ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 21040035-A
1100 Carolina Way-Roof-BB-2250

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: I45815316 thru I45815364

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

North Carolina COA: C-0844

April 26,2021

Johnson, Andrew

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	A01	Piggyback Base Girder	1	1	I45815316 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:27 Page: 1

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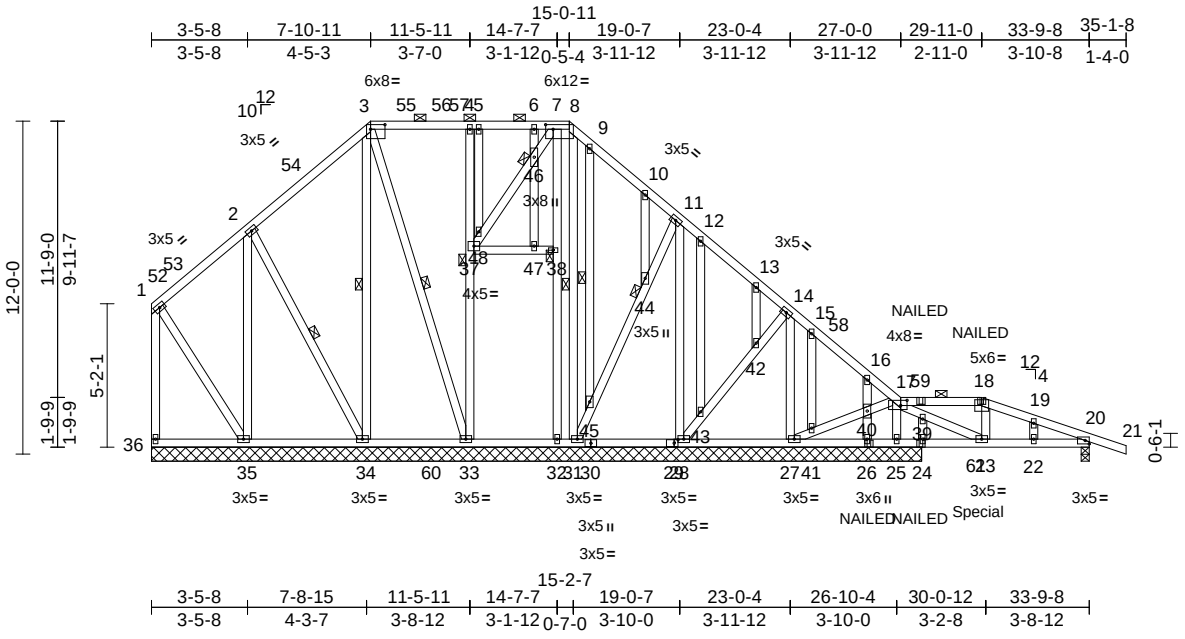

Scale = 1:83

Plate Offsets (X, Y): [3:0-6-4,0-2-0], [8:0-3-4,0-2-0], [17:0-2-12,0-2-4], [29:0-1-11,0-1-8]

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	0.44	Vert(LL)	-0.01	22-23	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.02	22-23	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.01	20	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 356 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 34-3,33-3,4-33,31-8,7-32:2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-8, 17-18.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-34, 3-34, 3-33, 8-31, 9-45
JOINTS 1 Brace at Jt(s): 37, 38, 44, 46

REACTIONS (size) 20=0-3-8, 24=27-9-0, 25=27-9-0, 26=27-9-0, 27=27-9-0, 28=27-9-0, 31=27-9-0, 32=27-9-0, 33=27-9-0, 34=27-9-0, 35=27-9-0, 36=27-9-0
Max Horiz 36=-361 (LC 10)
Max Uplift 20=-135 (LC 9), 25=-125 (LC 9), 26=-69 (LC 13), 27=-6 (LC 13), 28=-116 (LC 65), 31=-111 (LC 65), 32=-18 (LC 9), 33=-106 (LC 9), 34=-75 (LC 12), 35=-53 (LC 64), 36=-107 (LC 62)
Max Grav 20=535 (LC 47), 24=183 (LC 46), 25=420 (LC 39), 26=396 (LC 39), 27=260 (LC 39), 28=368 (LC 39), 31=439 (LC 39), 32=241 (LC 56), 33=536 (LC 38), 34=414 (LC 51), 35=336 (LC 51), 36=213 (LC 53)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-52=-111/80, 52-53=-76/86, 2-53=-32/115, 2-54=-124/159, 3-54=-11/213, 3-55=0/172, 55-56=0/172, 56-57=0/172, 4-57=0/172, 4-5=0/172, 5-6=0/172, 6-7=0/172, 7-8=0/172, 8-9=0/211, 9-10=-5/184, 10-11=-56/130, 11-12=-11/142, 12-13=-40/105, 13-14=-95/70, 14-15=-25/69, 15-58=-34/63, 16-58=-112/57, 16-17=-101/79, 17-59=-540/148, 18-59=-540/148, 18-19=-578/140, 19-20=-604/121, 20-21=0/36, 1-36=-185/116
BOT CHORD 35-36=-180/319, 34-35=-122/267, 34-60=-101/292, 33-60=-101/292, 32-33=-115/282, 31-32=-115/282, 30-31=-55/227, 29-30=-55/227, 28-29=-55/227, 27-28=-29/146, 26-27=-110/76, 25-26=-110/76, 24-25=-65/68, 24-61=-65/68, 23-61=-65/68, 22-23=-70/536, 20-22=-70/536
WEBS 2-35=-279/78, 2-34=-196/141, 3-34=-174/5, 3-33=-131/49, 33-37=-365/106, 4-37=-338/101, 8-31=-200/16, 31-45=-210/151, 44-45=-160/138, 11-44=-149/125, 11-28=-217/57, 28-43=-115/147, 42-43=-115/149, 14-42=-83/128, 14-27=-222/11, 27-41=-11/145, 40-41=-10/149, 17-40=-10/139, 17-25=-501/149, 17-39=-160/674, 23-39=-156/661, 18-23=-71/54, 1-35=-163/136, 32-38=-155/30, 7-38=-126/18, 37-47=0/0, 38-47=0/0, 37-48=-19/5, 46-48=-1/3, 7-46=-7/10, 19-22=-78/42, 24-39=-10/31, 16-40=-177/102, 26-40=-209/91, 15-41=-27/16, 13-42=-42/27, 12-43=-4/5, 10-44=-15/14, 9-45=-58/16, 6-46=-51/25, 46-47=-39/17, 5-48=-24/8

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.

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8) All plates are 2x4 MT20 unless otherwise indicated.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) N/A

13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 205 lb down and 41 lb up at 35-2-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-3=-60, 3-8=-60, 8-17=-60, 17-18=-60, 18-21=-60, 36-49=-20
   Concentrated Loads (lb)
   Vert: 18=-47 (B), 24=-23 (B), 26=-131 (B), 59=-43 (B), 61=-205 (B)

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	A02	Piggyback Base	1	1	I45815317 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:32 Page: 1

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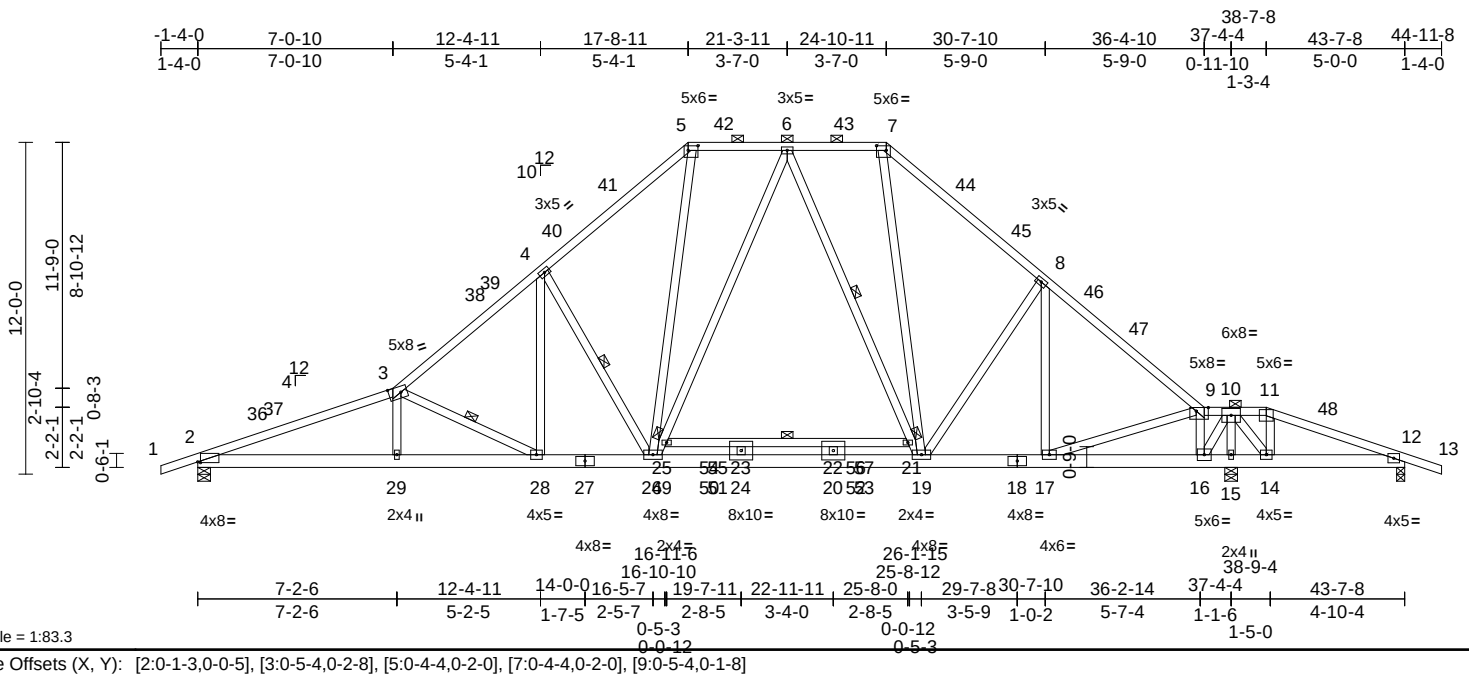


Plate Offsets (X, Y): [2:0-1-3,0-0-5], [3:0-5-4,0-2-8], [5:0-4-4,0-2-0], [7:0-4-4,0-2-0], [9:0-5-4,0-1-8]

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	0.94	Vert(LL)	-0.25	22-23	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.54	22-23	>831	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.07	15	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 338 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-3:2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* 25-21:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 5-26,7-19,6-26,6-19:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-6-12 max.): 5-7, 9-11.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 6-0-0 oc bracing: 21-25
WEBS 1 Row at midpt 3-28, 4-26, 6-21

REACTIONS (size) 2=0-5-8, 12=0-3-8, 15=0-5-8
Max Horiz 2=214 (LC 13)
Max Uplift 2=-56 (LC 14), 12=-222 (LC 58)
Max Grav 2=1699 (LC 21), 12=210 (LC 53), 15=2727 (LC 43)

FORCES (lb) - Maximum Compression/Maximum Tension

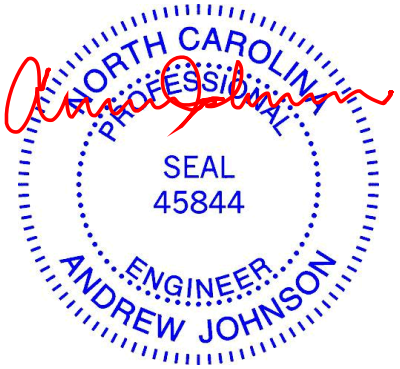
TOP CHORD 1-2=0/41, 2-36=-4079/49, 36-37=-4056/55, 3-37=-4041/70, 3-38=-2872/59, 38-39=-2757/69, 4-39=-2692/82, 4-40=-2370/84, 40-41=-2223/103, 5-41=-2221/121, 5-42=-1568/156, 6-42=-1568/156, 6-43=-1316/153, 7-43=-1316/153, 7-44=-1851/110, 44-45=-1858/91, 8-45=-2021/70, 8-46=-1669/61, 46-47=-1810/39, 9-47=-1987/35, 9-10=-24/241, 10-11=0/893, 11-48=0/1005, 12-48=0/959, 12-13=0/39

BOT CHORD 2-29=-81/3834, 28-29=-78/3837, 27-28=0/2204, 26-27=0/2204, 26-49=0/1473, 49-50=0/1473, 50-51=0/1473, 24-51=0/1473, 20-24=0/1473, 20-52=0/1473, 52-53=0/1473, 19-53=0/1473, 18-19=0/1415, 17-18=0/1415, 16-17=-344/91, 15-16=-1176/83, 14-15=-1176/83, 12-14=-899/62, 25-54=-34/0, 54-55=-34/0, 23-55=-34/0, 22-23=-34/0, 22-56=-34/0, 56-57=-34/0, 21-57=-34/0

WEBS 3-29=0/169, 3-28=-1930/125, 4-28=-77/810, 4-26=-1043/314, 8-19=-110/393, 8-17=-611/0, 9-17=0/1750, 9-16=-1980/115, 11-14=-479/68, 5-26=0/1173, 7-19=0/928, 25-26=-100/384, 6-25=-69/432, 6-21=-571/138, 19-21=-617/108, 23-24=-134/0, 20-22=-138/0, 10-15=-2175/0, 10-16=-2/2047, 10-14=-61/534

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 3-0-6, Interior (1) 3-0-6 to 13-4-6, Exterior (2) 13-4-6 to 29-3-0, Interior (1) 29-3-0 to 40-7-2, Exterior (2) 40-7-2 to 44-11-8 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) 200.0lb AC unit load placed on the bottom chord, 21-3-11 from left end, supported at two points, 5-0-0 apart.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	A03	Piggyback Base	5	1	I45815318 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:33 Page: 1

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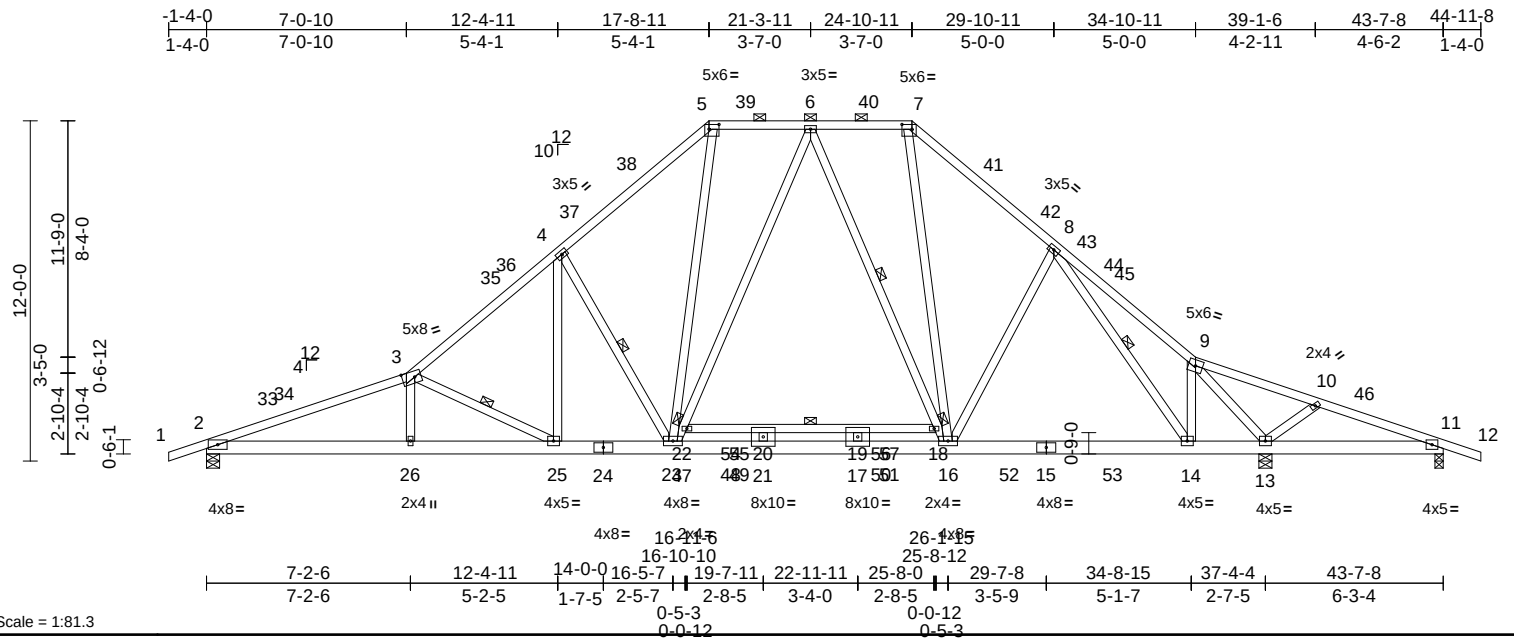


Scale = 1:81.3

Plate Offsets (X, Y): [3:0-5-4,0-2-8], [5:0-4-4,0-2-0], [7:0-4-4,0-2-0]

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	0.94	Vert(LL)	-0.24	19-20	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.53	19-20	>840	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.09	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 334 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-3:2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* 22-18:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 5-23,7-16,6-23,6-16:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-6-9 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 23-25 6-0-0 oc bracing: 11-13. 6-0-0 oc bracing: 18-22
WEBS 1 Row at midpt 3-25, 4-23, 8-14, 6-18

REACTIONS (size) 2=0-5-8, 11=0-3-8, 13=0-5-8
Max Horiz 2=195 (LC 14)
Max Uplift 2=-54 (LC 14), 11=-288 (LC 55)
Max Grav 2=1697 (LC 21), 11=200 (LC 49), 13=2494 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

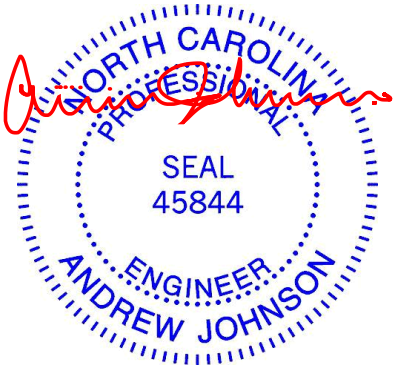
TOP CHORD 1-2=0/41, 2-33=-4046/36, 33-34=-4016/42, 3-34=-4002/58, 3-35=-2850/49, 35-36=-2754/59, 4-36=-2701/73, 4-37=-2384/74, 37-38=-2237/93, 5-38=-2235/111, 5-39=-1577/149, 6-39=-1577/149, 6-40=-1330/143, 7-40=-1330/143, 7-41=-1883/110, 41-42=-1887/91, 8-42=-2019/75, 8-43=-843/82, 43-44=-857/77, 44-45=-910/67, 9-45=-1006/59, 9-10=-83/1148, 10-46=-26/1004, 11-46=-39/978, 11-12=0/41

BOT CHORD 2-26=-73/3797, 25-26=-70/3801, 24-25=0/2222, 23-24=0/2222, 23-47=0/1490, 47-48=0/1490, 48-49=0/1490, 21-49=0/1490, 17-21=0/1490, 17-50=0/1490, 50-51=0/1490, 16-51=0/1490, 16-52=0/1428, 15-52=0/1428, 15-53=0/1428, 14-53=0/1428, 13-14=0/701, 11-13=-928/96, 22-54=-33/0, 54-55=-33/0, 20-55=-33/0, 19-20=-33/0, 19-56=-33/0, 56-57=-33/0, 18-57=-33/0

WEBS 3-26=0/170, 3-25=-1929/122, 4-25=-77/809, 4-23=-1037/315, 8-16=-139/311, 8-14=-1255/0, 9-14=0/1026, 9-13=-2753/76, 10-13=-522/156, 5-23=0/1186, 7-16=0/966, 22-23=-99/387, 6-22=-69/435, 6-18=-575/131, 16-18=-622/100, 20-21=-135/0, 17-19=-139/0

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 3-0-6, Interior (1) 3-0-6 to 13-4-6, Exterior (2) 13-4-6 to 29-3-0, Interior (1) 29-3-0 to 40-7-2, Exterior (2) 40-7-2 to 44-11-8 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) 200.0lb AC unit load placed on the bottom chord, 21-3-11 from left end, supported at two points, 5-0-0 apart.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	A04	Piggyback Base	1	1	I45815319 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:34 Page: 1
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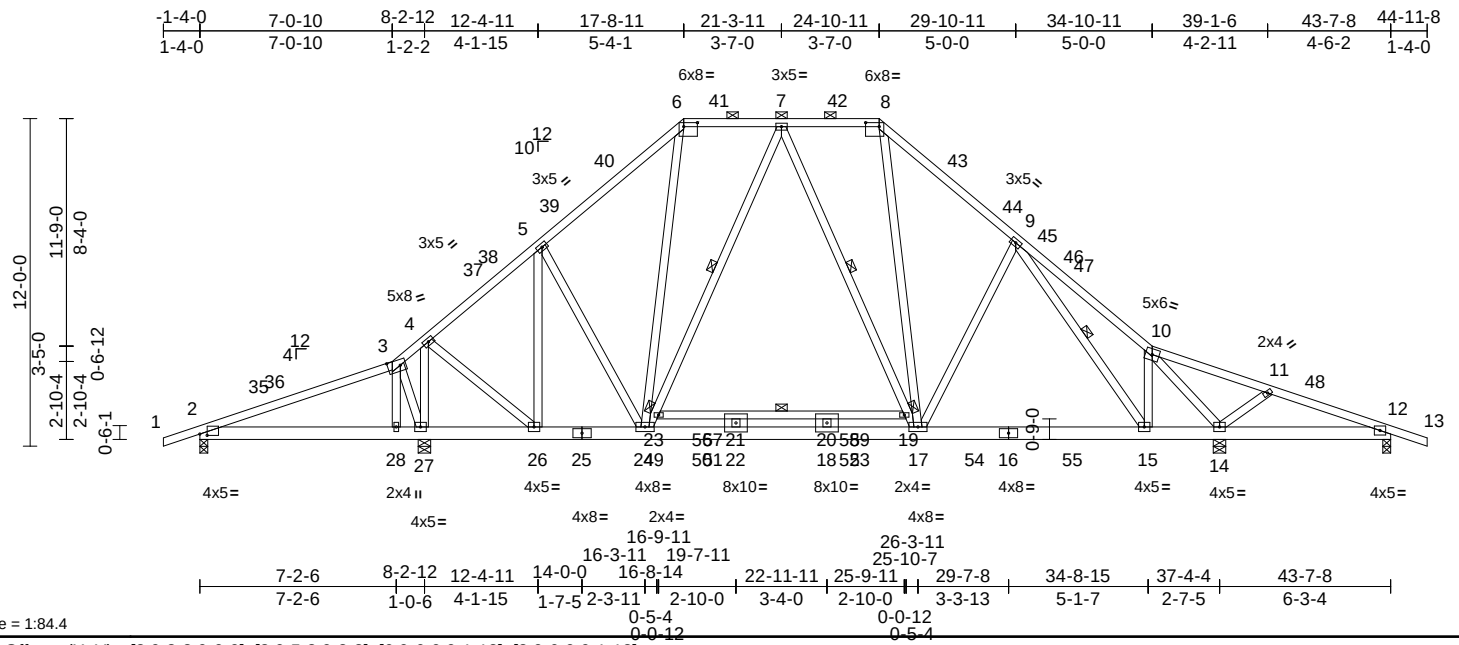


Plate Offsets (X, Y): [2:0-3-3,0-0-9], [3:0-5-8,0-2-8], [6:0-6-0,0-1-12], [8:0-6-0,0-1-12]

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	0.70	Vert(LL)	-0.19	20-21	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.39	20-21	>904	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.03	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 342 lb	FT = 20%

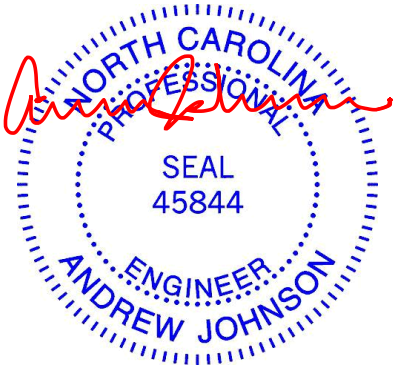
LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 23-19:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 24-6,17-8,17-7,24-7:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-1 oc purlins, except 2-0-0 oc purlins (5-8-3 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-28,26-27,12-14. 6-0-0 oc bracing: 19-23
WEBS 1 Row at midpt 9-15, 7-19, 7-23

REACTIONS (size) 2=0-3-8, 12=0-3-8, 14=0-5-8, 27=0-5-8
Max Horiz 2=195 (LC 14)
Max Uplift 2=-148 (LC 10), 12=-120 (LC 11), 14=-53 (LC 15), 27=-2 (LC 14)
Max Grav 2=566 (LC 45), 12=355 (LC 49), 14=1878 (LC 6), 27=1809 (LC 51)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/41, 2-35=-307/135, 35-36=-238/141, 3-36=-205/157, 3-4=-62/182, 4-37=-1064/41, 37-38=-971/52, 5-38=-930/62, 5-39=-1419/58, 39-40=-1276/76, 6-40=-1271/95, 6-41=-906/141, 7-41=-906/141, 7-42=-1034/139, 8-42=-1034/139, 8-43=-1468/103, 43-44=-1474/85, 9-44=-1606/68, 9-45=-970/83, 45-46=-976/78, 46-47=-1036/68, 10-47=-1132/60, 10-11=-101/522, 11-48=-25/412, 12-48=-37/383, 12-13=0/41
BOT CHORD 2-28=-72/194, 27-28=-73/213, 26-27=-111/198, 25-26=0/900, 24-25=0/900, 24-49=0/1066, 49-50=0/1066, 50-51=0/1066, 22-51=0/1066, 18-22=0/1066, 18-52=0/1066, 52-53=0/1066, 17-53=0/1066, 17-54=0/1190, 16-54=0/1190, 16-55=0/1190, 15-55=0/1190, 14-15=0/812, 12-14=-343/92, 23-56=-38/0, 56-57=-38/0, 21-57=-38/0, 20-21=-38/0, 20-58=-38/0, 58-59=-38/0, 19-59=-38/0
WEBS 3-28=-30/321, 5-26=-907/0, 5-24=0/584, 6-24=0/582, 8-17=0/711, 9-17=-271/285, 9-15=-653/0, 10-15=0/538, 10-14=-1964/70, 11-14=-513/158, 7-19=-119/246, 17-19=-175/178, 23-24=-403/115, 7-23=-349/145, 21-22=-144/0, 18-20=-136/0, 4-26=0/1086, 4-27=-1505/15, 3-27=-690/185

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 3-0-6, Interior (1) 3-0-6 to 13-4-6, Exterior (2) 13-4-6 to 29-3-0, Interior (1) 29-3-0 to 40-7-2, Exterior (2) 40-7-2 to 44-11-8 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) 200.0lb AC unit load placed on the bottom chord, 21-3-11 from left end, supported at two points, 5-0-0 apart.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 14, 12, and 27. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Continued on page 2

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818 Soundside Road
Edenton, NC 27932

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	A04A	Piggyback Base	1	1	I45815320 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:36
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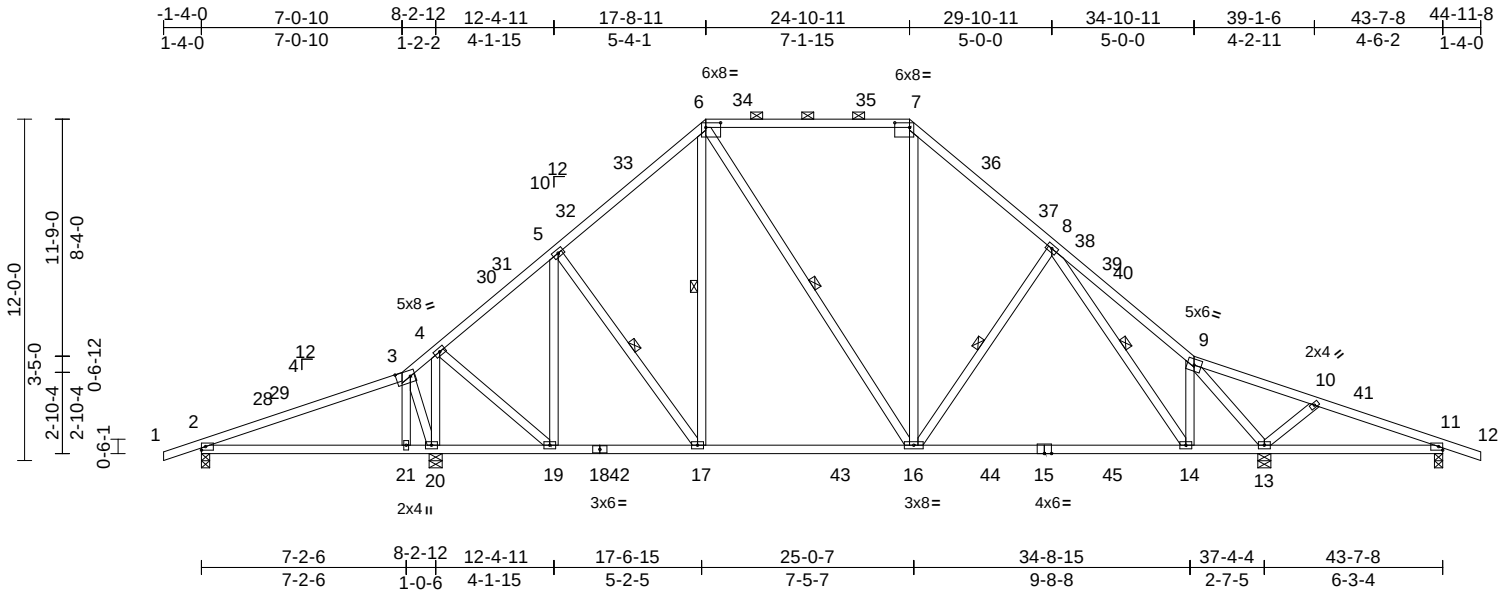


Scale = 1:81

Plate Offsets (X, Y): [3:0-6-0,0-2-8], [6:0-6-4,0-2-0], [7:0-6-4,0-2-0]

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	0.97	Vert(LL)	-0.24	14-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.43	14-16	>806	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.04	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 279 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 6-7:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 17-6,16-6,16-7:2x4 SP No.2

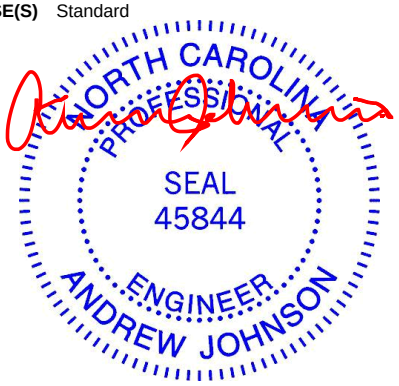
BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 14-16
6-0-0 oc bracing: 11-13.
WEBS 1 Row at midpt 6-17, 6-16, 8-16, 8-14, 5-17

REACTIONS (size) 2=0-3-8, 11=0-3-8, 13=0-5-8, 20=0-5-8
Max Horiz 2=195 (LC 14)
Max Uplift 2=-172 (LC 10), 11=-100 (LC 11), 13=-203 (LC 15), 20=-145 (LC 14)
Max Grav 2=673 (LC 45), 11=390 (LC 49), 13=1606 (LC 22), 20=1525 (LC 41)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/41, 2-28=-600/194, 28-29=-515/202, 3-29=-494/217, 3-4=-295/250, 4-30=-974/187, 30-31=-868/193, 5-31=-827/207, 5-32=-1097/268, 32-33=-952/285, 6-33=-946/305, 6-34=-798/293, 34-35=-798/293, 7-35=-798/293, 7-36=-1050/309, 36-37=-1082/291, 8-37=-1186/274, 8-38=-918/180, 38-39=-925/176, 39-40=-984/165, 9-40=-1081/158, 9-10=-106/415, 10-41=-42/298, 11-41=-123/264, 11-12=0/41
BOT CHORD 2-21=-176/469, 20-21=-124/485, 19-20=-79/169, 18-19=-67/795, 18-42=-67/795, 17-42=-67/795, 17-43=0/800, 16-43=0/800, 16-44=0/941, 15-44=0/941, 15-45=0/941, 14-45=0/941, 13-14=0/773, 11-13=-229/110
WEBS 3-21=0/327, 6-17=-82/259, 6-16=-85/263, 7-16=-47/425, 8-16=-337/239, 8-14=-350/75, 9-14=0/485, 9-13=-1785/215, 10-13=-535/152, 3-20=-828/156, 4-20=-1325/106, 4-19=-32/929, 5-19=-486/78, 5-17=-95/259

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 3-0-6, Interior (1) 3-0-6 to 13-4-6, Exterior (2) 13-4-6 to 29-3-0, Interior (1) 29-3-0 to 40-7-2, Exterior (2) 40-7-2 to 44-11-8 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 3x5 MT20 unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 11, and 20. This connection is for uplift only and does not consider lateral forces.
11) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	A05	Piggyback Base	5	1	I45815321 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:37 Page: 1
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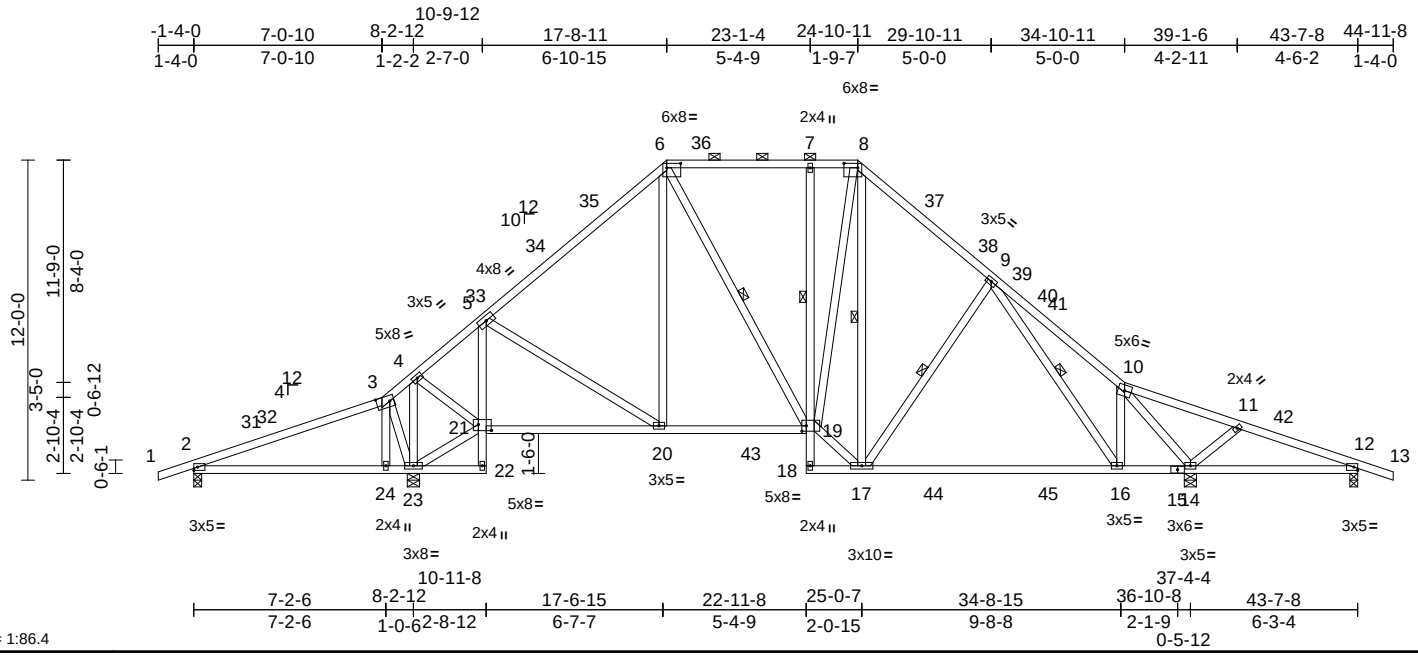

Scale = 1:86.4

Plate Offsets (X, Y): [3:0-6-0,0-2-8], [6:0-6-4,0-2-0], [8:0-6-4,0-2-0], [19:0-2-0,0-2-8], [21:0-5-12,0-2-12]

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	0.99	Vert(LL)	-0.24	16-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.43	16-17	>813	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.06	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 306 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 22-5:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 19-6,17-8:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (5-2-7 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 7-19
WEBS 1 Row at midpt 6-19, 8-17, 9-17, 9-16

REACTIONS (size) 2=0-3-8, 12=0-3-8, 14=0-5-8, 23=0-5-8
Max Horiz 2=195 (LC 14)
Max Uplift 2=-202 (LC 10), 12=-99 (LC 11), 14=-211 (LC 15), 23=-157 (LC 14)
Max Grav 2=609 (LC 45), 12=388 (LC 49), 14=1580 (LC 22), 23=1663 (LC 41)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/41, 2-31=-422/308, 31-32=-338/321, 3-32=-317/363, 3-4=-113/456, 4-5=-780/148, 5-33=-1215/210, 33-34=-1203/230, 34-35=-984/240, 6-35=-939/264, 6-36=-833/286, 7-36=-833/286, 7-8=-827/286, 8-37=-970/309, 37-38=-978/290, 9-38=-1142/274, 9-39=-855/177, 39-40=-861/172, 40-41=-921/162, 10-41=-1017/154, 10-11=-108/421, 11-42=-45/294, 12-42=-105/260, 12-13=0/41
BOT CHORD 2-24=-185/301, 23-24=-175/319, 22-23=-23/18, 21-22=0/44, 5-21=-735/144, 20-21=-136/743, 20-43=0/818, 19-43=0/818, 18-19=-177/0, 7-19=-452/139, 17-18=-58/7, 17-44=0/909, 44-45=0/909, 16-45=0/909, 15-16=0/731, 14-15=0/731, 12-14=-226/113
WEBS 3-24=0/365, 5-20=-44/359, 6-20=-31/209, 6-19=-114/291, 17-19=0/1024, 8-19=-119/747, 8-17=-276/122, 9-17=-340/239, 9-16=-346/78, 10-16=0/464, 10-14=-1704/216, 11-14=-536/153, 4-21=-97/1108, 3-23=-832/159, 4-23=-1269/52, 21-23=-327/147

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 3-0-6, Interior (1) 3-0-6 to 13-4-6, Exterior (2) 13-4-6 to 29-3-0, Interior (1) 29-3-0 to 40-7-2, Exterior (2) 40-7-2 to 44-11-8 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 23. This connection is for uplift only and does not consider lateral forces.
10) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	A06	Piggyback Base	1	1	I45815322 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:38 Page: 1
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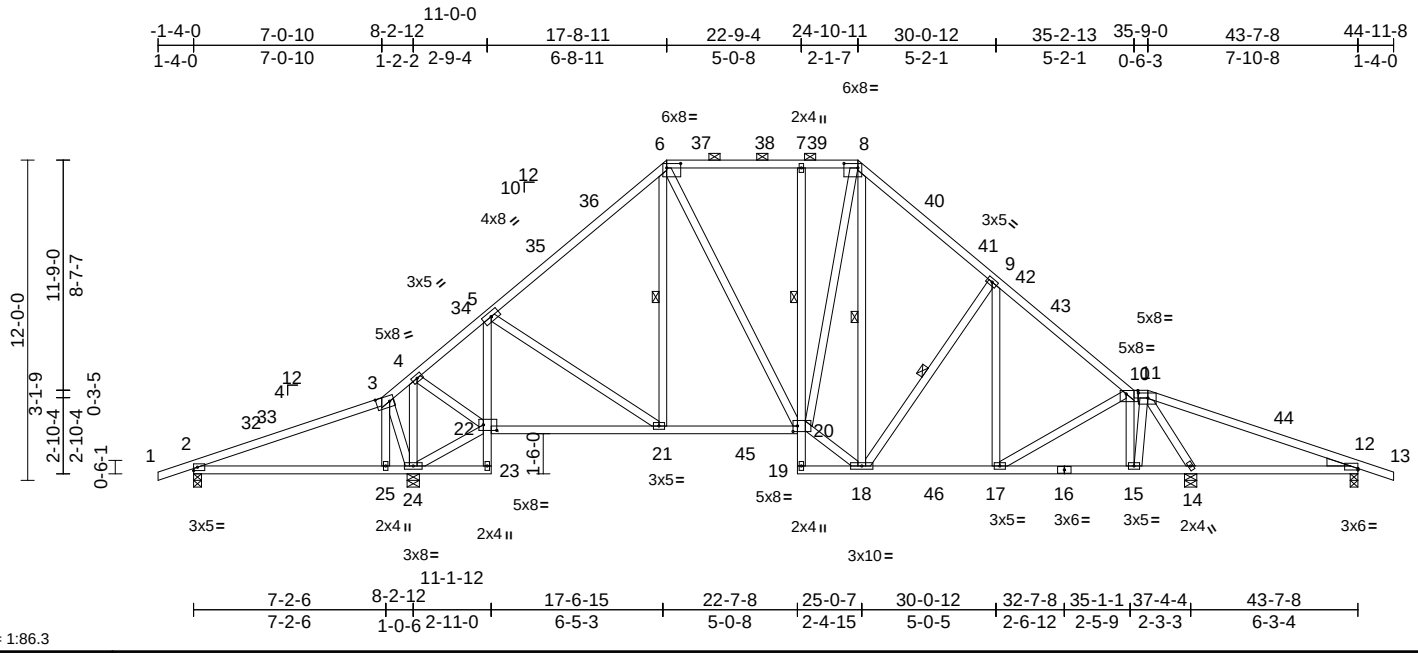

Scale = 1:86.3

Plate Offsets (X, Y): [3:0-6-0,0-2-8], [6:0-6-4,0-2-0], [8:0-6-4,0-2-0], [10:0-5-4,0-1-8], [11:0-4-4,0-2-4], [12:Edge,0-0-11], [20:0-2-0,0-2-8], [22:0-6-0,0-2-8]

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	0.95	Vert(LL)	-0.09	25-28	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.16	25-28	>600	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 313 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 11-13:2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* 23-5:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 20-6,18-8:2x4 SP No.2
WEDGE Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-6-10 max.): 6-8, 10-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 7-20
WEBS 1 Row at midpt 6-21, 8-18, 9-18

REACTIONS (size) 2=0-3-8, 12=0-3-8, 14=0-5-8, 24=0-5-8
Max Horiz 2=195 (LC 14)
Max Uplift 2=-202 (LC 69), 12=-183 (LC 70), 14=-106 (LC 15), 24=-167 (LC 14)
Max Grav 2=607 (LC 48), 12=574 (LC 53), 14=1706 (LC 43), 24=1737 (LC 43)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/41, 2-32=-417/322, 32-33=-332/334, 3-33=-312/377, 3-4=-107/472, 4-34=-858/158, 5-34=-762/161, 5-35=-1281/248, 35-36=-1050/259, 6-36=-1010/282, 6-37=-907/306, 37-38=-907/306, 7-38=-907/306, 7-39=-905/306, 8-39=-905/306, 8-40=-1066/341, 40-41=-1076/323, 9-41=-1251/305, 9-42=-1294/267, 42-43=-1303/265, 10-43=-1585/246, 10-11=-1055/210, 11-44=-296/290, 12-44=-406/239, 12-13=0/38
BOT CHORD 2-25=-204/296, 24-25=-194/313, 23-24=-22/17, 22-23=0/48, 5-22=-734/144, 21-22=-133/771, 21-45=0/842, 20-45=0/842, 19-20=-5/17, 7-20=-423/129, 18-19=-19/19, 18-46=-14/1120, 17-46=-14/1120, 16-17=-93/1055, 15-16=-93/1055, 14-15=-98/919, 12-14=-200/281
WEBS 3-25=0/362, 5-21=-45/345, 6-21=-40/199, 6-20=-129/336, 18-20=0/966, 8-20=-100/697, 8-18=-304/132, 9-18=-532/254, 9-17=-26/183, 10-17=-113/287, 10-15=-900/102, 11-15=-49/899, 11-14=-1691/202, 4-22=-93/1161, 3-24=-825/161, 4-24=-1325/69, 22-24=-341/154

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 3-0-6, Interior (1) 3-0-6 to 13-4-6, Exterior (2) 13-4-6 to 29-3-0, Interior (1) 29-3-0 to 40-7-2, Exterior (2) 40-7-2 to 44-11-8 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 24, and 12. This connection is for uplift only and does not consider lateral forces.
10) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 38 lb up at 30-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

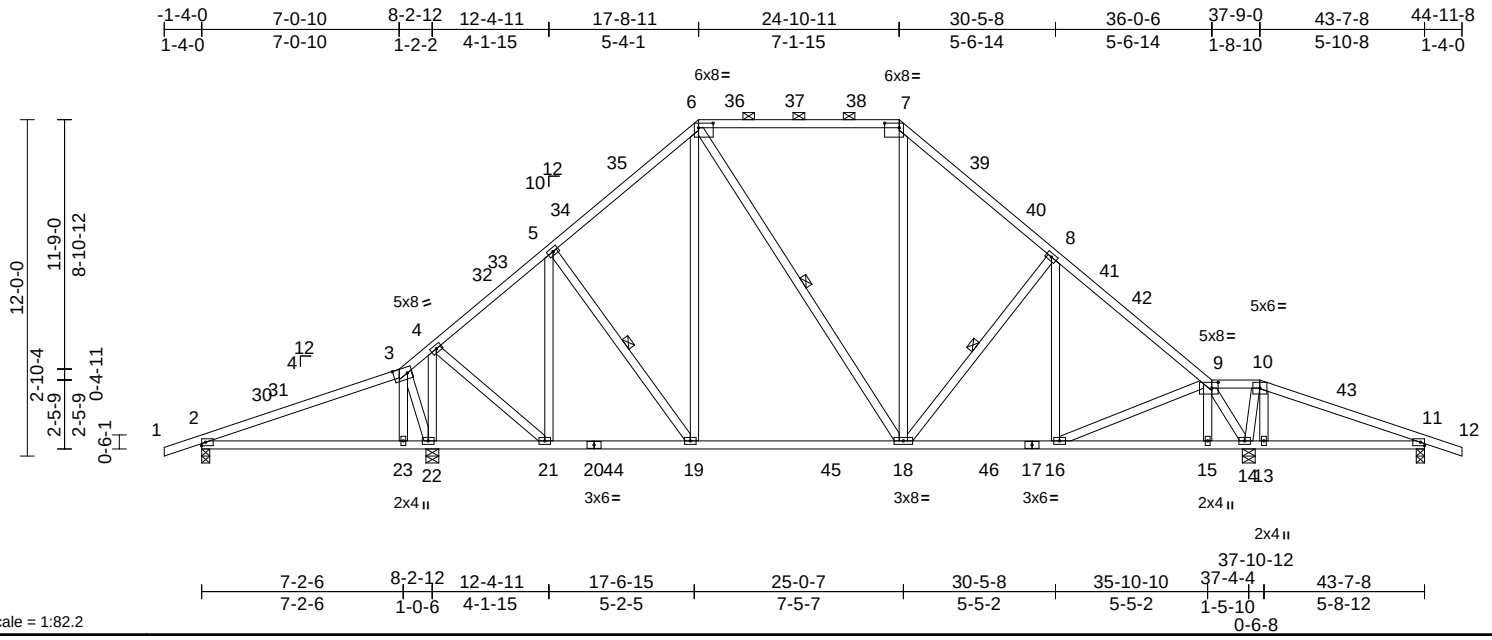
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-3=-60, 3-6=-60, 6-8=-60, 8-10=-60, 10-11=-60, 11-13=-60, 23-26=-20, 20-22=-20, 19-29=-20
   Concentrated Loads (lb)
   Vert: 42=-7

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	A07	Piggyback Base	1	1	I45815323 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:39 ID:TGbrfQI4wGk2Y8?K889gLqzNyRN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:82.2

Plate Offsets (X, Y): [3:0-6-0,0-2-8], [6:0-6-4,0-2-0], [7:0-6-4,0-2-0], [9:0-2-12,0-2-8]

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	0.97	Vert(LL)	0.06	23-26	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.20	18-19	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 283 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-7:2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 19-6,18-6,18-7:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 6-7, 9-10.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,11-13.

WEBS 1 Row at midpt 6-18, 8-18, 5-19

REACTIONS (size) 2=0-3-8, 11=0-3-8, 14=0-5-8, 22=0-5-8

Max Horiz 2=202 (LC 13)

Max Uplift 2=-171 (LC 10), 11=-142 (LC 11), 14=-152 (LC 15), 22=-149 (LC 14)

Max Grav 2=674 (LC 48), 11=446 (LC 53), 14=1843 (LC 43), 22=1548 (LC 43)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/41, 2-30=-603/191, 30-31=-519/199, 3-31=-497/214, 3-4=-300/247, 4-32=-990/192, 32-33=-879/198, 5-33=-830/212, 5-34=-1124/273, 34-35=-963/291, 6-35=-957/310, 6-36=-801/307, 36-37=-801/307, 37-38=-801/307, 7-38=-801/307, 7-39=-1049/320, 39-40=-1052/300, 8-40=-1250/281, 8-41=-1213/234, 41-42=-1337/214, 9-42=-1521/209, 9-10=0/363, 10-43=-90/322, 11-43=-172/259, 11-12=0/38

BOT CHORD 2-23=-176/472, 22-23=-123/488, 21-22=-95/172, 20-21=-70/793, 20-44=-70/793, 19-44=-70/793, 19-45=0/804, 18-45=0/804, 18-46=-1/1061, 17-46=-1/1061, 16-17=-1/1061, 15-16=-7/542, 14-15=-11/539, 13-14=-234/77, 11-13=-223/85

WEBS 3-23=0/322, 6-19=-73/286, 6-18=-99/258, 7-18=-48/409, 8-18=-437/240, 8-16=-99/80, 9-16=-4/575, 9-15=0/169, 10-13=0/346, 3-22=-827/156, 4-22=-1319/114, 4-21=-39/924, 5-21=-504/78, 5-19=-91/262, 9-14=-1586/154, 10-14=-606/33

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 3-0-6, Interior (1) 3-0-6 to 13-4-6, Exterior (2) 13-4-6 to 29-3-0, Interior (1) 29-3-0 to 40-7-2, Exterior (2) 40-7-2 to 44-11-8 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 3x5 MT20 unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 22, and 11. This connection is for uplift only and does not consider lateral forces.
11) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	A08	Piggyback Base Girder	1	1	I45815324 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:41 Page: 1
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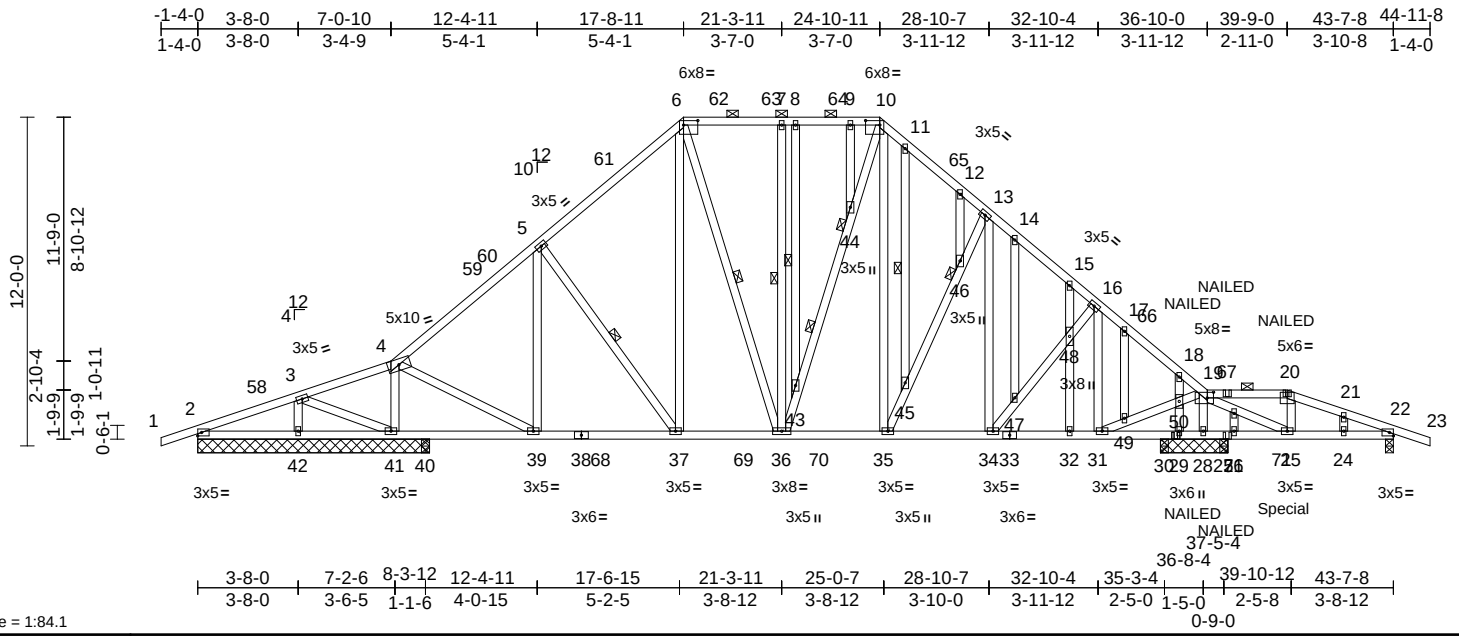

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Plate Offsets (X, Y): [6:0-6-4,0-2-0], [10:0-6-4,0-2-0], [19:0-2-12,0-2-8]

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	0.67	Vert(LL)	-0.04	37-39	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.08	37-39	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.02	30	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 390 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 37-6,36-6,7-36,36-10,35-10:2x4 SP No.2
OTHERS 2x4 SP No.3

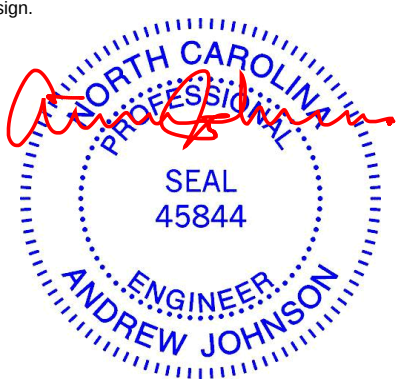
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-10, 19-20.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-37, 6-36, 7-36, 36-44, 8-43, 11-45
JOINTS 1 Brace at Jt(s): 44, 46

REACTIONS (size) 2=8-5-8, 22=0-3-8, 27=0-3-8, 28=2-5-8, 29=2-5-8, 30=0-3-8, 40=0-3-8, 41=8-5-8, 42=8-5-8, 52=8-5-8
Max Horiz 2=229 (LC 11), 52=229 (LC 11)
Max Uplift 2=-127 (LC 66), 22=-141 (LC 9), 28=-121 (LC 13), 29=-136 (LC 13), 41=-202 (LC 68), 42=-60 (LC 66), 52=-127 (LC 66)
Max Grav 2=347 (LC 46), 22=530 (LC 51), 27=177 (LC 50), 28=1258 (LC 41), 29=568 (LC 41), 30=234 (LC 41), 40=128 (LC 7), 41=1406 (LC 41), 42=372 (LC 46), 52=347 (LC 46)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/41, 2-58=-133/151, 3-58=-116/130, 3-4=-120/263, 4-59=-1109/114, 59-60=-975/124, 5-60=-909/138, 5-61=-1133/189, 6-61=-947/207, 6-62=-758/204, 62-63=-758/204, 7-63=-758/204, 7-8=-758/204, 8-64=-758/204, 9-64=-758/204, 9-10=-758/204, 10-11=-939/241, 11-65=-982/228, 12-65=-1043/219, 12-13=-1097/200, 13-14=-1097/185, 14-15=-1203/174, 15-16=-1226/122, 16-17=-1010/130, 17-66=-1015/104, 18-66=-1120/100, 18-19=-982/14, 19-67=-484/164, 20-67=-484/164, 20-21=-520/157, 21-22=-541/137, 22-23=0/39
BOT CHORD 2-42=-124/137, 41-42=-95/122, 40-41=-253/155, 39-40=-253/155, 38-39=-60/870, 38-68=-60/870, 37-68=-60/870, 37-69=-11/786, 36-69=-11/786, 36-70=0/767, 35-70=0/767, 34-35=0/887, 33-34=0/786, 32-33=0/786, 31-32=0/786, 30-31=-428/120, 29-30=-428/120, 28-29=-428/120, 27-28=-301/107, 26-27=-301/107, 26-71=-301/107, 25-71=-301/107, 24-25=-86/477, 22-24=-86/477
WEBS 3-42=-284/112, 3-41=-136/72, 4-41=-1358/211, 4-39=-72/1099, 5-39=-391/93, 5-37=-175/185, 6-37=-92/295, 6-36=-133/285, 7-36=-318/111, 36-43=-112/201, 43-44=-135/248, 10-44=-148/271, 10-35=-152/436, 35-45=-347/221, 45-46=-337/214, 13-46=-301/194, 13-34=-102/84, 34-47=-30/234, 47-48=-32/239, 16-48=-24/235, 16-31=-451/13, 31-49=-38/1319, 49-50=-50/1327, 19-50=-39/1235, 19-28=-1311/137, 19-51=-181/809, 25-51=-177/795, 20-25=-101/64, 8-43=-60/24, 9-44=-23/18, 11-45=-14/9, 12-46=-39/23, 14-47=-10/3, 15-48=-83/61, 32-48=-60/48, 17-49=-21/28, 18-50=-408/122, 29-50=-706/157, 26-51=-8/31, 21-24=-89/43

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



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ENGINEERING BY TRENCO A MiTek Affiliate
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Edenton, NC 27932

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) N/A

13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 205 lb down and 41 lb up at 39-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-4=-60, 4-6=-60, 6-10=-60, 10-19=-60, 19-20=-60, 20-23=-60, 52-55=-20
   Concentrated Loads (lb)
   Vert: 20=-47 (F), 18=-102 (F), 29=-29 (F), 27=-23 (F), 67=-43 (F), 71=-205 (F)

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	B01	Piggyback Base	2	1	I45815325 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

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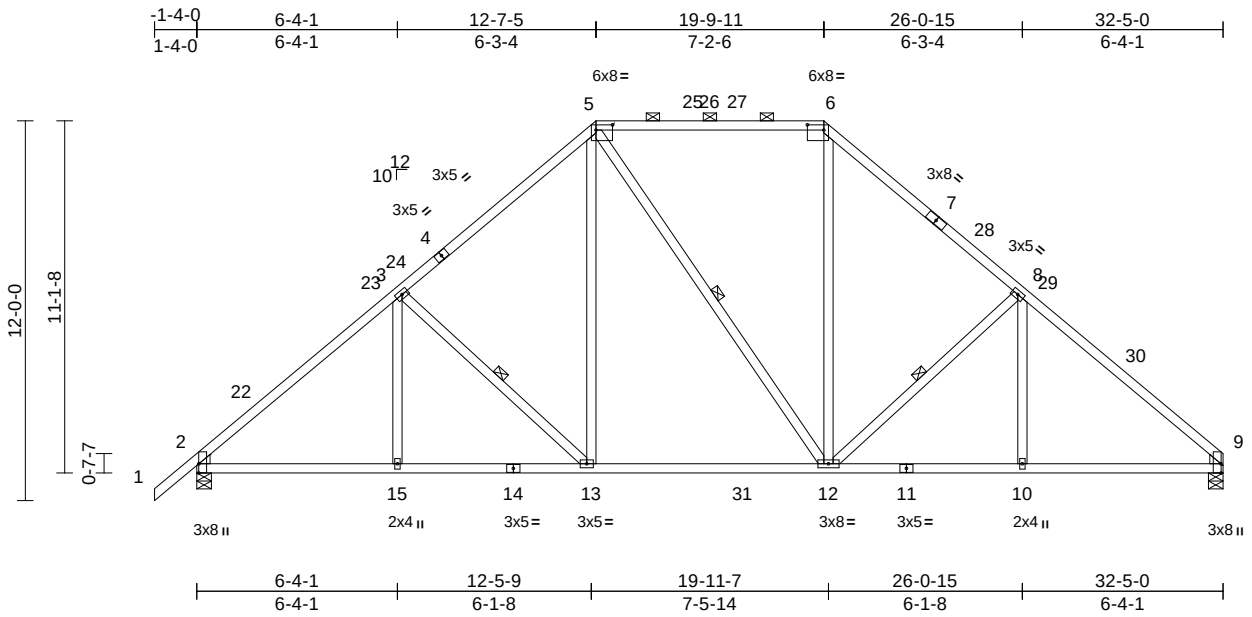
Page: 1



Scale = 1:72.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [5:0-6-4,0-2-0], [6:0-6-4,0-2-0], [9:0-3-8,Edge]

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	0.77	Vert(LL)	-0.15	12-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.25	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 202 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 5-6:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 13-5,12-5,12-6:2x4 SP No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-13, 5-12, 8-12

REACTIONS (size) 2=0-5-8, 9=0-5-8
Max Horiz 2=279 (LC 11)
Max Uplift 2=-169 (LC 14), 9=-139 (LC 15)
Max Grav 2=1519 (LC 37), 9=1436 (LC 37)

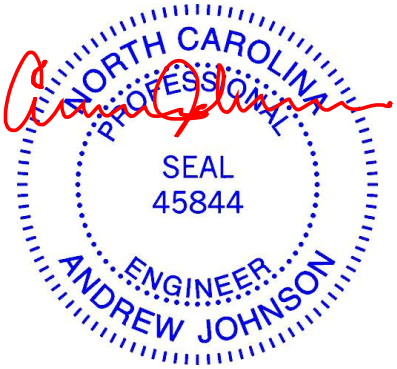
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/51, 2-22=-1917/234, 22-23=-1713/265, 3-23=-1682/268, 3-24=-1561/287, 4-24=-1532/292, 4-5=-1355/336, 5-25=-1031/329, 25-26=-1031/329, 26-27=-1031/329, 6-27=-1031/329, 6-7=-1359/339, 7-28=-1395/311, 8-28=-1564/295, 8-29=-1690/279, 29-30=-1720/277, 9-30=-1925/253
BOT CHORD 2-15=-216/1405, 14-15=-216/1405, 13-14=-216/1405, 13-31=-73/1030, 12-31=-73/1030, 11-12=-107/1402, 10-11=-107/1402, 9-10=-107/1402
WEBS 3-15=0/224, 3-13=-502/244, 5-13=-76/598, 5-12=-161/173, 6-12=-57/528, 8-12=-516/250, 8-10=0/225

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 1-10-14, Interior (1) 1-10-14 to 8-0-5, Exterior (2) 8-0-5 to 24-4-11, Interior (1) 24-4-11 to 29-2-2, Exterior (2) 29-2-2 to 32-5-0 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	B02	Piggyback Base	6	1	I45815326 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:44 Page: 1
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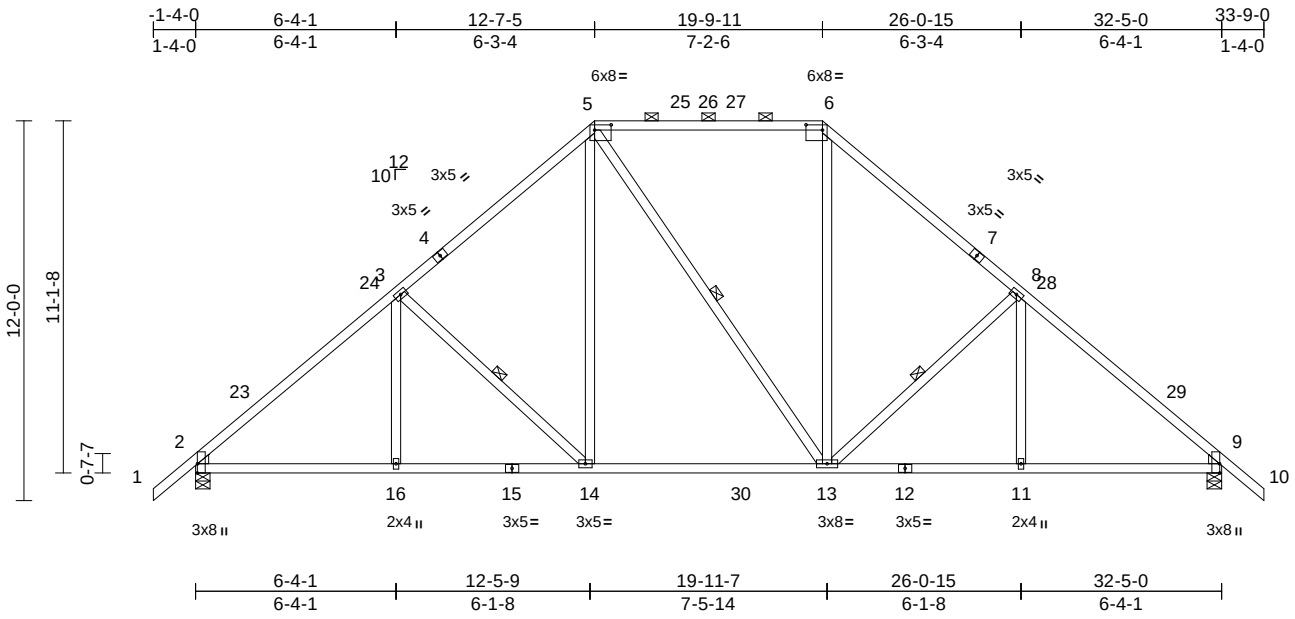


Scale = 1:72.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [5:0-6-4,0-2-0], [6:0-6-4,0-2-0], [9:0-3-8,Edge]

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	0.81	Vert(LL)	-0.15	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.26	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 204 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1 *Except* 5-6:2x4 SP 2400F 2.0E, 1-4,7-10:2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 14-5,13-5,13-6:2x4 SP No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

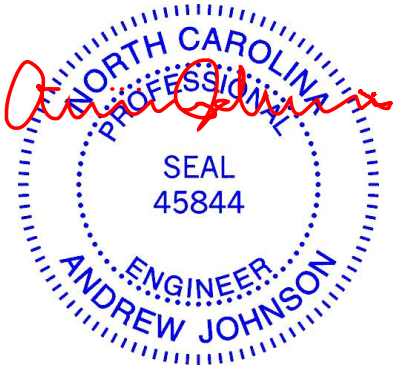
BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-14, 5-13, 8-13

REACTIONS (size) 2=0-5-8, 9=0-5-8
Max Horiz 2=-288 (LC 12)
Max Uplift 2=-168 (LC 14), 9=-168 (LC 15)
Max Grav 2=1517 (LC 37), 9=1517 (LC 37)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-23=-1913/230, 23-24=-1708/262, 3-24=-1678/264, 3-4=-1558/288, 4-5=-1352/332, 5-25=-1029/325, 25-26=-1029/325, 26-27=-1029/325, 6-27=-1029/325, 6-7=-1353/332, 7-8=-1558/288, 8-28=-1678/264, 28-29=-1708/262, 9-29=-1913/230, 9-10=0/51
BOT CHORD 2-16=-196/1415, 15-16=-196/1415, 14-15=-196/1415, 14-30=-62/1037, 13-30=-62/1037, 12-13=-35/1389, 11-12=-35/1389, 9-11=-35/1389
WEBS 3-16=0/223, 3-14=-500/243, 5-14=-75/596, 5-13=-170/171, 6-13=-56/525, 8-13=-503/244, 8-11=0/223

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 1-10-14, Interior (1) 1-10-14 to 8-0-5, Exterior (2) 8-0-5 to 24-4-11, Interior (1) 24-4-11 to 30-6-2, Exterior (2) 30-6-2 to 33-9-0 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



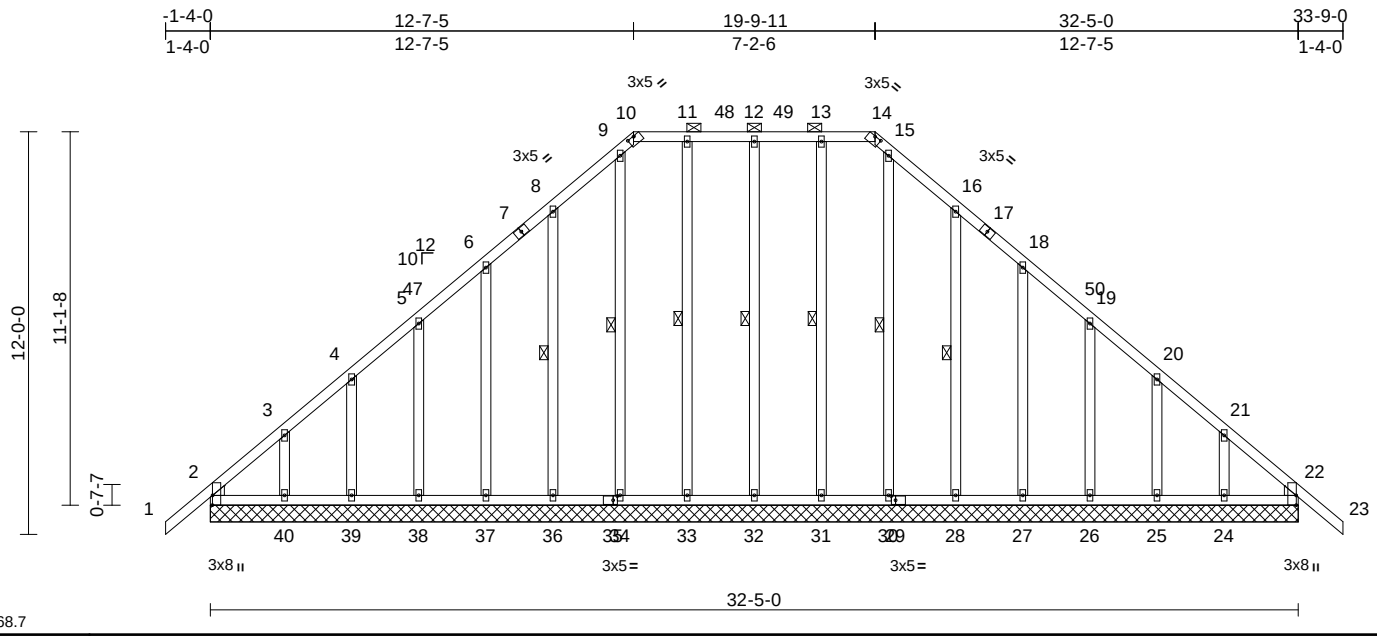
April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	B03	Piggyback Base Supported Gable	1	1	I45815327 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:44 Page: 1

ID:z9QUYvMLfoHnZQZBfZjmnuzNyOi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:68.7

Plate Offsets (X, Y): [2:0-3-8,Edge], [10:0-2-8,0-0-3], [14:0-2-8,0-0-3], [22:0-3-8,Edge], [29:0-1-8,0-1-8], [35:0-1-8,0-1-8]

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 270 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* 32-12,33-11,34-9,31-13,30-15:2x4 SP No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 12-32, 11-33, 9-34, 8-36, 13-31, 15-30, 16-28

REACTIONS (size) 2=32-5-0, 22=32-5-0, 24=32-5-0, 25=32-5-0, 26=32-5-0, 27=32-5-0, 28=32-5-0, 30=32-5-0, 31=32-5-0, 32=32-5-0, 33=32-5-0, 34=32-5-0, 36=32-5-0, 37=32-5-0, 38=32-5-0, 39=32-5-0, 40=32-5-0, 41=32-5-0, 44=32-5-0
Max Horiz 2=-288 (LC 12), 41=-288 (LC 12)
Max Uplift 2=-96 (LC 10), 22=-28 (LC 11), 24=-122 (LC 15), 25=-72 (LC 15), 26=-86 (LC 15), 27=-80 (LC 15), 28=-103 (LC 15), 31=-25 (LC 11), 32=-40 (LC 10), 33=-24 (LC 11), 34=-8 (LC 11), 36=-99 (LC 14), 37=-80 (LC 14), 38=-87 (LC 14), 39=-69 (LC 14), 40=-132 (LC 14), 41=-96 (LC 10), 44=-28 (LC 11)
Max Grav 2=246 (LC 25), 22=202 (LC 27), 24=189 (LC 47), 25=172 (LC 25), 26=204 (LC 47), 27=236 (LC 37), 28=242 (LC 47), 30=180 (LC 37), 31=230 (LC 36), 32=237 (LC 36), 33=230 (LC 36), 34=205 (LC 51), 36=241 (LC 37), 37=236 (LC 37), 38=205 (LC 45), 39=169 (LC 28), 40=200 (LC 45), 41=246 (LC 25), 44=202 (LC 27)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/51, 2-3=-299/230, 3-4=-207/189, 4-5=-159/162, 5-47=-150/133, 6-47=-123/147, 6-7=-133/170, 7-8=-106/184, 8-9=-206/242, 9-10=-169/195, 10-11=-177/217, 11-48=-177/217, 12-48=-177/217, 12-49=-177/217, 13-49=-177/217, 13-14=-177/217, 14-15=-169/195, 15-16=-206/242, 16-17=-106/153, 17-18=-129/139, 18-50=-52/75, 19-50=-78/61, 19-20=-85/67, 20-21=-143/95, 21-22=-232/173, 22-23=0/51
BOT CHORD 2-40=-164/245, 39-40=-115/245, 38-39=-115/245, 37-38=-115/245, 36-37=-115/245, 35-36=-115/245, 34-35=-115/245, 33-34=-115/245, 32-33=-115/245, 31-32=-115/245, 30-31=-115/245, 29-30=-115/245, 28-29=-115/245, 27-28=-115/245, 26-27=-115/245, 25-26=-115/245, 24-25=-115/245, 22-24=-115/245
WEBS 12-32=-197/78, 11-33=-190/48, 9-34=-165/36, 8-36=-201/123, 6-37=-196/105, 5-38=-164/108, 4-39=-135/102, 3-40=-171/124, 13-31=-190/49, 15-30=-140/13, 16-28=-202/126, 18-27=-196/105, 19-26=-164/108, 20-25=-135/104, 21-24=-171/120

NOTES

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

April 26,2021

Continued on page 2

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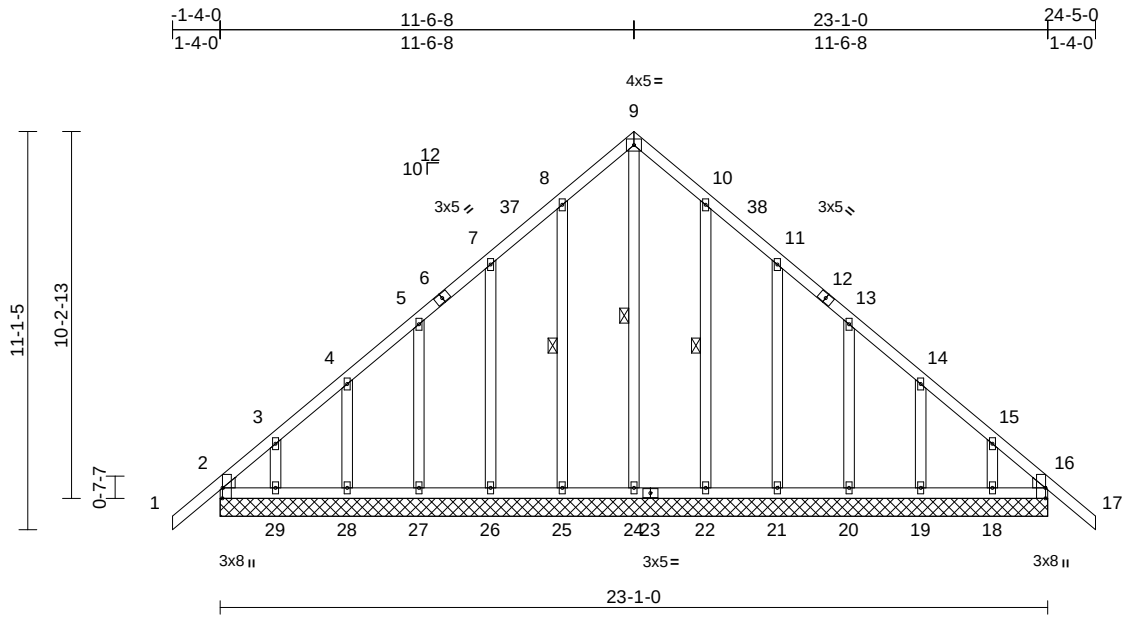
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-4-0 to 2-2-8, Exterior (2) 2-2-8 to 9-4-7, Corner (3) 9-4-7 to 15-10-3, Exterior (2) 15-10-3 to 16-6-13, Corner (3) 16-6-13 to 23-0-9, Exterior (2) 23-0-9 to 30-6-2, Corner (3) 30-6-2 to 33-9-0 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.
13) N/A

14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 41.
15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	C01	Common Supported Gable	1	1	I45815328 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:45 Page: 1
ID:jm6DaOoYDZWi5q7jf8pq9HzNyIz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:64.3

Plate Offsets (X, Y): [2:0-3-8,Edge], [16:0-3-8,Edge]

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	0.13	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	0.12	Horz(CT)	0.01	16	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 170 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 9-24, 8-25, 10-22

REACTIONS (size) 2=23-1-0, 16=23-1-0, 18=23-1-0, 19=23-1-0, 20=23-1-0, 21=23-1-0, 22=23-1-0, 24=23-1-0, 25=23-1-0, 26=23-1-0, 27=23-1-0, 28=23-1-0, 29=23-1-0, 30=23-1-0, 34=23-1-0
Max Horiz 2=-265 (LC 12), 30=-265 (LC 12)
Max Uplift 2=-90 (LC 10), 16=-33 (LC 11), 18=-104 (LC 15), 19=-80 (LC 15), 20=-83 (LC 15), 21=-88 (LC 15), 22=-76 (LC 15), 25=-79 (LC 14), 26=-86 (LC 14), 27=-84 (LC 14), 28=-78 (LC 14), 29=-114 (LC 14), 30=-90 (LC 10), 34=-33 (LC 11)
Max Grav 2=230 (LC 25), 16=190 (LC 27), 18=140 (LC 25), 19=182 (LC 25), 20=174 (LC 29), 21=176 (LC 25), 22=231 (LC 22), 24=231 (LC 15), 25=231 (LC 21), 26=174 (LC 24), 27=174 (LC 24), 28=180 (LC 28), 29=151 (LC 28), 30=230 (LC 25), 34=190 (LC 27)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/51, 2-3=-281/199, 3-4=-204/170, 4-5=-150/139, 5-6=-128/107, 6-7=-103/121, 7-37=-126/164, 8-37=-113/170, 8-9=-189/219, 9-10=-189/219, 10-38=-113/146, 11-38=-126/138, 11-12=-40/69, 12-13=-72/55, 13-14=-90/64, 14-15=-154/99, 15-16=-228/168, 16-17=0/51
BOT CHORD 2-29=-149/230, 28-29=-103/230, 27-28=-103/230, 26-27=-103/230, 25-26=-103/230, 24-25=-103/230, 23-24=-103/230, 22-23=-103/230, 21-22=-103/230, 20-21=-103/230, 19-20=-103/230, 18-19=-103/230, 16-18=-103/230
WEBS 9-24=-215/122, 8-25=-191/103, 7-26=-147/111, 5-27=-142/106, 4-28=-143/108, 3-29=-148/108, 10-22=-191/100, 11-21=-147/112, 13-20=-142/106, 14-19=-143/108, 15-18=-148/103

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (3) -1-4-0 to 1-6-8, Exterior (2) 1-6-8 to 8-6-8, Corner (3) 8-6-8 to 14-6-8, Exterior (2) 14-6-8 to 21-5-0, Corner (3) 21-5-0 to 24-5-0 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) N/A

April 26,2021

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Edenton, NC 27932

13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 30.
14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

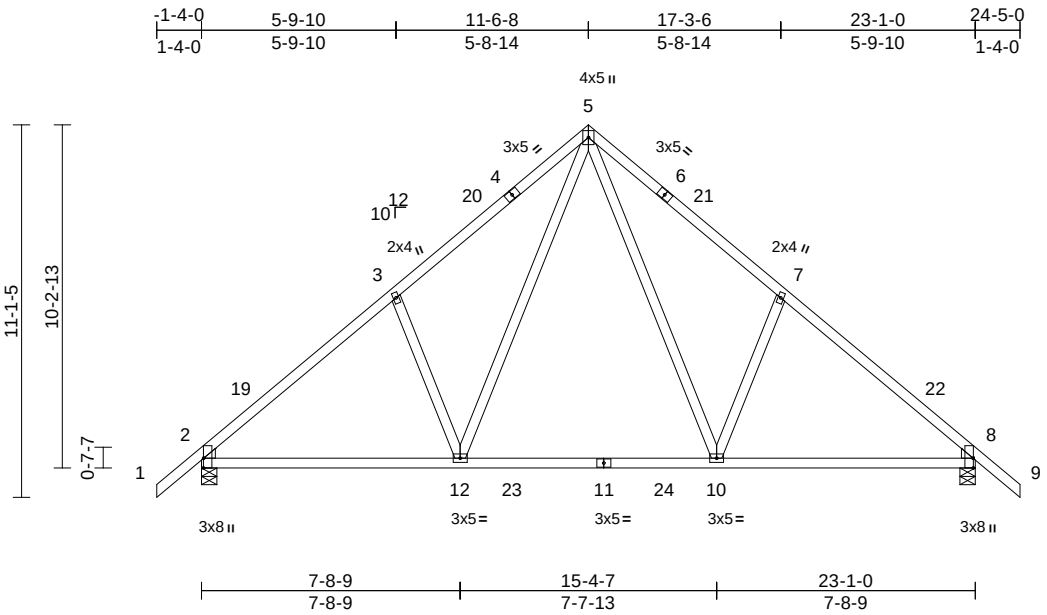
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	C02	Common	6	1	I45815329 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:45
ID:jI94i0DtD?ouA2jFeHQpXSzNyIR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:68.7

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

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	0.55	Vert(LL)	-0.19	10-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.26	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 132 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 10-7,12-3:2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 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 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 8=0-5-8
Max Horiz 2=-265 (LC 12)
Max Uplift 2=-114 (LC 14), 8=-114 (LC 15)
Max Grav 2=1003 (LC 1), 8=1003 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/51, 2-19=-1144/121, 3-19=-981/158, 3-20=-1055/243, 4-20=-988/246, 4-5=-984/266, 5-6=-984/266, 6-21=-988/246, 7-21=-1056/243, 7-22=-981/158, 8-22=-1144/121, 8-9=0/51
BOT CHORD	2-12=-145/967, 12-23=0/636, 11-23=0/636, 11-24=0/636, 10-24=0/636, 8-10=-19/838
WEBS	5-10=-182/586, 7-10=-364/273, 5-12=-182/586, 3-12=-364/273

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 8-6-8, Exterior (2) 8-6-8 to 14-6-8, Interior (1) 14-6-8 to 21-5-0, Exterior (2) 21-5-0 to 24-5-0 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) One RT7A MiTek 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.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 26,2021

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

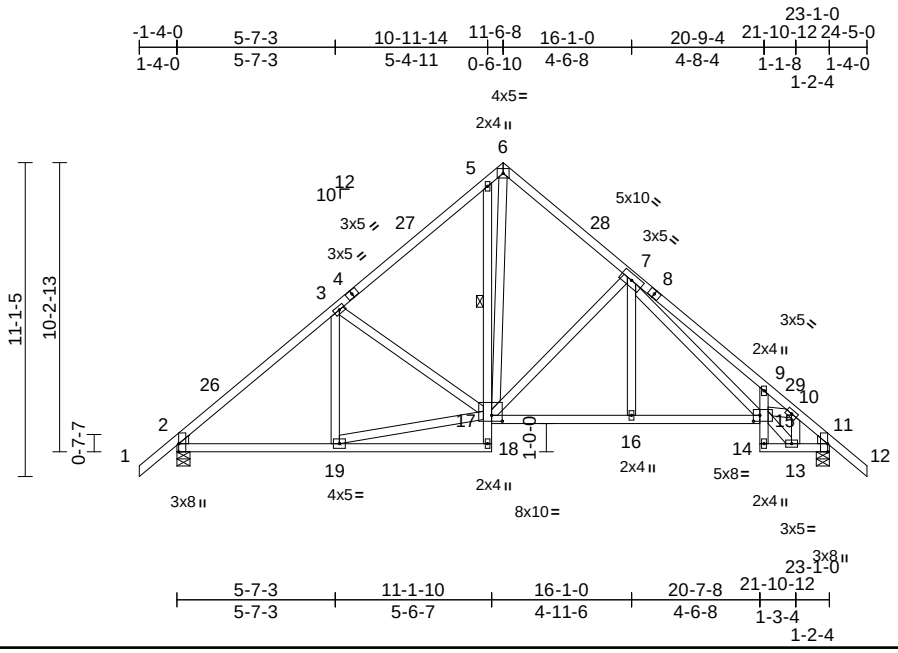
Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	C03	Roof Special	1	1	I45815330 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:46

ID:RVIHNFYpsIC3wCHRjSP878zNyI0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.5

Plate Offsets (X, Y): [2:0-3-8,Edge], [11:0-3-8,Edge], [15:0-2-12,0-2-8], [17:0-4-8,0-2-8]

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	0.37	Vert(LL)	-0.06	15-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.13	15-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 171 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 18-5,9-14:2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
1 Row at midpt 5-17

REACTIONS (size) 2=0-5-8, 11=0-5-8
Max Horiz 2=-265 (LC 12)
Max Uplift 2=-114 (LC 14), 11=-114 (LC 15)
Max Grav 2=1003 (LC 1), 11=1003 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/51, 2-26=-1162/115, 3-26=-983/145, 3-4=-936/153, 4-27=-827/172, 5-27=-827/190, 5-6=-886/286, 6-28=-777/209, 7-28=-850/177, 7-8=-1886/275, 8-9=-2029/255, 9-29=-1896/121, 10-29=-1914/117, 10-11=-1024/83, 11-12=0/51
BOT CHORD 2-19=-143/895, 18-19=0/36, 17-18=0/99, 5-17=-275/189, 16-17=0/914, 15-16=0/913, 14-15=0/74, 9-15=-257/200, 13-14=-17/119, 11-13=-16/705
WEBS 3-19=-48/115, 17-19=-138/874, 3-17=-326/183, 6-17=-304/921, 7-17=-523/188, 7-15=-191/942, 7-16=0/242, 10-13=-694/24, 10-15=-39/797, 13-15=-2/785

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 8-6-8, Exterior (2) 8-6-8 to 14-6-8, Interior (1) 14-6-8 to 21-5-0, Exterior (2) 21-5-0 to 24-5-0 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	C04	Roof Special	4	1	I45815331 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:46

ID:YG6dgVvdoW_oWpaCUlxALTzNyHY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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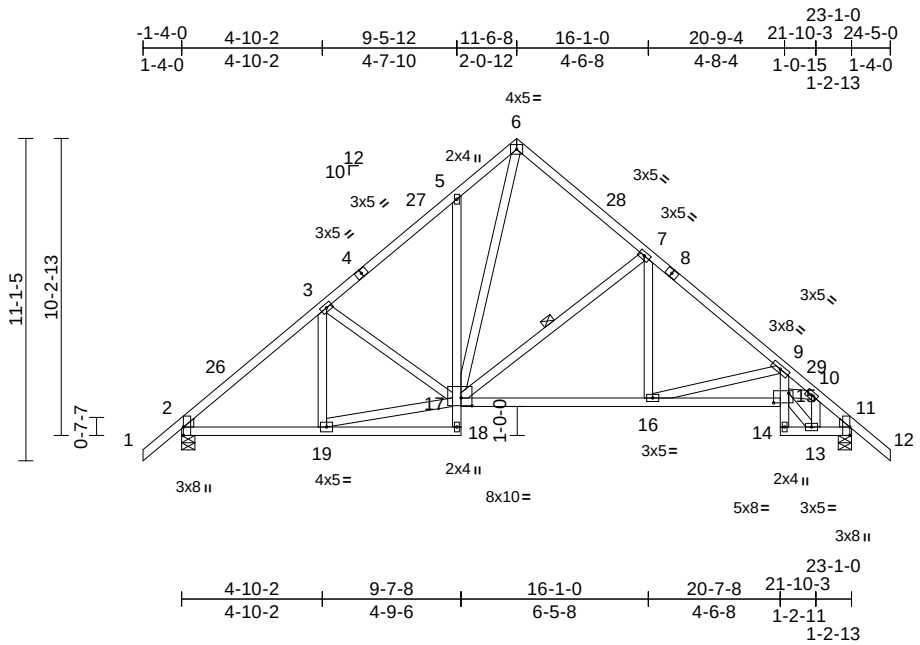

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Plate Offsets (X, Y): [2:0-3-8,Edge], [11:0-3-8,Edge], [15:0-6-4,0-4-0], [17:0-4-8,0-3-4]

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	0.34	Vert(LL)	-0.07	16-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.18	16-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.09	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 165 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 18-5,9-14:2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 18-19.
WEBS 1 Row at midpt 7-17

REACTIONS (size) 2=0-5-8, 11=0-5-8
Max Horiz 2=-265 (LC 12)
Max Uplift 2=-114 (LC 14), 11=-114 (LC 15)
Max Grav 2=1003 (LC 1), 11=1003 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/51, 2-26=-1171/116, 3-26=-1018/140, 3-4=-1033/145, 4-27=-941/161, 5-27=-900/177, 5-6=-1026/290, 6-28=-700/207, 7-28=-779/175, 7-8=-1102/145, 8-9=-1264/126, 9-29=-2352/140, 10-29=-2368/133, 10-11=-1028/85, 11-12=0/51

BOT CHORD 2-19=-141/912, 18-19=-9/18, 17-18=0/88, 5-17=-267/178, 16-17=0/912, 15-16=-86/1958, 14-15=-1/84, 9-15=0/823, 13-14=-10/123, 11-13=-16/699

WEBS 3-17=-228/149, 6-17=-269/968, 7-17=-545/184, 7-16=0/394, 9-16=-1086/173, 10-13=-839/30, 10-15=-50/1136, 13-15=-10/884, 3-19=-111/75, 17-19=-135/915

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 8-6-8, Exterior (2) 8-6-8 to 14-6-8, Interior (1) 14-6-8 to 21-5-0, Exterior (2) 21-5-0 to 24-5-0 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	C05	Common	1	1	I45815332 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:47 Page: 1

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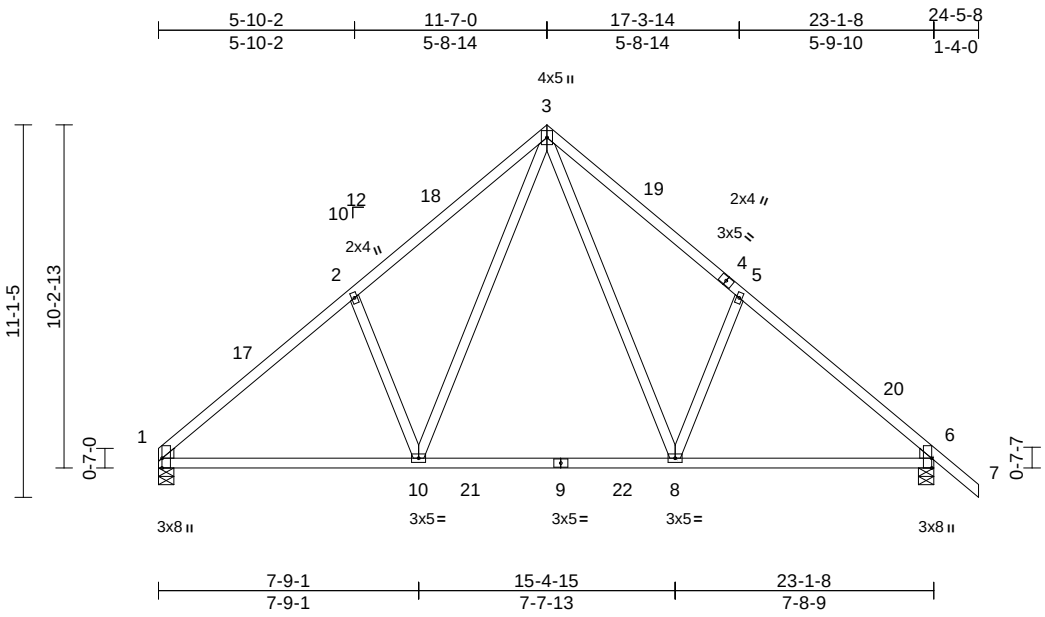


Scale = 1:68.7

Plate Offsets (X, Y): [1:0-3-8,Edge], [6:0-3-8,Edge]

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	0.53	Vert(LL)	-0.19	8-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.25	8-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 130 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 8-5,10-2:2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-8-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-5-8, 6=0-5-8
Max Horiz 1=-257 (LC 12)
Max Uplift 1=-86 (LC 14), 6=-115 (LC 15)
Max Grav 1=923 (LC 1), 6=1007 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-17=-1158/146, 2-17=-991/170, 2-18=-1072/259, 3-18=-992/282, 3-19=-989/270, 4-19=-1045/249, 4-5=-1060/226, 5-20=-986/163, 6-20=-1150/126, 6-7=0/51
BOT CHORD	1-10=-162/982, 10-21=0/640, 9-21=0/640, 9-22=0/640, 8-22=0/640, 6-8=-20/842
WEBS	3-8=-182/584, 5-8=-364/273, 3-10=-189/605, 2-10=-366/276

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-7-0, Exterior (2) 8-7-0 to 14-7-0, Interior (1) 14-7-0 to 21-5-8, Exterior (2) 21-5-8 to 24-5-8 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 6. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

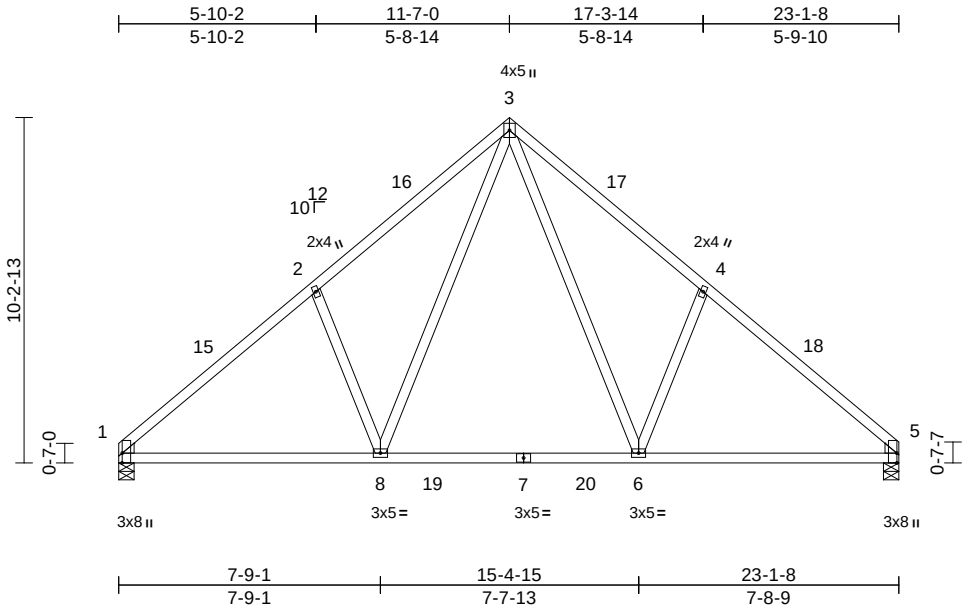
April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	C06	Common	2	1	I45815333 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:47 ID:5u7XAcW?0uHiWVPpPFruM0zNyGm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:68.3

Plate Offsets (X, Y): [1:0-3-8,Edge], [5:0-3-8,Edge]

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)	-0.19	6-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.25	6-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 127 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 6-4,8-2:2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-9-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-5-8, 5=0-5-8
Max Horiz 1=239 (LC 11)
Max Uplift 1=-86 (LC 14), 5=-86 (LC 15)
Max Grav 1=925 (LC 1), 5=925 (LC 1)

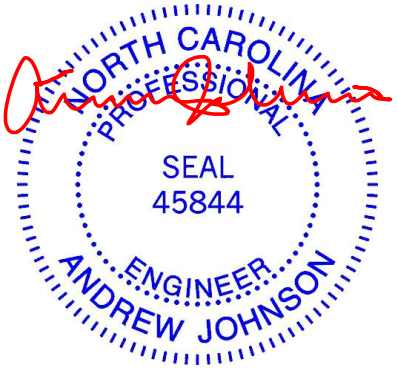
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-15=-1161/150, 2-15=-994/174, 2-16=-1074/265, 3-16=-991/286, 3-17=-987/285, 4-17=-1069/264, 4-18=-991/174, 5-18=-1158/150
BOT CHORD	1-8=-176/970, 8-19=0/628, 7-19=0/628, 7-20=0/628, 6-20=0/628, 5-6=-40/833
WEBS	3-6=-188/595, 4-6=-363/276, 3-8=-189/604, 2-8=-366/276

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-7-0, Exterior (2) 8-7-0 to 14-7-0, Interior (1) 14-7-0 to 20-1-8, Exterior (2) 20-1-8 to 23-1-8 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	D01	Attic Supported Gable	1	1	I45815334 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:48 Page: 1

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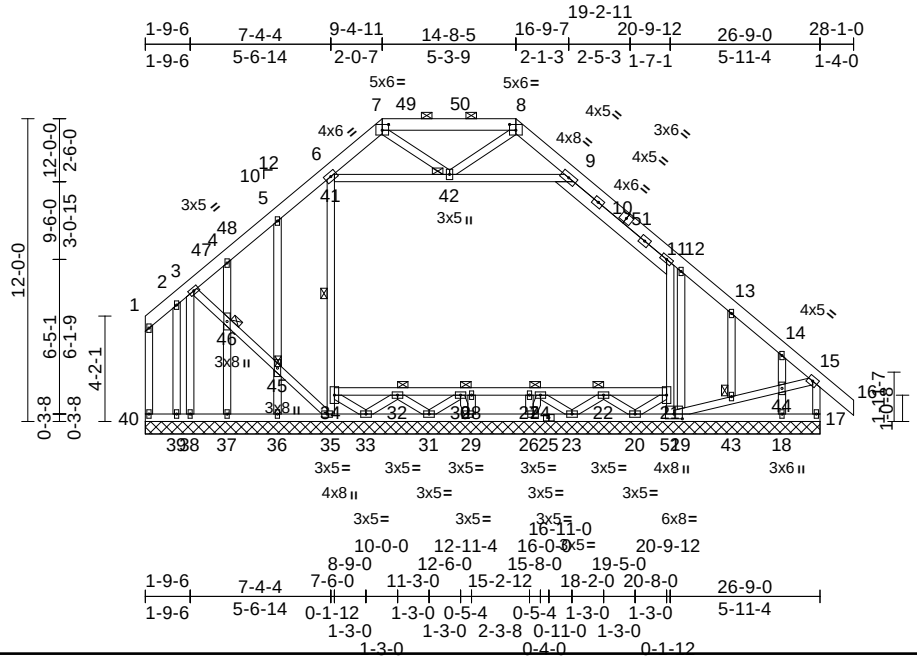

Plate Offsets (X, Y): [7:0-3-0,0-2-12], [8:0-3-0,0-2-12], [19:0-4-0,0-2-4]

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	0.29	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	0.35	Horz(CT)	0.01	17	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 302 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 41-9:2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 18-19,17-18.
WEBS 1 Row at midpt 34-41
JOINTS 1 Brace at Jt(s): 42, 32, 22, 30, 24, 43, 45, 46

REACTIONS (size) 17=26-9-0, 18=26-9-0, 19=26-9-0, 20=26-9-0, 23=26-9-0, 26=26-9-0, 29=26-9-0, 31=26-9-0, 33=26-9-0, 35=26-9-0, 36=26-9-0, 37=26-9-0, 38=26-9-0, 39=26-9-0, 40=26-9-0
Max Horiz 40=-340 (LC 10)
Max Uplift 17=-35 (LC 11), 18=-101 (LC 15), 19=-215 (LC 15), 35=-299 (LC 42), 36=-94 (LC 14), 37=-36 (LC 14), 38=-135 (LC 10), 39=-50 (LC 10), 40=-29 (LC 15)
Max Grav 17=694 (LC 38), 18=187 (LC 26), 19=467 (LC 48), 20=359 (LC 44), 23=244 (LC 21), 26=263 (LC 21), 29=263 (LC 21), 31=243 (LC 21), 33=261 (LC 21), 35=304 (LC 10), 36=225 (LC 46), 37=303 (LC 38), 38=517 (LC 38), 39=322 (LC 38), 40=63 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-105/122, 2-3=-182/111, 3-47=-547/144, 4-47=-489/154, 4-48=-657/168, 5-48=-568/180, 5-6=-636/225, 6-7=-558/155, 7-49=-488/132, 49-50=-488/132, 8-50=-488/132, 8-9=-591/150, 9-10=-651/203, 10-51=-677/180, 11-51=-789/176, 11-12=-507/77, 12-13=-551/55, 13-14=-656/40, 14-15=-642/50, 15-16=0/57, 15-17=-692/30, 1-40=-94/100
BOT CHORD 39-40=-284/314, 38-39=-284/314, 37-38=-284/314, 36-37=-284/314, 35-36=-284/314, 33-35=-64/426, 31-33=-20/358, 29-31=-22/225, 26-29=-25/205, 25-26=-22/224, 23-25=-22/224, 20-23=-14/350, 20-52=0/609, 19-52=0/609, 18-19=-24/37, 17-18=-24/37, 32-34=0/138, 30-32=-13/210, 28-30=-23/257, 27-28=-23/257, 24-27=-23/257, 22-24=-14/212, 21-22=-8/152
WEBS 3-38=-491/136, 3-46=-216/611, 45-46=-214/605, 35-45=-214/606, 34-35=-255/0, 34-41=-297/97, 6-41=-195/106, 19-21=-438/121, 11-21=-579/164, 19-43=-36/482, 43-44=-35/470, 15-44=-36/481, 41-42=-220/136, 9-42=-136/123, 7-42=0/125, 8-42=-26/62, 33-34=-162/18, 20-21=-370/0, 32-33=-123/4, 20-22=-123/0, 31-32=-166/0, 22-23=-157/0, 30-31=-24/40, 23-24=-23/40, 29-30=-78/0, 24-26=-75/0, 28-29=-85/0, 26-27=-86/0, 12-19=-106/71, 13-43=-5/51, 14-44=-205/108, 18-44=-207/142, 5-45=-180/120, 36-45=-181/120, 4-46=-277/69, 37-46=-268/69, 2-39=-325/86

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner (3) 4-4-15 to 7-6-1, Exterior (2) 7-6-1 to 10-7-15, Corner (3) 10-7-15 to 21-11-8, Exterior (2) 21-11-8 to 29-4-3, Corner (3) 29-4-3 to 32-4-3 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
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.

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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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
11) Gable studs spaced at 2-0-0 oc.
12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
13) * 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.
14) Ceiling dead load (5.0 psf) on member(s). 9-11, 41-42, 9-42; Wall dead load (5.0psf) on member(s).34-41, 11-21
15) N/A

16) N/A

17) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
18) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
19) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	D02	Attic	3	1	I45815335 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:50 Page: 1

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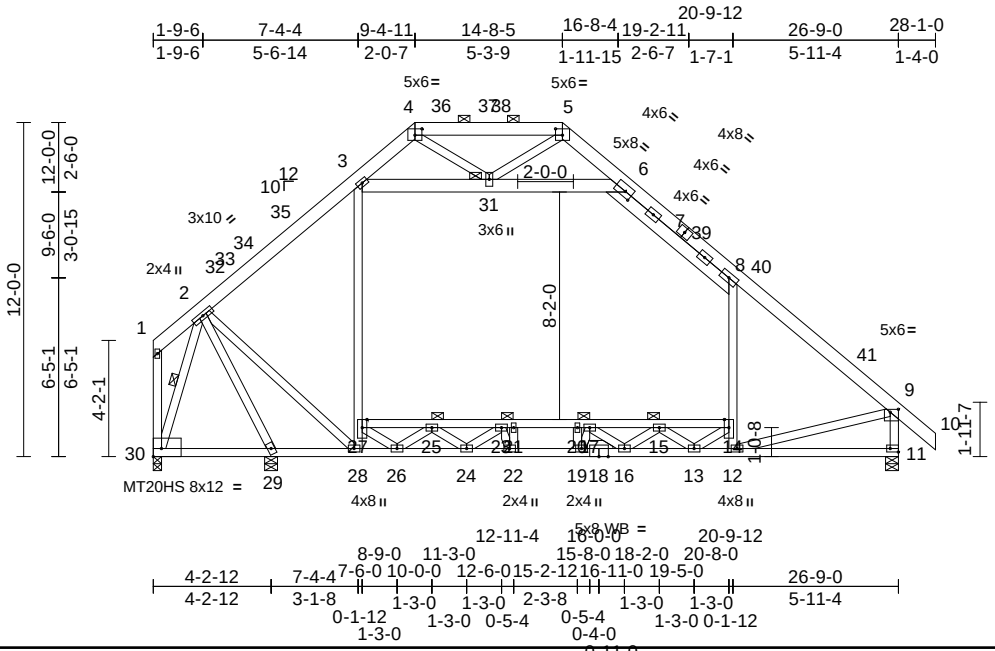

Scale = 1:82.7

Plate Offsets (X, Y): [4:0-3-0,0-2-12], [5:0-3-0,0-2-12], [6:0-3-2,0-2-4], [9:0-3-8,0-1-4], [11:Edge,0-1-8], [30:Edge,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	0.59	Vert(LL)	-0.21	15-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.40	15-17	>664	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.06	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.13	14-27	>999	360		
BCDL	10.0										Weight: 276 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 5-7,7-10:2x6 SP 2400F 2.0E

BOT CHORD 2x4 SP No.1 *Except* 27-14:2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 3-6:2x6 SP No.2, 11-9:2x4 SP No.2

OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

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

WEBS 1 Row at midpt 2-30

JOINTS 1 Brace at Jt(s): 25, 15, 23, 17, 31

REACTIONS (size) 11=0-5-8, 29=0-5-8, 30=0-3-8

Max Horiz 30=-355 (LC 10)

Max Uplift 29=-1084 (LC 48), 30=-371 (LC 15)

Max Grav 11=2056 (LC 48), 29=646 (LC 10), 30=2642 (LC 48)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-144/89, 2-32=-1952/174, 32-33=-1916/177, 33-34=-1904/181, 34-35=-1883/182, 3-35=-1736/209, 3-4=-465/139, 4-36=-343/122, 36-37=-343/122, 37-38=-343/122, 5-38=-343/122, 5-6=-451/160, 6-7=-1296/163, 7-39=-1493/139, 8-39=-1565/124, 8-40=-1854/0, 40-41=-1881/0, 9-41=-2048/0, 9-10=0/57, 9-11=-1968/24, 1-30=-160/59

BOT CHORD 29-30=0/745, 28-29=-185/1046, 26-28=0/1229, 24-26=0/2564, 22-24=0/3509, 19-22=0/3627, 18-19=0/3594, 16-18=0/3594, 13-16=0/2906, 12-13=0/1452, 11-12=-31/208, 25-27=-604/0, 23-25=-2010/0, 21-23=-2565/0, 20-21=-2565/0, 17-20=-2565/0, 15-17=-2200/0, 14-15=-1026/0

WEBS 2-29=-654/1115, 2-28=-83/754, 27-28=-308/318, 3-27=-118/830, 12-14=-332/69, 8-14=0/673, 3-31=-1519/214, 6-31=-1702/132, 9-12=0/1210, 2-30=-2575/344, 26-27=0/888, 13-14=0/1176, 25-26=-1169/0, 13-15=-1014/0, 24-25=0/661, 15-16=0/515, 23-24=-568/0, 16-17=-431/0, 22-23=0/322, 17-19=-17/101, 21-22=-234/0, 19-20=-77/26, 4-31=-62/73, 5-31=0/272

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 4-4-15 to 7-4-15, Interior (1) 7-4-15 to 9-5-0, Exterior (2) 9-5-0 to 23-2-6, Interior (1) 23-2-6 to 29-4-3, Exterior (2) 29-4-3 to 32-4-3 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) All plates are 3x5 MT20 unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Ceiling dead load (5.0 psf) on member(s). 6-8, 3-31, 6-31; Wall dead load (5.0psf) on member(s).3-27, 8-14
12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 25-27, 23-25, 21-23, 20-21, 17-20, 15-17, 14-15
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1084 lb uplift at joint 29.

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14) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 30. This connection is for uplift only and does not consider lateral forces.
15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
17) 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.
18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	D03	Attic Girder	1	4	I45815336 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:51 Page: 1

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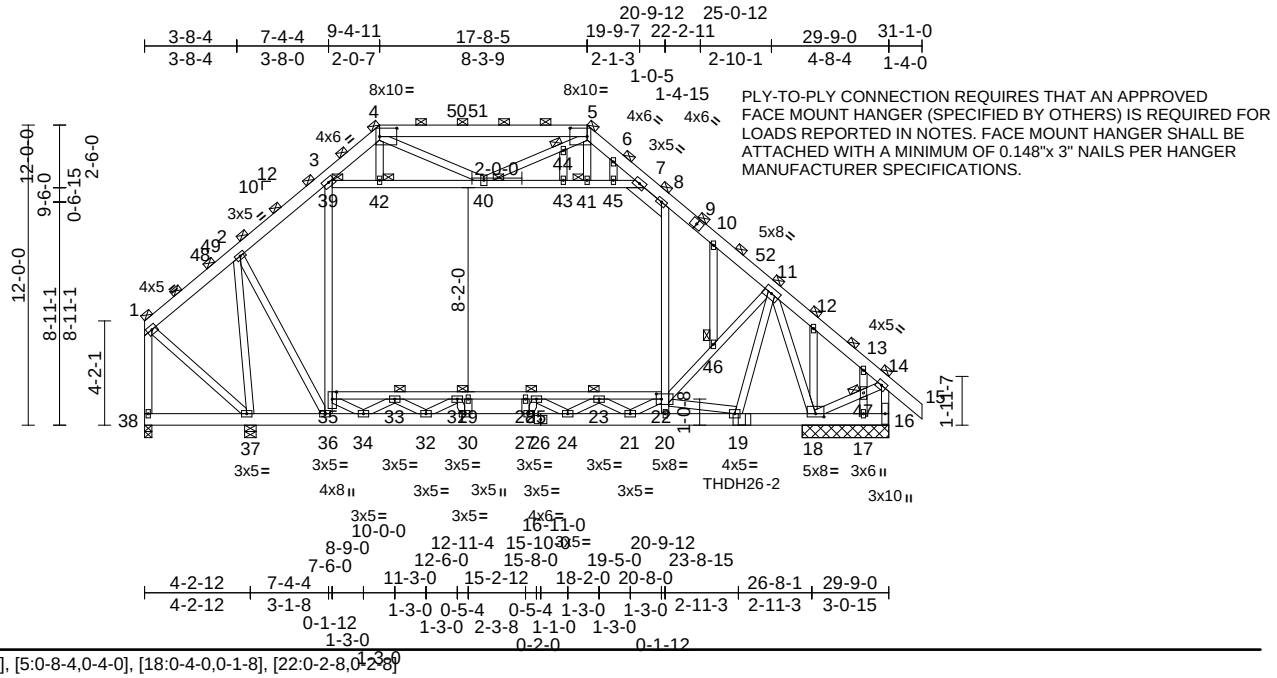


Scale = 1:92.1

Plate Offsets (X, Y): [4:0-8-4,0-4-0], [5:0-8-4,0-4-0], [18:0-4-0,0-1-8], [22:0-2-8,0-2-8]

Loading	(psf)	Spacing	6-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.08	28-29	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.14	28-29	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.02	18	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.06	22-35	>999	360		
BCDL	10.0										Weight: 1402 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 35-22:2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 39-7:2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 5, 39, 14, 1, 40, 41, 4, 42, 33, 23, 31, 25, 44, 46, 47

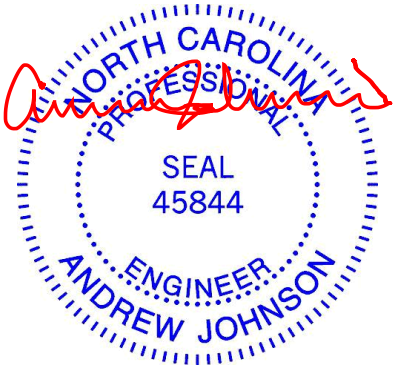
REACTIONS (size) 16=3-5-8, 17=3-5-8, 18=3-5-8, 37=0-5-8, 38=0-3-8
Max Horiz 38=-1057 (LC 10)
Max Uplift 16=-3230 (LC 28), 17=-1805 (LC 28), 37=-762 (LC 57), 38=-166 (LC 8)
Max Grav 16=-174 (LC 13), 17=-377 (LC 13), 18=14061 (LC 28), 37=2687 (LC 44), 38=4047 (LC 28)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-48=-2861/162, 48-49=-2606/171, 2-49=-2557/182, 2-3=-3765/0, 3-4=-2607/394, 4-50=-2279/336, 50-51=-2279/336, 5-51=-2279/336, 5-6=-2436/478, 6-7=-2746/461, 7-8=-3037/131, 8-9=-3691/0, 9-10=-3839/0, 10-52=-3669/0, 11-52=-3776/0, 11-12=0/3620, 12-13=0/4636, 13-14=0/3854, 14-15=0/170, 14-16=0/3564, 1-38=-3881/209
BOT CHORD 37-38=-862/970, 36-37=0/1840, 34-36=0/2552, 32-34=0/5826, 30-32=0/7872, 27-30=0/7926, 26-27=0/7503, 24-26=0/7503, 21-24=0/4756, 20-21=-1236/1617, 19-20=-1102/1679, 18-19=-669/514, 17-18=-131/46, 16-17=-131/46, 33-35=-1105/0, 31-33=-4795/0, 29-31=-5703/0, 28-29=-5703/0, 25-28=-5703/0, 23-25=-3661/0, 22-23=-485/1089
WEBS 2-37=-3785/188, 2-36=0/2380, 35-36=-927/248, 35-39=-358/1223, 3-39=-115/1179, 20-22=0/731, 8-22=-295/1346, 39-42=-1783/0, 40-42=-1783/0, 40-43=-1867/0, 41-43=-1867/0, 41-45=-1867/0, 7-45=-1870/0, 18-47=-3609/40, 14-47=-3638/40, 1-37=-276/2880, 4-40=-61/233, 40-44=-3/254, 5-44=-1/279, 5-41=-177/158, 4-42=0/211, 34-35=0/1927, 21-22=0/3464, 33-34=-3134/0, 21-23=-3542/0, 32-33=0/1516, 23-24=0/1965, 31-32=-1106/0, 24-25=-2041/0, 30-31=-70/324, 25-27=0/1019, 29-30=-312/9, 27-28=-611/0, 11-19=0/3173, 19-22=-736/1045, 22-46=0/3363, 11-46=0/3702, 11-18=-9512/0, 43-44=0/73, 6-45=-89/316, 10-46=-491/0, 12-18=-1829/0, 13-47=0/922, 17-47=0/862

NOTES

1) N/A
2) 4-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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
Attach TC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
3) 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.
4) Unbalanced roof live loads have been considered for this design.



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5) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
6) 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.
7) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
8) Unbalanced snow loads have been considered for this design.
9) 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.
10) Provide adequate drainage to prevent water ponding.
11) All plates are 2x4 MT20 unless otherwise indicated.
12) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
13) Gable studs spaced at 2-0-0 oc.
14) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
15) * 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.
16) Ceiling dead load (5.0 psf) on member(s). 7-8, 39-42, 40-42, 40-43, 41-43, 41-45, 7-45; Wall dead load (5.0psf) on member(s).35-39, 8-22
17) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 33-35, 31-33, 29-31, 28-29, 25-28, 23-25, 22-23
18) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 762 lb uplift at joint 37, 3230 lb uplift at joint 16 and 1805 lb uplift at joint 17.
19) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 38. This connection is for uplift only and does not consider lateral forces.
20) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
21) 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.
22) Use MiTek THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 28-1-12 from the left end to connect truss(es) to front face of bottom chord.
23) Fill all nail holes where hanger is in contact with lumber.
24) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-4=-180, 4-5=-180, 5-7=-180, 7-8=-210, 8-14=-180, 14-15=-180, 16-38=-60, 22-35=-90, 39-42=-30, 40-42=-30, 40-43=-30, 41-43=-30, 41-45=-30, 7-45=-30
   Drag: 35-39=-30, 8-22=-30
   Concentrated Loads (lb)
   Vert: 19=-1475 (F)

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	D04	Attic Girder	1	4	I45815337 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:53 Page: 1

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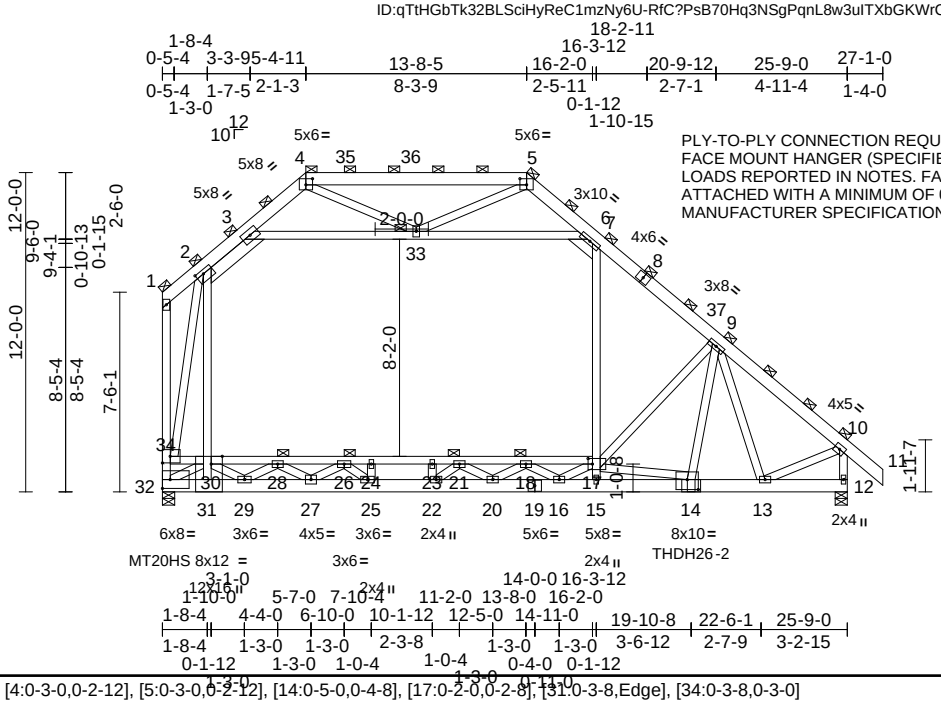

Plate Offsets (X, Y): [2:0-3-8,0-1-12], [4:0-3-0,0-2-12], [5:0-3-0,0-2-12], [14:0-5-0,0-4-8], [17:0-2-0,0-2-8], [31:0-3-8,Edge], [34:0-3-8,0-3-0]

Loading	(psf)	Spacing	6-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.22	17-18	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.42	17-18	>731	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.11	17-30	>999	360		
BCDL	10.0										Weight: 1230 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 30-17:2x4 SP No.1
WEBS 2x4 SP No.3 *Except* 2-31:2x4 SP 2400F 2.0E, 3-6,32-1,29-30,16-17,29-28,16-18,27-28,20-18,27-26,20-21,2-34,30-32:2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 31-32,29-31,27-29.
JOINTS 1 Brace at Jt(s): 1, 4, 5, 10, 33, 28, 18, 26, 21

REACTIONS (size) 12=0-5-8, 32=0-5-8
Max Horiz 32=-1186 (LC 10)
Max Grav 12=6942 (LC 28), 32=6483 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-753/228, 2-3=-3615/0, 3-4=-2485/741, 4-35=-2372/402, 35-36=-2372/402, 5-36=-2372/402, 5-6=-2779/522, 6-7=-3163/52, 7-8=-4533/0, 8-37=-4659/0, 9-37=-4926/0, 9-10=-6352/0, 10-11=0/170, 10-12=-6846/0, 32-34=-14248/0, 1-34=-815/251
BOT CHORD 31-32=-13213/0, 29-31=-14209/0, 27-29=-5163/897, 25-27=0/5010, 22-25=0/8111, 20-22=0/10521, 19-20=0/13535, 16-19=0/13535, 15-16=0/13126, 14-15=0/12892, 13-14=0/5418, 12-13=-47/113, 28-30=0/12848, 26-28=-29/5181, 24-26=-5425/0, 23-24=-5425/0, 21-23=-5425/0, 18-21=-9905/0, 17-18=-10744/0
WEBS 30-31=0/2742, 2-30=0/12664, 15-17=-599/167, 7-17=0/2277, 3-33=-3211/0, 6-33=-2254/140, 10-13=0/5200, 4-33=0/1061, 5-33=-446/170, 29-30=0/5250, 16-17=-747/1935, 28-29=-6148/0, 16-18=-1628/1370, 27-28=0/4547, 18-20=-1555/330, 26-27=-5930/0, 20-21=-98/3111, 25-26=0/5860, 21-22=-4246/0, 24-25=-1770/0, 22-23=-2/990, 30-34=0/3945, 2-34=-14053/0, 30-32=0/12971, 9-14=0/5689, 14-17=-6920/367, 9-17=-4868/0, 9-13=-2260/0

NOTES

1) N/A
2) 4-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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
Attach TC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
3) 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.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
6) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
7) Unbalanced snow loads have been considered for this design.
8) 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.

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9) Provide adequate drainage to prevent water ponding.
10) All plates are MT20 plates unless otherwise indicated.
11) All plates are 3x5 MT20 unless otherwise indicated.
12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
13) * 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.
14) Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-33, 6-33, 30-34; Wall dead load (5.0psf) on member (s).2-30, 7-17
15) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 26-28, 24-26, 23-24, 21-23, 18-21, 17-18
16) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
17) Use MiTek THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 28-1-12 from the left end to connect truss(es) to back face of bottom chord.
18) Fill all nail holes where hanger is in contact with lumber.
19) Attic room checked for L/360 deflection.

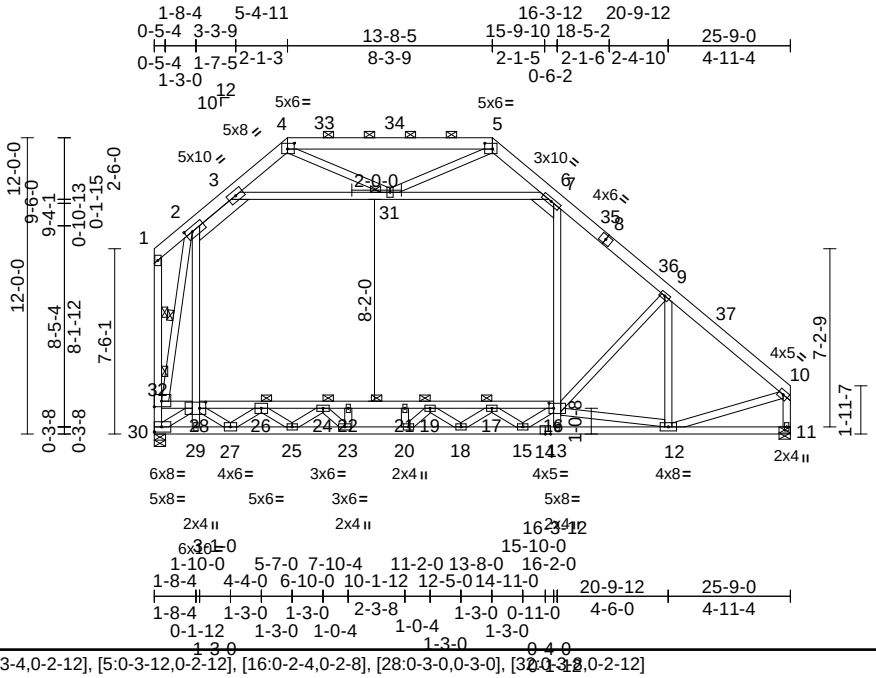
LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-2=-180, 2-3=-210, 3-4=-180, 4-5=-180, 5-6=-180, 6-7=-210, 7-10=-180, 10-11=-180, 12-32=-60, 17-30=-90, 3-33=-30, 6-33=-30, 30-34=-30
   Drag: 2-30=-30, 7-17=-30
   Concentrated Loads (lb)
   Vert: 14=-1537 (B)

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	D05	Attic	2	1	I45815338 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:54 Page: 1

ID:OzgIs34yVjPGa_GRequNQjzO_DG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:93.3

Plate Offsets (X, Y): [2:0-3-8,0-2-4], [4:0-3-4,0-2-12], [5:0-3-12,0-2-12], [16:0-2-4,0-2-8], [28:0-3-0,0-3-0], [32:0-3-12,0-2-12]

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	0.75	Vert(LL)	-0.25	16-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.49	16-17	>618	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.13	16-28	>999	360		
BCDL	10.0										Weight: 281 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 30-14:2x4 SP No.1
WEBS 2x4 SP No.3 *Except* 2-29:2x4 SP No.1, 3-6,30-1,27-28,15-16,27-26,15-17,25-26,18-17,25-24,18-19,28-30,2-32:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
3-9-0 oc bracing: 19-24
3-10-0 oc bracing: 17-19, 16-17
10-0-0 oc bracing: 26-28, 24-26
WEBS 1 Row at midpt 2-32
WEBS 2 Rows at 1/3 pts 1-30
JOINTS 1 Brace at Jt(s): 31, 26, 17, 24, 19

REACTIONS (size) 11=0-5-8, 30=0-5-8
Max Horiz 30=-378 (LC 10)
Max Grav 11=1518 (LC 43), 30=2026 (LC 43)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-207/121, 2-3=-1079/134, 3-4=-841/234, 4-33=-800/168, 33-34=-800/168, 5-34=-800/168, 5-6=-930/211, 6-7=-941/147, 7-35=-1229/24, 8-35=-1287/9, 8-36=-1304/0, 9-36=-1420/0, 9-37=-1456/0, 10-37=-1594/0, 10-11=-1481/0, 30-32=-3979/0, 1-32=-217/149
BOT CHORD 29-30=-3508/140, 27-29=-3681/123, 25-27=-1038/501, 23-25=0/1539, 20-23=0/2442, 18-20=0/2903, 15-18=0/3169, 14-15=-176/2725, 13-14=-176/2725, 12-13=-162/2689, 11-12=-19/30, 26-28=0/3132, 24-26=-228/1015, 22-24=-1618/0, 21-22=-1618/0, 19-21=-1618/0, 17-19=-2356/0, 16-17=-2201/252
WEBS 28-29=0/324, 2-28=0/3406, 13-16=0/120, 7-16=0/622, 3-31=-943/0, 6-31=-643/148, 4-31=0/318, 5-31=-116/81, 9-16=-502/252, 9-12=-110/158, 12-16=-1609/341, 10-12=0/1238, 27-28=0/1711, 15-16=-79/667, 26-27=-1743/0, 15-17=-646/129, 25-26=0/1243, 17-18=-211/198, 24-25=-1407/0, 18-19=-159/471, 23-24=0/1571, 19-20=-1033/125, 22-23=-744/0, 20-21=-52/441, 28-32=-42/1041, 28-30=0/3543, 2-32=-3997/0

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 8-4-15 to 26-2-6, Interior (1) 26-2-6 to 30-10-7, Exterior (2) 30-10-7 to 33-10-7 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 3x5 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-31, 6-31, 28-32; Wall dead load (5.0psf) on member (s).2-28, 7-16
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-28, 24-26, 22-24, 21-22, 19-21, 17-19, 16-17
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	E01	Common Supported Gable	1	1	I45815339 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:55 Page: 1
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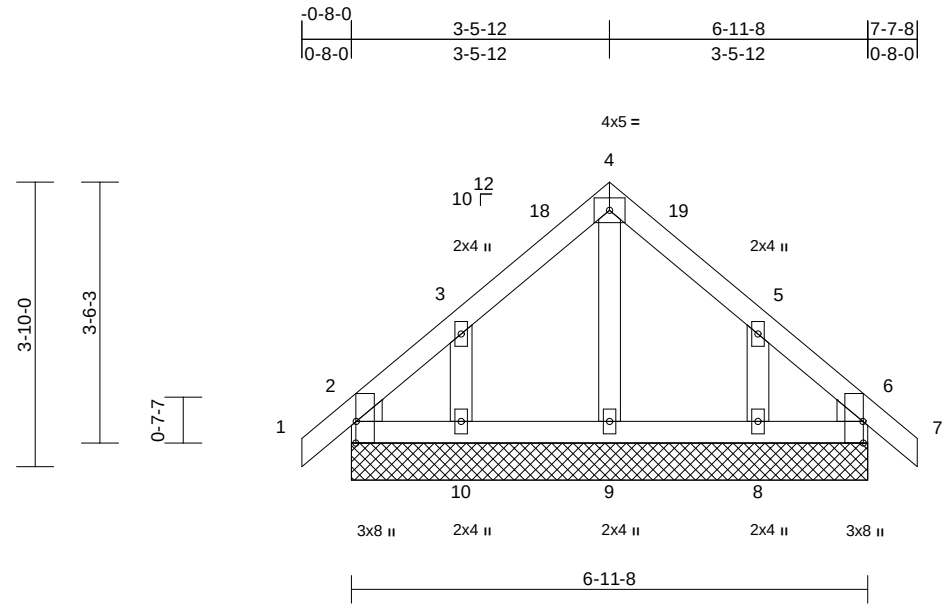

Scale = 1:31.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [6:0-3-8,Edge]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	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	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

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

REACTIONS (size) 2=6-11-8, 6=6-11-8, 8=6-11-8, 9=6-11-8, 10=6-11-8, 11=6-11-8, 15=6-11-8
Max Horiz 2=85 (LC 13), 11=85 (LC 13)
Max Uplift 2=-17 (LC 10), 6=-1 (LC 11), 8=-102 (LC 15), 10=-106 (LC 14), 11=-17 (LC 10), 15=-1 (LC 11)
Max Grav 2=108 (LC 25), 6=107 (LC 1), 8=177 (LC 29), 9=117 (LC 27), 10=181 (LC 24), 11=108 (LC 25), 15=107 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/26, 2-3=-62/57, 3-18=-75/66, 4-18=-58/71, 4-19=-58/71, 5-19=-75/66, 5-6=-47/34, 6-7=0/26
BOT CHORD	2-10=-46/74, 9-10=-28/74, 8-9=-28/74, 6-8=-28/74
WEBS	4-9=-74/0, 3-10=-162/119, 5-8=-162/119

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (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
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) N/A
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.
13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	E02	Common	4	1	I45815340 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:56 Page: 1
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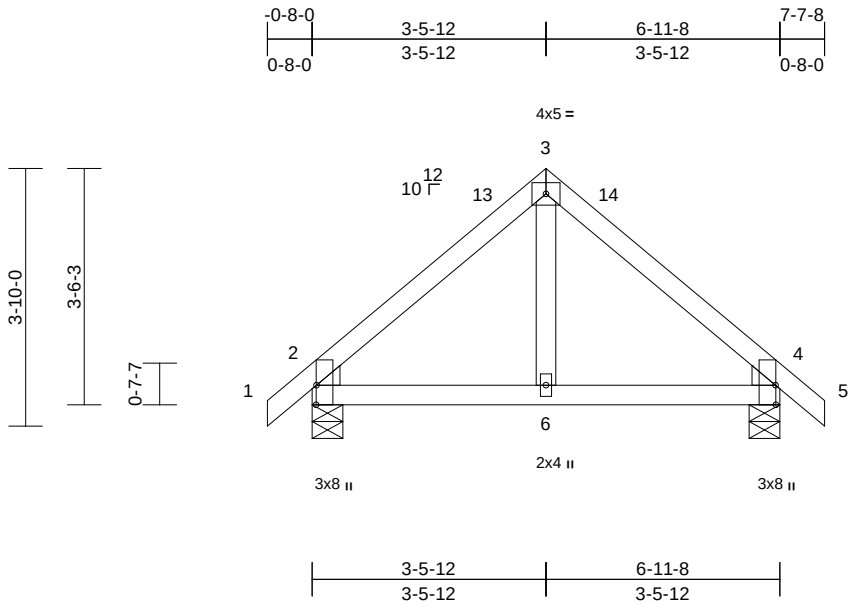

Scale = 1:34.3

Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-3-8,Edge]

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	0.14	Vert(LL)	0.01	6-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 32 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

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

REACTIONS (size) 2=0-5-8, 4=0-5-8
Max Horiz 2=-85 (LC 12)
Max Uplift 2=-39 (LC 14), 4=-39 (LC 15)
Max Grav 2=318 (LC 1), 4=318 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/26, 2-13=-277/73, 3-13=-216/81, 3-14=-216/81, 4-14=-277/73, 4-5=0/26
BOT CHORD	2-6=-54/177, 4-6=0/177
WEBS	3-6=-15/154

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) One RT7A MiTek 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.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	E03	Common Supported Gable	2	1	I45815341 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

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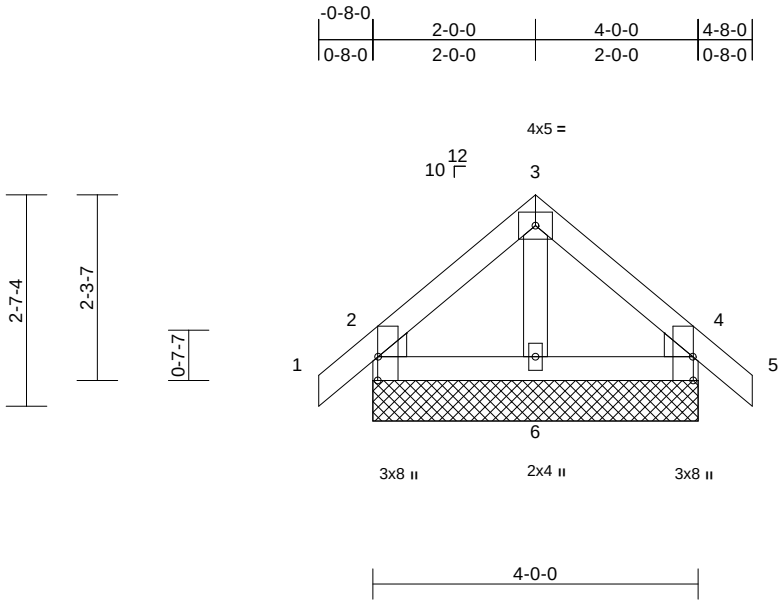


Scale = 1:28.3

Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-3-8,Edge]

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

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

REACTIONS (size) 2=4-0-0, 4=4-0-0, 6=4-0-0, 7=4-0-0, 11=4-0-0
Max Horiz 2=55 (LC 13), 7=55 (LC 13)
Max Uplift 2=-37 (LC 14), 4=-43 (LC 15), 7=-37 (LC 14), 11=-43 (LC 15)
Max Grav 2=155 (LC 1), 4=155 (LC 1), 6=90 (LC 1), 7=155 (LC 1), 11=155 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/26, 2-3=-91/62, 3-4=-91/62, 4-5=0/26
BOT CHORD	2-6=-27/51, 4-6=-3/51
WEBS	3-6=-33/25

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (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
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) N/A
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 11.
13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON

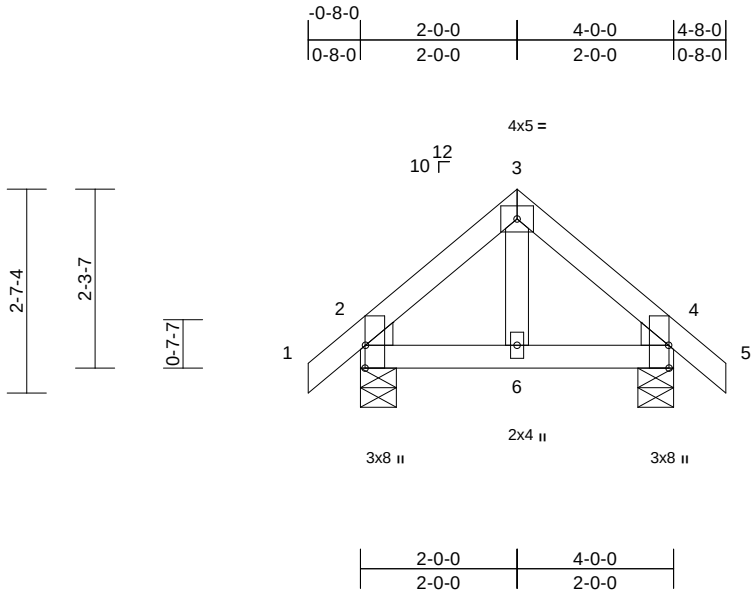
April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	E04	Common	6	1	I45815342 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:56 Page: 1
ID:pT0AMS4QDQAecFQUzNG3XqzNyMU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:29.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-3-8,Edge]

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	0.03	Vert(LL)	0.00	6-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

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

REACTIONS (size) 2=0-5-8, 4=0-5-8
Max Horiz 2=55 (LC 13)
Max Uplift 2=-28 (LC 14), 4=-28 (LC 15)
Max Grav 2=200 (LC 1), 4=200 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/26, 2-3=-138/47, 3-4=-138/47, 4-5=0/26
BOT CHORD	2-6=-24/93, 4-6=0/93
WEBS	3-6=-12/81

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) One RT7A MiTek 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.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	E05	Common	2	1	I45815343 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:57
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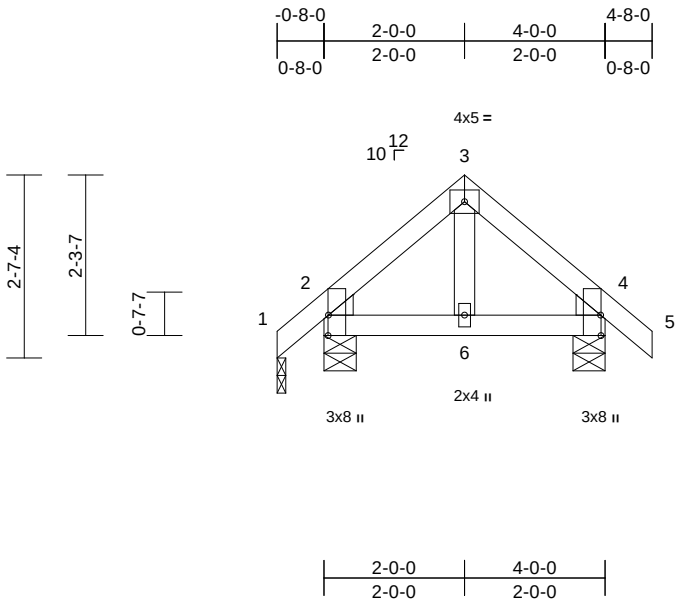


Scale = 1:32.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-3-8,Edge]

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	0.08	Vert(LL)	0.00	6-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	6-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.3 *Except* 3-5:2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

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

REACTIONS (size) 1=0-1-8, 2=0-5-8, 4=0-5-8
Max Horiz 1=-57 (LC 12)
Max Uplift 1=-18 (LC 10), 2=-50 (LC 14), 4=-30 (LC 15)
Max Grav 1=68 (LC 25), 2=208 (LC 28), 4=186 (LC 1)

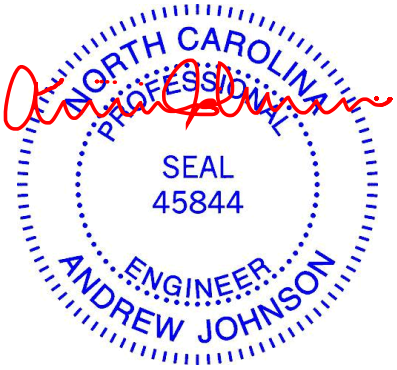
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-75/65, 2-3=-121/54, 3-4=-113/42, 4-5=0/26
BOT CHORD	2-6=0/73, 4-6=0/73
WEBS	3-6=-9/59

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 2, and 4. This connection is for uplift only and does not consider lateral forces.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



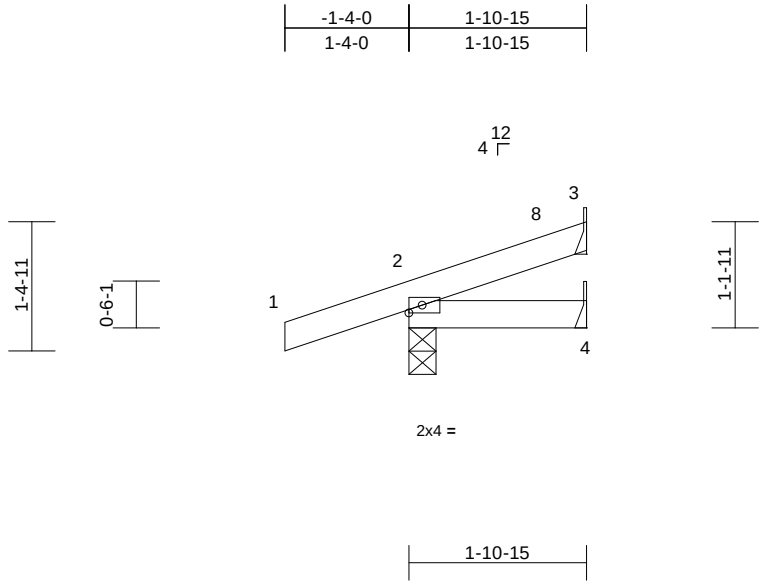
April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	EJ01	Jack-Open	4	1	I45815344 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:57 ID:jLHNOaR2n8aiqbAOeurj9ezNyPv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:24.8

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	0.12	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 8 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=47 (LC 10)
Max Uplift 2=-79 (LC 10), 3=-19 (LC 14)
Max Grav 2=184 (LC 21), 3=37 (LC 21), 4=30 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-8=-101/91, 3-8=-10/11
BOT CHORD 2-4=-59/22

NOTES
1) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) 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.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 3.
9) One RT7A MiTek 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.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	EJ02	Jack-Open	2	1	I45815345 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:57

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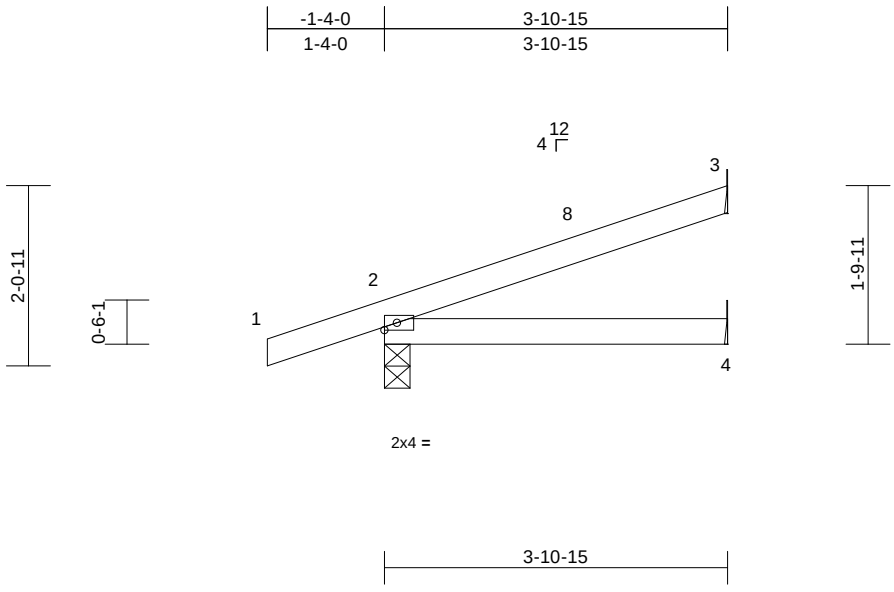

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 14 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

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

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

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical

Max Horiz 2=73 (LC 10)

Max Uplift 2=-79 (LC 10), 3=-47 (LC 14)

Max Grav 2=252 (LC 21), 3=107 (LC 21), 4=70 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension

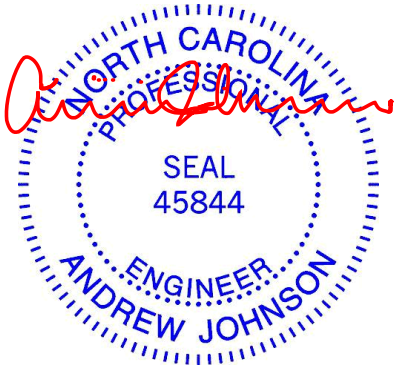
TOP CHORD 1-2=0/25, 2-8=-147/103, 3-8=-31/26

BOT CHORD 2-4=-53/47

NOTES

1) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) 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.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3.
9) One RT7A MiTek 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.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	EJ03	Jack-Open	2	1	I45815346 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:57 Page: 1
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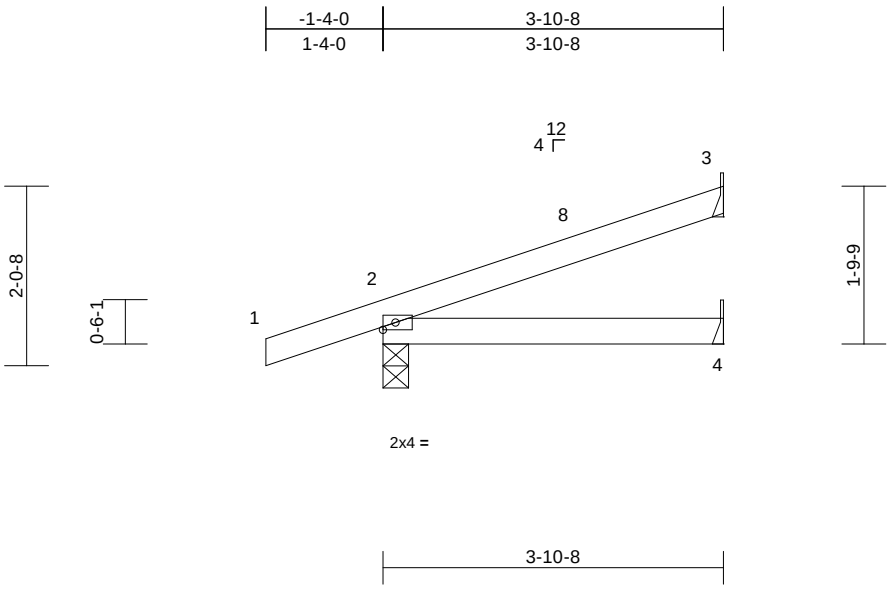

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Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 14 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=70 (LC 10)
Max Uplift 2=-77 (LC 10), 3=-44 (LC 14)
Max Grav 2=241 (LC 21), 3=101 (LC 21), 4=67 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-8=-140/99, 3-8=-29/25
BOT CHORD 2-4=-52/44

NOTES
1) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) 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.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3.
9) One RT7A MiTek 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.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	EJ04	Jack-Open	2	1	I45815347 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:58 Page: 1
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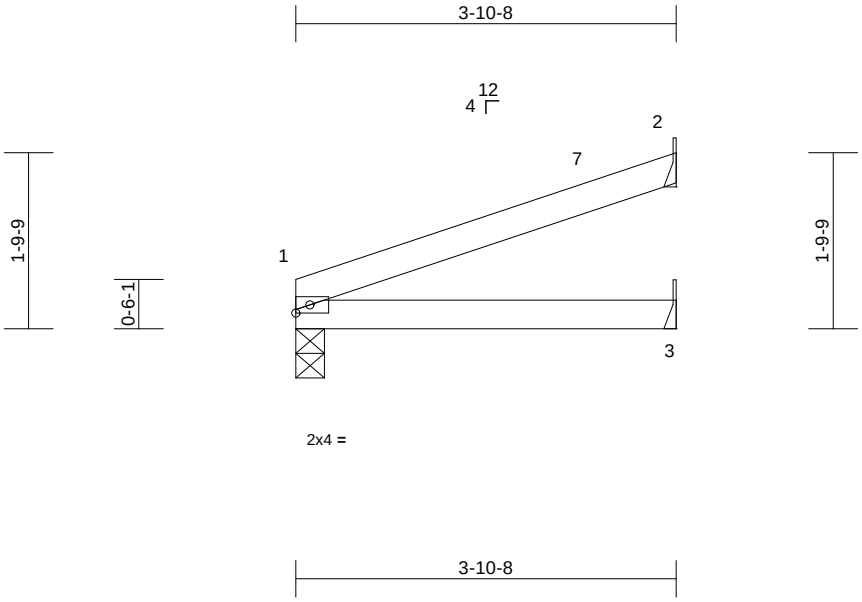


Scale = 1:23.5

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	0.21	Vert(LL)	0.01	3-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	3-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 12 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-3-8, 2= Mechanical, 3= Mechanical
Max Horiz 1=48 (LC 10)
Max Uplift 1=-17 (LC 10), 2=-46 (LC 10)
Max Grav 1=148 (LC 20), 2=102 (LC 20), 3=69 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-45/13, 2-7=-29/25
BOT CHORD 1-3=-87/54

NOTES
1) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 2.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

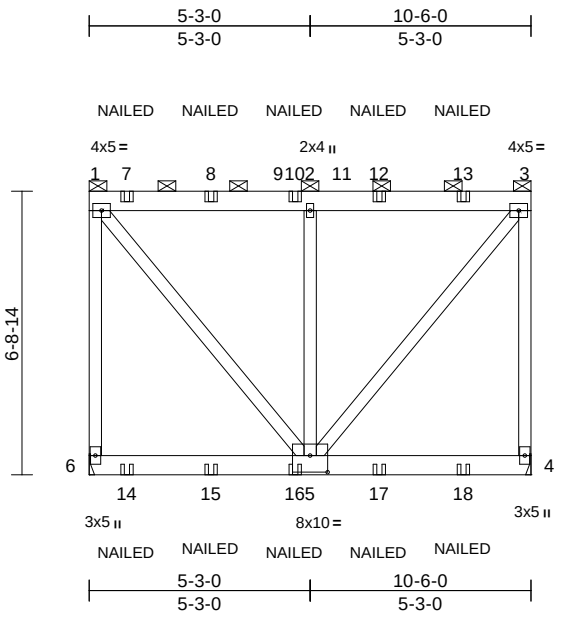
April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	G01	Flat Girder	1	2	I45815348 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:58 Page: 1

ID:KVxw6tapLd4FHuxLSls9rNzNyAD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:54.8

Plate Offsets (X, Y): [5:0-5-0,0-4-12]

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	0.57	Vert(LL)	-0.06	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.09	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 195 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical
Max Horiz 6=227 (LC 9)
Max Grav 4=3518 (LC 2), 6=3572 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-2363/82, 1-7=-1743/0, 7-8=-1743/0, 8-9=-1743/0, 9-10=-1743/0, 2-10=-1743/0, 2-11=-1743/0, 11-12=-1743/0, 12-13=-1743/0, 3-13=-1743/0, 3-4=-2327/36
BOT CHORD 6-14=-186/189, 14-15=-186/189, 15-16=-186/189, 5-16=-186/189, 5-17=-73/75, 17-18=-73/75, 4-18=-73/75
WEBS 1-5=0/2715, 2-5=-694/576, 3-5=0/2715

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-6=-170
Concentrated Loads (lb)
Vert: 7=-118 (F), 8=-111 (F), 10=-111 (F), 12=-111 (F), 13=-111 (F), 14=-46 (F), 15=-44 (F), 16=-44 (F), 17=-44 (F), 18=-44 (F)
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-6=-570
Concentrated Loads (lb)
Vert: 7=-94 (F), 8=-87 (F), 10=-87 (F), 12=-87 (F), 13=-87 (F), 14=-45 (F), 15=-43 (F), 16=-43 (F), 17=-43 (F), 18=-43 (F)

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	H01	Monopitch	2	1	I45815349 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:58
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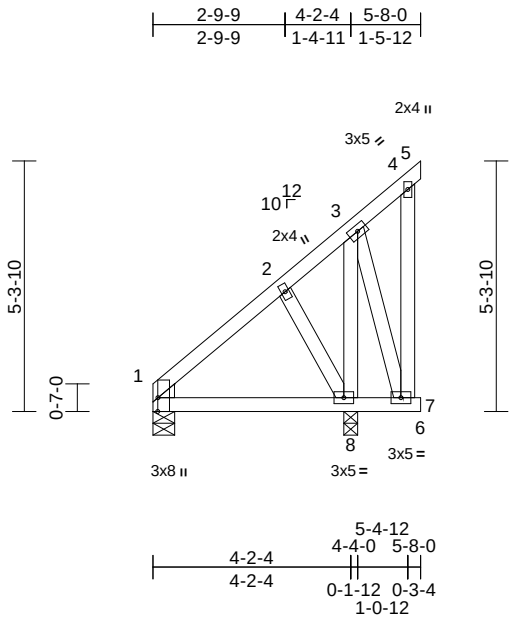

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Plate Offsets (X, Y): [1:0-3-8,Edge]

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	0.40	Vert(LL)	0.01	8-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	8-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	1	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
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
WEDGE	Left: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-8-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=0-5-8, 8=0-3-8
Max Horiz 1=180 (LC 13)
Max Uplift 1=-16 (LC 10), 8=-121 (LC 11)
Max Grav 1=198 (LC 28), 8=355 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-181/87, 2-3=-147/89, 3-4=-102/100, 4-5=-13/0, 4-7=-68/53
BOT CHORD	1-8=-99/83, 7-8=-73/84, 6-7=0/0
WEBS	2-8=-159/108, 3-8=-131/90, 3-7=-62/55

NOTES

1) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 8. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	HJ01	Diagonal Hip Girder	2	1	I45815350 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:59 Page: 1

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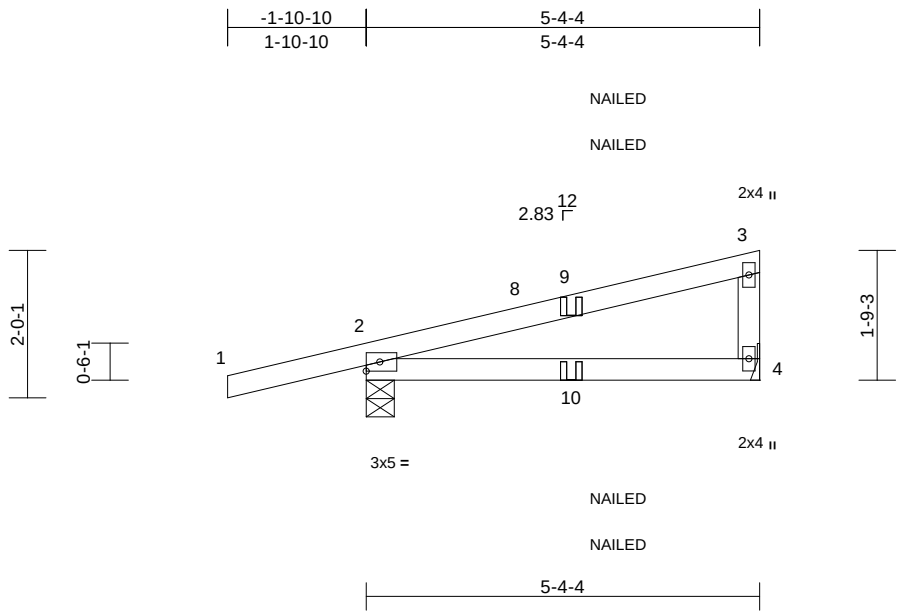

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.03	4-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	4-7	>920	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 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 5-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-4-9, 4= Mechanical
Max Horiz 2=64 (LC 11)
Max Uplift 2=-123 (LC 8), 4=-35 (LC 12)
Max Grav 2=350 (LC 19), 4=208 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-8=-175/189, 8-9=-29/0, 3-9=-26/26, 3-4=-149/53
BOT CHORD 2-10=-129/62, 4-10=-19/15

NOTES

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) 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.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4.
9) One RT7A MiTek 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.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 10=1 (F=1, B=1)

April 26,2021

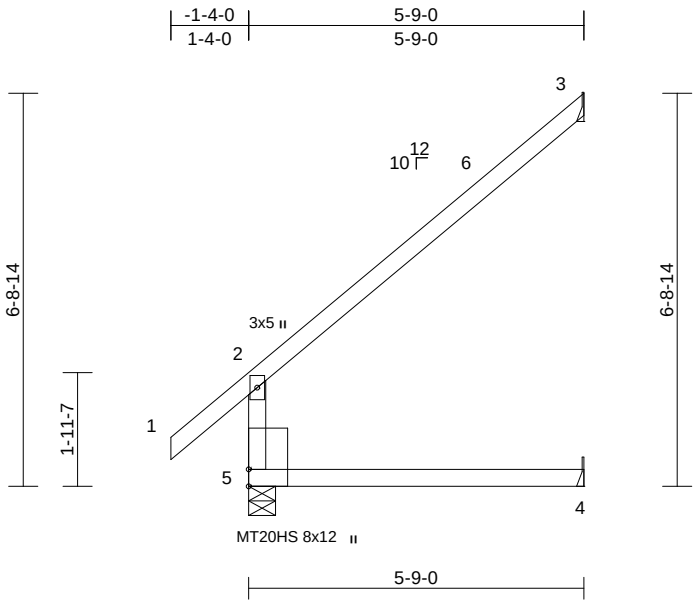
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	J01	Jack-Open	5	1	I45815351 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:59 ID:rINYuXZBaJyOfkM9u1LwJ9zNyAE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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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	1.00	Vert(LL)	0.12	4-5	>542	240	MT20HS	187/143
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.13	4-5	>495	180	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.26	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 25 lb	FT = 20%

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

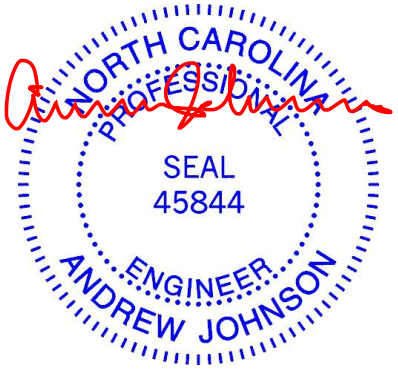
BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-5-8
Max Horiz 5=196 (LC 14)
Max Uplift 3=-156 (LC 14), 4=-16 (LC 14)
Max Grav 3=176 (LC 24), 4=106 (LC 7), 5=326 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-279/63, 1-2=0/57, 2-6=-161/103, 3-6=-127/133
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) 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.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 3 and 16 lb uplift at joint 4.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	PB01	Piggyback	1	1	I45815352 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:59 Page: 1
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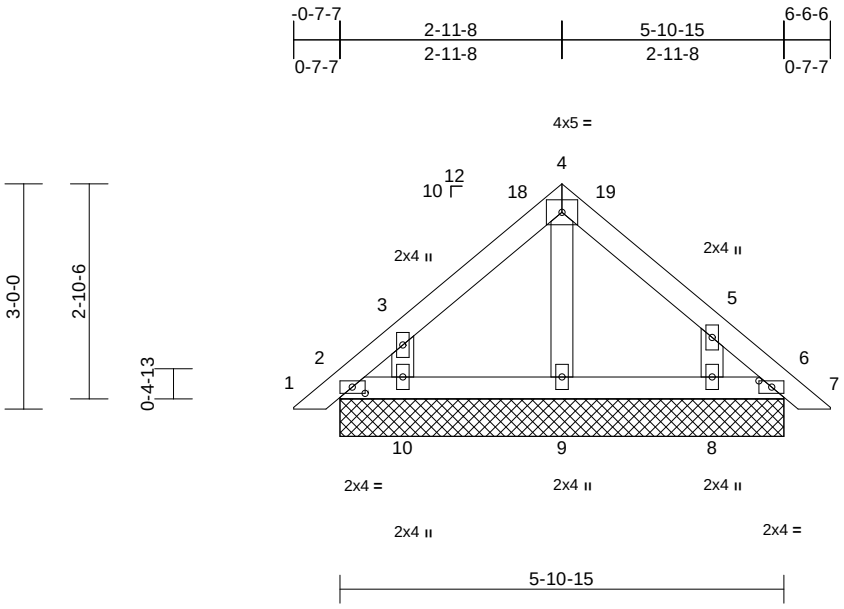

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Plate Offsets (X, Y): [2:0-2-1,0-1-0], [6:0-2-1,0-1-0]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

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

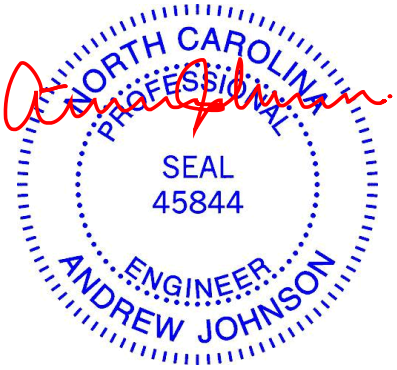
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-10-15, 6=5-10-15, 8=5-10-15, 9=5-10-15, 10=5-10-15, 11=5-10-15, 15=5-10-15
Max Horiz 2=-69 (LC 12), 11=-69 (LC 12)
Max Uplift 2=-24 (LC 10), 6=-7 (LC 11), 8=-88 (LC 15), 10=-94 (LC 14), 11=-24 (LC 10), 15=-7 (LC 11)
Max Grav 2=56 (LC 29), 6=56 (LC 1), 8=165 (LC 25), 9=117 (LC 1), 10=177 (LC 24), 11=56 (LC 29), 15=56 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-74/59, 3-18=-76/50, 4-18=-36/55, 4-19=-38/56, 5-19=-68/51, 5-6=-52/43, 6-7=0/15
BOT CHORD 2-10=-22/56, 9-10=-22/56, 8-9=-22/56, 6-8=-22/56
WEBS 3-10=-175/135, 4-9=-71/0, 5-8=-160/122

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) N/A
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	PB02	Piggyback	8	1	I45815353 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:00
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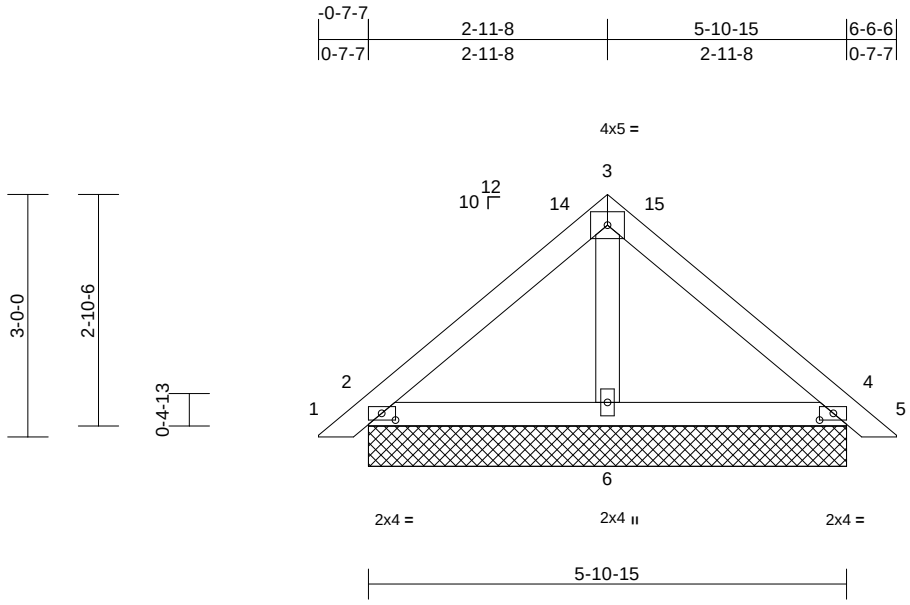

Scale = 1:28.5

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

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-10-15, 4=5-10-15, 6=5-10-15, 7=5-10-15, 11=5-10-15
Max Horiz 2=-69 (LC 12), 7=-69 (LC 12)
Max Uplift 2=-33 (LC 14), 4=-42 (LC 15), 7=-33 (LC 14), 11=-42 (LC 15)
Max Grav 2=169 (LC 1), 4=169 (LC 1), 6=184 (LC 1), 7=169 (LC 1), 11=169 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-14=-118/62, 3-14=-67/69, 3-15=-67/69, 4-15=-115/62, 4-5=0/15
BOT CHORD 2-6=-25/61, 4-6=-8/61
WEBS 3-6=-67/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) N/A
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	PB03	Piggyback	1	1	I45815354 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:00 Page: 1
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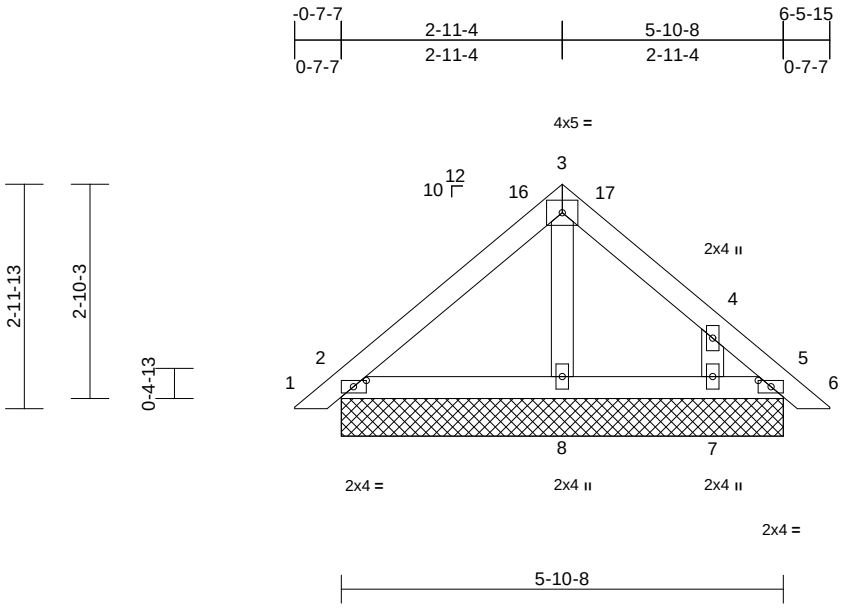


Scale = 1:30.6

Plate Offsets (X, Y): [2:0-2-1,0-1-0], [5:0-2-1,0-1-0]

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 lb	FT = 20%

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

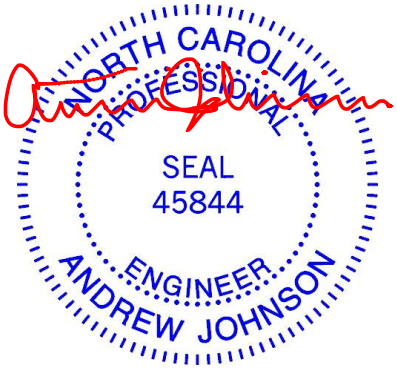
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-10-8, 5=5-10-8, 7=5-10-8, 8=5-10-8, 9=5-10-8, 12=5-10-8
Max Horiz 2=69 (LC 13), 9=69 (LC 13)
Max Uplift 2=-31 (LC 14), 5=-12 (LC 11), 7=-85 (LC 15), 9=-31 (LC 14), 12=-12 (LC 11)
Max Grav 2=162 (LC 1), 5=78 (LC 24), 7=149 (LC 25), 8=158 (LC 24), 9=162 (LC 1), 12=78 (LC 24)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-16=-97/50, 3-16=-45/57, 3-17=-65/69, 4-17=-89/64, 4-5=-51/31, 5-6=0/15
BOT CHORD 2-8=-24/56, 7-8=-18/56, 5-7=-18/56
WEBS 3-8=-66/0, 4-7=-166/125

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) N/A
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	PB04	Piggyback	15	1	I45815355 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:00 Page: 1
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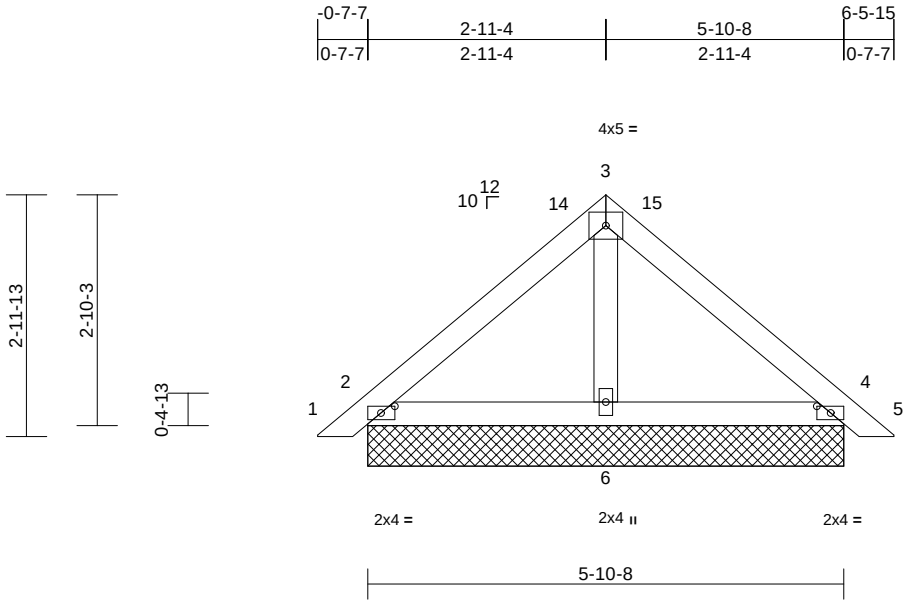


Scale = 1:28.4

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

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/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

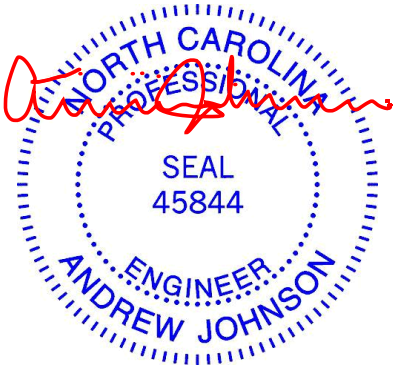
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-10-8, 4=5-10-8, 6=5-10-8, 7=5-10-8, 11=5-10-8
Max Horiz 2=69 (LC 13), 7=69 (LC 13)
Max Uplift 2=-33 (LC 14), 4=-42 (LC 15), 7=-33 (LC 14), 11=-42 (LC 15)
Max Grav 2=168 (LC 1), 4=168 (LC 1), 6=183 (LC 1), 7=168 (LC 1), 11=168 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-14=-117/62, 3-14=-67/68, 3-15=-67/68, 4-15=-114/62, 4-5=0/15
BOT CHORD 2-6=-25/60, 4-6=-8/60
WEBS 3-6=-66/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) N/A
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 26,2021

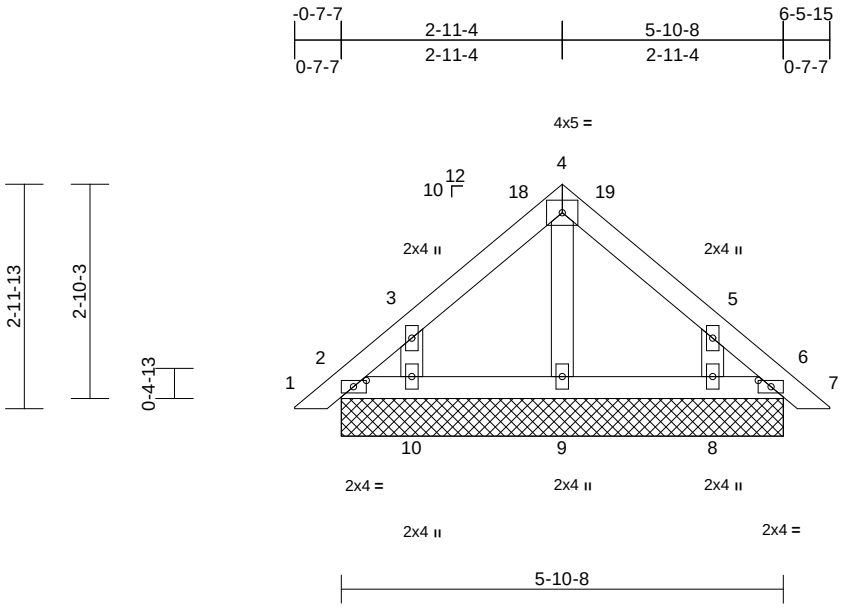
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	PB05	Piggyback	1	1	I45815356 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:01 ID:QcbIPZ6AukDx8vhaFymEo2zNyJt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.6

Plate Offsets (X, Y): [2:0-2-1,0-1-0], [6:0-2-1,0-1-0]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

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

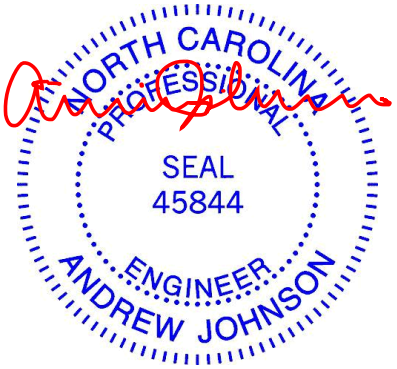
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-10-8, 6=5-10-8, 8=5-10-8, 9=5-10-8, 10=5-10-8, 11=5-10-8, 15=5-10-8
Max Horiz 2=69 (LC 13), 11=69 (LC 13)
Max Uplift 2=-20 (LC 10), 6=-7 (LC 11), 8=-87 (LC 15), 10=-89 (LC 14), 11=-20 (LC 10), 15=-7 (LC 11)
Max Grav 2=63 (LC 25), 6=55 (LC 1), 8=165 (LC 25), 9=114 (LC 1), 10=166 (LC 24), 11=63 (LC 25), 15=55 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-66/55, 3-18=-73/50, 4-18=-37/55, 4-19=-37/55, 5-19=-68/50, 5-6=-52/44, 6-7=0/15
BOT CHORD 2-10=-22/56, 9-10=-22/56, 8-9=-22/56, 6-8=-22/56
WEBS 4-9=-69/0, 3-10=-160/122, 5-8=-160/122

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) N/A
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	PB06	Piggyback	3	1	I45815357 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:01 Page: 1
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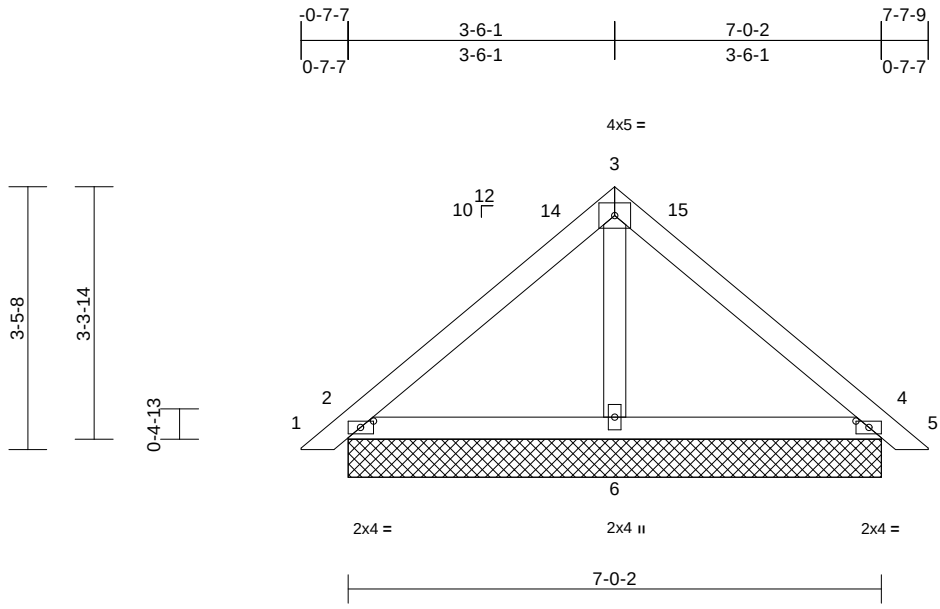


Scale = 1:30.3

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

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 30 lb	FT = 20%

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

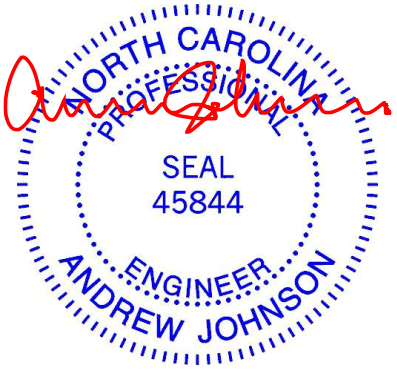
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=7-0-2, 4=7-0-2, 6=7-0-2, 7=7-0-2, 11=7-0-2
Max Horiz 2=81 (LC 13), 7=81 (LC 13)
Max Uplift 2=-40 (LC 14), 4=-50 (LC 15), 7=-40 (LC 14), 11=-50 (LC 15)
Max Grav 2=200 (LC 1), 4=200 (LC 1), 6=209 (LC 1), 7=200 (LC 1), 11=200 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-14=-148/76, 3-14=-91/84, 3-15=-91/84, 4-15=-146/76, 4-5=0/15
BOT CHORD 2-6=-35/76, 4-6=-10/76
WEBS 3-6=-71/1

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) N/A
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	PB07	Piggyback	1	1	I45815358 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:01 Page: 1

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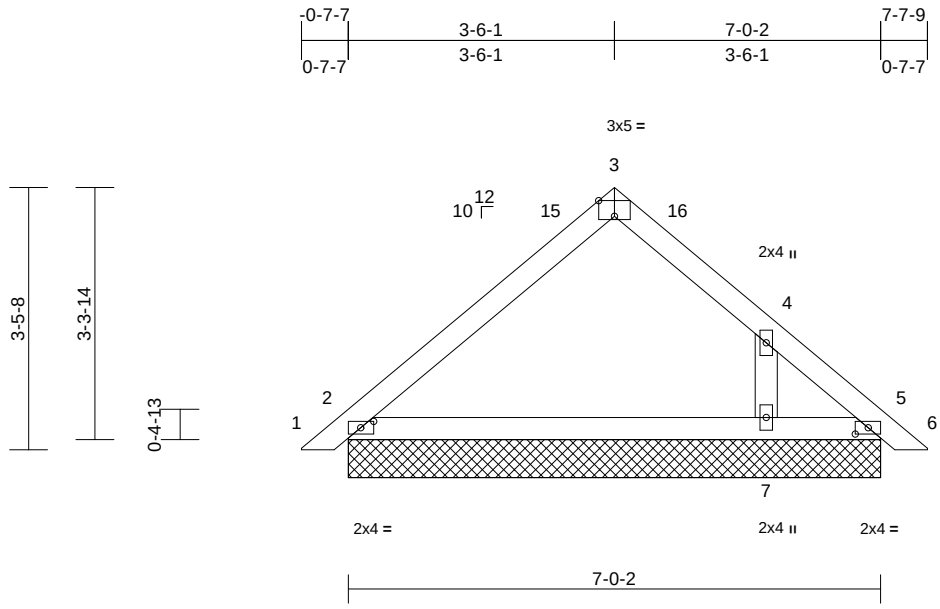

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Plate Offsets (X, Y): [2:0-2-1,0-1-0], [3:0-2-8,Edge], [5:0-2-1,0-1-0]

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 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 (size) 2=7-0-2, 5=7-0-2, 7=7-0-2, 8=7-0-2, 11=7-0-2
Max Horiz 2=-81 (LC 12), 8=-81 (LC 12)
Max Uplift 2=-31 (LC 14), 5=-11 (LC 11), 7=-67 (LC 15), 8=-31 (LC 14), 11=-11 (LC 11)
Max Grav 2=250 (LC 1), 5=106 (LC 1), 7=260 (LC 25), 8=250 (LC 1), 11=106 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-15=-163/38, 3-15=-75/46, 3-16=-111/68, 4-16=-160/63, 4-5=-156/28, 5-6=0/15
BOT CHORD 2-7=-32/114, 5-7=-16/114
WEBS 4-7=-137/121

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) N/A
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	PB08	Piggyback	3	1	I45815359 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:02
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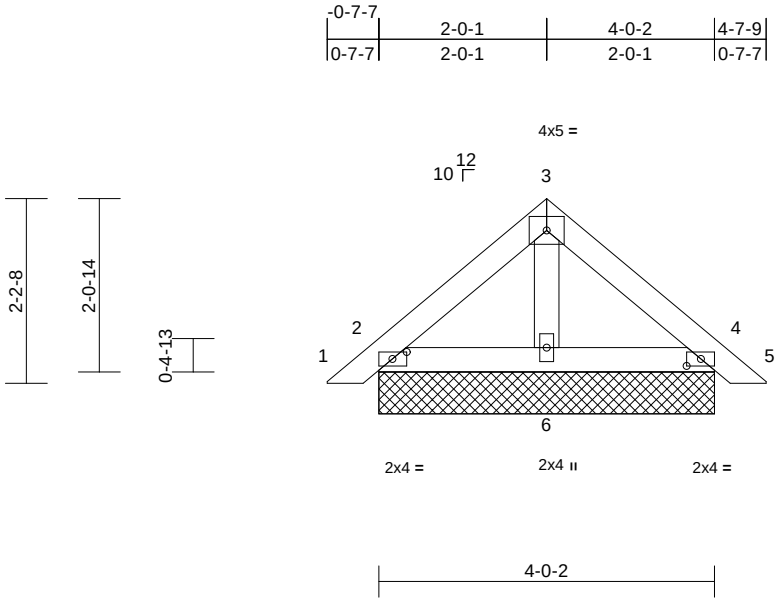

Scale = 1:27.5

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

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 18 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 5-3-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=4-0-2, 4=4-0-2, 6=4-0-2, 7=4-0-2, 11=4-0-2
Max Horiz 2=-50 (LC 12), 7=-50 (LC 12)
Max Uplift 2=-23 (LC 14), 4=-29 (LC 15), 6=-2 (LC 14), 7=-23 (LC 14), 11=-29 (LC 15)
Max Grav 2=118 (LC 1), 4=118 (LC 1), 6=133 (LC 1), 7=118 (LC 1), 11=118 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-70/43, 3-4=-67/43, 4-5=0/15
BOT CHORD 2-6=-13/40, 4-6=-9/40
WEBS 3-6=-52/2

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) N/A
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	PB09	Piggyback	1	1	I45815360 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:02 ID:ZuGB4O8cnsqKlUNpSAm5T_zNyFy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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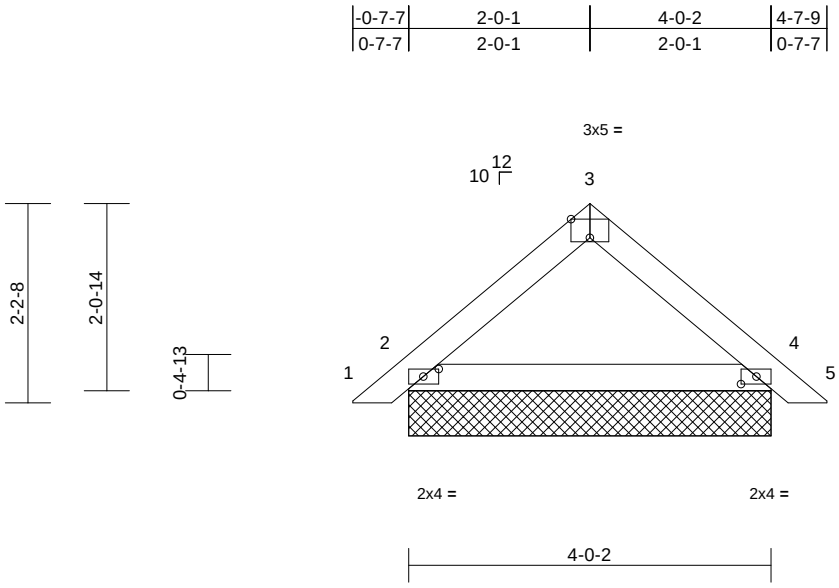

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Plate Offsets (X, Y): [2:0-2-1,0-1-0], [3:0-2-8,Edge], [4:0-2-1,0-1-0]

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 16 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=4-0-2, 4=4-0-2, 6=4-0-2, 10=4-0-2
Max Horiz 2=-50 (LC 12), 6=-50 (LC 12)
Max Uplift 2=-24 (LC 14), 4=-20 (LC 15), 6=-24 (LC 14), 10=-20 (LC 15)
Max Grav 2=185 (LC 1), 4=191 (LC 1), 6=185 (LC 1), 10=191 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-115/43, 3-4=-116/41, 4-5=0/15
BOT CHORD 2-4=-12/85

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) 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.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) N/A
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	VL01	Valley	1	1	I45815361 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:02 Page: 1

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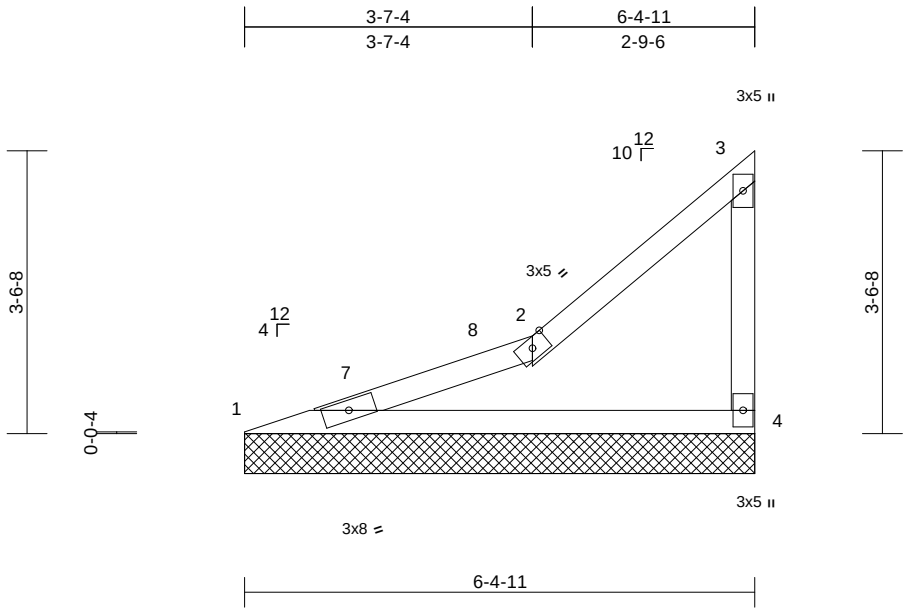


Scale = 1:28.9

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	0.73	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.62	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 24 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

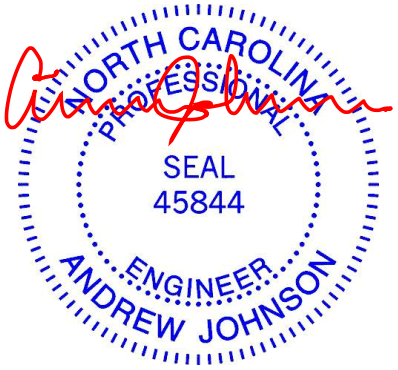
REACTIONS (size) 1=6-4-11, 4=6-4-11
Max Horiz 1=124 (LC 11)
Max Uplift 1=-38 (LC 10), 4=-62 (LC 14)
Max Grav 1=263 (LC 20), 4=258 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-631/180, 1-7=-612/182, 1-8=-148/30, 2-8=-125/32, 2-3=-115/43, 3-4=-137/71
BOT CHORD 1-4=-187/592

NOTES

1) Wind: ASCE 7-10; 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 (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 3-8-0, Exterior (2) 3-8-0 to 6-3-11 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
2) 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.
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 4 and 38 lb uplift at joint 1.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	VL02	Valley	1	1	I45815362 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332, Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:03 Page: 1

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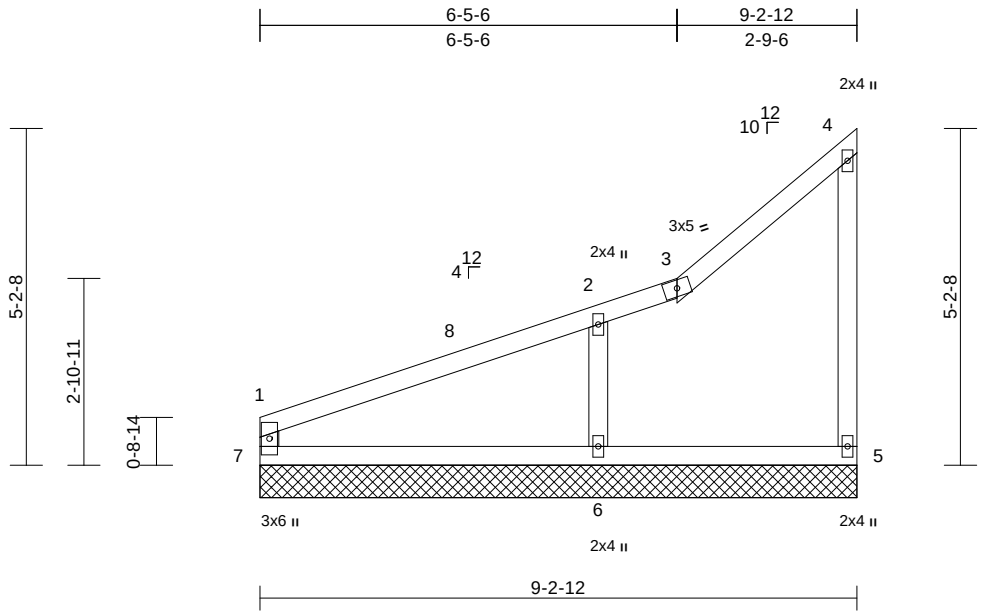


Scale = 1:35.6

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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 40 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 10-0-0 oc bracing.

REACTIONS (size) 5=9-2-12, 6=9-2-12, 7=9-2-12
Max Horiz 7=188 (LC 11)
Max Uplift 5=-36 (LC 11), 6=-131 (LC 14), 7=-31 (LC 10)
Max Grav 5=135 (LC 23), 6=494 (LC 20), 7=169 (LC 20)

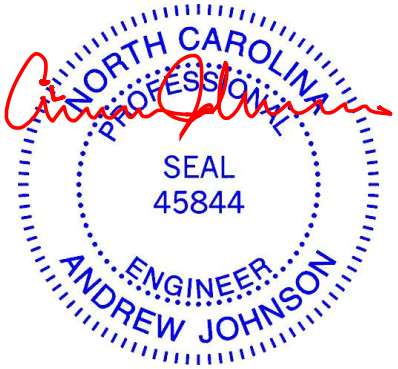
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-7=-134/64, 1-8=-135/18, 2-8=-126/60, 2-3=-113/57, 3-4=-105/76, 4-5=-106/51
BOT CHORD	6-7=-74/85, 5-6=-74/85
WEBS	2-6=-375/182

NOTES

1) Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-5-6, Exterior (2) 6-5-6 to 9-1-0 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
2) 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.
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 7, 36 lb uplift at joint 5 and 131 lb uplift at joint 6.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	VL03	Valley	1	1	I45815363 Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:03 Page: 1
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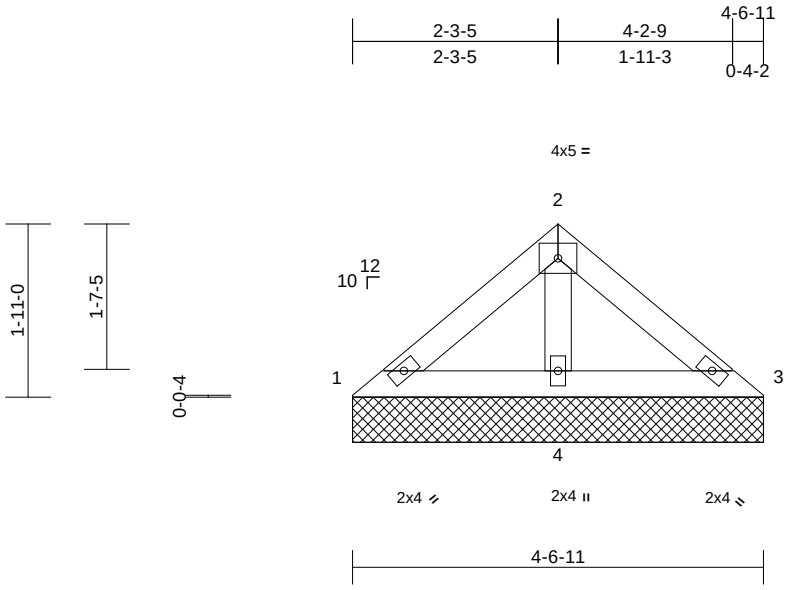

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 16 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 4-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=4-6-11, 3=4-6-11, 4=4-6-11
Max Horiz 1=-43 (LC 10)
Max Uplift 1=-1 (LC 14), 3=-8 (LC 15), 4=-35 (LC 14)
Max Grav 1=60 (LC 31), 3=60 (LC 32), 4=265 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-53/81, 2-3=-13/77
BOT CHORD 1-4=-74/55, 3-4=-74/55
WEBS 2-4=-159/50

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 8 lb uplift at joint 3 and 35 lb uplift at joint 4.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

April 26,2021

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

Job	Truss	Truss Type	Qty	Ply	1100 Carolina Way-Roof-BB-2250
21040035-A	VL04	Valley	1	1	I45815364 Job Reference (optional)

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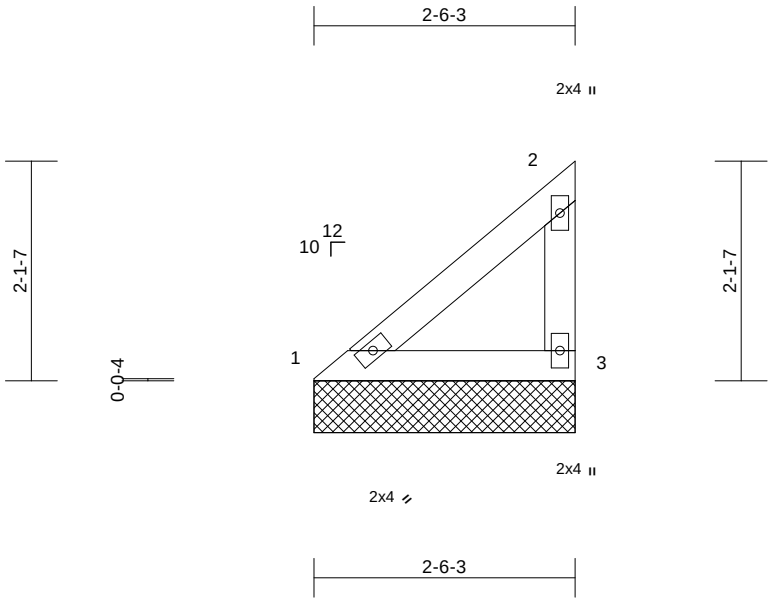


Scale = 1:22.2

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

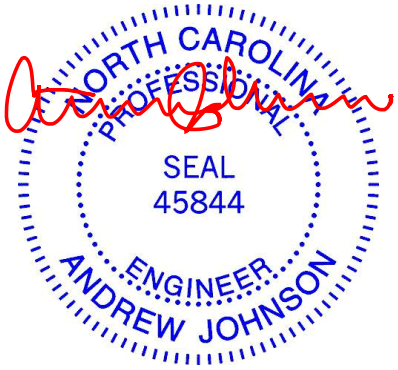
BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=2-6-3, 3=2-6-3
Max Horiz 1=66 (LC 11)
Max Uplift 1=-4 (LC 14), 3=-31 (LC 14)
Max Grav 1=95 (LC 1), 3=107 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-110/43, 2-3=-68/28
BOT CHORD 1-3=-30/92

NOTES
1) Wind: ASCE 7-10; 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 (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3 and 4 lb uplift at joint 1.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

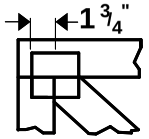


April 26,2021

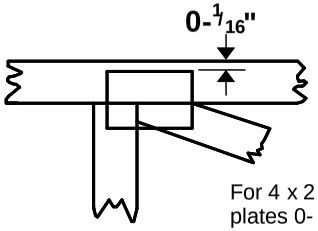
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

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.

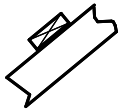
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

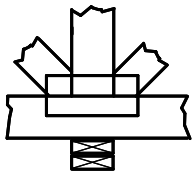
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

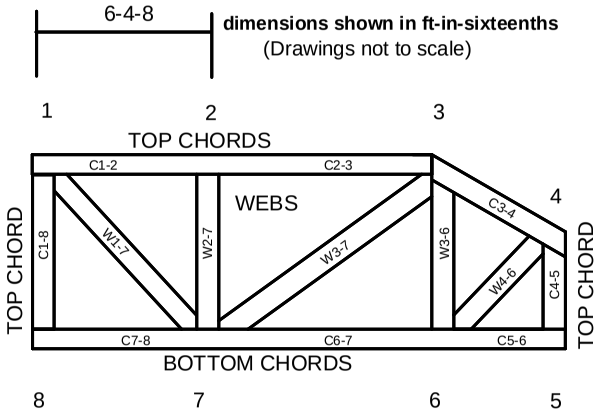


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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