

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: 22070021  
DRB GROUP - 125 FaNC

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I53063115 thru I53063131

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



July 14, 2022

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Gilbert, Eric

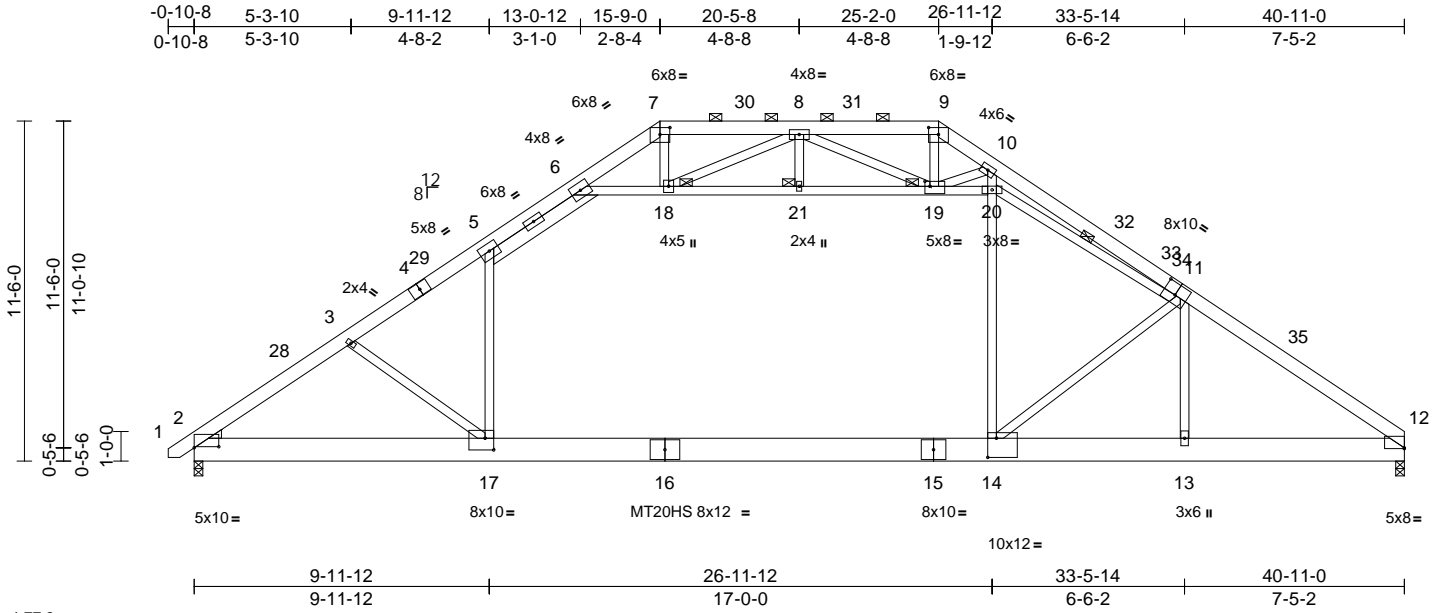
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes),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

Job 22070021	Truss A01	Truss Type Attic	Qty 10	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063115
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:19:52  
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Page: 1



Scale = 1:77.9

Plate Offsets (X, Y): [2:0-10-0,0-0-7], [7:0-4-0,0-2-13], [9:0-4-0,0-2-13], [11:0-5-0,0-4-8], [12:Edge,0-0-5], [14:0-3-8,0-7-12], [17:0-3-8,0-4-12], [19:0-2-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.48	14-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.73	14-17	>670	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.04	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.34	14-17	>607	360		
BCDL	10.0											
										Weight: 391 lb	FT = 20%	

**LUMBER**  
TOP CHORD 2x6 SP No.2 \*Except\* 4-7,9-11:2x6 SP 2400F 2.0E  
BOT CHORD 2x10 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\* 6-20:2x4 SP No.2, 5-6:2x6 SP No.2  
WEDGE Left: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-1-8 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 11-20  
JOINTS 1 Brace at Jt(s): 18, 19, 21

**REACTIONS** (lb/size) 2=1947/0-3-8, 12=1865/0-3-8  
Max Horiz 2=255 (LC 13)  
Max Grav 2=2382 (LC 46), 12=2204 (LC 36)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/23, 2-3=-3843/0, 3-5=-3553/0, 5-6=-2765/47, 6-7=-885/207, 7-8=-615/233, 8-9=-1166/202, 9-10=-1366/203, 10-12=-3246/204  
BOT CHORD 2-17=-106/3235, 14-17=0/2745, 13-14=0/2637, 12-13=0/2618  
WEBS 3-17=-624/205, 5-17=0/1207, 14-20=0/1447, 10-20=0/1419, 11-14=-492/506, 11-13=-580/66, 6-18=-2787/0, 18-21=-2211/0, 19-21=-2211/0, 19-20=-1265/526, 7-18=-14/544, 9-19=-29/600, 8-18=-1054/104, 8-19=-446/377, 10-19=-1710/108, 11-20=-1397/565, 8-21=0/56

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-3 to 3-4-15, Interior (1) 3-4-15 to 9-11-9, Exterior(2R) 9-11-9 to 30-11-7, Interior (1) 30-11-7 to 36-9-14, Exterior(2E) 36-9-14 to 40-11-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s) 5-6, 6-18, 18-21, 19-21, 19-20; Wall dead load (5.0psf) on member(s) 5-17, 14-20
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-17
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 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.
- LOAD CASE(S)** Standard



July 14, 2022

**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



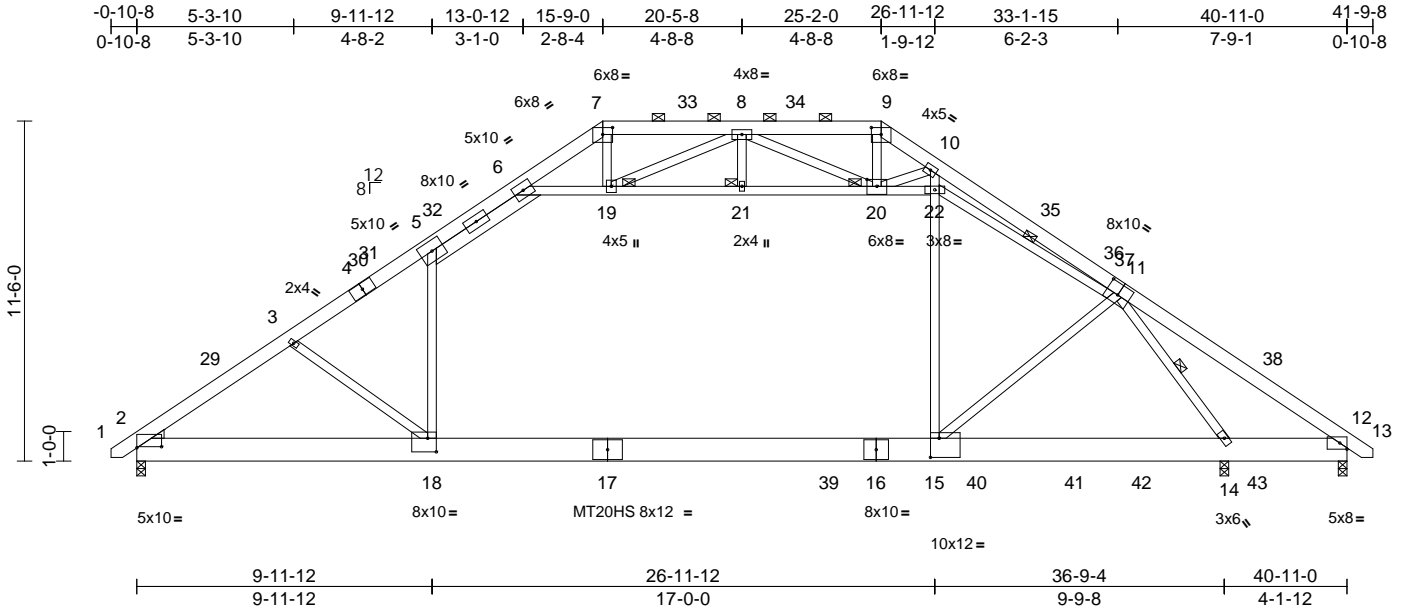
818 Soundside Road  
Edenton, NC 27932

Job 22070021	Truss A02	Truss Type Attic	Qty 2	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063116
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:19:57  
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Page: 1



Scale = 1:77.9

Plate Offsets (X, Y): [2:0-10-0,0-0-7], [7:0-4-0,0-2-13], [9:0-4-0,0-2-13], [11:0-5-0,0-4-8], [15:0-3-8,0-7-12], [18:0-3-8,0-5-8], [20:0-4-0,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.49	15-18	>897	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.77	15-18	>577	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.04	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.35	15-18	>578	360		
BCDL	10.0											
											Weight: 395 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP 2400F 2.0E *Except* 7-9:2x6 SP No.2
BOT CHORD	2x10 SP 2400F 2.0E
WEBS	2x4 SP No.3 *Except* 6-22:2x4 SP No.2, 5-6:2x6 SP No.2
WEDGE	Left: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-4-4 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 11-14, 11-22
JOINTS	1 Brace at Jt(s): 19, 20, 21
REACTIONS	
(lb/size)	2=1902/0-3-8, 12=929/0-3-8, 14=1222/0-3-8
Max Horiz	2=258 (LC 13)
Max Uplift	12=-510 (LC 14), 14=-1 (LC 10)
Max Grav	2=2498 (LC 48), 12=1342 (LC 36), 14=2116 (LC 38)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/23, 2-3=-3853/0, 3-5=-3538/0, 5-6=-2702/19, 6-7=-875/208, 7-8=-627/241, 8-9=-896/62, 9-10=-1083/65, 10-12=-2229/755, 12-13=0/23
BOT CHORD	2-18=-105/3334, 15-18=0/2785, 14-15=-101/2348, 12-14=-545/1387
WEBS	3-18=-692/200, 5-18=0/1336, 15-22=0/1353, 10-22=0/914, 11-15=0/779, 11-14=-2477/0, 6-19=-2832/0, 19-21=-2314/0, 20-21=-2314/0, 20-22=-1327/415, 7-19=0/482, 9-20=0/503, 8-21=0/56, 8-19=-918/16, 8-20=-535/294, 10-20=-1248/0, 11-22=-1478/448

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-3 to 3-0-2, Interior (1) 3-0-2 to 10-6-6, Exterior(2R) 10-6-6 to 30-4-10, Interior (1) 30-4-10 to 37-10-14, Exterior(2E) 37-10-14 to 41-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 200.0lb AC unit load placed on the bottom chord, 25-11-0 from left end, supported at two points, 5-0-0 apart.
  - Provide adequate drainage to prevent water ponding.
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Ceiling dead load (5.0 psf) on member(s). 5-6, 6-19, 19-21, 20-21, 20-22; Wall dead load (5.0psf) on member(s). 5-18, 15-22
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-18

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 12. This connection is for uplift only and does not consider lateral forces.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 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.
- LOAD CASE(S)** Standard



July 14, 2022

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



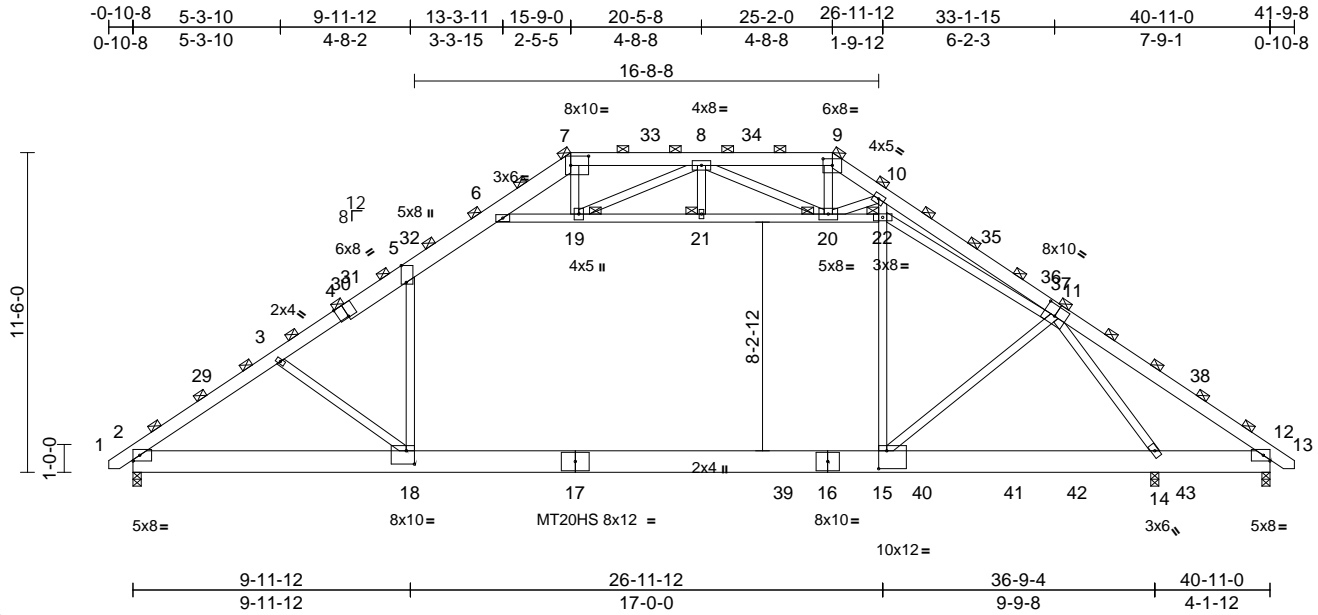
818 Soundside Road  
Edenton, NC 27932

Job 22070021	Truss A03	Truss Type Attic	Qty 1	Ply 3	DRB GROUP - 125 FaNC Job Reference (optional)	153063117
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:01  
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Page: 1



Scale = 1:82.9

Plate Offsets (X, Y): [4:0-4-0,Edge], [5:0-7-4,Edge], [7:0-7-12,0-4-0], [9:0-4-0,0-2-13], [11:0-5-0,0-4-8], [15:0-3-8,0-7-12], [18:0-3-8,0-5-12]

Loading	(psf)	Spacing	6-2-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.48	15-18	>925	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.73	15-18	>607	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.05	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.35	15-18	>578	360		
BCDL	10.0											
											Weight: 1172 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x6 SP No.2 \*Except\* 4-7:2x8 SP 2400F 2.0E, 4-1,11-13:2x6 SP 2400F 2.0E  
BOT CHORD 2x10 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\* 6-22:2x4 SP No.2

**BRACING**  
TOP CHORD 2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-0-0).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

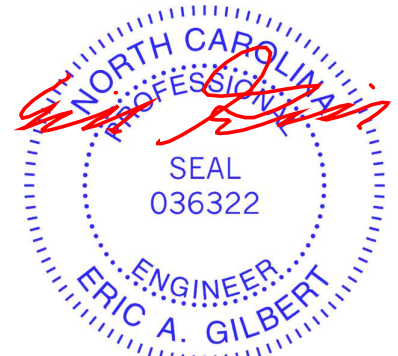
**JOINTS**  
1 Brace at Jt(s): 7, 9, 19, 20, 21, 22

**REACTIONS** (lb/size)  
2=5773/0-3-8, 12=3194/0-3-8, 14=3110/0-3-8  
Max Horiz 2=796 (LC 13)  
Max Uplift 2=-33 (LC 14), 12=-1207 (LC 14), 14=-613 (LC 10)  
Max Grav 2=7607 (LC 48), 12=4449 (LC 36), 14=5796 (LC 38)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/70, 2-3=-11651/0, 3-5=-10730/0, 5-6=-8195/199, 6-7=-2688/636, 7-8=-1916/719, 8-9=-2362/368, 9-10=-2906/383, 10-12=-5742/1819, 12-13=0/70  
BOT CHORD 2-18=-391/10017, 15-18=0/8454, 14-15=-288/7217, 12-14=-1256/4594  
WEBS 3-18=-1984/620, 5-18=0/4270, 15-22=0/3886, 10-22=-442/2060, 11-15=0/2225, 11-14=-6877/83, 6-19=-8539/0, 19-21=-7218/0, 20-21=-7218/0, 20-22=-4967/988, 7-19=0/1453, 9-20=-58/1343, 8-21=0/177, 8-19=-2532/199, 8-20=-1776/811, 10-20=-3159/13, 11-22=-5519/1062

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
Web 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-3 to 3-0-2, Interior (1) 3-0-2 to 10-6-6, Exterior(2R) 10-6-6 to 30-4-10, Interior (1) 30-4-10 to 37-10-14, Exterior(2E) 37-10-14 to 41-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 25-11-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s): 5-6, 6-19, 19-21, 20-21, 20-22; Wall dead load (5.0psf) on member(s): 5-18, 15-22
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room: 15-18
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- LGT3-SDS2.5 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 12. This connection is for uplift only and does not consider lateral forces.



July 14, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 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 22070021	Truss A03	Truss Type Attic	Qty 1	Ply <b>3</b>	DRB GROUP - 125 FaNC Job Reference (optional)	I53063117
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:01  
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Page: 2

- 17) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 18) LGT3 Hurricane ties must have three studs in line below the truss.
- 19) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

**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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Edenton, NC 27932

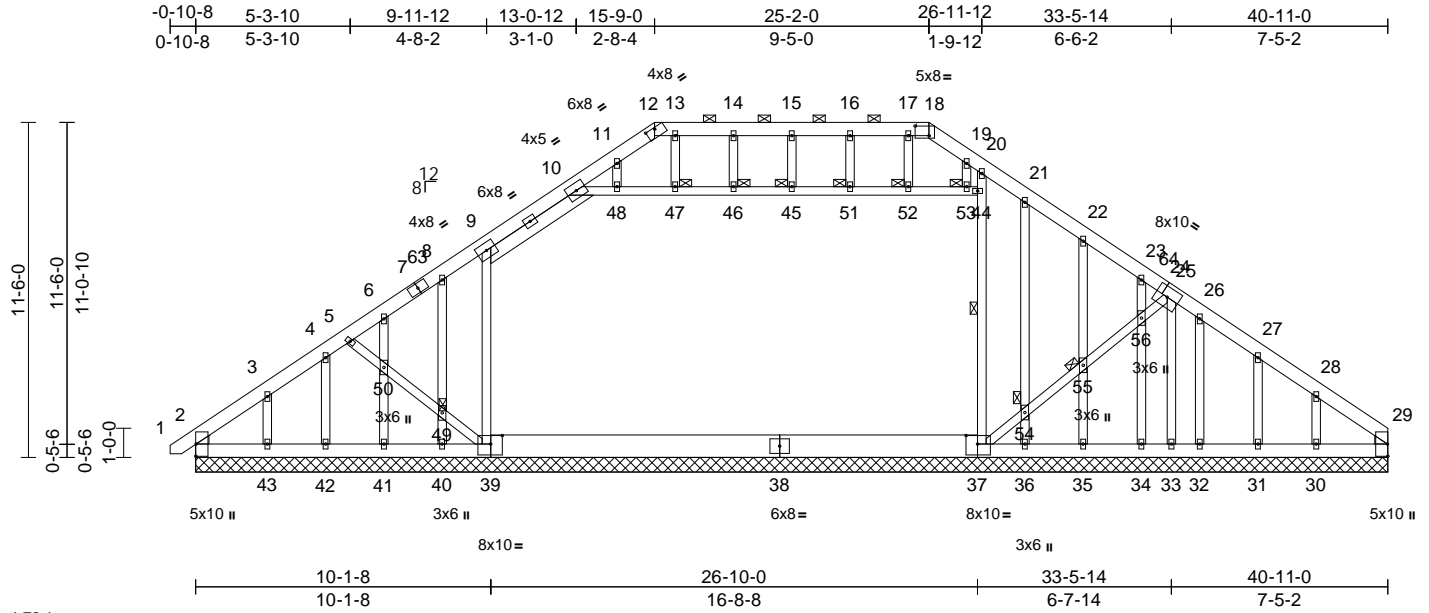


Job 22070021	Truss A04	Truss Type Attic Supported Gable	Qty 1	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063118
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:05  
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Page: 1



Scale = 1:79.1

Plate Offsets (X, Y): [12:0-4-0,0-0-10], [18:0-5-12,0-4-0], [37:0-4-12,0-3-8], [39:0-4-12,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	29	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 402 lb	FT = 20%

LUMBER		Max Uplift	2=-110 (LC 10), 29=-101 (LC 11), 30=-119 (LC 15), 31=-47 (LC 15), 32=-5 (LC 14), 33=-83 (LC 11), 34=-24 (LC 15), 35=-22 (LC 15), 36=-855 (LC 21), 40=-837 (LC 21), 41=-6 (LC 11), 42=-80 (LC 11), 43=-103 (LC 14), 57=-110 (LC 10), 60=-101 (LC 11)	WEBS	5-50=-69/371, 49-50=-70/376, 39-49=-69/374, 9-39=-320/100, 37-44=-210/87, 20-44=-330/132, 37-54=-163/468, 54-55=-164/468, 55-56=-164/470, 25-56=-167/479, 25-33=-343/93, 10-48=-21/85, 47-48=-21/87, 46-47=-21/87, 45-46=-21/87, 45-51=-21/87, 51-52=-21/87, 52-53=-21/87, 44-53=-21/87, 15-45=-24/6, 14-46=-72/20, 13-47=-29/82, 11-48=-41/48, 8-49=-31/49, 40-49=-30/49, 6-50=-258/69, 41-50=-265/69, 4-42=-418/95, 3-43=-122/105, 16-51=-72/20, 17-52=-25/75, 19-53=-52/195, 21-54=-156/100, 36-54=-156/101, 22-55=-189/89, 35-55=-187/90, 23-56=-209/50, 34-56=-196/50, 26-32=-212/46, 27-31=-128/83, 28-30=-140/108
TOP CHORD	2x6 SP No.2				
BOT CHORD	2x6 SP No.2 *Except* 39-38,38-37:2x10 SP 2400F 2.0E				
WEBS	2x4 SP No.3 *Except* 10-44:2x4 SP No.2, 9-10:2x6 SP No.2				
OTHERS	2x4 SP No.3				
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3				
BRACING		Max Grav	2=583 (LC 22), 29=471 (LC 23), 30=228 (LC 50), 31=199 (LC 26), 32=236 (LC 23), 33=371 (LC 39), 34=202 (LC 23), 35=425 (LC 50), 36=98 (LC 11), 37=1288 (LC 21), 39=1333 (LC 48), 40=-151 (LC 11), 41=451 (LC 5), 42=461 (LC 22), 43=210 (LC 48), 57=583 (LC 22), 60=471 (LC 23)		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 12-18.				
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 39-40,36-37.				
WEBS	1 Row at midpt 37-44				
JOINTS	1 Brace at Jt(s): 45, 46, 47, 49, 51, 52, 53, 54, 55				
REACTIONS	(lb/size) 2=508/40-11-0, 29=409/40-11-0, 30=89/40-11-0, 31=175/40-11-0, 32=215/40-11-0, 33=316/40-11-0, 34=183/40-11-0, 35=227/40-11-0, 36=273/40-11-0, 37=341/40-11-0, 39=447/40-11-0, 40=-275/40-11-0, 41=342/40-11-0, 42=398/40-11-0, 43=46/40-11-0, 57=508/40-11-0, 60=409/40-11-0				
	Max Horiz 2=-238 (LC 10), 57=-238 (LC 10)				
FORCES	(lb) - Maximum Compression/Maximum Tension				
TOP CHORD	1-2=0/23, 2-3=-658/198, 3-4=-609/175, 4-5=-792/192, 5-6=-901/218, 6-8=-998/227, 8-9=-964/260, 9-10=-964/293, 10-11=-1056/306, 11-12=-997/315, 12-13=-891/306, 13-14=-891/306, 14-15=-891/306, 15-16=-891/306, 16-17=-891/306, 17-18=-891/306, 18-19=-996/314, 19-20=-1119/322, 20-21=-915/300, 21-22=-995/305, 22-23=-1005/311, 23-25=-922/285, 25-26=-619/181, 26-27=-552/159, 27-28=-549/164, 28-29=-580/183				
BOT CHORD	2-43=-213/510, 42-43=-213/510, 41-42=-213/510, 40-41=-213/510, 36-40=-269/804, 35-36=-140/450, 34-35=-140/450, 33-34=-140/450, 32-33=-140/450, 31-32=-140/450, 30-31=-140/450, 29-30=-140/450				
NOTES	1) Unbalanced roof live loads have been considered for this design.				



July 14, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 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 22070021	Truss A04	Truss Type Attic Supported Gable	Qty 1	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	I53063118
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:05  
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Page: 2

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft;  
Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior  
zone and C-C Corner(3E) -0-8-3 to 3-4-15, Exterior(2N)  
3-4-15 to 11-7-14, Corner(3R) 11-7-14 to 19-10-2,  
Exterior(2N) 19-10-2 to 21-0-14, Corner(3R) 21-0-14 to  
29-3-2, Exterior(2N) 29-3-2 to 36-9-14, Corner(3E)  
36-9-14 to 40-11-0 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) T CLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15  
Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate  
DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9;  
Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this  
design.
- 6) This truss has been designed for greater of min roof live  
load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on  
overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 12) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members, with BCDL = 10.0psf.
- 13) Ceiling dead load (5.0 psf) on member(s). 9-10, 10-48,  
47-48, 46-47, 45-46, 45-51, 51-52, 52-53, 44-53; Wall  
dead load (5.0psf) on member(s).9-39, 37-44, 36-54,  
26-32
- 14) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 110 lb uplift at joint  
2, 101 lb uplift at joint 29, 83 lb uplift at joint 33, 837 lb  
uplift at joint 40, 6 lb uplift at joint 41, 80 lb uplift at joint  
42, 103 lb uplift at joint 43, 855 lb uplift at joint 36, 22 lb  
uplift at joint 35, 24 lb uplift at joint 34, 5 lb uplift at joint  
32, 47 lb uplift at joint 31, 119 lb uplift at joint 30, 110 lb  
uplift at joint 2 and 101 lb uplift at joint 29.
- 15) Beveled plate or shim required to provide full bearing  
surface with truss chord at joint(s) 2, 57.
- 16) This truss is designed in accordance with the 2018  
International Residential Code sections R502.11.1 and  
R802.10.2 and referenced standard ANSI/TPI 1.
- 17) Graphical purlin representation does not depict the size  
or the orientation of the purlin along the top and/or  
bottom chord.
- 18) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

**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

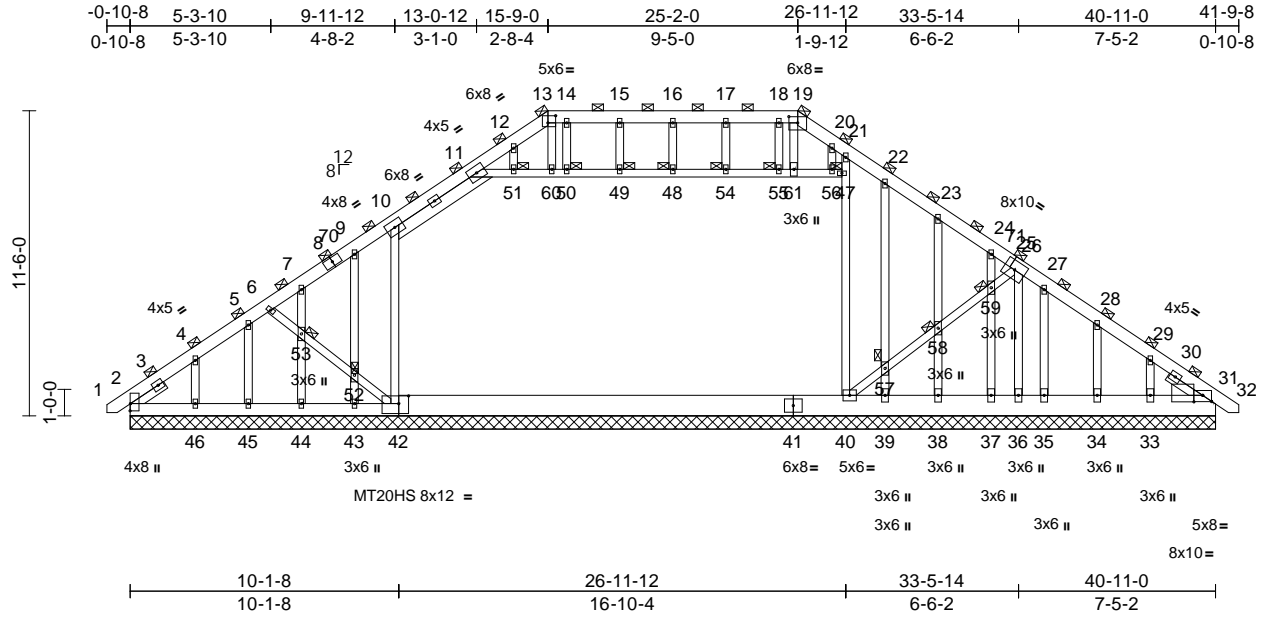
Job 22070021	Truss A05	Truss Type Attic Supported Gable	Qty 1	Ply 2	DRB GROUP - 125 FaNC Job Reference (optional)	153063119
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:11

Page: 1

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Loading	(psf)	Spacing	6-2-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.02	31	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 862 lb	FT = 20%

**LUMBER**

TOP CHORD 2x6 SP No.2

BOT CHORD 2x10 SP 2400F 2.0E \*Except\* 2-42:2x6 SP 2400F 2.0E

WEBS 2x4 SP No.3 \*Except\* 11-47:2x4 SP No.2, 10-11:2x6 SP No.2

OTHERS 2x4 SP No.3

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

Max Grav 2=1799 (LC 22), 31=1601 (LC 23), 33=713 (LC 50), 34=594 (LC 30), 35=671 (LC 23), 36=979 (LC 23), 37=532 (LC 40), 38=1541 (LC 50), 39=753 (LC 11), 40=5527 (LC 21), 42=3874 (LC 48), 43=483 (LC 11), 44=1362 (LC 5), 45=1398 (LC 22), 46=638 (LC 48), 62=1799 (LC 22)

**BRACING**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-0-0).

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

**JOINTS** 1 Brace at Jt(s): 13, 19, 47, 48, 49, 50, 51, 52, 53, 54, 55, 57, 58, 59

**FORCES** (lb) - Maximum Compression/Maximum Tension

**TOP CHORD** 1-2=0/70, 2-4=-2034/569, 4-5=-1882/497, 5-6=-2441/559, 6-7=-2769/649, 7-9=-3062/681, 9-10=-2981/778, 10-11=-2960/890, 11-12=-3197/920, 12-13=-3251/1009, 13-14=-2819/953, 14-15=-2819/953, 15-16=-2819/953, 16-17=-2819/953, 17-18=-2819/953, 18-19=-2819/953, 19-20=-3323/1015, 20-21=-3121/925, 21-22=-2823/906, 22-23=-3048/924, 23-24=-3069/941, 24-26=-2857/878, 26-27=-2059/612, 27-28=-1894/559, 28-29=-1889/582, 29-31=-1927/617, 31-32=0/70

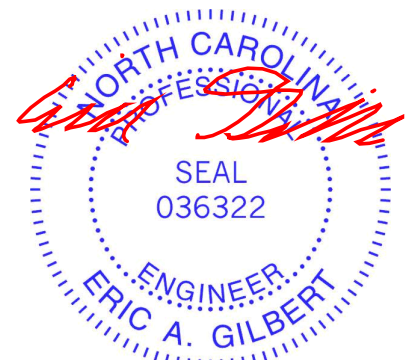
**BOT CHORD** 2-46=667/1616, 45-46=667/1616, 44-45=667/1616, 43-44=667/1616, 40-43=-796/2468, 39-40=-475/1545, 38-39=-475/1545, 37-38=-475/1545, 36-37=-475/1545, 35-36=-475/1545, 34-35=-475/1545, 33-34=-475/1545, 31-33=-475/1545

**REACTIONS** (lb/size)

2=1568/40-11-0, 31=1408/40-11-0, 33=368/40-11-0, 34=500/40-11-0, 35=619/40-11-0, 36=854/40-11-0, 37=485/40-11-0, 38=787/40-11-0, 39=1188/40-11-0, 40=1529/40-11-0, 42=1228/40-11-0, 43=715/40-11-0, 44=1029/40-11-0, 45=1212/40-11-0, 46=153/40-11-0, 62=1568/40-11-0

Max Horiz 2=-757 (LC 10), 62=-757 (LC 10)

Max Uplift 2=-304 (LC 10), 31=-314 (LC 11), 33=-328 (LC 15), 34=-154 (LC 15), 35=38 (LC 15), 36=-177 (LC 11), 37=-114 (LC 15), 38=-15 (LC 15), 39=-4299 (LC 21), 43=-2429 (LC 21), 45=-207 (LC 11), 46=-315 (LC 14), 62=-304 (LC 10)



July 14, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 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 22070021	Truss A05	Truss Type Attic Supported Gable	Qty 1	Ply 2	DRB GROUP - 125 FaNC Job Reference (optional)	153063119
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:11

Page: 2

ID:Gnt?WU0QE0VXWmzJCN6yEKXF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?#

- WEBS
- 6-53=-192/1121, 52-53=-195/1135, 42-52=-193/1130, 10-42=-946/325, 40-47=-628/276, 21-47=-613/296, 40-57=-443/1301, 57-58=-404/1187, 58-59=-405/1191, 26-59=-414/1219, 26-36=-894/220, 11-51=-66/266, 51-60=-67/267, 50-60=-93/351, 49-50=-93/351, 48-49=-93/351, 48-54=-93/351, 54-55=-93/351, 55-61=-93/351, 56-61=-67/238, 47-56=-67/238, 16-48=-153/42, 15-49=-59/18, 14-50=-783/270, 12-51=-294/113, 9-52=-122/141, 43-52=-115/142, 7-53=-788/209, 44-53=-807/207, 5-45=-1277/251, 4-46=-346/324, 17-54=-21/16, 18-55=-1108/293, 20-56=-420/118, 22-57=-492/269, 39-57=-560/173, 23-58=-591/272, 38-58=-588/273, 24-59=-578/157, 37-59=-537/159, 27-35=-581/145, 28-34=-410/269, 29-33=-351/275, 13-60=-383/1223, 19-61=-453/1652
- 16) Ceiling dead load (5.0 psf) on member(s). 10-11, 11-51, 51-60, 50-60, 49-50, 48-49, 48-54, 54-55, 55-61, 56-61, 47-56; Wall dead load (5.0psf) on member(s).10-42, 40-47, 39-57, 27-35
- 17) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 304 lb uplift at joint 2, 314 lb uplift at joint 31, 177 lb uplift at joint 36, 2429 lb uplift at joint 43, 207 lb uplift at joint 45, 315 lb uplift at joint 46, 4299 lb uplift at joint 39, 15 lb uplift at joint 38, 114 lb uplift at joint 37, 38 lb uplift at joint 35, 154 lb uplift at joint 34, 328 lb uplift at joint 33 and 304 lb uplift at joint 2.
- 18) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 19) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 20) Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

#### NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.  
Web 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-3 to 3-4-15, Exterior(2N) 3-4-15 to 11-7-14, Corner(3R) 11-7-14 to 19-10-2, Exterior(2N) 19-10-2 to 21-0-14, Corner(3R) 21-0-14 to 29-3-2, Exterior(2N) 29-3-2 to 37-6-1, Corner(3E) 37-6-1 to 41-7-3 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

**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



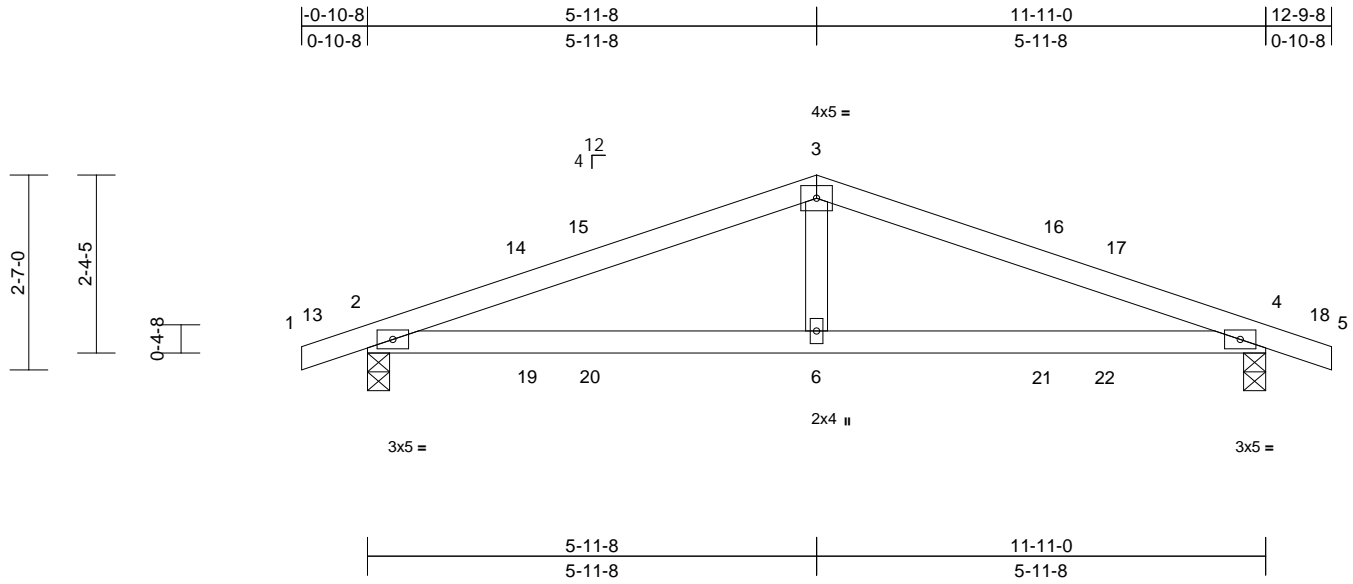
818 Soundside Road  
Edenton, NC 27932

Job 22070021	Truss B01	Truss Type Common	Qty 4	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063120
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:16  
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Page: 1



Scale = 1:30.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	0.11	6-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	Vert(CT)	-0.12	6-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0									Weight: 42 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 5-3-1 oc bracing.

**REACTIONS**

(lb/size) 2=529/0-3-8, 4=529/0-3-8  
Max Horiz 2=-36 (LC 15)  
Max Uplift 2=-193 (LC 10), 4=-193 (LC 11)  
Max Grav 2=635 (LC 21), 4=635 (LC 22)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/22, 2-3=-907/1253, 3-4=-907/1253, 4-5=0/22  
BOT CHORD 2-6=-1096/791, 4-6=-1096/791  
WEBS 3-6=-473/269

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-11-8, Exterior(2R) 2-11-8 to 8-11-8, Interior (1) 8-11-8 to 9-9-8, Exterior(2E) 9-9-8 to 12-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



July 14, 2022

**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 ANSITPI1 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

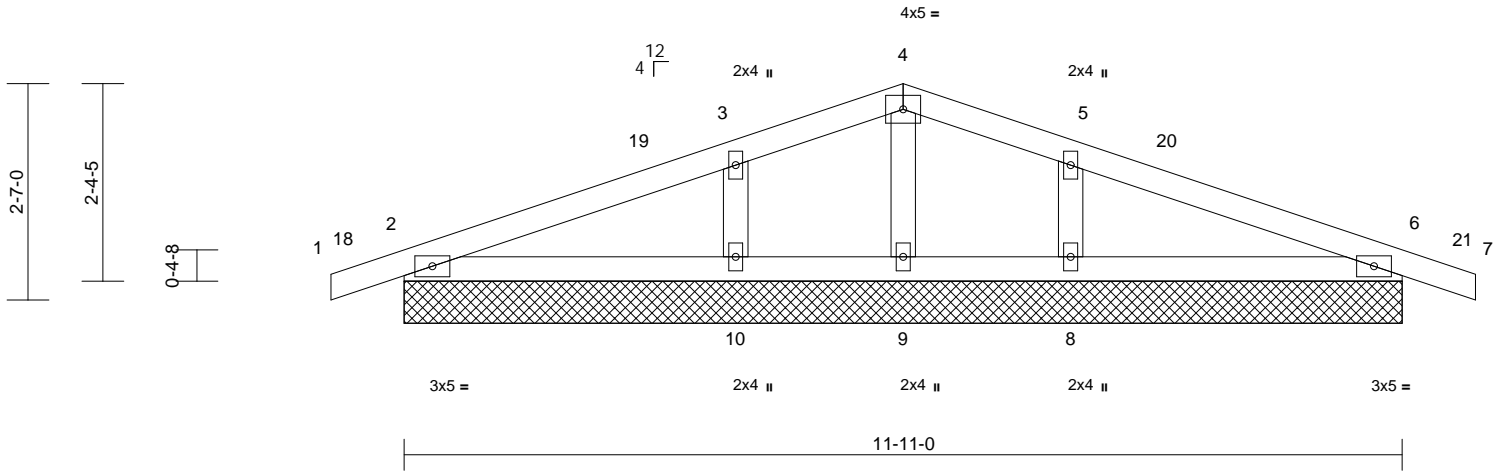
Job 22070021	Truss B02	Truss Type Common Supported Gable	Qty 1	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063121
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:18  
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Page: 1

-0-10-8	5-11-8	11-11-0	12-9-8
0-10-8	5-11-8	5-11-8	0-10-8



Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 45 lb	FT = 20%

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

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

**REACTIONS** (lb/size)  
2=197/11-11-0, 6=197/11-11-0, 8=311/11-11-0, 9=10/11-11-0, 10=311/11-11-0, 11=197/11-11-0, 15=197/11-11-0  
Max Horiz 2=-35 (LC 15), 11=-35 (LC 15)  
Max Uplift 2=-53 (LC 10), 6=-57 (LC 11), 8=-64 (LC 15), 10=-64 (LC 14), 11=-53 (LC 10), 15=-57 (LC 11)  
Max Grav 2=260 (LC 21), 6=260 (LC 22), 8=423 (LC 22), 9=31 (LC 15), 10=423 (LC 21), 11=260 (LC 21), 15=260 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/21, 2-3=-70/48, 3-4=-85/122, 4-5=-85/122, 5-6=-70/48, 6-7=0/21  
BOT CHORD 2-10=-5/54, 9-10=0/46, 8-9=0/46, 6-8=0/54  
WEBS 4-9=-24/18, 3-10=-304/211, 5-8=-304/211

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 2-11-8, Corner(3R) 2-11-8 to 8-11-8, Exterior (2N) 8-11-8 to 9-9-8, Corner(3E) 9-9-8 to 12-9-8 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 2, 57 lb uplift at joint 6, 64 lb uplift at joint 10, 64 lb uplift at joint 8, 53 lb uplift at joint 2 and 57 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



July 14, 2022

**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

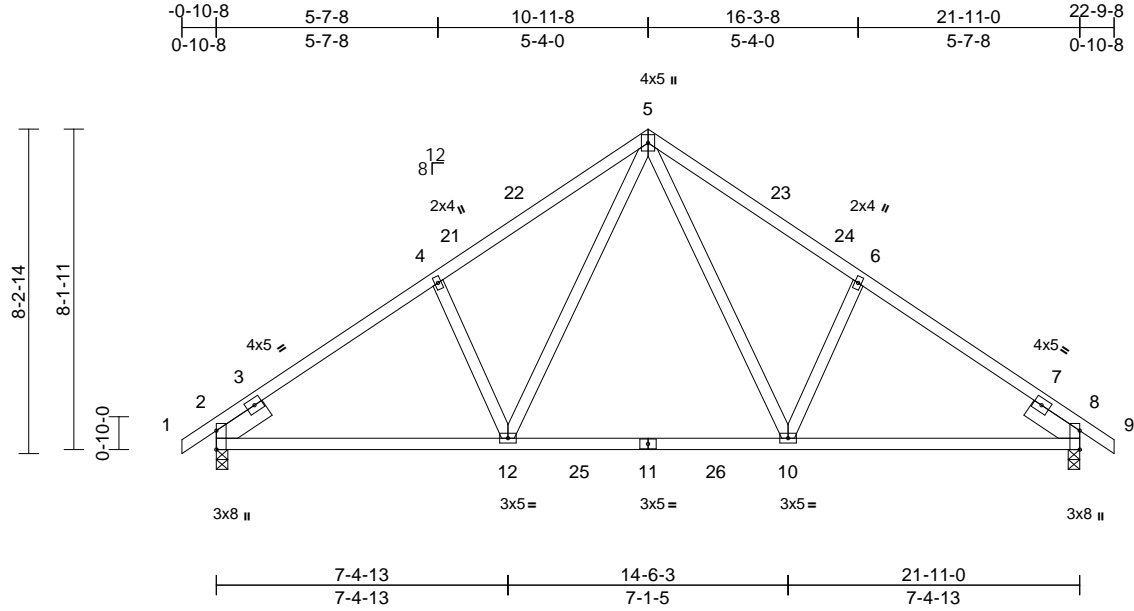
818 Soundside Road  
Edenton, NC 27932

Job 22070021	Truss C01	Truss Type Common	Qty 5	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063122
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:19  
ID:zzbLcuQehj\_RgCyKEGBGZxyyXZ?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:58.5  
Plate Offsets (X, Y): [2:Edge,0-0-0], [8:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.13	10-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.21	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 120 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

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

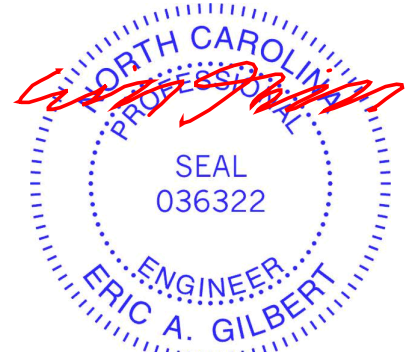
**REACTIONS** (lb/size) 2=929/0-3-8, 8=929/0-3-8  
Max Horiz 2=185 (LC 13)  
Max Uplift 2=-91 (LC 14), 8=-91 (LC 15)  
Max Grav 2=1042 (LC 24), 8=1042 (LC 25)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/29, 2-4=-1284/141, 4-5=-1204/202, 5-6=-1204/202, 6-8=-1284/141, 8-9=0/29  
BOT CHORD 2-12=-184/1107, 10-12=0/753, 8-10=-76/1015  
WEBS 5-10=-119/584, 6-10=-338/204, 5-12=-119/584, 4-12=-338/204

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-11-8, Exterior(2R) 7-11-8 to 13-11-8, Interior (1) 13-11-8 to 19-9-8, Exterior(2E) 19-9-8 to 22-9-8 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

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 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) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



July 14, 2022

**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



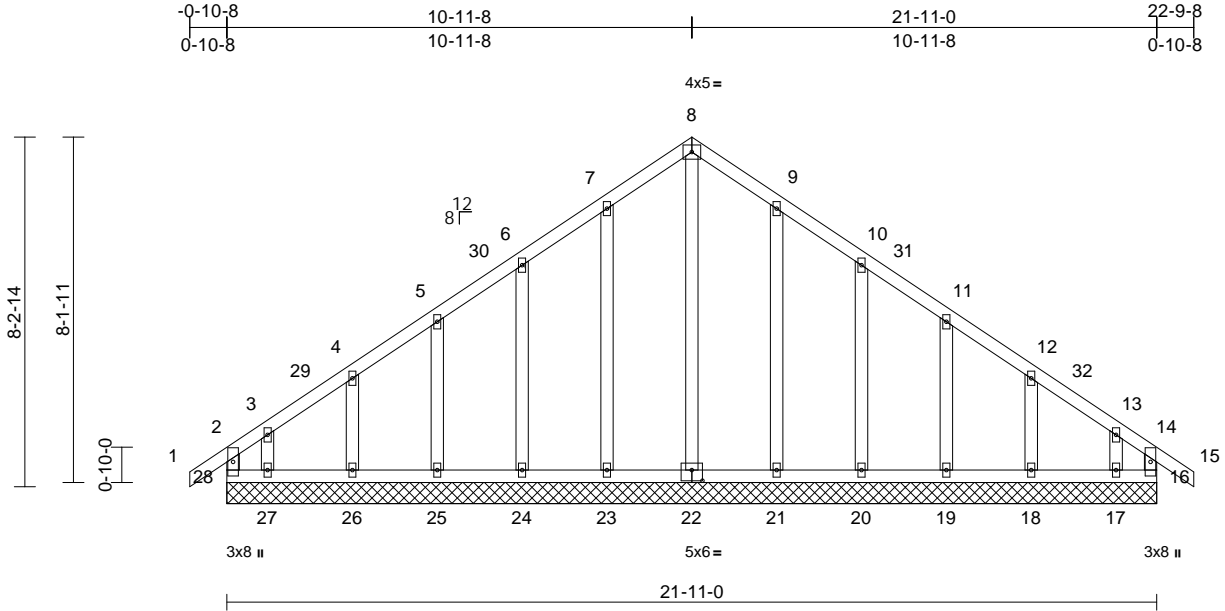
818 Soundside Road  
Edenton, NC 27932

Job 22070021	Truss C02	Truss Type Common Supported Gable	Qty 1	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063123
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:20  
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Page: 1



Scale = 1:54.3

Plate Offsets (X, Y): [22:0-3-0,0-3-0]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 141 lb	FT = 20%

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

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

**REACTIONS** (lb/size)  
16=110/21-11-0, 17=84/21-11-0,  
18=163/21-11-0, 19=153/21-11-0,  
20=154/21-11-0, 21=161/21-11-0,  
22=143/21-11-0, 23=161/21-11-0,  
24=154/21-11-0, 25=153/21-11-0,  
26=163/21-11-0, 27=84/21-11-0,  
28=110/21-11-0  
Max Horiz 28=200 (LC 12)  
Max Uplift 16=69 (LC 11), 17=122 (LC 15),  
18=53 (LC 15), 19=56 (LC 15),  
20=59 (LC 15), 21=53 (LC 15),  
23=54 (LC 14), 24=58 (LC 14),  
25=57 (LC 14), 26=51 (LC 14),  
27=141 (LC 14), 28=125 (LC 10)

Max Grav 16=146 (LC 24), 17=144 (LC 25),  
18=168 (LC 25), 19=162 (LC 29),  
20=215 (LC 22), 21=251 (LC 22),  
22=190 (LC 27), 23=251 (LC 21),  
24=215 (LC 21), 25=163 (LC 24),  
26=166 (LC 24), 27=176 (LC 12),  
28=190 (LC 25)

**FORCES** (lb) - Maximum Compression/Maximum Tension

**TOP CHORD** 2-28=-149/90, 1-2=0/33, 2-3=-166/148,  
3-4=-115/116, 4-5=-101/102, 5-6=-85/120,  
6-7=-94/173, 7-8=-125/226, 8-9=-125/226,  
9-10=-94/173, 10-11=-63/114, 11-12=-61/64,  
12-13=-71/71, 13-14=-128/91, 14-15=0/33,  
14-16=-116/50  
**BOT CHORD** 27-28=-84/116, 26-27=-84/116,  
25-26=-84/116, 24-25=-84/116,  
23-24=-84/116, 21-23=-84/116,  
20-21=-84/116, 19-20=-84/116,  
18-19=-84/116, 17-18=-84/116,  
16-17=-84/116  
**WEBS** 8-22=-190/50, 7-23=-213/77, 6-24=-176/84,  
5-25=-124/79, 4-26=-128/85, 3-27=-108/107,  
9-21=-213/76, 10-20=-176/84,  
11-19=-124/79, 12-18=-129/85, 13-17=-95/98

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-11-8, Corner(3R) 7-11-8 to 13-11-8, Exterior (2N) 13-11-8 to 19-9-8, Corner(3E) 19-9-8 to 22-9-8 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

5) Unbalanced snow loads have been considered for this design.  
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.  
7) All plates are 2x4 MT20 unless otherwise indicated.  
8) Gable requires continuous bottom chord bearing.  
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).  
10) Gable studs spaced at 2-0-0 oc.  
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
12) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



July 14, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 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 22070021	Truss C02	Truss Type Common Supported Gable	Qty 1	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	I53063123
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Carter Components (Sanford), Sanford, NC - 27332,

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Page: 2

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 28, 69 lb uplift at joint 16, 54 lb uplift at joint 23, 58 lb uplift at joint 24, 57 lb uplift at joint 25, 51 lb uplift at joint 26, 141 lb uplift at joint 27, 53 lb uplift at joint 21, 59 lb uplift at joint 20, 56 lb uplift at joint 19, 53 lb uplift at joint 18 and 122 lb uplift at joint 17.

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

**LOAD CASE(S)** Standard

**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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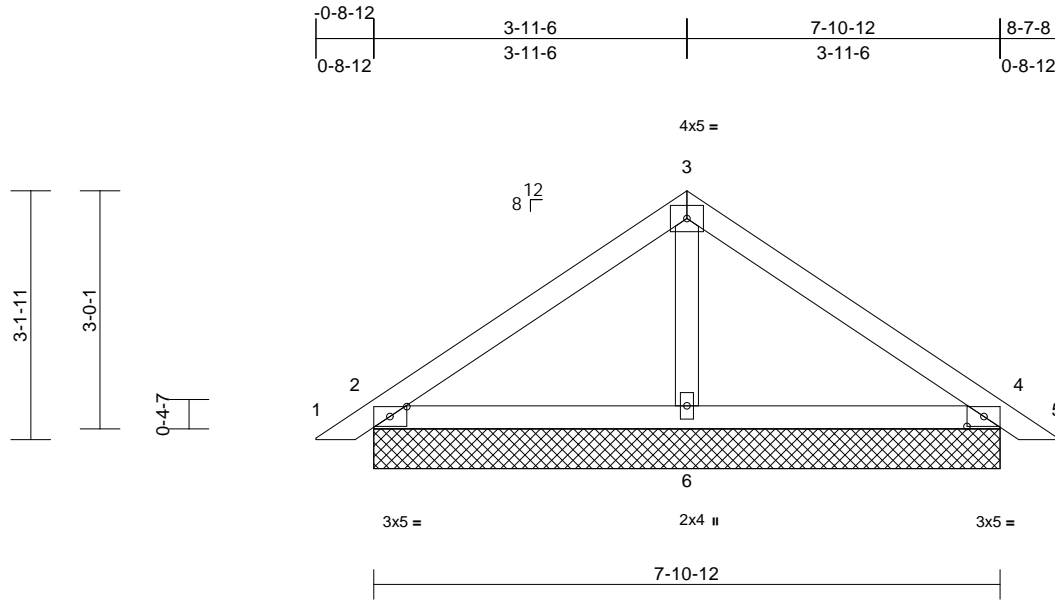
818 Soundside Road  
Edenton, NC 27932

Job 22070021	Truss PB1	Truss Type Piggyback	Qty 12	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063124
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:21  
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Page: 1



Scale = 1:29.1

Plate Offsets (X, Y): [2:0-2-9,0-1-8], [4:0-2-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 32 lb	FT = 20%	

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(lb/size) 2=215/7-10-12, 4=215/7-10-12, 6=259/7-10-12, 7=215/7-10-12, 11=215/7-10-12  
Max Horiz 2=69 (LC 13), 7=69 (LC 13)  
Max Uplift 2=-41 (LC 14), 4=-50 (LC 15), 7=-41 (LC 14), 11=-50 (LC 15)  
Max Grav 2=314 (LC 21), 4=314 (LC 22), 6=275 (LC 22), 7=314 (LC 21), 11=314 (LC 22)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/26, 2-3=-193/98, 3-4=-193/98, 4-5=0/26  
BOT CHORD 2-6=-25/81, 4-6=-14/81  
WEBS 3-6=-113/12

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Exterior(2R) 3-3-5 to 6-1-11, Exterior(2E) 6-1-11 to 9-1-11 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- N/A

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



July 14, 2022

**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



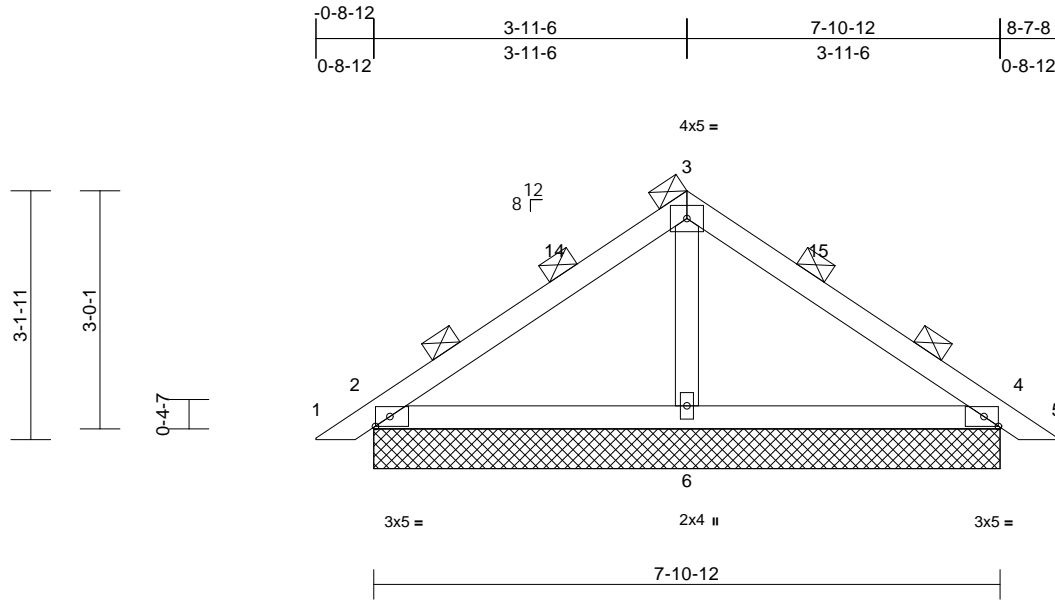
818 Soundside Road  
Edenton, NC 27932

Job 22070021	Truss PB2	Truss Type Piggyback	Qty 1	Ply 2	DRB GROUP - 125 FaNC Job Reference (optional)	153063125
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:23  
ID:DDCbZ0pbgmy5PBFk7Wx3O5yyXIP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwKRCdoi7J4zJC?f

Page: 1



Scale = 1:29.1

Plate Offsets (X, Y): [2:0-2-3,Edge], [4:0-2-3,Edge]

Loading	(psf)	Spacing	6-2-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 64 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)  
(Switched from sheeted: Spacing > 2-0-0).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=662/7-10-12, 4=662/7-10-12, 6=802/7-10-12, 7=662/7-10-12, 11=662/7-10-12  
Max Horiz 2=-214 (LC 12), 7=-214 (LC 12)  
Max Uplift 2=-128 (LC 14), 4=-156 (LC 15), 7=-128 (LC 14), 11=-156 (LC 15)  
Max Grav 2=968 (LC 21), 4=968 (LC 22), 6=851 (LC 21), 7=968 (LC 21), 11=968 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/81, 2-3=-591/233, 3-4=-591/233, 4-5=0/81  
BOT CHORD 2-6=-96/309, 4-6=-26/309  
WEBS 3-6=-357/32

**NOTES**

- 2-ply truss to be connected together as follows:  
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected with 10d (0.131"x3") nails 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Exterior(2R) 3-3-5 to 6-1-11, Exterior(2E) 6-1-11 to 9-1-11 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- N/A

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



July 14, 2022

**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



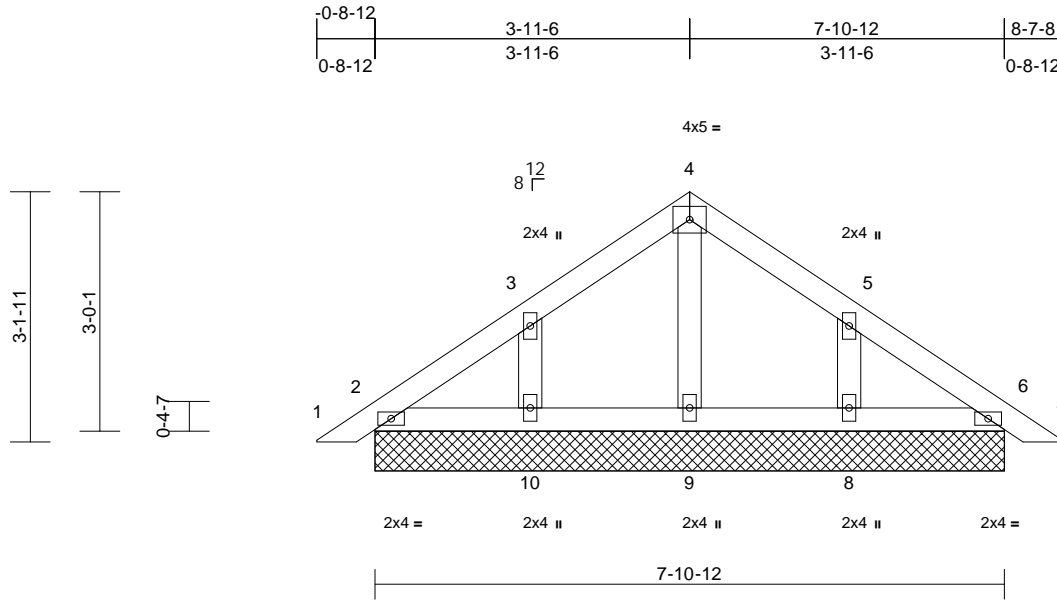
818 Soundside Road  
Edenton, NC 27932

Job 22070021	Truss PB3	Truss Type Piggyback	Qty 1	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063126
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Carter Components (Sanford), Sanford, NC - 27332,

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Page: 1



Scale = 1:28.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 35 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(lb/size) 2=104/7-10-12, 6=104/7-10-12, 8=187/7-10-12, 9=108/7-10-12, 10=187/7-10-12, 11=104/7-10-12, 15=104/7-10-12  
Max Horiz 2=69 (LC 13), 11=69 (LC 13)  
Max Uplift 2=-8 (LC 15), 6=-4 (LC 15), 8=-73 (LC 15), 10=-74 (LC 14), 11=-8 (LC 15), 15=-4 (LC 15)  
Max Grav 2=155 (LC 21), 6=155 (LC 22), 8=279 (LC 22), 9=115 (LC 21), 10=279 (LC 21), 11=155 (LC 21), 15=155 (LC 22)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/26, 2-3=-55/48, 3-4=-87/79, 4-5=-87/79, 5-6=-40/37, 6-7=0/26  
BOT CHORD 2-10=-19/61, 9-10=-19/61, 8-9=-19/61, 6-8=-19/61  
WEBS 4-9=-80/0, 3-10=-224/127, 5-8=-224/127

**NOTES**

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Exterior(2R) 3-3-5 to 6-1-11, Exterior(2E) 6-1-11 to 9-1-11 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- N/A

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

**LOAD CASE(S)** Standard

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



July 14, 2022

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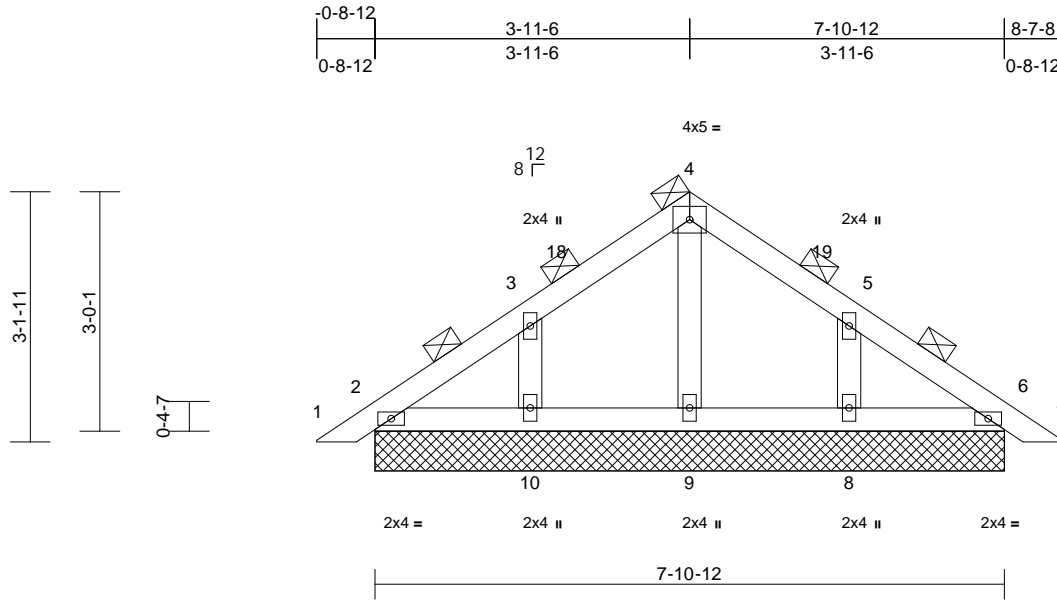
818 Soundside Road  
Edenton, NC 27932

Job 22070021	Truss PB4	Truss Type Piggyback	Qty 1	Ply 2	DRB GROUP - 125 FaNC Job Reference (optional)	153063127
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:24  
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Page: 1



Scale = 1:28.9

Loading	(psf)	Spacing	6-2-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 71 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)  
(Switched from sheeted: Spacing > 2-0-0).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(lb/size) 2=318/7-10-12, 6=318/7-10-12,  
8=577/7-10-12, 9=336/7-10-12,  
10=577/7-10-12, 11=318/7-10-12,  
15=318/7-10-12  
Max Horiz 2=-214 (LC 12), 11=-214 (LC 12)  
Max Uplift 2=-24 (LC 15), 6=-14 (LC 15),  
8=-225 (LC 15), 10=-227 (LC 14),  
11=-24 (LC 15), 15=-14 (LC 15)  
Max Grav 2=475 (LC 21), 6=475 (LC 22),  
8=861 (LC 22), 9=356 (LC 21),  
10=861 (LC 21), 11=475 (LC 21),  
15=475 (LC 22)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/81, 2-3=-167/148, 3-4=-268/196,  
4-5=-268/196, 5-6=-119/116, 6-7=0/81  
BOT CHORD 2-10=-60/154, 9-10=-60/154, 8-9=-60/154,  
6-8=-60/154  
WEBS 4-9=-248/0, 3-10=-691/294, 5-8=-691/294

**NOTES**

1) 2-ply truss to be connected together as follows:  
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected with 10d (0.131"x3") nails 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Exterior(2R) 3-3-5 to 6-1-11, Exterior(2E) 6-1-11 to 9-1-11 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

13) N/A

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



July 14, 2022

**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

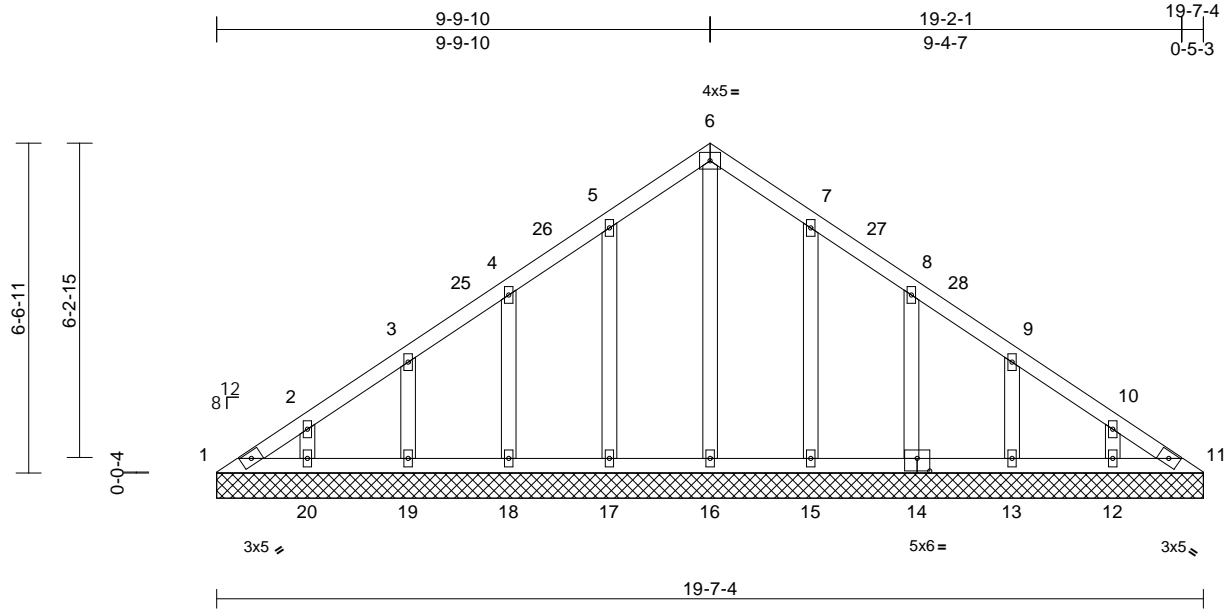


Job 22070021	Truss V1	Truss Type Valley	Qty 1	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063128
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:26  
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Page: 1



Scale = 1:45.8

Plate Offsets (X, Y): [14:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 103 lb	FT = 20%

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

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

**REACTIONS** (lb/size)  
1=61/19-7-4, 11=60/19-7-4,  
12=171/19-7-4, 13=157/19-7-4,  
14=162/19-7-4, 15=168/19-7-4,  
16=135/19-7-4, 17=166/19-7-4,  
18=159/19-7-4, 19=159/19-7-4,  
20=171/19-7-4  
Max Horiz 1=150 (LC 10)  
Max Uplift 1=30 (LC 10), 12=34 (LC 15),  
13=64 (LC 15), 14=59 (LC 15),  
15=57 (LC 15), 17=60 (LC 14),  
18=58 (LC 14), 19=62 (LC 14),  
20=39 (LC 14)  
Max Grav 1=90 (LC 24), 11=62 (LC 26),  
12=171 (LC 21), 13=168 (LC 24),  
14=226 (LC 21), 15=262 (LC 21),  
16=167 (LC 26), 17=260 (LC 20),  
18=222 (LC 20), 19=169 (LC 23),  
20=174 (LC 23)

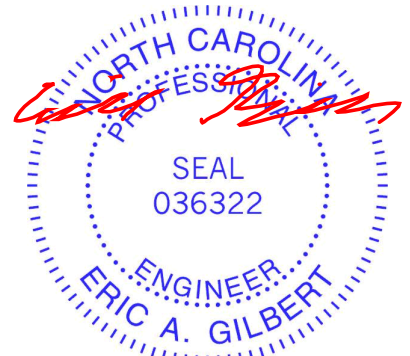
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-140/121, 2-3=-111/104, 3-4=-95/86,  
4-5=-83/110, 5-6=-94/141, 6-7=-94/131,  
7-8=-70/72, 8-9=-50/39, 9-10=-68/53,  
10-11=-104/67

**BOT CHORD** 1-20=-53/107, 19-20=-53/107,  
18-19=-53/107, 17-18=-53/107,  
16-17=-53/107, 15-16=-53/107,  
13-15=-55/110, 12-13=-55/110,  
11-12=-55/110  
**WEBS** 6-16=-127/19, 5-17=-220/84, 4-18=-181/82,  
3-19=-131/85, 2-20=-120/63, 7-15=-220/82,  
8-14=-185/84, 9-13=-131/86, 10-12=-118/61

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 6-10-0, Exterior(2R) 6-10-0 to 12-10-0, Interior (1) 12-10-0 to 16-7-10, Exterior(2E) 16-7-10 to 19-7-10 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.
  - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1, 60 lb uplift at joint 17, 58 lb uplift at joint 18, 62 lb uplift at joint 19, 39 lb uplift at joint 20, 57 lb uplift at joint 15, 59 lb uplift at joint 14, 64 lb uplift at joint 13 and 34 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



July 14, 2022

**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



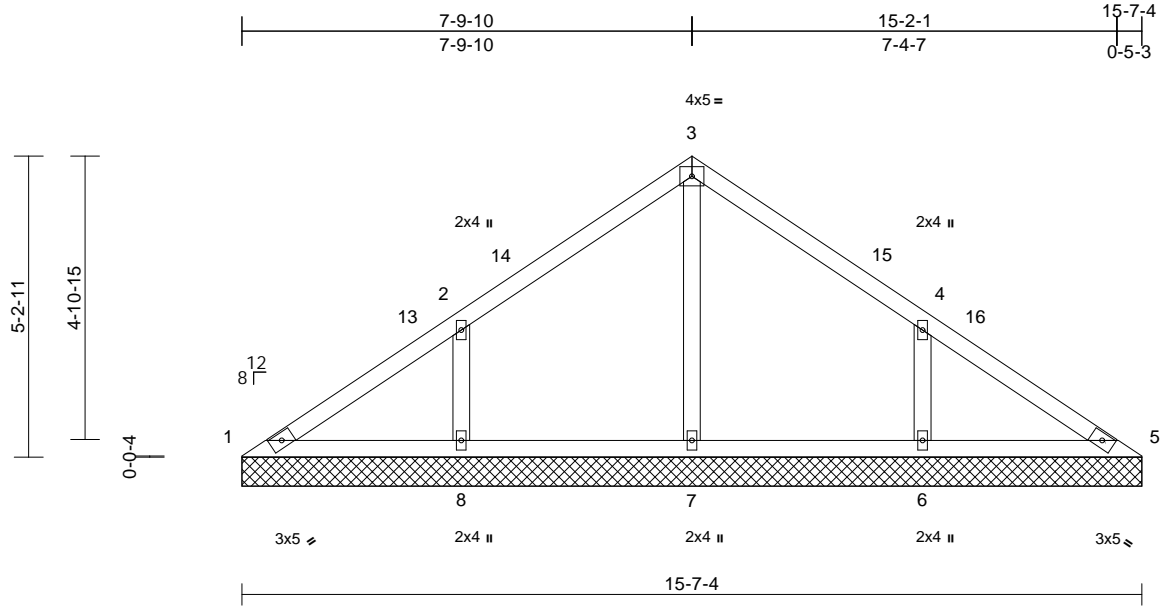
818 Soundside Road  
Edenton, NC 27932

Job 22070021	Truss V2	Truss Type Valley	Qty 1	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063129
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:27  
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 62 lb	FT = 20%

**LUMBER**

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

**BRACING**

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

**REACTIONS** (lb/size)

1=93/15-7-4, 5=93/15-7-4,  
6=362/15-7-4, 7=338/15-7-4,  
8=362/15-7-4

Max Horiz 1=118 (LC 13)  
Max Uplift 1=9 (LC 15), 6=129 (LC 15),  
8=131 (LC 14)

Max Grav 1=102 (LC 24), 5=97 (LC 34),  
6=489 (LC 21), 7=343 (LC 20),  
8=489 (LC 20)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-135/165, 2-3=-102/136, 3-4=-102/122,  
4-5=-120/129

BOT CHORD 1-8=-77/127, 7-8=-77/82, 6-7=-77/82,  
5-6=-77/93

WEBS 3-7=-269/8, 2-8=-393/168, 4-6=-393/167

- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 131 lb uplift at joint 8 and 129 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior (1) 10-10-0 to 12-7-10, Exterior(2E) 12-7-10 to 15-7-10 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



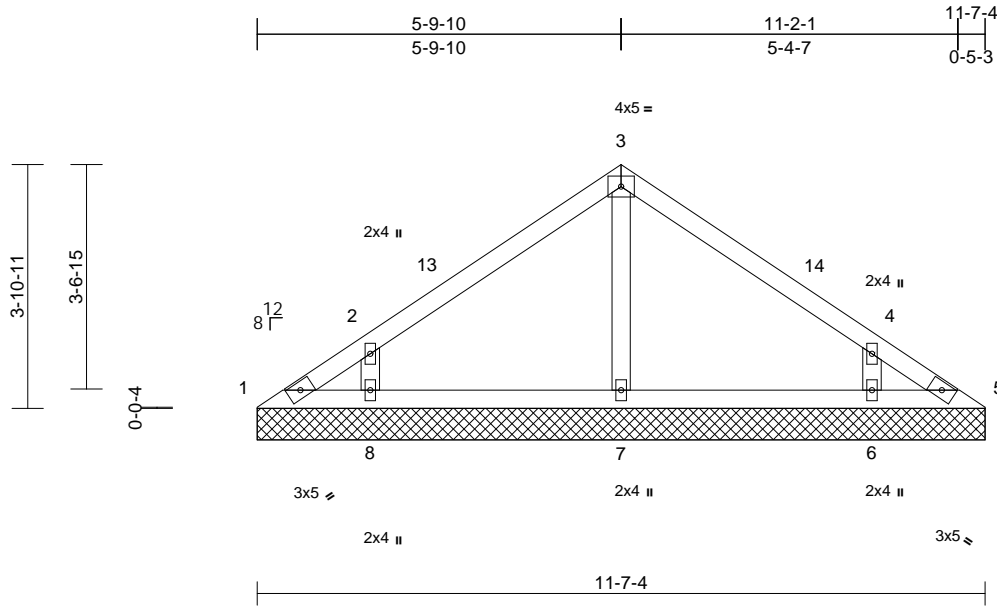
July 14, 2022

Job 22070021	Truss V3	Truss Type Valley	Qty 1	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063130
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Wed Jul 13 09:20:28  
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 43 lb	FT = 20%

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

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

**REACTIONS** (lb/size)  
 1=40/11-7-4, 5=40/11-7-4,  
 6=296/11-7-4, 7=256/11-7-4,  
 8=296/11-7-4  
 Max Horiz 1=87 (LC 11)  
 Max Uplift 1=-24 (LC 10), 5=-3 (LC 11),  
 6=-106 (LC 15), 8=-108 (LC 14)  
 Max Grav 1=61 (LC 24), 5=45 (LC 23), 6=452  
 (LC 21), 7=272 (LC 21), 8=452 (LC 20)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-89/79, 2-3=-182/91, 3-4=-182/91,  
 4-5=-63/59  
 BOT CHORD 1-8=-23/58, 7-8=-16/58, 6-7=-16/58,  
 5-6=-24/58  
 WEBS 3-7=-184/20, 2-8=-436/189, 4-6=-436/189

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Exterior(2R) 3-0-6 to 8-7-10, Exterior(2E) 8-7-10 to 11-7-10 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 3 lb uplift at joint 5, 108 lb uplift at joint 8 and 106 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



July 14, 2022

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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

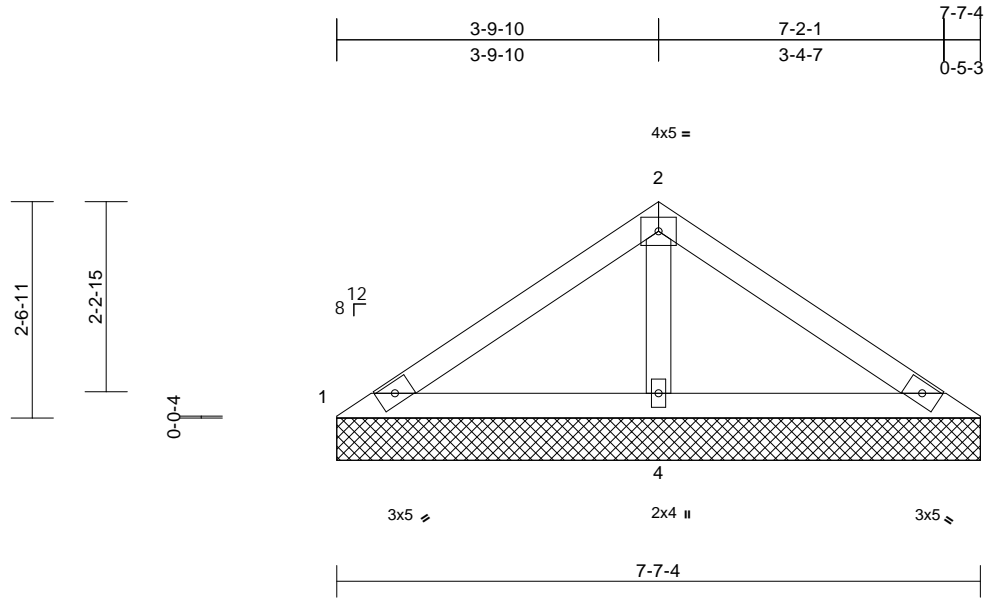
818 Soundside Road  
 Edenton, NC 27932

Job 22070021	Truss V4	Truss Type Valley	Qty 1	Ply 1	DRB GROUP - 125 FaNC Job Reference (optional)	153063131
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Carter Components (Sanford), Sanford, NC - 27332,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 26 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 7-7-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (lb/size) 1=42/7-7-4, 3=42/7-7-4, 4=525/7-7-4  
Max Horiz 1=-56 (LC 12)  
Max Uplift 1=-17 (LC 21), 3=-17 (LC 20), 4=-58 (LC 14)  
Max Grav 1=105 (LC 20), 3=105 (LC 21), 4=552 (LC 20)

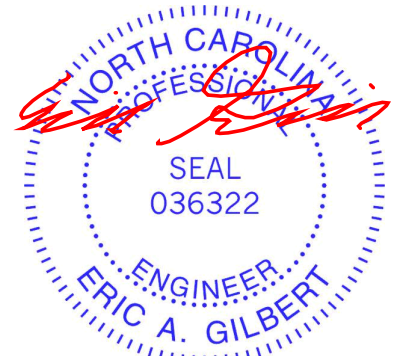
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-96/258, 2-3=-96/258  
BOT CHORD 1-4=-181/138, 3-4=-181/138  
WEBS 2-4=-394/178

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 17 lb uplift at joint 3 and 58 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Exterior(2R) 3-0-6 to 4-7-10, Exterior(2E) 4-7-10 to 7-7-10 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.



July 14, 2022

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

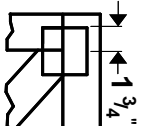
**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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.