%

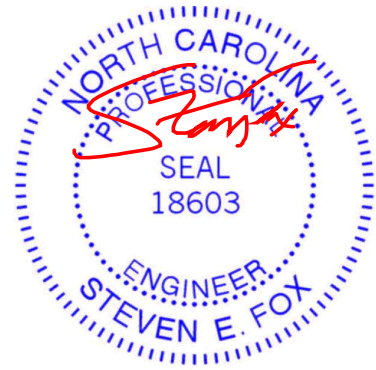
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-5

REACTIONS.
(size) 1=0-3-8, 5=0-3-8
Max Horz 1=373(LC 8)
Max Uplift 1=-131(LC 8), 5=-454(LC 8)
Max Grav 1=2818(LC 1), 5=3325(LC 1)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3205/111
BOT CHORD 1-6=-358/2556, 5-6=-358/2556
WEBS 2-6=-182/3353, 2-5=-3226/452

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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.
 - 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 exposed; end vertical left exposed; 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=131, 5=454.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 852 lb down and 74 lb up at 2-0-12, 852 lb down and 74 lb up at 4-0-12, 852 lb down and 74 lb up at 6-0-12, 852 lb down and 74 lb up at 8-0-12, and 852 lb down and 74 lb up at 10-0-12, and 854 lb down and 72 lb up at 12-0-12 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-7=-20



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.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 28170-28170A	Truss DGR	Truss Type Monopitch Girder	Qty 1	Ply 2	Huntington A 1546 Job Reference (optional)	I47525155
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:28 2021 Page 2
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-TV6KYYVN6RYL1MuoW_?PUQL1mslx_pZia_TMHyMj

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 10=-852(B) 11=-852(B) 12=-852(B) 13=-852(B) 14=-852(B) 15=-854(B)

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818 Soundside Road
Edenton, NC 27932

Job 28170-28170A	Truss E	Truss Type COMMON	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525156
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84 Components (Dunn), Dunn, NC - 28334,

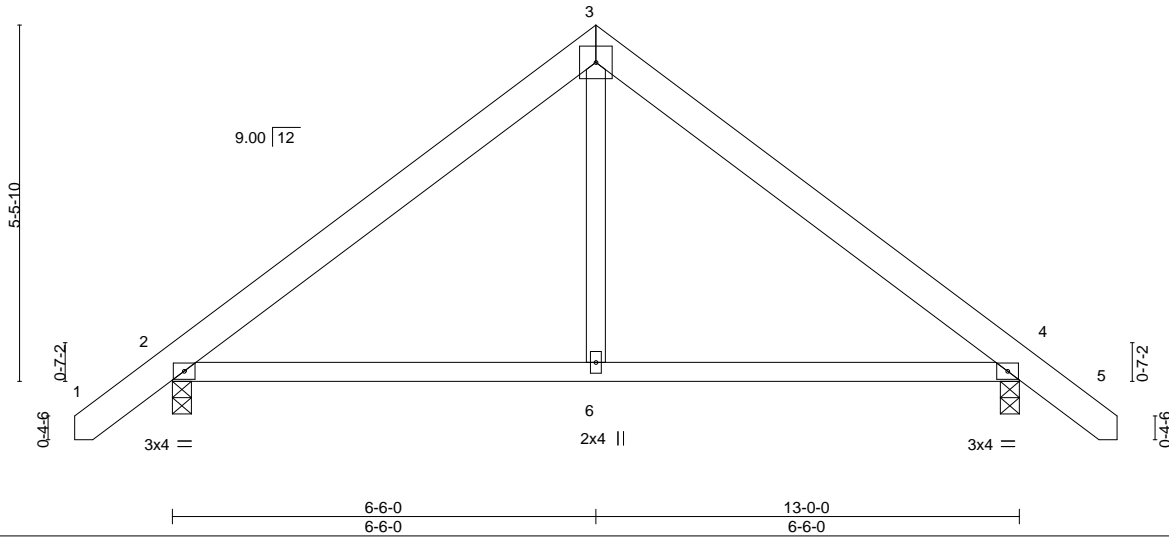
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:29 2021 Page 1

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6x6 =

Scale = 1:35.4



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 0.23	Vert(LL)	0.03 6-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.25	BC 0.36	Vert(CT)	-0.06 6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 74 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 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) 2=0-3-8, 4=0-3-8
 Max Horz 2=-146(LC 10)
 Max Uplift 2=-82(LC 12), 4=-82(LC 13)
 Max Grav 2=602(LC 1), 4=602(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-545/115, 3-4=-545/115
 BOT CHORD 2-6=0/391, 4-6=0/391
 WEBS 3-6=0/272

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



August 19, 2021

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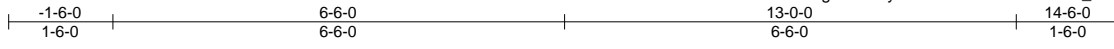
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 28170-28170A	Truss EE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525157
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84 Components (Dunn), Dunn, NC - 28334,

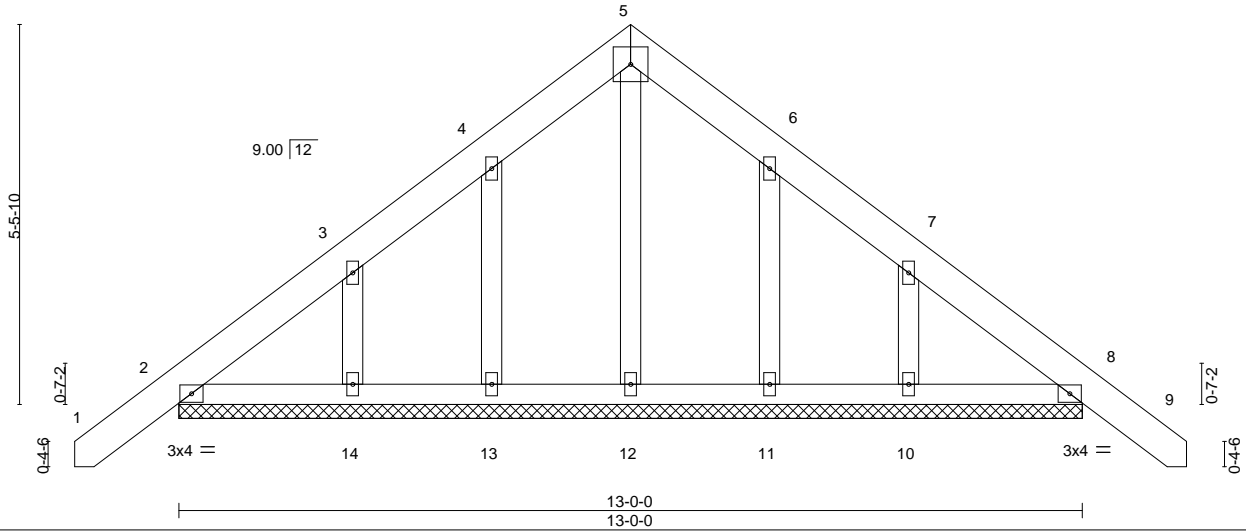
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:30 2021 Page 1

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6x6 =

Scale = 1:33.2



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 0.05	Vert(LL)	-0.00	9	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	9	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 89 lb	FT = 20%

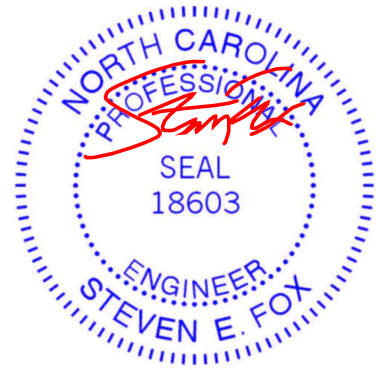
LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3

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 13-0-0.
 (lb) - Max Horz 2=146(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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; TCCL=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) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
 - 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.



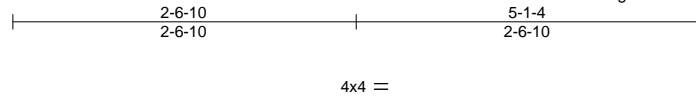
August 19, 2021

Job 28170-28170A	Truss PB2	Truss Type Piggyback	Qty 12	Ply 1	Huntington A 1546 Job Reference (optional)	147525158
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:31 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-t4nSAaXFPmwwwupdNB6Z663zbP3tNBMV8Gxi0uAymMJ0



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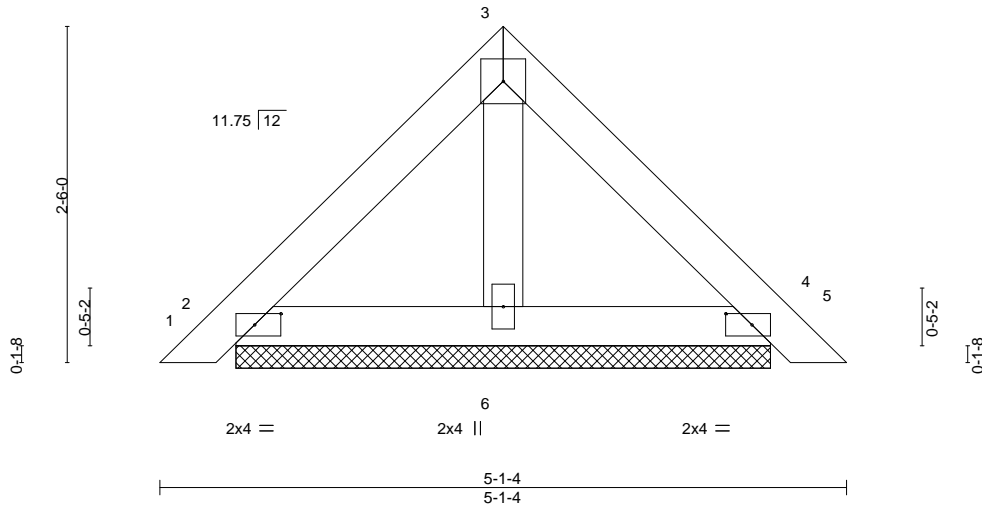


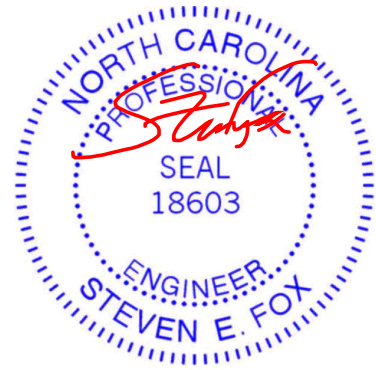
Plate Offsets (X,Y)--	[2:0-2-5,0-1-0], [4:0-2-5,0-1-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.07	Vert(LL) 0.00 4 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.25	BC 0.04	Vert(CT) 0.00 5 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=3-11-11, 4=3-11-11, 6=3-11-11
 Max Horz 2=-57(LC 10)
 Max Uplift 2=-27(LC 13), 4=-33(LC 13)
 Max Grav 2=119(LC 1), 4=119(LC 1), 6=124(LC 3)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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) 2, 4.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 19, 2021

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Job 28170-28170A	Truss PB4	Truss Type Piggyback	Qty 31	Ply 1	Huntington A 1546 Job Reference (optional)	147525159
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:31 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-t4nSAAxFPMwwupdNB6Z663zc13thBMA8Gxi0uAymMJ0

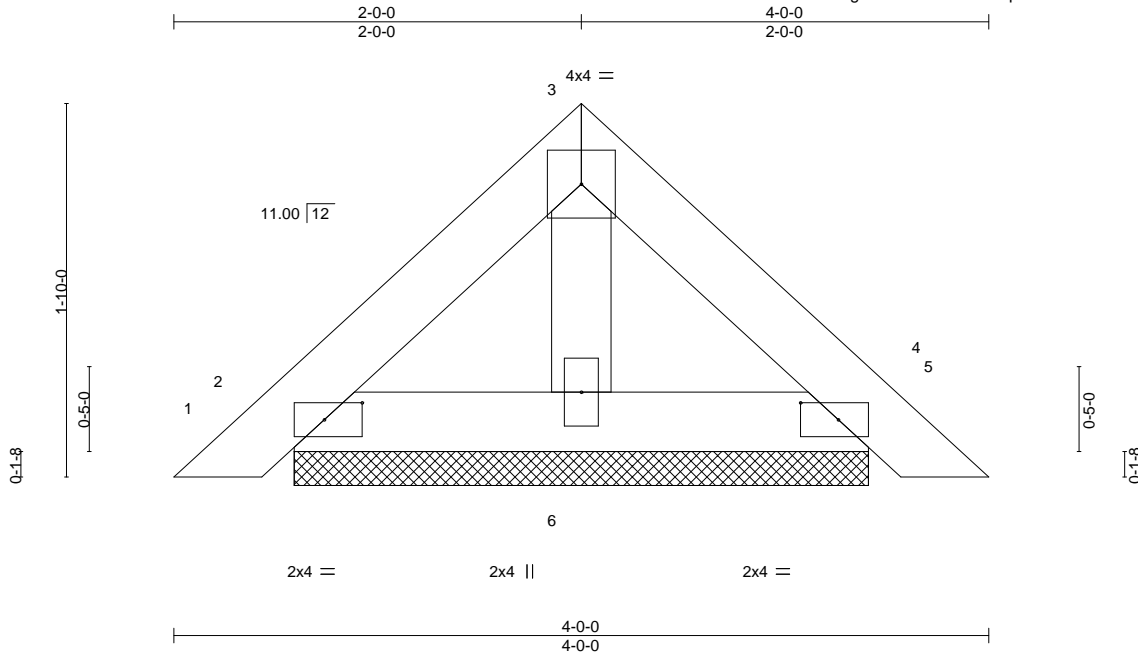


Plate Offsets (X, Y)--	[2:0-2-4,0-1-0], [4:0-2-4,0-1-0]
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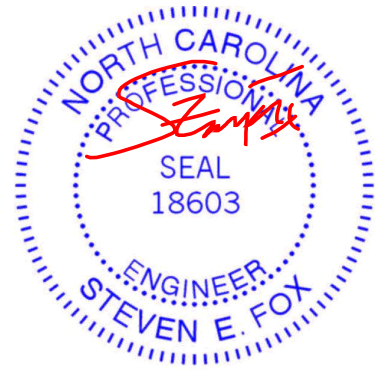
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.25	BC 0.02	Vert(LL) 0.00 4 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.01	Vert(CT) 0.00 4 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 14 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=2-9-13, 4=2-9-13, 6=2-9-13
 Max Horz 2=40(LC 11)
 Max Uplift 2=-23(LC 12), 4=-27(LC 13)
 Max Grav 2=91(LC 1), 4=91(LC 1), 6=88(LC 3)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; 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) 2, 4.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



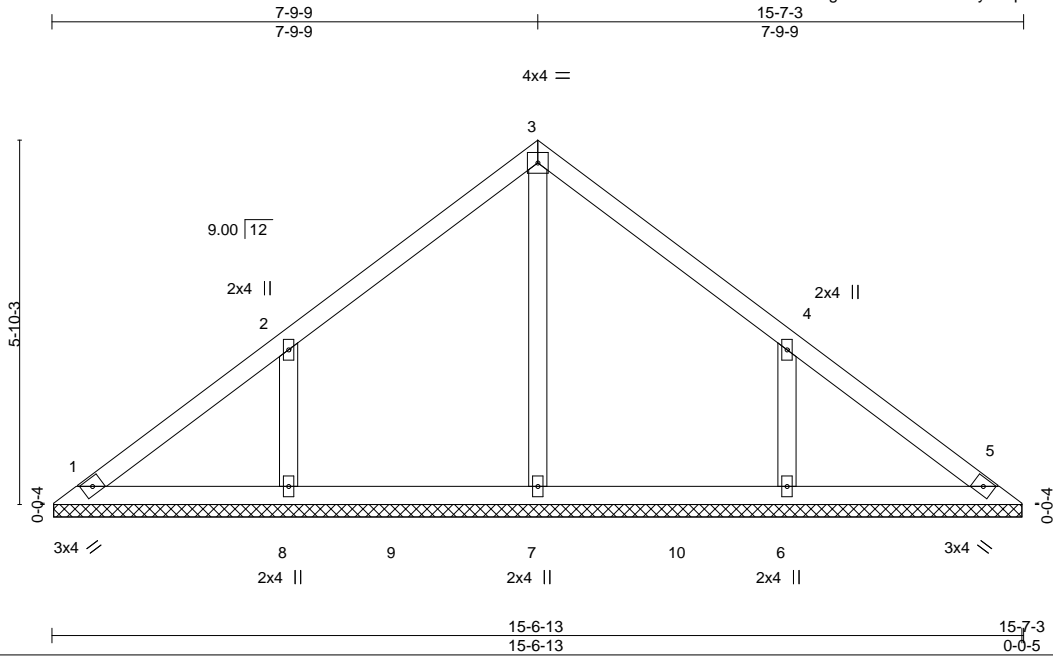
August 19, 2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 28170-28170A	Truss V2	Truss Type Valley	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525161
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:34 2021 Page 1
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-lftbobZ8iHlUHLysF6pkha35GtOOiwaywgvVymMJl



Scale = 1:37.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.25	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.10	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 65 lb	FT = 20%
	Code IRC2015/TPI2014							

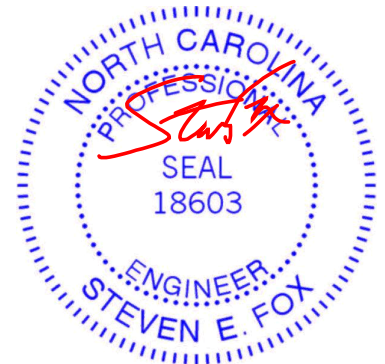
LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3

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 15-6-8.
 (lb) - Max Horz 1=137(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-164(LC 12), 6=-164(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=346(LC 19), 8=389(LC 19), 6=389(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-288/207, 4-6=-288/207

- 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=164, 6=164.
 - 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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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

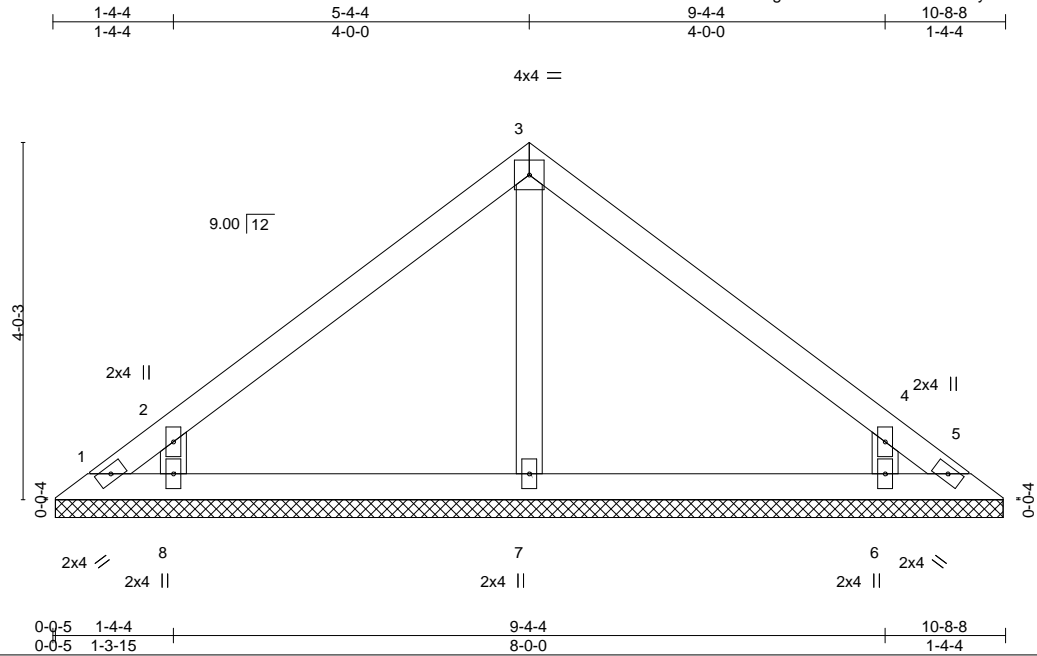
Job 28170-28170A	Truss V3	Truss Type Valley	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525162
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:35 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-mr1z0xamTbQLMQw8Qyd2Hv7EwgCm7AjjBZgE1xymMJk



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 0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.20	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 41 lb	FT = 20%

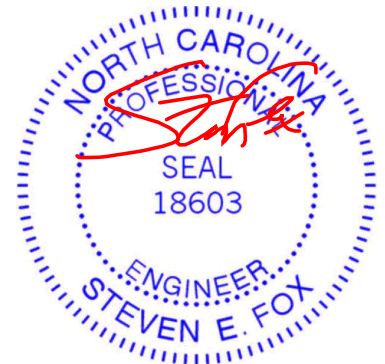
LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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. All bearings 10-7-13.
 (lb) - Max Horz 1=91(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=161(LC 13), 8=161(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=254(LC 1), 6=347(LC 20), 8=347(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-6=-291/214, 2-8=-291/214

- 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) 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, 5 except (jt=lb) 6=161, 8=161.
 - 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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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



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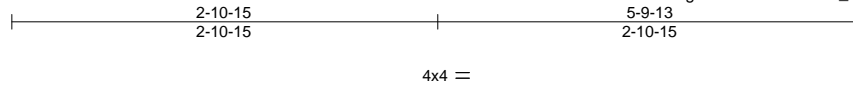
Job 28170-28170A	Truss V4	Truss Type Valley	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525163
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:36 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-E2bLDHbOEuYC_aVK_f8Hp6gRe4ZXsdctQDPnZOymMJ



Scale = 1:15.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.11	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: 20 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 5-9-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-9-3, 3=5-9-3, 4=5-9-3
 Max Horz 1=46(LC 9)
 Max Uplift 1=24(LC 12), 3=30(LC 13)
 Max Grav 1=109(LC 1), 3=109(LC 1), 4=177(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.



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

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Job 28170-28170A	Truss V5	Truss Type Valley	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525164
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84 Components (Dunn), Dunn, NC - 28334,

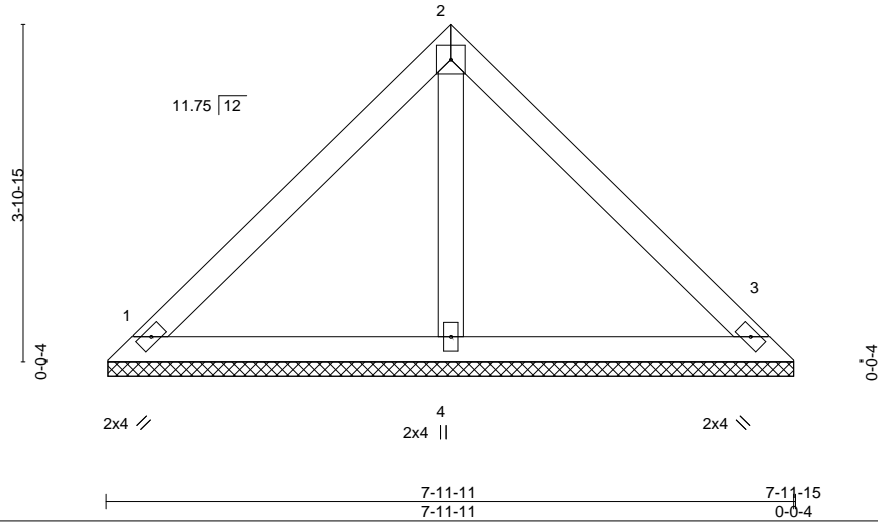
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:37 2021 Page 1

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4x4 =

Scale = 1:26.7



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 0.44	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 32 lb	FT = 20%

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

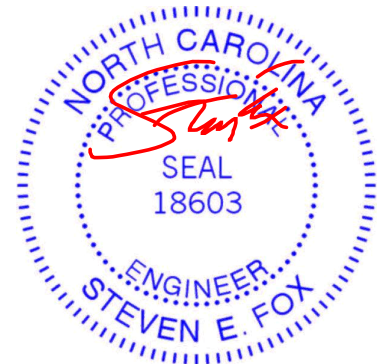
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-11-6, 3=7-11-6, 4=7-11-6
 Max Horz 1=-88(LC 8)
 Max Uplift 1=-42(LC 13), 3=-43(LC 13)
 Max Grav 1=173(LC 1), 3=173(LC 1), 4=236(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; TCCL=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



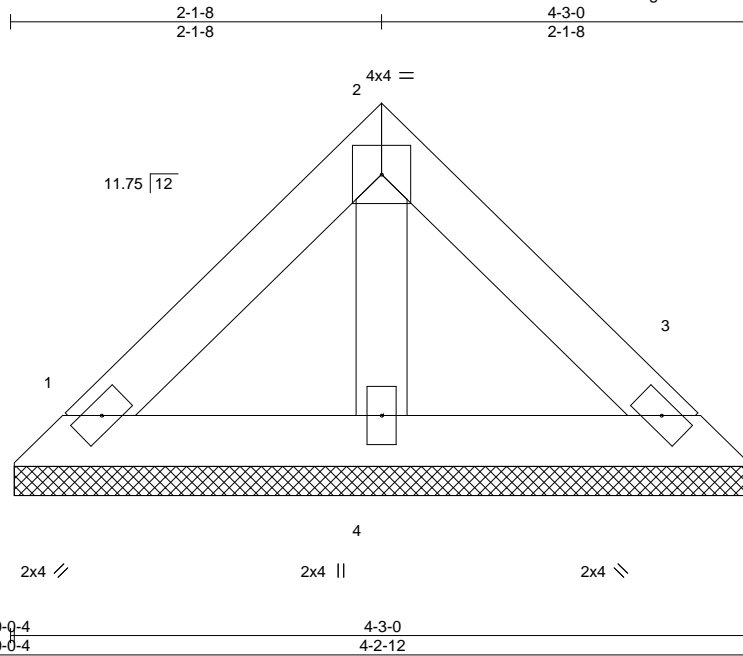
818 Soundside Road
 Edenton, NC 27932

Job 28170-28170A	Truss V6	Truss Type Valley	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525165
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:38 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-AQi6ezdemWowDufj54BluXloLuGoKXFAtXuueGymMJh



Scale = 1:13.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 16 lb	FT = 20%
	Code IRC2015/TPI2014							

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

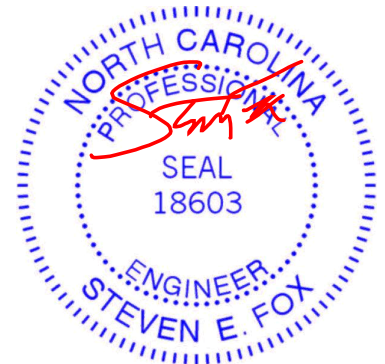
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-2-7, 3=4-2-7, 4=4-2-7
Max Horz 1=-43(LC 8)
Max Uplift 1=-20(LC 13), 3=-21(LC 13)
Max Grav 1=84(LC 1), 3=84(LC 1), 4=115(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; TCCL=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.

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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

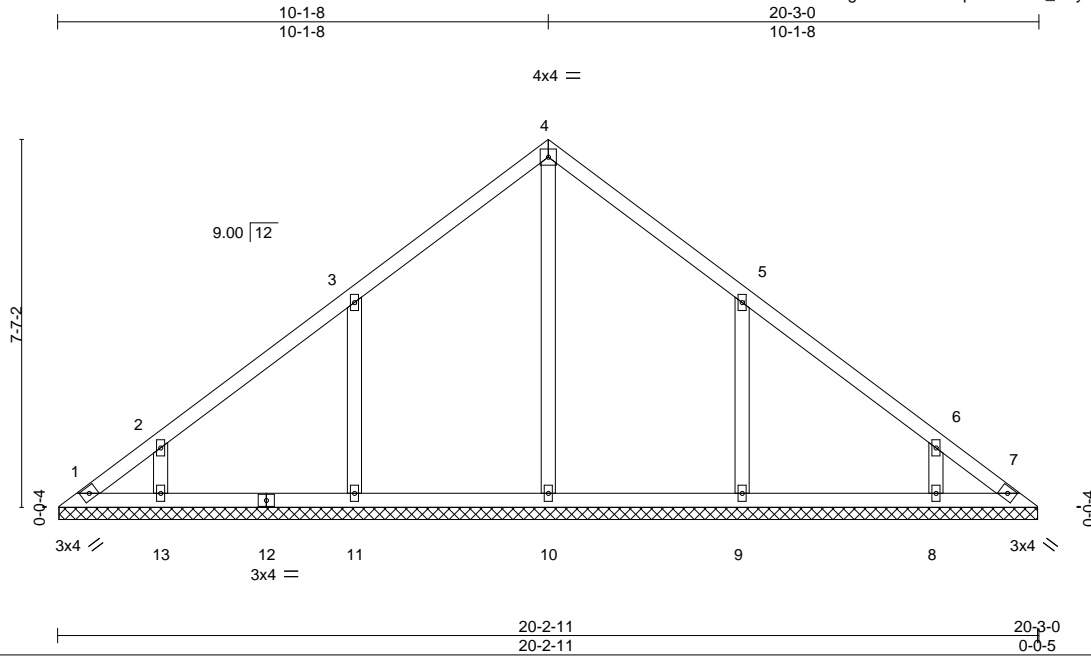


818 Soundside Road
Edenton, NC 27932

Job 28170-28170A	Truss V7	Truss Type Valley	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525166
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:39 2021 Page 1
ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-edGURJdGXpwnr2Evoi_RilcyHay3y0J6BeRAIymMJg



Scale: 1/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.25	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.17	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 92 lb	FT = 20%

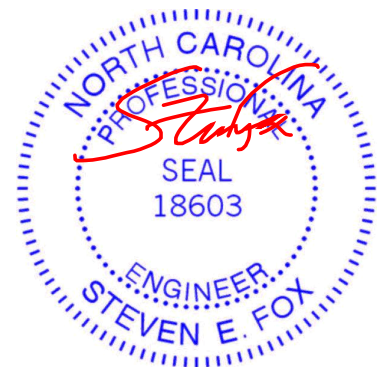
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
OTHERS 2x4 SP No.3

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 20-2-5.
(lb) - Max Horz 1=180(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=165(LC 12), 13=117(LC 12), 9=165(LC 13), 8=117(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=386(LC 22), 11=436(LC 19), 13=271(LC 19), 9=435(LC 20), 8=271(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=294/214, 5-9=294/214

- 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 2x4 MT20 unless otherwise indicated.
 - 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, 7 except (jt=lb) 11=165, 13=117, 9=165, 8=117.
 - 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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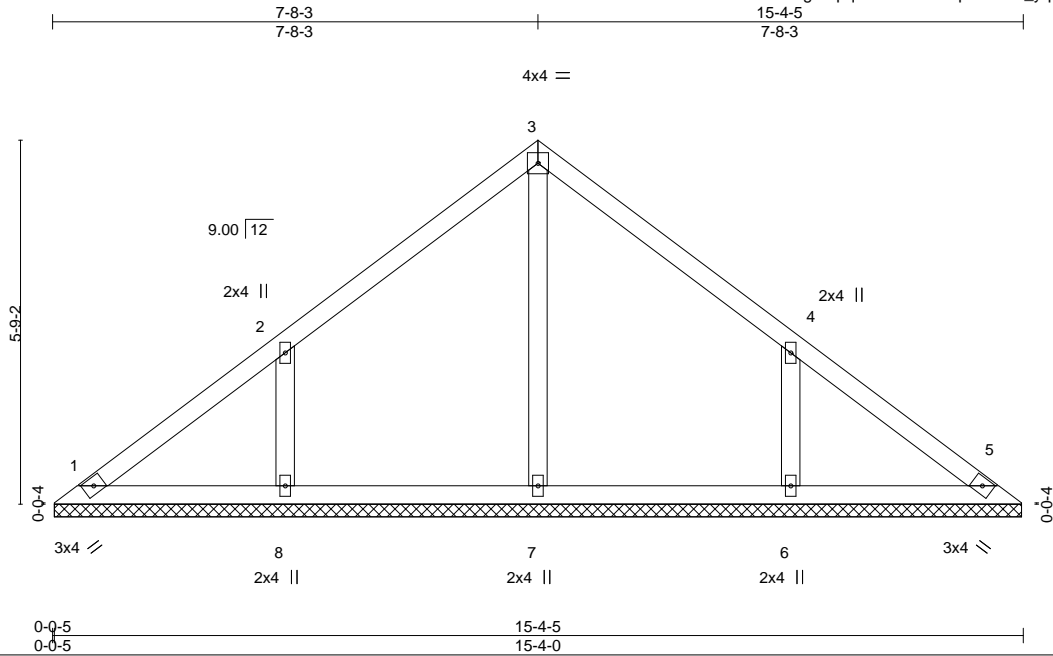
818 Soundside Road
Edenton, NC 27932

Job 28170-28170A	Truss V8	Truss Type Valley	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525167
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84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:40 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-6pqs3feuH72eTCp6DVDD_yq5hhxPoQSTKrN_j9ymMJf



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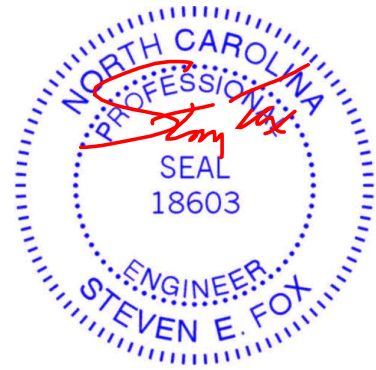
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.25	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.10	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 64 lb	FT = 20%
	Code IRC2015/TPI2014							

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

REACTIONS. All bearings 15-3-11.
 (lb) - Max Horz 1=-134(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-162(LC 12), 6=-162(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=368(LC 19), 6=368(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-284/205, 4-6=-284/204

- 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 except (jt=lb) 8=162, 6=162.
 - 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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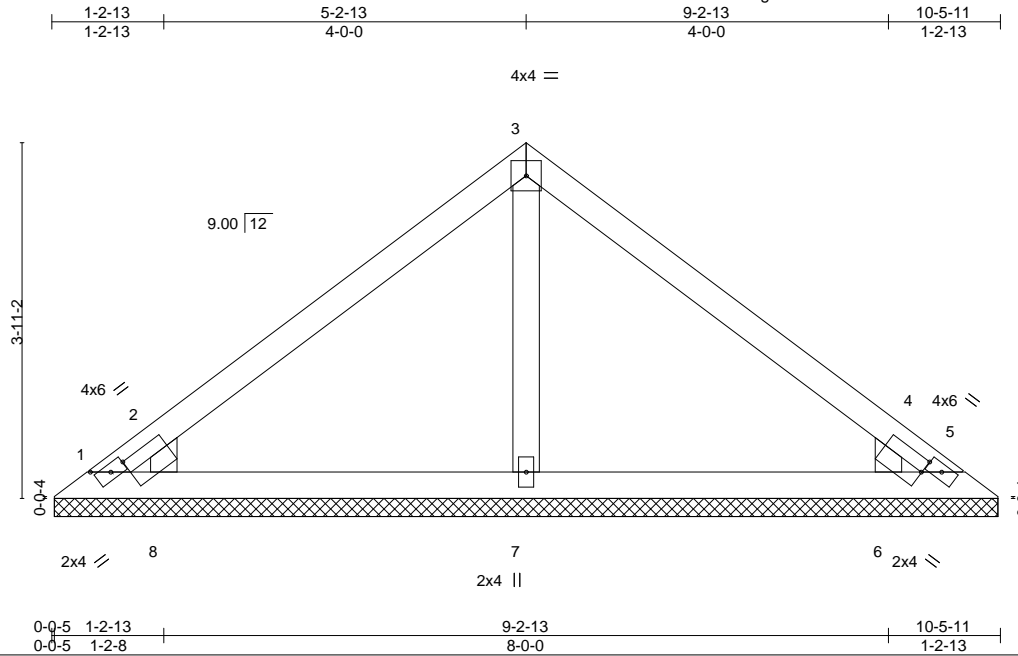
Job 28170-28170A	Truss V9	Truss Type Valley	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525168
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84 Components (Dunn),

Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:41 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-a?OEG?fx2RAV4LOInDkSWANGH5FCXt8cZV7YFbymMJe



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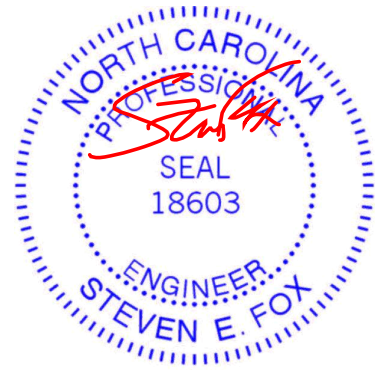
Plate Offsets (X,Y)--	[2:0-4-4,0-1-8], [4:0-0-1,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.20	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 39 lb	FT = 20%

LUMBER-	BRACING-
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.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 10-5-0.
 (lb) - Max Horz 1--89(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) except 1--121(LC 19), 5--107(LC 20), 6--169(LC 13), 8--169(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7--253(LC 1), 6--364(LC 20), 8--364(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-6--307/226, 2-8--307/226

- 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 121 lb uplift at joint 1, 107 lb uplift at joint 5, 169 lb uplift at joint 6 and 169 lb uplift at joint 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.



August 19, 2021

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Job 28170-28170A	Truss V10	Truss Type Valley	Qty 1	Ply 1	Huntington A 1546 Job Reference (optional)	147525169
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84 Components (Dunn), Dunn, NC - 28334,

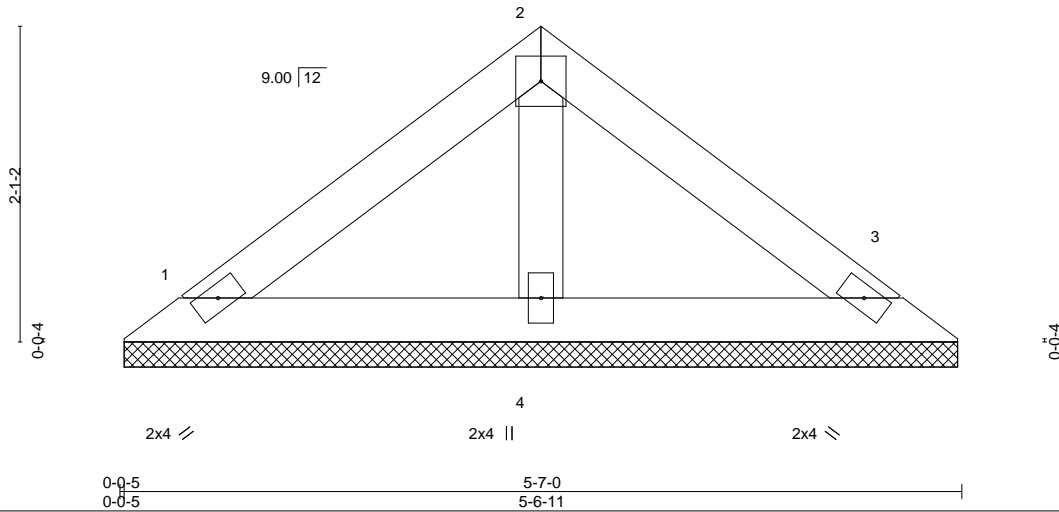
8.510 s Jun 18 2021 MiTek Industries, Inc. Thu Aug 19 07:05:33 2021 Page 1

ID:HQzvBvHPD22FQ9eQE7soz6zcfgh-pTvDbGZVxzAe77mJXbaBU2wtY_fGvRjFB7z3ymMJm



4x4 =

Scale = 1:15.3



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 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 19 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 5-7-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-6-5, 3=5-6-5, 4=5-6-5
 Max Horz 1=44(LC 9)
 Max Uplift 1=22(LC 12), 3=28(LC 13)
 Max Grav 1=104(LC 1), 3=104(LC 1), 4=169(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.



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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

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: MII-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. Rewriting 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.