

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 28998-28998A
1 Goose Creek Stanton Special

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: I48329892 thru I48329905

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

North Carolina COA: C-0844



October 14, 2021

Sevier, Scott

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.

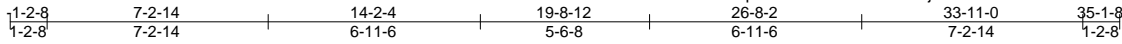
Job 28998-28998A	Truss A	Truss Type Piggyback Base	Qty 6	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329892
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:06 2021 Page 1

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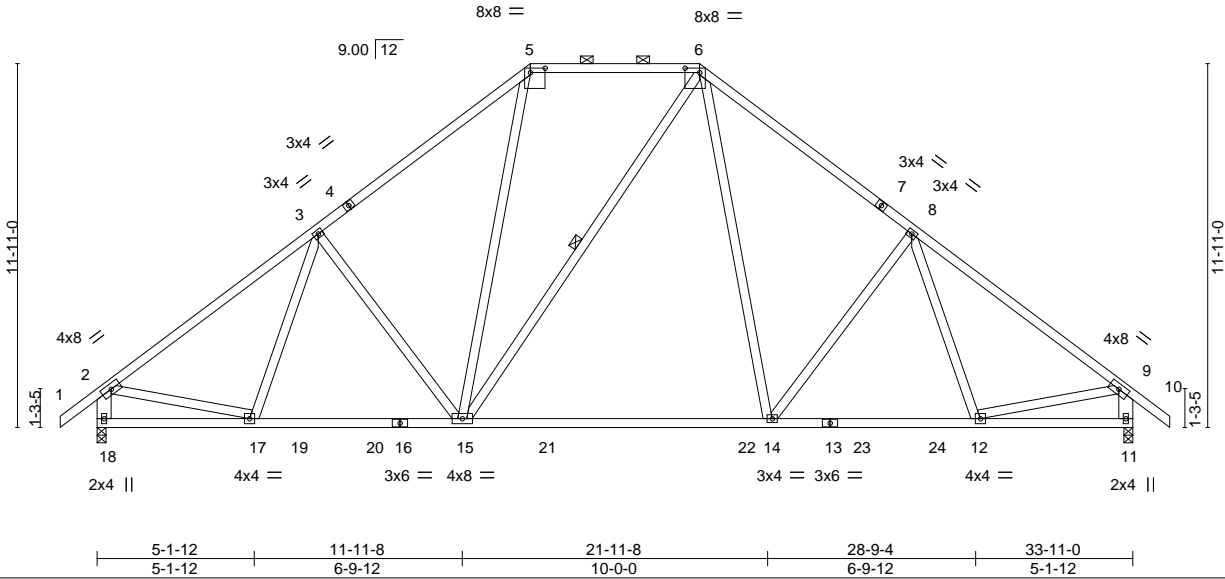


Plate Offsets (X,Y)--	[5:0-5-12,0-1-12], [6:0-5-12,0-1-12]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.35 14-15 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.57 14-15 >708 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.04 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 231 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-8 max.): 5-6.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 13-16: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-15: 2x4 SP No.2 or 2x4 SPF No.2, 2-18,9-11: 2x6 SP No.2	WEBS 1 Row at midpt 6-15

REACTIONS. (size) 18=0-3-8, 11=0-3-8
 Max Horz 18=327(LC 11)
 Max Uplift 18=148(LC 12), 11=148(LC 13)
 Max Grav 18=1425(LC 1), 11=1427(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1579/302, 3-5=-1463/407, 5-6=-975/375, 6-8=-1482/407, 8-9=-1592/302,
 2-18=-1375/307, 9-11=-1378/307
 BOT CHORD 17-18=-335/433, 15-17=-163/1381, 14-15=0/1014, 12-14=-104/1229, 11-12=-111/272
 WEBS 3-15=-380/276, 5-15=-83/567, 6-14=-114/651, 8-14=-380/275, 2-17=-6/1052,
 9-12=-6/1061

- 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, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 11. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



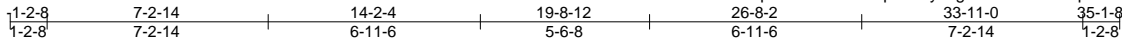
Job 28998-28998A	Truss A2	Truss Type Piggyback Base	Qty 3	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329894
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:09 2021 Page 1

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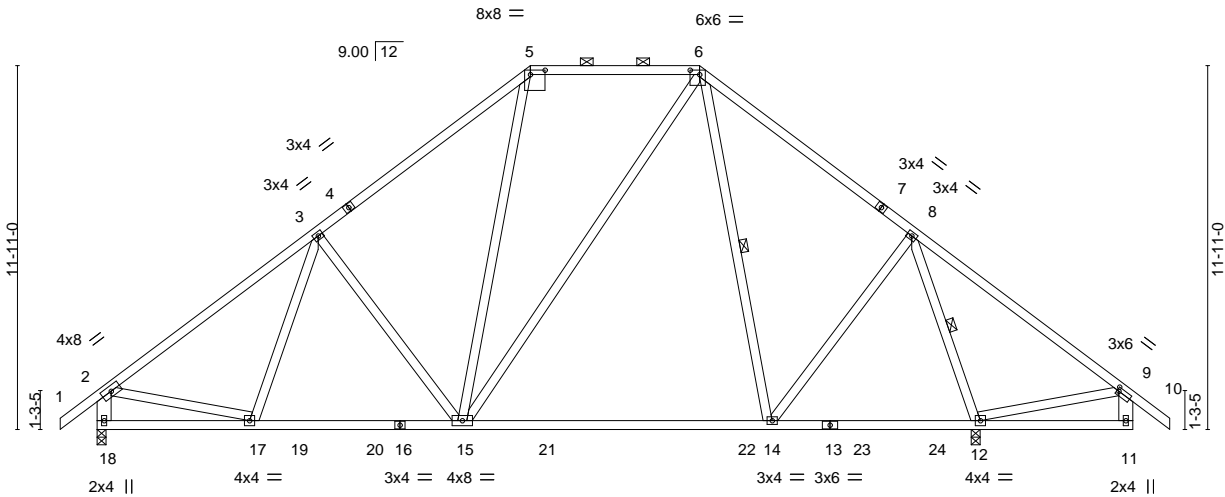


Plate Offsets (X,Y)--	[5:0-5-12,0-1-12], [6:0-3-12,0-1-12], [9:0-0-12,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	-0.38	14-15	>891	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.61	14-15	>566		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.02	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 231 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
WEBS 2x4 SP No.3 *Except*
6-15: 2x4 SP No.2 or 2x4 SPF No.2, 2-18,9-11: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 14-15.
WEBS 1 Row at midpt 6-14, 8-12

REACTIONS. (size) 18=0-3-8, 12=0-3-8
Max Horz 18=327(LC 11)
Max Uplift 18=-139(LC 12), 12=-173(LC 13)
Max Grav 18=1187(LC 19), 12=1670(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1266/221, 3-5=-1102/321, 5-6=-749/316, 6-8=-810/248, 8-9=-219/506, 2-18=-1142/250
BOT CHORD 17-18=-335/431, 15-17=-159/1131, 14-15=-41/632, 12-14=0/262
WEBS 3-15=-407/277, 5-15=-42/350, 6-15=-124/377, 8-14=-32/592, 8-12=-1529/422, 2-17=0/801, 9-12=-489/409

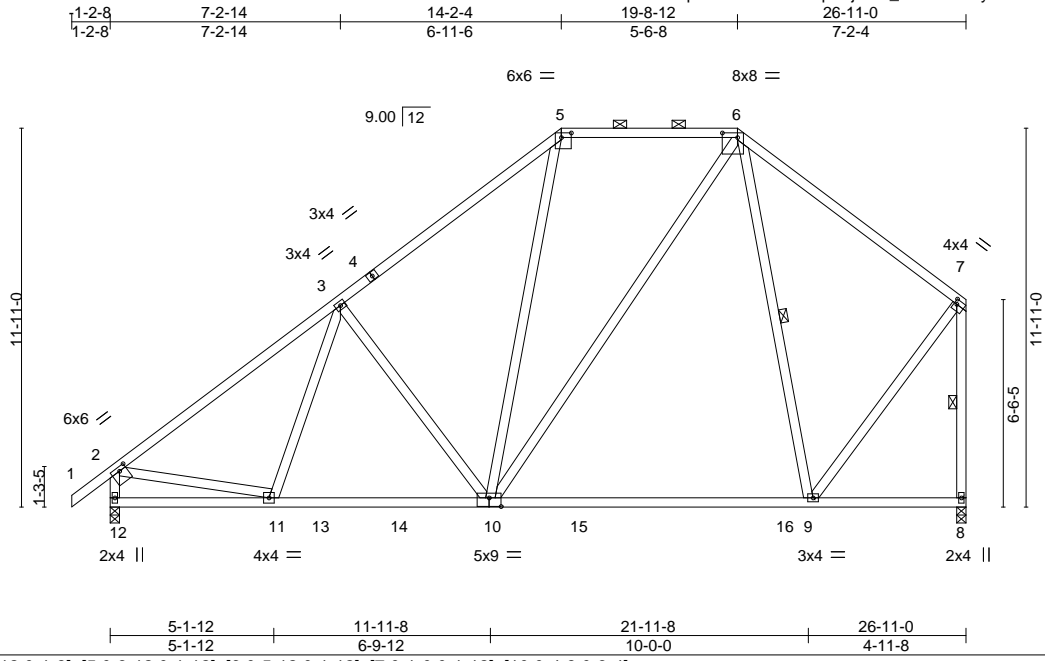
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 12. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 28998-28998A	Truss A3	Truss Type Piggyback Base	Qty 1	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329895
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:10 2021 Page 1
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Scale = 1:72.5

Plate Offsets (X,Y)--	[2:0-2-12,0-1-8], [5:0-3-12,0-1-12], [6:0-5-12,0-1-12], [7:0-1-0,0-1-12], [10:0-4-8,0-3-4]
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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	1.15	TC 0.82	Vert(LL)	-0.40	9-10	>807	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.62	9-10	>516		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 195 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x4 SP No.2 or 2x4 SPF 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 6-9, 7-8
6-10: 2x4 SP No.2 or 2x4 SPF No.2	

REACTIONS. (size) 12=0-3-8, 8=0-3-8
 Max Horz 12=384(LC 9)
 Max Uplift 12=130(LC 12), 8=78(LC 12)
 Max Grav 12=1148(LC 1), 8=1081(LC 2)

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

TOP CHORD	2-3=-1229/234, 3-5=-1046/336, 5-6=-711/325, 6-7=-674/261, 2-12=-1098/255, 7-8=-1097/218
BOT CHORD	11-12=-443/515, 10-11=-360/1074, 9-10=-153/538
WEBS	3-10=-427/281, 5-10=-45/336, 6-10=-135/433, 6-9=-357/182, 2-11=0/775, 7-9=-76/751

- 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 8. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 14, 2021

Job 28998-28998A	Truss A4	Truss Type ROOF TRUSS	Qty 6	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329896
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:12 2021 Page 1

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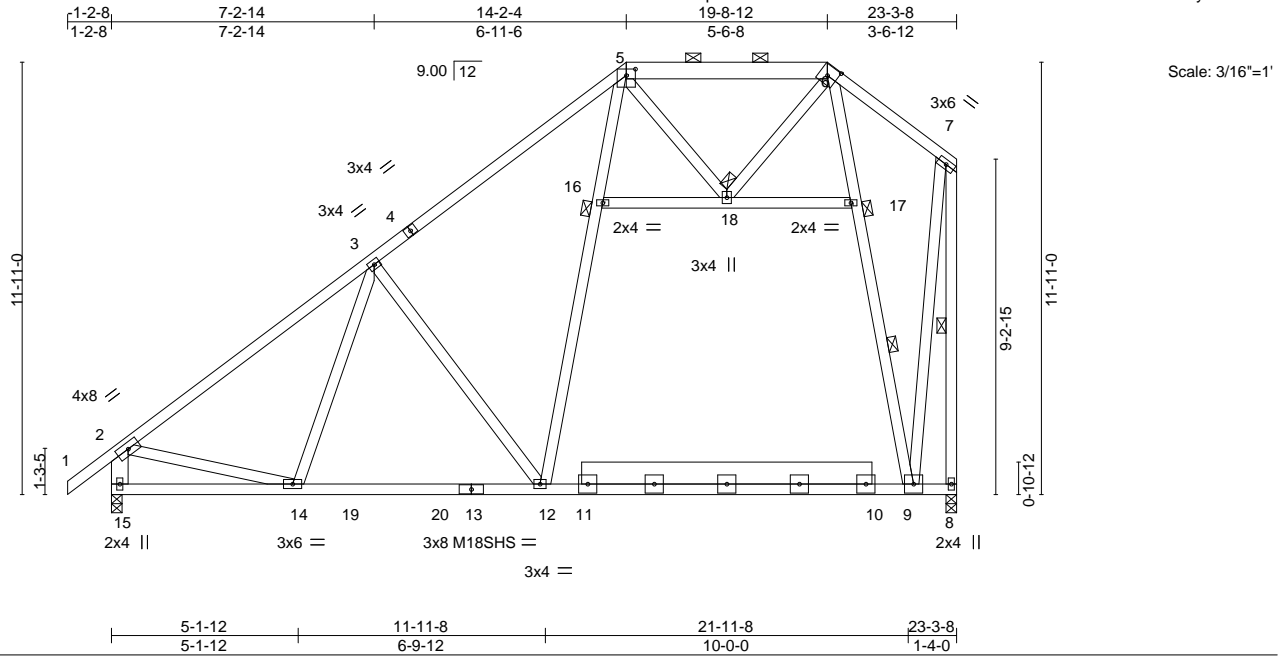


Plate Offsets (X, Y)--	[5:0-3-0,0-2-2], [6:0-3-4,0-3-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) 0.52 12-14 >528 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.89 12-14 >311 180	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(CT) 0.01 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 222 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 5-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 10-11: 2x8 SP No.2, 8-13: 2x4 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-12,6-9: 2x4 SP DSS, 2-15: 2x6 SP No.2	WEBS 1 Row at midpt 9-17, 7-8
	JOINTS 1 Brace at Jt(s): 16, 17, 18

REACTIONS. (size) 15=0-3-8, 8=0-3-8
 Max Horz 15=369(LC 12)
 Max Uplift 15=-82(LC 12), 8=-134(LC 12)
 Max Grav 15=1028(LC 20), 8=999(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1099/136, 3-5=-797/198, 5-6=-371/190, 2-15=-1021/179, 7-8=-1578/337
 BOT CHORD 14-15=-463/423, 12-14=-304/870, 9-12=-95/378
 WEBS 3-12=-511/302, 12-16=-94/610, 5-16=-80/562, 6-17=-589/197, 9-17=-628/210,
 2-14=0/711, 7-9=-275/1508, 6-18=-119/400, 5-18=-401/120

- 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 exposed; end vertical left 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.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 6x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 8. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



October 14, 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 28998-28998A	Truss A4E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329897
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:13 2021 Page 1

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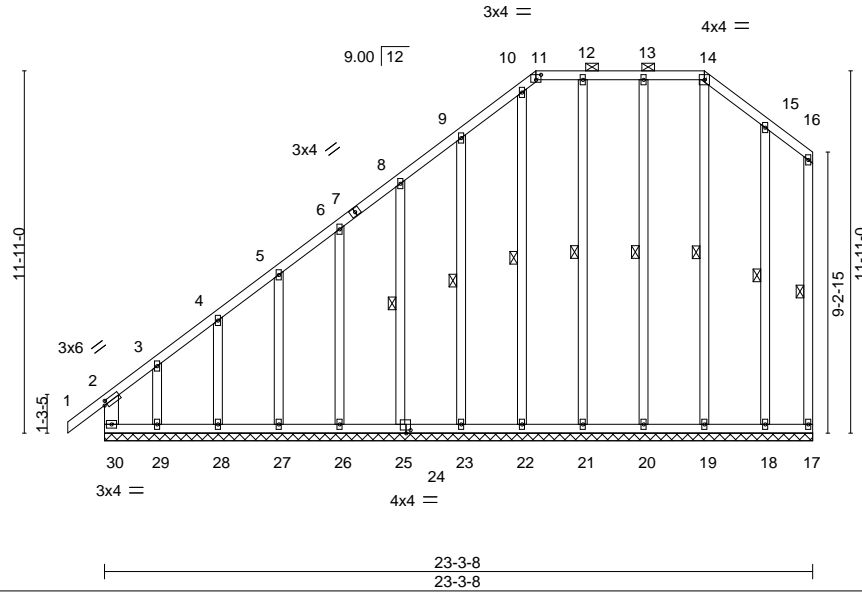


Plate Offsets (X,Y)--	[2:0-1-2,0-1-8], [11:0-2-0,0-2-0], [24:0-1-12,0-1-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.00	1	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	-0.00	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 227 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 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 (6-0-0 max.): 11-14.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.2 *Except*	WEBS 1 Row at midpt 16-17, 14-19, 13-20, 12-21, 10-22, 9-23, 8-25, 15-18
OTHERS 16-17: 2x4 SP No.3 2x4 SP No.3	

REACTIONS. All bearings 23-3-8.
 (lb) - Max Horz 30=370(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 20, 21, 22, 23, 25, 26, 27, 28, 18 except 30=208(LC 10), 29=431(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 17, 19, 20, 21, 22, 23, 25, 26, 27, 28, 18 except 30=519(LC 12), 29=297(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-30=-369/259, 2-3=-518/360, 3-4=-336/230, 4-5=-282/185
 WEBS 3-29=-257/285

- 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; end vertical left 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * 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.
 - 11) N/A
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 14, 2021

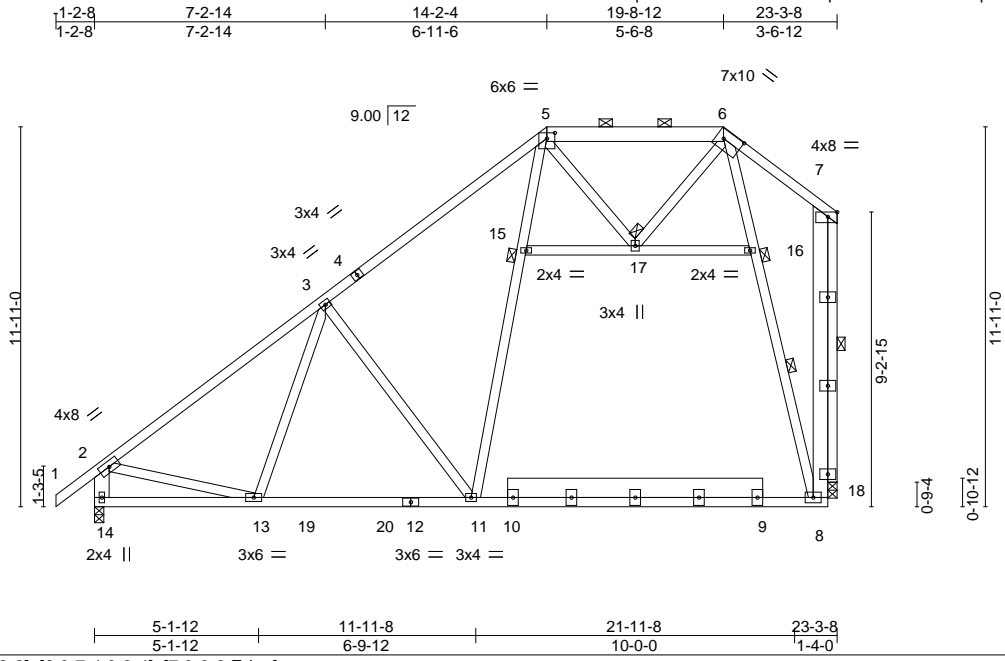
Job 28998-28998A	Truss A5	Truss Type ROOF TRUSS	Qty 1	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329898
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:15 2021 Page 1

ID:PmZ7endumWsnd8upX8M2J9zaRXr-emz0m?qQMwNBA12?FdYaq5JvT?I3?AWbUUdHXdyTtkk



Scale = 1:72.3

Plate Offsets (X,Y)--	[5:0-3-0,0-2-2], [6:0-7-4,0-3-4], [7:0-3-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) 0.48 11-13 >574 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.76 11-13 >363 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.84	Horz(CT) -0.04 18 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 229 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 5-6: 2x6 SP No.2, 6-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 9-10: 2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-7-3 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-11,6-8: 2x4 SP DSS, 2-14,7-8: 2x6 SP No.2	WEBS 1 Row at midpt 8-16, 7-18
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 15, 16, 17

REACTIONS. (size) 14=0-3-8, 18=0-3-8
 Max Horz 14=375(LC 12)
 Max Uplift 14=80(LC 12), 18=137(LC 12)
 Max Grav 14=1005(LC 1), 18=884(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1046/129, 3-5=-772/196, 5-6=-341/179, 2-14=-978/172, 7-8=-199/926
 BOT CHORD 13-14=-471/436, 11-13=-308/799, 8-11=-103/373
 WEBS 3-11=-503/298, 11-15=-106/559, 5-15=-92/516, 6-16=-766/243, 8-16=-831/263,
 2-13=0/631, 16-17=-268/85, 6-17=-128/398, 5-17=-398/129, 7-18=-885/220

- 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) All plates are 4x6 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 18. This connection is for uplift only and does not consider lateral forces.
 - 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.



October 14, 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/TPI 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 28998-28998A	Truss A6	Truss Type ROOF TRUSS	Qty 3	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329899
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:17 2021 Page 1

ID:PmZ7endumWsnd8upX8M2J9zaRXr-a95mBhrhu81uQLCON2a2vWPGppNWT6Buxo6ObWyTtki

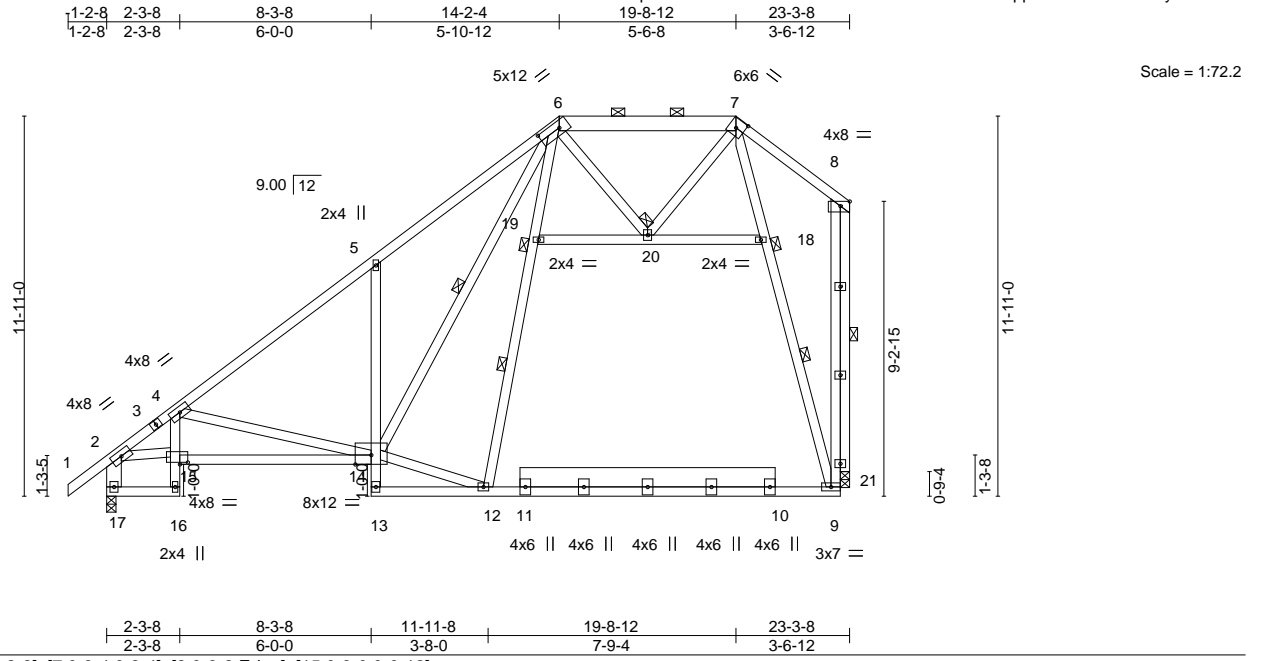


Plate Offsets (X, Y)--	[6:0-8-4,0-2-8], [7:0-3-4,0-3-4], [8:0-3-8,Edge], [15:0-3-0,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.80	Vert(LL) 0.43 12 >644 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.82	Vert(CT) -0.67 12 >408 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) -0.04 21 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 240 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 6-7: 2x6 SP No.2, 7-8: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 4-16,5-13: 2x4 SP No.3, 10-11: 2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-12,7-9: 2x4 SP DSS, 2-17: 2x6 SP No.2	WEBS 1 Row at midpt 6-14, 12-19, 9-18, 8-21
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 18, 19, 20
REACTIONS. (size) 17=0-3-8, 21=0-3-8 Max Horz 17=374(LC 12) Max Uplift 17=-81(LC 12), 21=-136(LC 12) Max Grav 17=1005(LC 1), 21=891(LC 1)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1407/323, 4-5=-1113/192, 5-6=-1151/411, 6-7=-333/179, 2-17=-965/220, 8-9=-193/919
BOT CHORD 14-15=-695/1395, 5-14=-491/333, 9-12=-101/366
WEBS 4-14=-598/399, 12-14=-47/362, 6-14=-468/979, 2-15=-400/1112, 7-18=-759/240, 9-18=-824/259, 18-20=-253/81, 7-20=-124/372, 6-20=-373/125, 8-21=-891/220

- 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) All plates are 3x4 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Bearing at joint(s) 21 considers parallel to grain value using ANS/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 21. This connection is for uplift only and does not consider lateral forces.
 - 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.



October 14, 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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TRENCO
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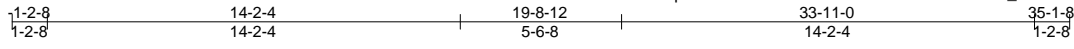
818 Soundside Road
Edenton, NC 27932

Job 28998-28998A	Truss AE	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329900
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:19 2021 Page 1

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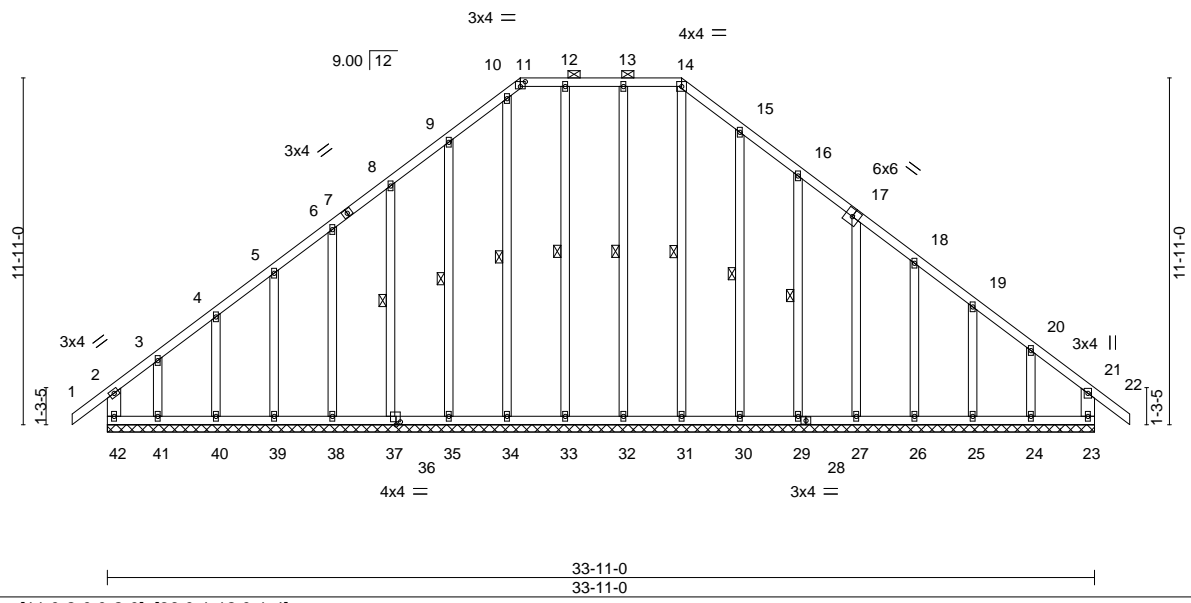


Plate Offsets (X, Y)--	[11:0-2-0,0-2-0], [36:0-1-12,0-1-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.01	22	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01	22	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	23	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 294 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 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.): 11-14.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.2	WEBS 1 Row at midpt 14-31, 13-32, 12-33, 10-34, 9-35, 8-37, 15-30, 16-29
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 33-11-0.
 (lb) - Max Horz 42=-327(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 35, 37, 38, 39, 40, 30, 29, 27, 26, 25 except 42=-229(LC 8), 23=-111(LC 9), 41=-219(LC 12), 24=-180(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 23, 31, 32, 33, 34, 35, 37, 38, 39, 40, 30, 29, 27, 26, 25, 24 except 42=308(LC 20), 41=286(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-256/253, 6-8=-197/253, 8-9=-253/303, 9-10=-323/385, 10-11=-257/303, 11-12=-273/334, 12-13=-273/334, 13-14=-273/334, 14-15=-325/388, 15-16=-269/323, 16-17=-210/252

- 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * 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.
 - 11) N/A
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 14, 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

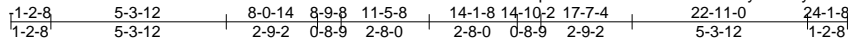
818 Soundside Road
Edenton, NC 27932

Job 28998-28998A	Truss B	Truss Type ATTIC	Qty 6	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329901
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:21 2021 Page 1

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6x6 =

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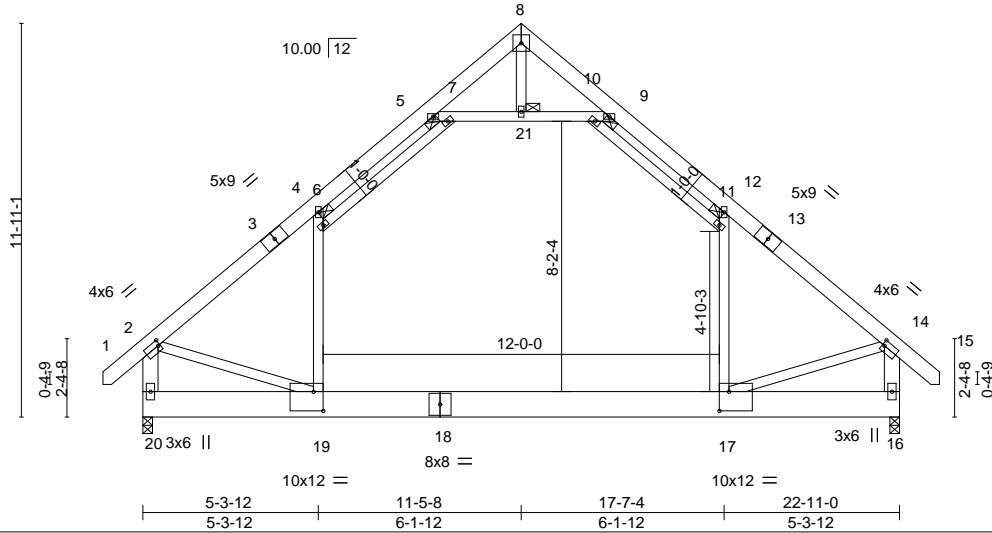


Plate Offsets (X, Y)--	[2:0-0-12,0-2-0], [14:0-0-12,0-2-0], [17:0-3-8,0-7-0], [19:0-3-8,0-7-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.28 17-19	>976	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.42 17-19	>635	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.01 16	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.16 17-19	901	360	Weight: 233 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 6-7,10-11: 2x4 SP No.2 or 2x4 SPF No.2, 1-3,13-15: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except* 8-21,2-19,14-17: 2x4 SP No.3, 2-20,14-16: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 21, 6, 7, 10, 11

REACTIONS. (size) 20=0-3-8, 16=0-3-8
 Max Horz 20=-326(LC 10)
 Max Grav 20=1424(LC 20), 16=1424(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1512/7, 4-5=-1072/163, 9-12=-1071/163, 12-14=-1512/7, 2-20=-1508/57, 14-16=-1509/58
 BOT CHORD 19-20=-291/461, 17-19=0/1040
 WEBS 11-17=0/675, 11-12=-11/618, 6-19=0/675, 4-6=-11/618, 5-7=-1295/195, 7-21=-1180/190, 10-21=-1180/190, 9-10=-1295/195, 2-19=0/911, 14-17=0/914

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



October 14, 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

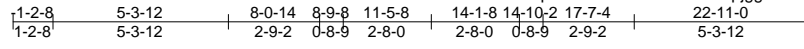
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 28998-28998A	Truss B1	Truss Type ATTIC	Qty 4	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329902
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:22 2021 Page 1

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6x6 =

Scale = 1:69.8

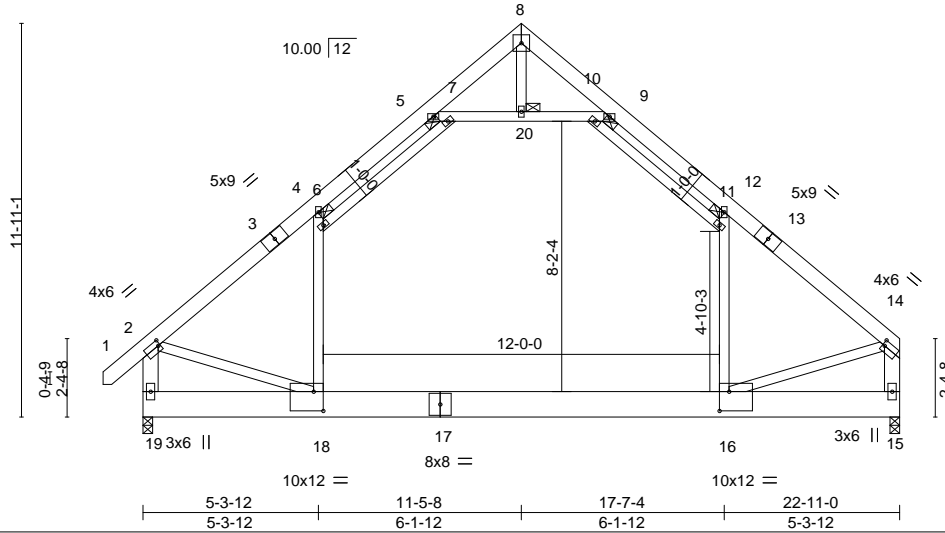


Plate Offsets (X,Y)--	[2:0-0-12,0-2-0], [14:0-0-12,0-2-0], [16:0-3-8,0-7-0], [18:0-3-8,0-7-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.28	16-18	>969	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.43	16-18	>629		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.01	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.16	16-18	897	Weight: 230 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 6-7,10-11: 2x4 SP No.2 or 2x4 SPF No.2, 1-3,13-14: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except* 8-20,2-18,14-16: 2x4 SP No.3, 2-19,14-15: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 20, 6, 7, 10, 11

REACTIONS.	(size) 19=0-3-8, 15=0-3-8 Max Horz 19=317(LC 9) Max Grav 19=1426(LC 20), 15=1351(LC 20)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-1517/5, 4-5=-1074/163, 9-12=-1079/162, 12-14=-1500/0, 2-19=-1514/56, 14-15=-1454/2
BOT CHORD	18-19=-301/448, 16-18=0/1030
WEBS	11-16=-17/648, 11-12=-33/589, 6-18=0/680, 4-6=-8/622, 5-7=-1304/194, 7-20=-1190/188, 10-20=-1190/188, 9-10=-1308/193, 2-18=0/913, 14-16=0/962

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-12, 5-7, 7-20, 10-20, 9-10; Wall dead load (5.0psf) on member(s).11-16, 11-12, 6-18, 4-6
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-18
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Attic room checked for L/360 deflection.



October 14, 2021

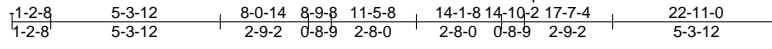
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 28998-28998A	Truss B1A	Truss Type ATTIC	Qty 1	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329903
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:24 2021 Page 1

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6x6 =

Scale = 1:72.2

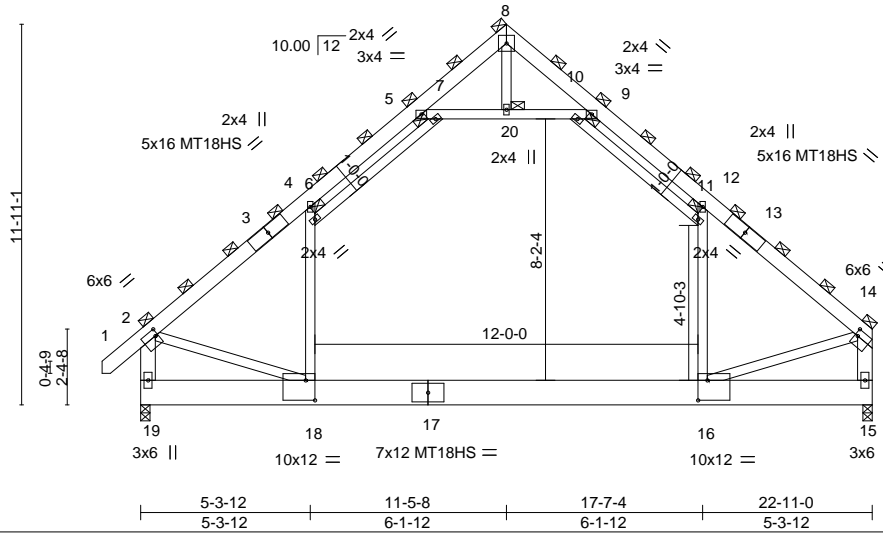


Plate Offsets (X, Y)-- [2:0-1-0,0-2-8], [14:0-1-0,0-2-8], [16:0-3-8,0-7-8], [18:0-3-8,0-7-8]

LOADING (psf)	SPACING-	3-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.36	16-18	>755	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.55	16-18	>486	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.54	Horz(CT)	0.01	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.20	16-18	745		
								Weight: 230 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP DSS *Except*
6-7,10-11: 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except*
8-20,2-18,14-16: 2x4 SP No.3, 2-19,14-15: 2x6 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (4-5-2 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.
JOINTS 1 Brace at Jt(s): 8, 20, 2, 14, 6, 7, 10, 11

REACTIONS. (size) 19=0-3-8, 15=0-3-8
Max Horz 19=476(LC 9)
Max Grav 19=2140(LC 20), 15=2026(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2247/12, 4-5=-1570/241, 5-8=-149/294, 8-9=-151/291, 9-12=-1575/240,
12-14=-2225/9, 2-19=-2239/84, 14-15=-2150/3
BOT CHORD 18-19=-438/669, 16-18=0/1522
WEBS 11-16=-44/953, 11-12=-54/873, 6-18=-14/993, 4-6=-21/913, 5-7=-1886/285,
7-20=-1734/278, 10-20=-1734/278, 9-10=-1889/284, 2-18=0/1331, 14-16=0/1395

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 9-12, 5-7, 7-20, 10-20, 9-10; Wall dead load (5.0psf) on member(s). 11-16, 11-12, 6-18, 4-6
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-18
 - 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.



October 14, 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



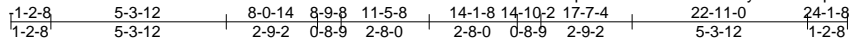
818 Soundside Road
Edenton, NC 27932

Job 28998-28998A	Truss BE	Truss Type GABLE	Qty 1	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329904
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:25 2021 Page 1

ID:PmZ7endumWsnd8upX8M2J9zaRXr-LiaotQyi0b2mNZpwrkkwEckd114aLqG3n22pt2yTtka



6x6 =

Scale = 1:69.8

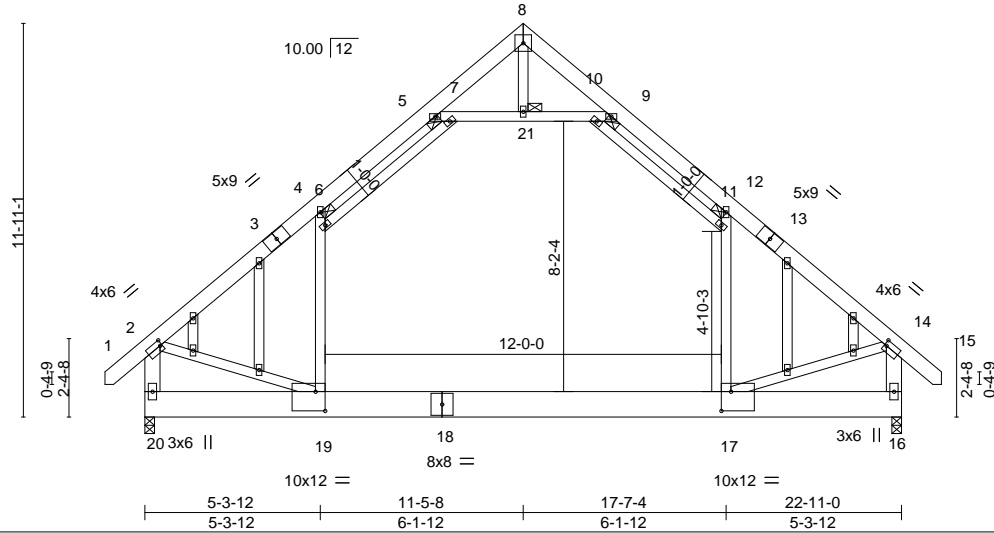


Plate Offsets (X,Y)--	[2:0-0-12,0-2-0], [14:0-0-12,0-2-0], [17:0-3-8,0-7-0], [19:0-3-8,0-7-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) -0.28 17-19 >976 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Vert(CT) -0.42 17-19 >635 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 16 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.16 17-19 901 360	Weight: 246 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 6-7,10-11: 2x4 SP No.2 or 2x4 SPF No.2, 1-3,13-15: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except* 8-21,2-19,14-17: 2x4 SP No.3, 2-20,14-16: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 21, 6, 7, 10, 11
OTHERS 2x4 SP No.3	

REACTIONS. (size) 20=0-3-8, 16=0-3-8
 Max Horz 20=326(LC 10)
 Max Grav 20=1424(LC 20), 16=1424(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1512/7, 4-5=-1072/163, 9-12=-1071/163, 12-14=-1512/7, 2-20=-1508/57,
 14-16=-1509/58
 BOT CHORD 19-20=-291/461, 17-19=0/1040
 WEBS 11-17=0/675, 11-12=-11/618, 6-19=0/675, 4-6=-11/618, 5-7=-1295/195, 7-21=-1180/190,
 10-21=-1180/190, 9-10=-1295/195, 2-19=0/911, 14-17=0/914

- 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.
 - 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). 4-5, 9-12, 5-7, 7-21, 10-21, 9-10; Wall dead load (5.0psf) on member(s).11-17, 11-12, 6-19, 4-6
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-19
 - 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.



October 14, 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 28998-28998A	Truss PB2	Truss Type Piggyback	Qty 26	Ply 1	1 Goose Creek Stanton Special Job Reference (optional)	148329905
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84 Components (Dunn), Dunn, NC - 28334,

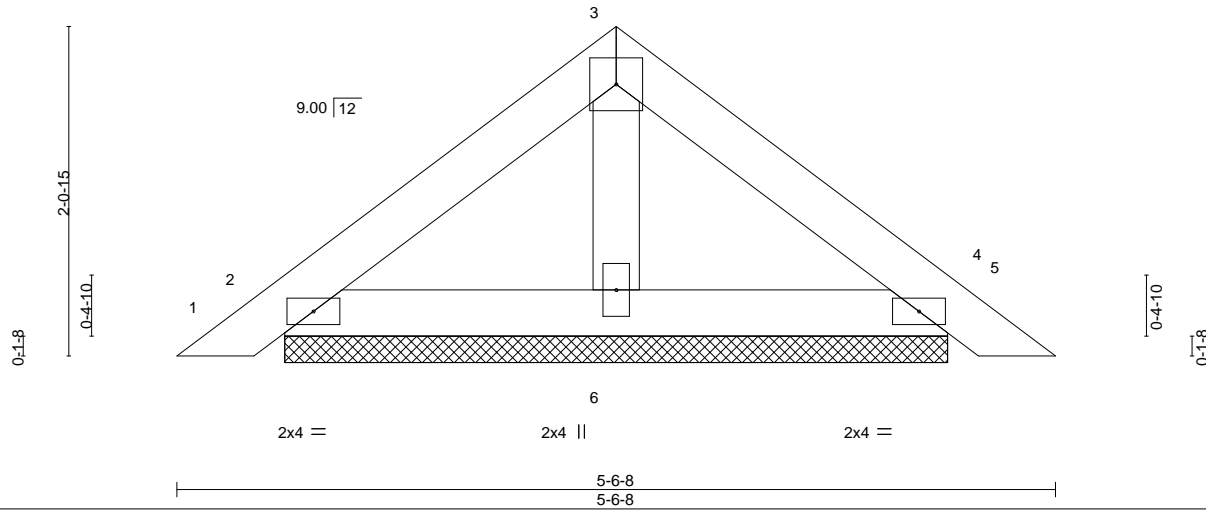
8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Oct 13 08:36:26 2021 Page 1

ID:PmZ7endumWsnd8upX8M2J9zaRr-pu8A4myKnuAd?jO7ORF9mPHzwRej4M6C0ioMPUyTtkZ



4x4 =

Scale = 1:14.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL)	0.00	5	n/r	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 18 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 5-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-2-3, 4=4-2-3, 6=4-2-3
Max Horz 2=-47(LC 10)
Max Uplift 2=-31(LC 12), 4=-37(LC 13)
Max Grav 2=122(LC 1), 4=122(LC 1), 6=143(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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 14, 2021

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

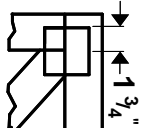
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



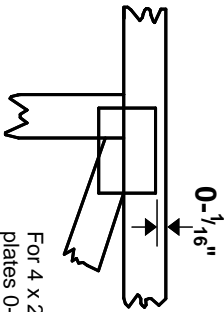
818 Soundside Road
Edenton, NC 27932

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

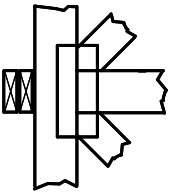
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



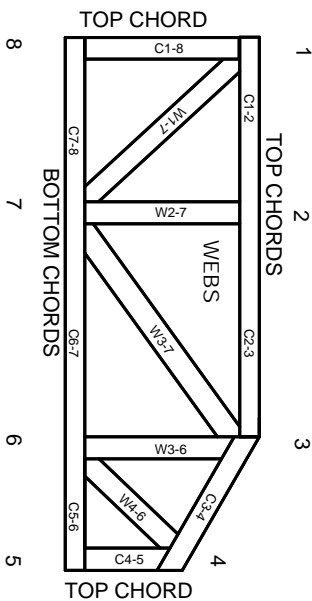
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP 1: 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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.