

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Q-2001256-1
156 East Main-Roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Peak Truss Builders, LLC.

Pages or sheets covered by this seal: E14474687 thru E14474704

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



June 4, 2020

Gilbert, Eric

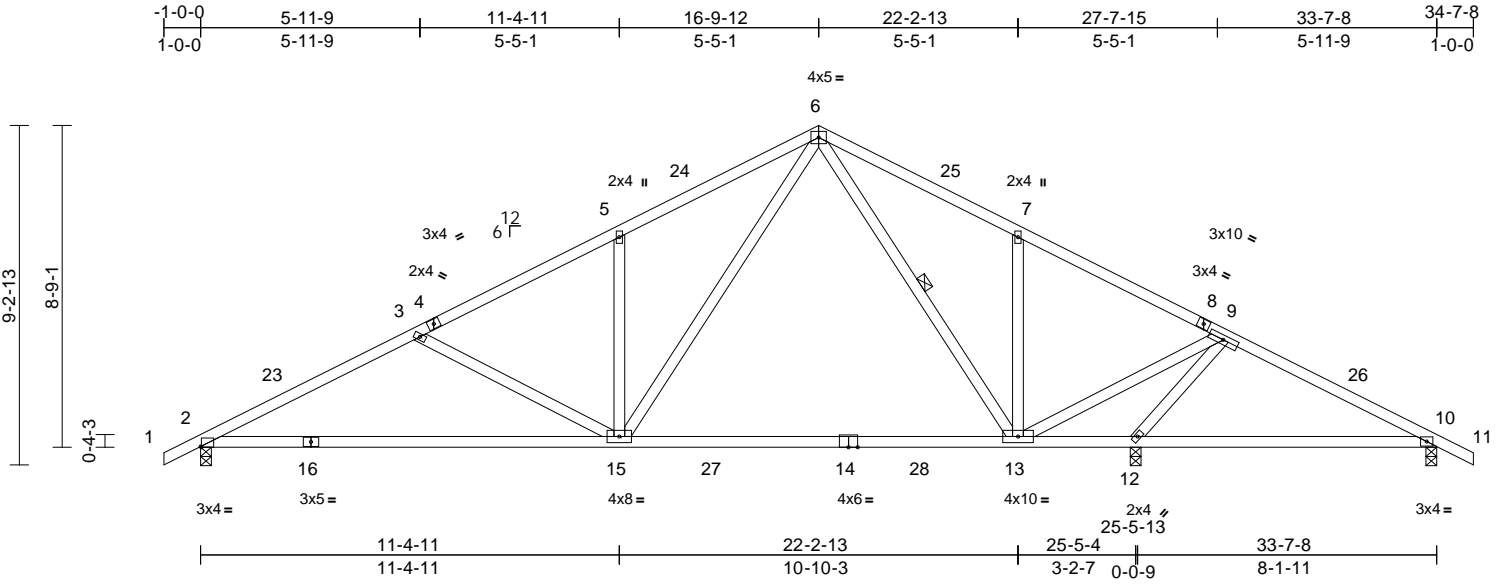
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job Q-2001256-1	Truss T1	Truss Type Common	Qty 2	Ply 1	156 East Main-Roof Job Reference (optional)	E14474687
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:39
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Page: 1



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

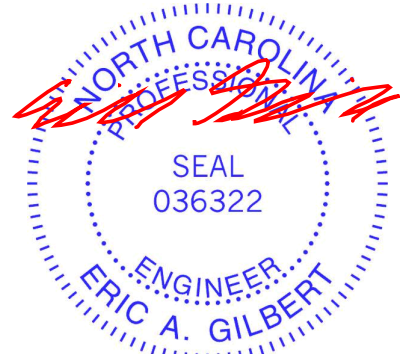
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.47	13-15	>653	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.70	13-15	>434	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 179 lb	FT = 20%

- LUMBER**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-2-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-7-6 oc bracing: 12-13.
WEBS 1 Row at midpt 6-13
- REACTIONS**
(size) 2=0-3-8, 10=0-3-8, 12=0-3-8
Max Horiz 2=-138 (LC 9)
Max Uplift 2=-157 (LC 11), 10=-67 (LC 11), 12=-177 (LC 11)
Max Grav 2=1073 (LC 1), 10=407 (LC 21), 12=1352 (LC 1)
- FORCES**
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/27, 2-23=-1763/243, 3-23=-1729/269, 3-4=-1390/172, 4-5=-1378/202, 5-24=-1406/285, 6-24=-1341/312, 6-25=-650/228, 7-25=-715/202, 7-8=-693/120, 8-9=-705/90, 9-26=-301/62, 10-26=-337/36, 10-11=0/27
BOT CHORD 2-16=-147/1611, 15-16=-147/1611, 15-27=0/729, 14-27=0/729, 14-28=0/729, 13-28=0/729, 12-13=-811/216, 10-12=0/269
WEBS 5-15=-339/180, 6-15=-142/993, 3-15=-428/166, 6-13=-342/0, 7-13=-340/177, 9-13=-160/1567, 9-12=-1608/283

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-4-6, Interior (1) 2-4-6 to 16-9-12, Exterior (2) 16-9-12 to 20-2-2, Interior (1) 20-2-2 to 34-7-8 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) * 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 2, 177 lb uplift at joint 12 and 67 lb uplift at joint 10.
- 5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



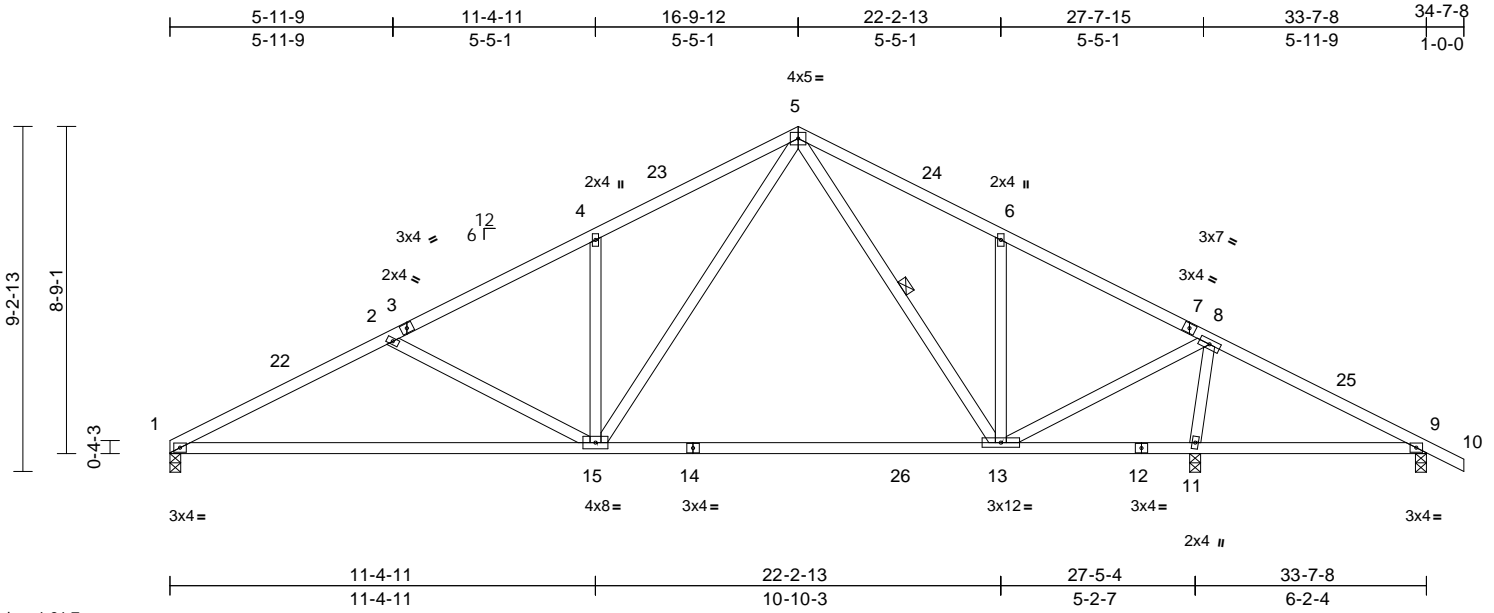
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss T1A	Truss Type Common	Qty 5	Ply 1	156 East Main-Roof Job Reference (optional)	E14474688
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:42
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Page: 1



Scale = 1:61.7

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	0.42	Vert(LL)	-0.49	13-15	>665	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.73	13-15	>454	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 176 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-13

REACTIONS

(size) 1=0-3-8, 9=0-3-8, 11=0-3-8
Max Horiz 1=-137 (LC 9)
Max Uplift 1=-128 (LC 11), 9=-38 (LC 11), 11=-201 (LC 11)
Max Grav 1=1057 (LC 1), 9=200 (LC 21), 11=1555 (LC 1)

FORCES

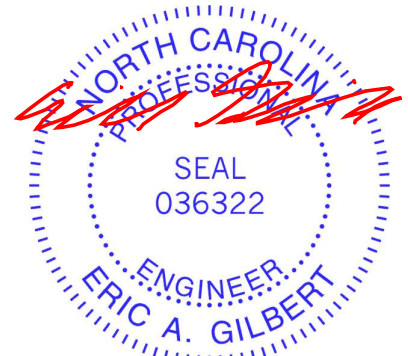
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-1871/264, 2-22=-1809/289, 2-3=-1491/189, 3-4=-1476/219, 4-23=-1499/302, 5-23=-1434/329, 5-24=-826/256, 6-24=-892/238, 6-7=-871/149, 7-8=-883/119, 8-25=-20/357, 9-25=-45/281, 9-10=0/27
BOT CHORD 1-15=-167/1698, 14-15=0/810, 14-26=0/810, 13-26=0/810, 12-13=-432/136, 11-12=-432/136, 9-11=-242/103
WEBS 4-15=-337/179, 5-15=-145/996, 2-15=-434/171, 5-13=-226/93, 6-13=-342/175, 8-13=-98/1324, 8-11=-1438/244

NOTES

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-4-6, Interior (1) 3-4-6 to 16-9-12, Exterior (2) 16-9-12 to 20-2-2, Interior (1) 20-2-2 to 34-7-8 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) * 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 1, 201 lb uplift at joint 11 and 38 lb uplift at joint 9.
- 5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



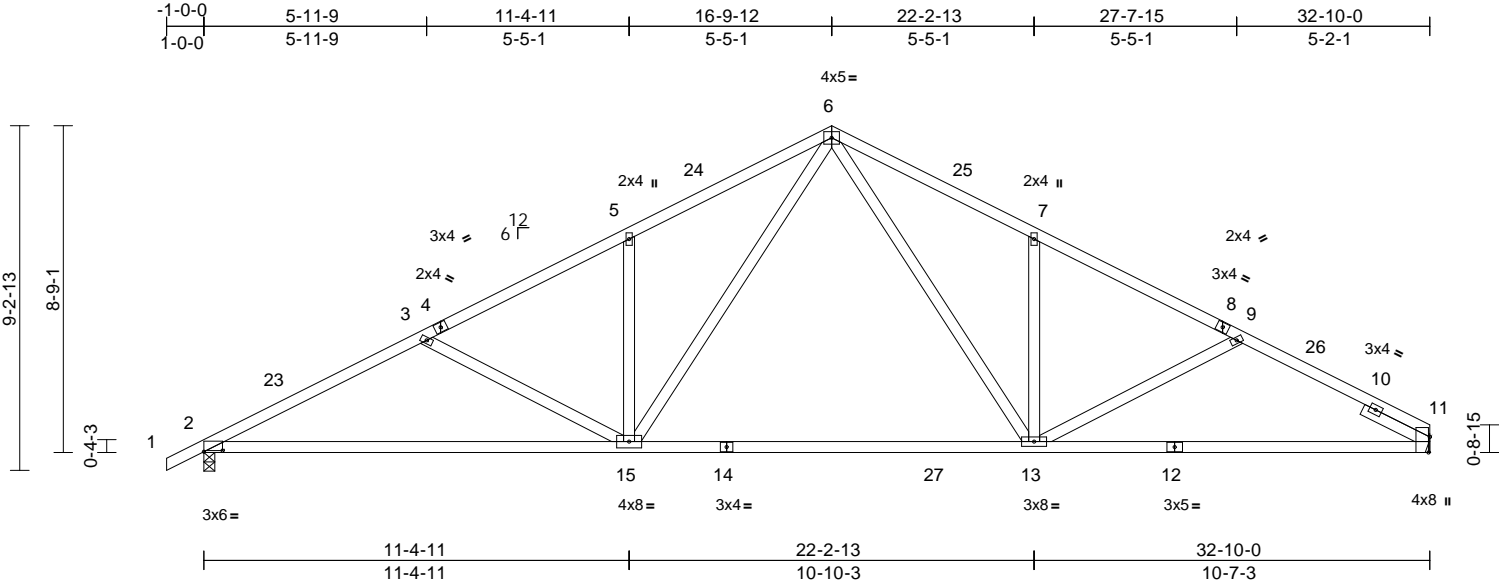
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	156 East Main-Roof	E14474689
Q-2001256-1	T1B	Common	7	1	Job Reference (optional)	

Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:42
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Page: 1



Scale = 1:61.7

Plate Offsets (X, Y): [2:0-6-0,0-0-6], [11:0-5-0,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	0.57	Vert(LL)	-0.58	13-15	>685	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.82	13-15	>479	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 172 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 -- 2-0-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

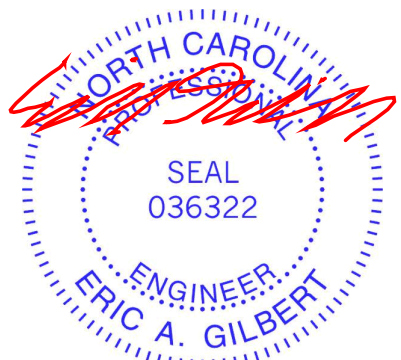
REACTIONS (size) 2=0-3-8, 11= Mechanical
Max Horiz 2=133 (LC 10)
Max Uplift 2=-197 (LC 11), 11=-161 (LC 11)
Max Grav 2=1374 (LC 1), 11=1312 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/27, 2-23=-2426/333, 3-23=-2392/358,
3-4=-2053/262, 4-5=-2039/292,
5-24=-2052/376, 6-24=-1975/403,
6-25=-1901/398, 7-25=-1982/372,
7-8=-1948/285, 8-9=-1949/255,
9-26=-2129/331, 10-26=-2176/313,
10-11=-595/0
BOT CHORD 2-15=-263/2150, 14-15=-38/1275,
14-27=-38/1275, 13-27=-38/1275,
12-13=-229/1883, 11-12=-229/1883
WEBS 5-15=-340/181, 6-15=-148/993,
3-15=-424/164, 6-13=-140/880,
7-13=-379/187, 9-13=-238/130

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft;
B=20ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-3-6, Interior (1) 2-3-6 to 16-9-12, Exterior (2) 16-9-12 to 20-1-2, Interior (1) 20-1-2 to 32-10-0 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) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2 and 161 lb uplift at joint 11.
- 6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



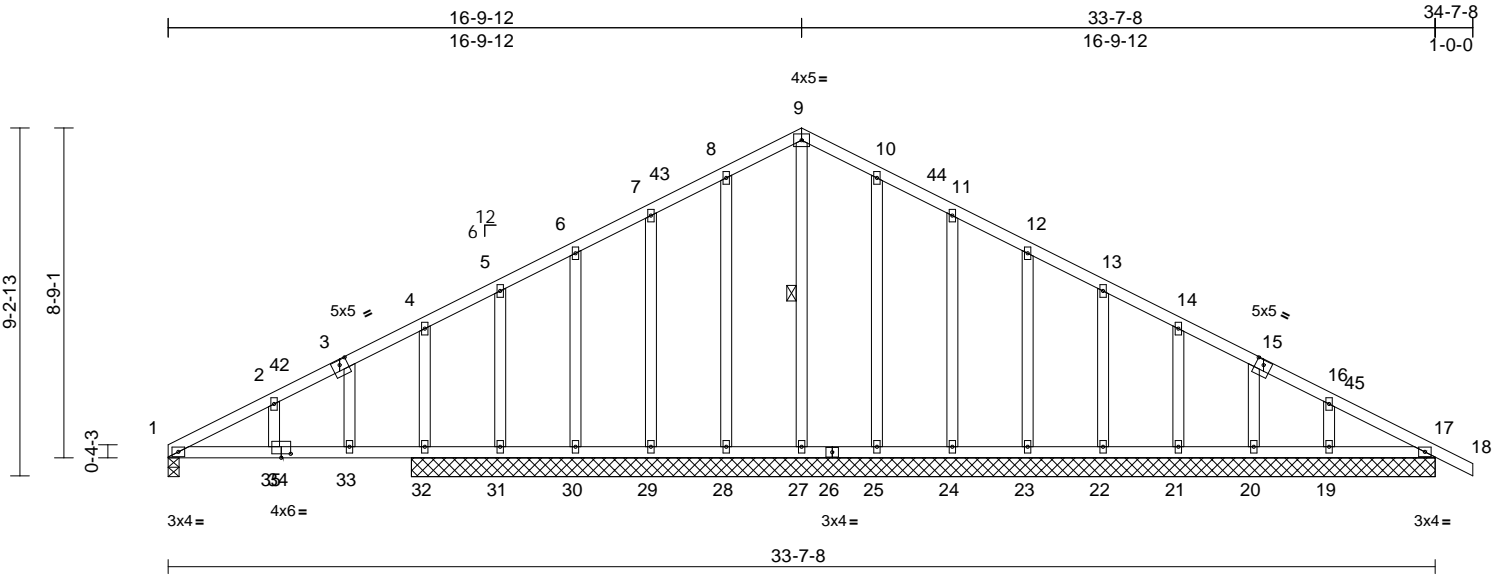
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss T1GE	Truss Type Common Supported Gable	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474690
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:42
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Page: 1



Scale = 1:61.1

Plate Offsets (X, Y): [3:0-2-8,0-1-8], [15:0-2-8,0-1-8], [34:0-3-0,0-1-4]

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	0.26	Vert(LL)	0.06	33-35	>999	240
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.12	33-35	>675	180
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	39	n/a	n/a
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS						
										Weight: 208 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

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

WEBS 1 Row at midpt 9-27

REACTIONS (size)
1=0-3-8, 17=27-2-0, 19=27-2-0,
20=27-2-0, 21=27-2-0, 22=27-2-0,
23=27-2-0, 24=27-2-0, 25=27-2-0,
27=27-2-0, 28=27-2-0, 29=27-2-0,
30=27-2-0, 31=27-2-0, 32=27-2-0,
39=27-2-0
Max Horiz 1=-137 (LC 9)
Max Uplift 1=-6 (LC 11), 17=-25 (LC 11),
19=-35 (LC 11), 20=-34 (LC 11),
21=-42 (LC 11), 22=-35 (LC 11),
23=-36 (LC 11), 24=-40 (LC 11),
25=-30 (LC 11), 28=-30 (LC 11),
29=-37 (LC 11), 30=-50 (LC 11),
31=-102 (LC 20), 32=-140 (LC 11),
39=-25 (LC 11)
Max Grav 1=234 (LC 1), 17=187 (LC 1),
19=203 (LC 21), 20=137 (LC 21),
21=176 (LC 1), 22=156 (LC 21),
23=161 (LC 1), 24=159 (LC 1),
25=167 (LC 21), 27=152 (LC 11),
28=171 (LC 20), 29=144 (LC 20),
30=225 (LC 1), 31=22 (LC 11),
32=615 (LC 20), 39=187 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-146/66, 2-42=-95/77, 3-42=-90/89,
3-4=-85/93, 4-5=-125/101, 5-6=-79/124,
6-7=-84/168, 7-43=-85/200, 8-43=-76/210,
8-9=-99/246, 9-10=-99/245, 10-44=-76/209,
11-44=-86/199, 11-12=-71/166,
12-13=-59/126, 13-14=-60/86, 14-15=-67/42,
15-16=-81/16, 16-45=-71/32, 17-45=-83/19,
17-18=0/27
BOT CHORD 1-35=-27/121, 34-35=-27/121,
33-34=-27/121, 32-33=-28/129,
31-32=-28/129, 30-31=-28/129,
29-30=-28/129, 28-29=-28/129,
27-28=-28/129, 26-27=-28/129,
25-26=-28/129, 24-25=-28/129,
23-24=-28/129, 22-23=-28/129,
21-22=-28/129, 20-21=-28/129,
19-20=-23/122, 17-19=-23/122
WEBS 9-27=-135/16, 8-28=-127/114, 7-29=-116/82,
6-30=-141/75, 5-31=-22/41, 4-32=-287/133,
3-33=-109/73, 2-35=0/47, 10-25=-127/114,
11-24=-119/83, 12-23=-121/66,
13-22=-117/66, 14-21=-133/74,
15-20=-106/62, 16-19=-137/93

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCdL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-0 to 3-4-6, Exterior (2) 3-4-6 to 16-9-12, Corner (3) 16-9-12 to 20-2-2, Exterior (2) 20-2-2 to 34-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1, 30 lb uplift at joint 28, 37 lb uplift at joint 29, 50 lb uplift at joint 30, 102 lb uplift at joint 31, 140 lb uplift at joint 32, 30 lb uplift at joint 25, 40 lb uplift at joint 24, 36 lb uplift at joint 23, 35 lb uplift at joint 22, 42 lb uplift at joint 21, 34 lb uplift at joint 20, 35 lb uplift at joint 19, 25 lb uplift at joint 17 and 25 lb uplift at joint 17.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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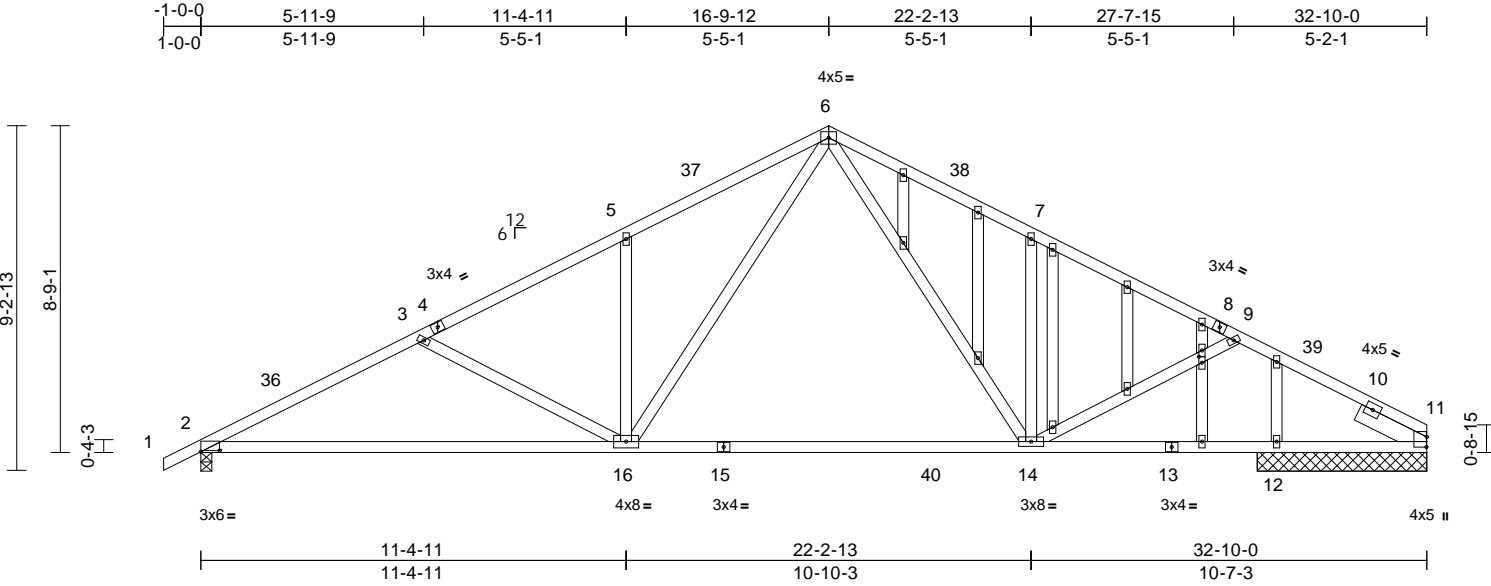
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss T1SE	Truss Type Common	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474691
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:43
ID:HzF1hsmRQvBBsL_w7Te8ENzBeo4-L_QoO7NBuOZd_MolaAULOJSpaeUo66nhnggsx4ziQc

Page: 1



Scale = 1:61.7

Plate Offsets (X, Y): [2:0-6-0,0-0-6], [11:0-3-4,0-0-2], [27:0-1-15,0-1-0]

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	0.66	Vert(LL)	-0.53	14-16	>650	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.82	14-16	>419	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 202 lb	FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.1
- BOT CHORD 2x4 SP No.1
- WEBS 2x4 SP No.3
- OTHERS 2x4 SP No.3
- SLIDER Right 2x6 SP No.2 -- 2-0-0

BRACING

- TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

- (size) 2=0-3-8, 11=4-6-8, 12=4-6-8, 32=4-6-8
- Max Horiz 2=133 (LC 10)
- Max Uplift 2=-203 (LC 11), 11=-200 (LC 11), 32=-200 (LC 11)
- Max Grav 2=1363 (LC 1), 11=1233 (LC 1), 12=93 (LC 21), 32=1233 (LC 1)

FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/27, 2-36=-2403/344, 3-36=-2368/369, 3-4=-2030/273, 4-5=-2016/303, 5-37=-2030/387, 6-37=-1953/413, 6-38=-1870/425, 7-38=-1938/399, 7-8=-1903/314, 8-9=-1904/284, 9-39=-2048/369, 10-39=-2095/351, 10-11=-507/78
- BOT CHORD 2-16=-273/2143, 15-16=-50/1268, 15-40=-50/1268, 14-40=-50/1268, 13-14=-268/1797, 12-13=-268/1797, 11-12=-268/1797
- WEBS 5-16=-340/181, 6-16=-143/995, 3-16=-423/165, 6-14=-163/863, 7-14=-387/183, 9-14=-195/147

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-3-6, Interior (1) 2-3-6 to 16-9-12, Exterior (2) 16-9-12 to 20-1-2, Interior (1) 20-1-2 to 32-10-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 2, 200 lb uplift at joint 11 and 200 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



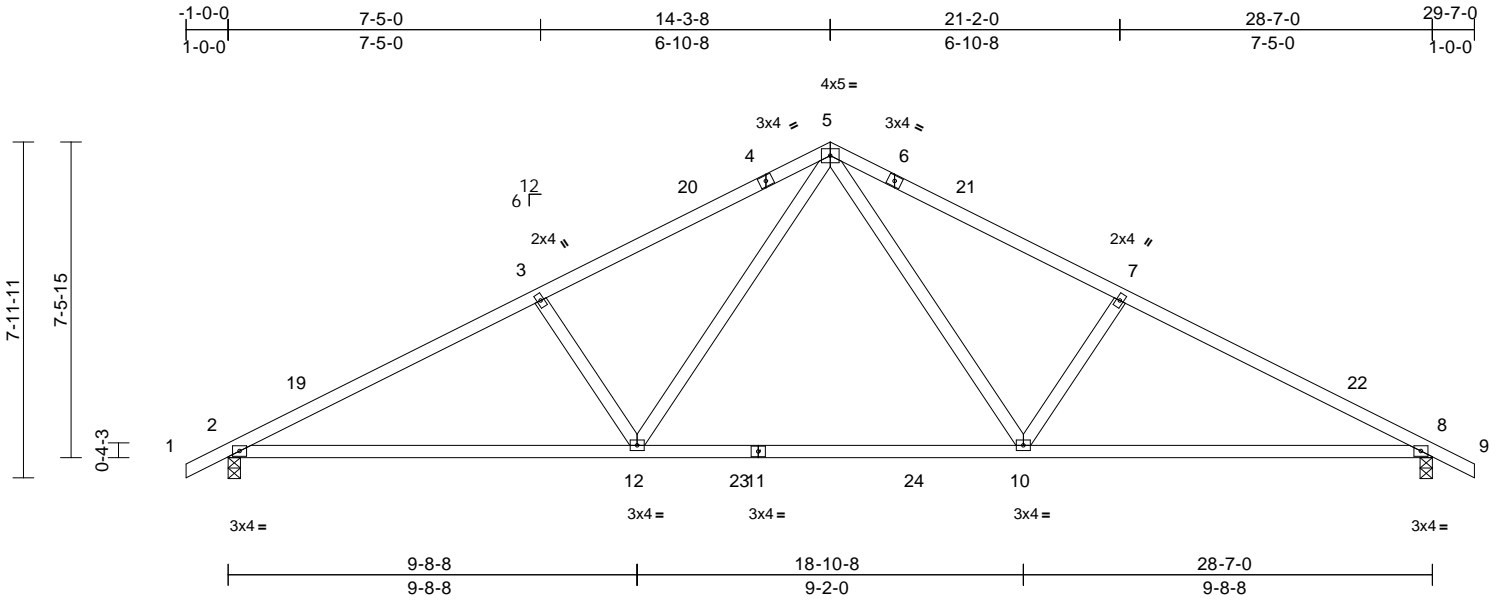
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss T2	Truss Type Common	Qty 6	Ply 1	156 East Main-Roof Job Reference (optional)	E14474692
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:44
ID:HzF1hsmRQvBBsL_w7Te8ENzBeo4-L_QoO7NBuOZd_MolaAULOJSrWeYf68Hhngsx4z9iQc

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.27	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.38	10-12	>892	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 131 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

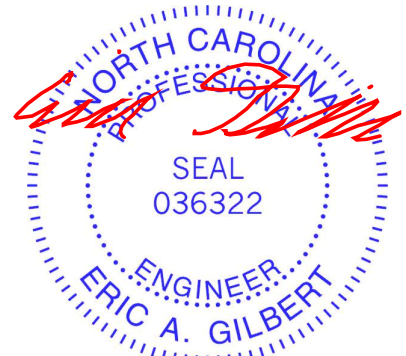
BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-9-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8
 Max Horiz 2=-113 (LC 9)
 Max Uplift 2=-176 (LC 11), 8=-176 (LC 11)
 Max Grav 2=1203 (LC 1), 8=1203 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/27, 2-19=-2005/258, 3-19=-1953/291, 3-20=-1795/290, 4-20=-1689/291, 4-5=-1649/307, 5-6=-1649/307, 6-21=-1689/291, 7-21=-1795/290, 7-22=-1953/291, 8-22=-2005/258, 8-9=0/27
 BOT CHORD 2-12=-156/1747, 12-23=-8/1144, 11-23=-8/1144, 11-24=-8/1144, 10-24=-8/1144, 8-10=-156/1747
 WEBS 5-10=-72/737, 7-10=-449/202, 5-12=-72/737, 3-12=-449/202

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=29ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 14-3-8, Exterior (2) 14-3-8 to 17-3-8, Interior (1) 17-3-8 to 29-7-0 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) * 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.
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 2 and 176 lb uplift at joint 8.
 5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



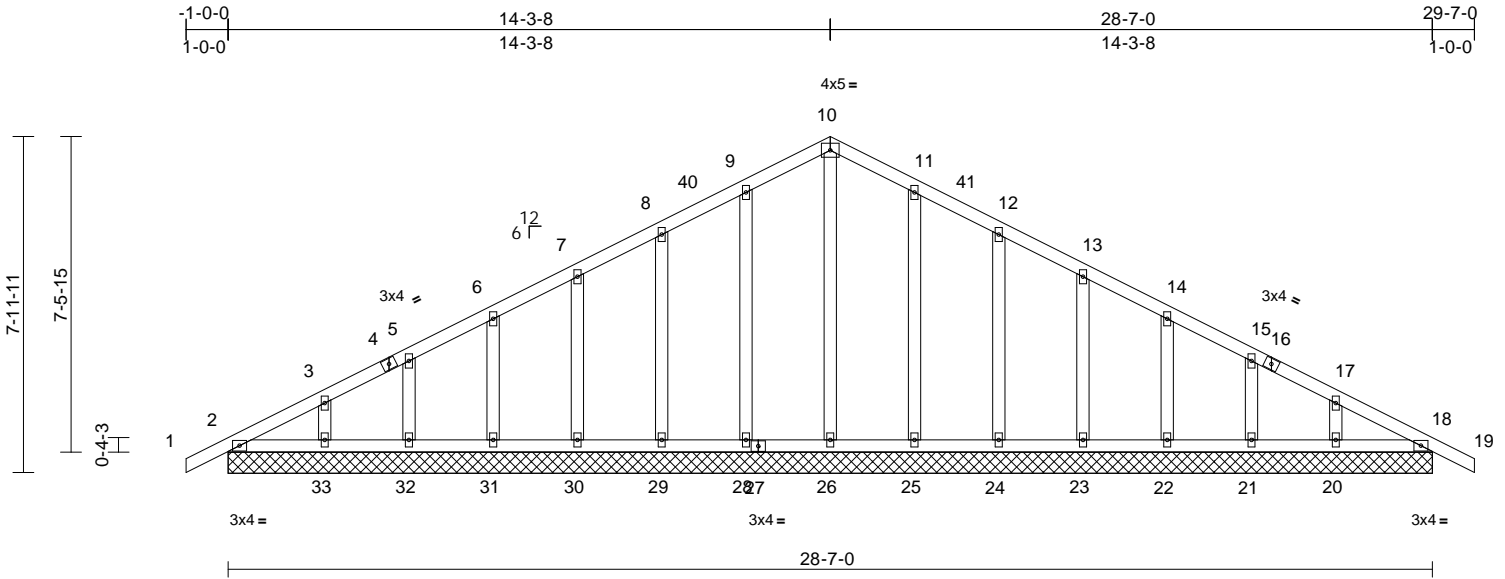
818 Soundside Road
 Edenton, NC 27932

Job Q-2001256-1	Truss T2GE	Truss Type Common Supported Gable	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474693
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:44
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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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	37	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								
											Weight: 166 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
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=28-7-0, 18=28-7-0, 20=28-7-0,
21=28-7-0, 22=28-7-0, 23=28-7-0,
24=28-7-0, 25=28-7-0, 26=28-7-0,
28=28-7-0, 29=28-7-0, 30=28-7-0,
31=28-7-0, 32=28-7-0, 33=28-7-0,
34=28-7-0, 37=28-7-0

Max Horiz 2=-113 (LC 9), 34=-113 (LC 9)
Max Uplift 2=-25 (LC 11), 18=-25 (LC 11),
20=-31 (LC 11), 21=-38 (LC 11),
22=-36 (LC 11), 23=-36 (LC 11),
24=-39 (LC 11), 25=-32 (LC 11),
28=-32 (LC 11), 29=-39 (LC 11),
30=-36 (LC 11), 31=-36 (LC 11),
32=-38 (LC 11), 33=-31 (LC 11),
34=-25 (LC 11), 37=-25 (LC 11)
Max Grav 2=157 (LC 1), 18=157 (LC 1),
20=177 (LC 21), 21=155 (LC 1),
22=161 (LC 21), 23=160 (LC 21),
24=159 (LC 1), 25=168 (LC 21),
26=138 (LC 16), 28=168 (LC 20),
29=159 (LC 1), 30=160 (LC 20),
31=161 (LC 20), 32=155 (LC 1),
33=177 (LC 20), 34=157 (LC 1),
37=157 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-3=-87/82, 3-4=-87/56,
4-5=-68/72, 5-6=-79/66, 6-7=-72/84,
7-8=-65/125, 8-40=-62/161, 9-40=-53/167,
9-10=-76/204, 10-11=-76/208,
11-41=-53/171, 12-41=-62/165,
12-13=-47/129, 13-14=-42/88, 14-15=-44/47,
15-16=-33/26, 16-17=-52/9, 17-18=-82/35,
18-19=0/27
BOT CHORD 2-33=-28/115, 32-33=-28/115, 31-32=-28/115,
30-31=-28/115, 29-30=-28/115,
28-29=-28/115, 27-28=-28/115,
26-27=-28/115, 25-26=-28/115,
24-25=-28/115, 23-24=-28/115,
22-23=-28/115, 21-22=-28/115,
20-21=-28/115, 18-20=-28/115
WEBS 10-26=-104/0, 9-28=-128/113, 8-29=-119/75,
7-30=-120/66, 6-31=-120/68, 5-32=-118/67,
3-33=-125/90, 11-25=-128/113,
12-24=-119/75, 13-23=-120/66,
14-22=-120/68, 15-21=-118/67,
17-20=-125/89

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=20ft; L=29ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 2-3-8, Exterior (2) 2-3-8 to 14-3-8, Corner (3) 14-3-8 to 17-3-8, Exterior (2) 17-3-8 to 29-7-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 2-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2, 25 lb uplift at joint 18, 32 lb uplift at joint 28, 39 lb uplift at joint 29, 36 lb uplift at joint 30, 36 lb uplift at joint 31, 38 lb uplift at joint 32, 31 lb uplift at joint 33, 32 lb uplift at joint 25, 39 lb uplift at joint 24, 36 lb uplift at joint 23, 36 lb uplift at joint 22, 38 lb uplift at joint 21, 31 lb uplift at joint 20, 25 lb uplift at joint 2 and 25 lb uplift at joint 18.
 - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



June 4, 2020

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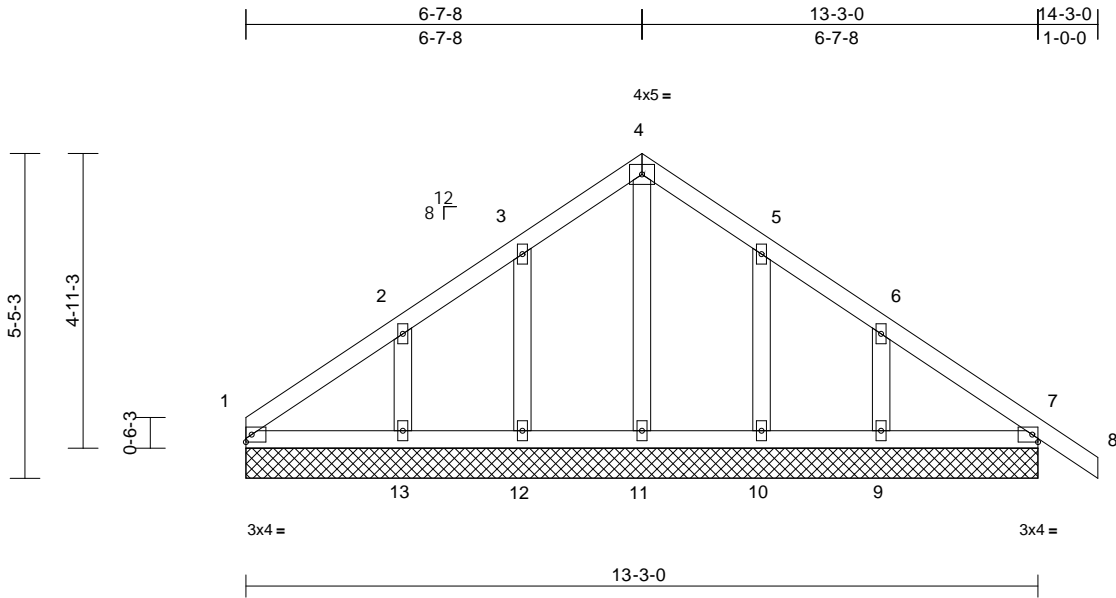
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss T3GE	Truss Type Common Supported Gable	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474694
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:45
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Page: 1



Scale = 1:38.5

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 66 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS (size)

1=13-3-0, 7=13-3-0, 9=13-3-0,
10=13-3-0, 11=13-3-0, 12=13-3-0,
13=13-3-0, 14=13-3-0
Max Horiz 1=-88 (LC 9), 14=-88 (LC 9)
Max Uplift 1=-100 (LC 21), 9=-76 (LC 11),
10=-39 (LC 11), 12=-41 (LC 11),
13=-80 (LC 11), 14=-100 (LC 21)
Max Grav 1=42 (LC 11), 9=268 (LC 1),
10=120 (LC 17), 11=408 (LC 1),
12=148 (LC 20), 13=241 (LC 16),
14=42 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension

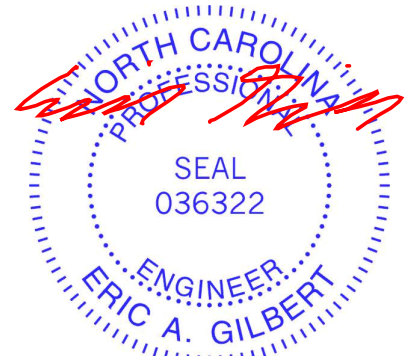
TOP CHORD 1-2=-81/275, 2-3=-18/254, 3-4=-16/253,
4-5=-15/255, 5-6=-17/250, 6-7=-81/277,
7-8=0/33
BOT CHORD 1-13=-188/122, 12-13=-188/122,
11-12=-188/122, 10-11=-188/122,
9-10=-188/122, 7-9=-188/122
WEBS 4-11=-355/0, 3-12=-121/70, 2-13=-158/93,
5-10=-111/69, 6-9=-170/91

NOTES

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

- Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft;
B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Corner (3) 0-0-0 to 3-0-0,
Exterior (2) 3-0-0 to 6-7-8, Corner (3) 6-7-8 to 9-7-8,
Exterior (2) 9-7-8 to 14-3-0 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
- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 100 lb uplift at
joint 1, 41 lb uplift at joint 12, 80 lb uplift at joint 13, 39 lb
uplift at joint 10, 76 lb uplift at joint 9 and 100 lb uplift at
joint 1.
- This truss is designed in accordance with the 2015
International Building Code section 2306.1 and
referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



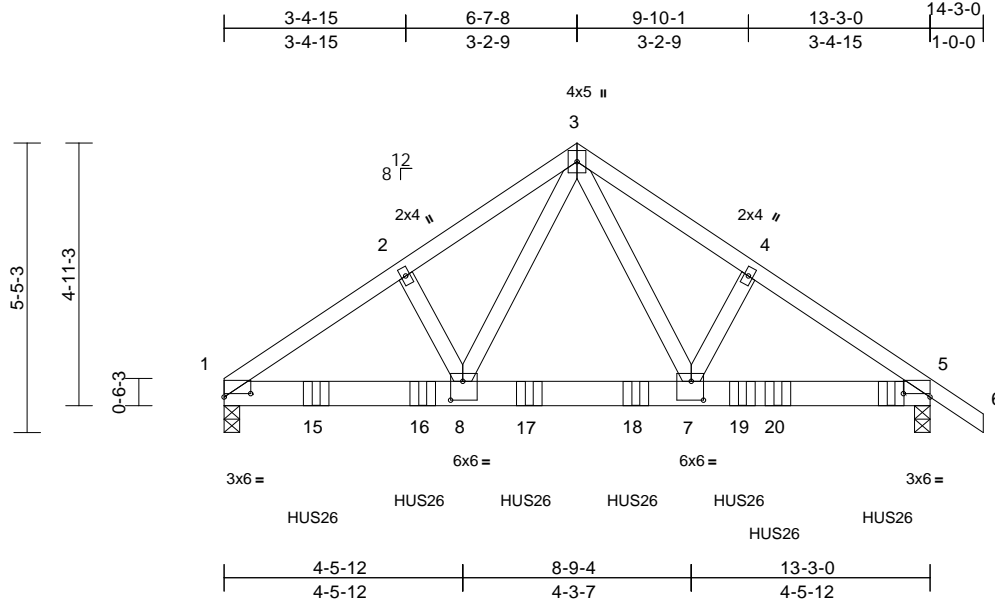
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss T3GRD	Truss Type Common Girder	Qty 1	Ply 3	156 East Main-Roof Job Reference (optional)	E14474695
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:45
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Page: 1



Scale = 1:43.2

Plate Offsets (X, Y): [1:0-6-0,0-0-12], [5:0-6-0,0-0-12], [7:0-2-12,0-4-4], [8:0-2-12,0-4-4]

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	0.19	Vert(LL)	-0.04	7-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.08	7-14	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 233 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING

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

REACTIONS (size) 1=0-3-8, 5=0-3-8

Max Horiz 1=-88 (LC 5)
Max Uplift 1=-598 (LC 7), 5=-778 (LC 7)
Max Grav 1=4517 (LC 1), 5=5652 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-6258/854, 2-3=-6183/890, 3-4=-6588/939, 4-5=-6660/903, 5-6=0/33
BOT CHORD 1-15=-633/5194, 15-16=-633/5194, 8-16=-633/5194, 8-17=-387/3672, 17-18=-387/3672, 7-18=-387/3672, 7-19=-675/5538, 19-20=-675/5538, 5-20=-675/5538
WEBS 3-7=-563/4169, 4-7=-198/106, 3-8=-468/3383, 2-8=-180/106

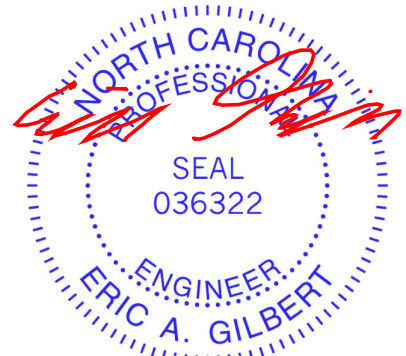
NOTES

- 3-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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 598 lb uplift at joint 1 and 778 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-1-8 oc max. starting at 1-8-12 from the left end to 12-6-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-6=-60, 9-12=-20
Concentrated Loads (lb)
Vert: 14=-1295 (B), 15=-1292 (B), 16=-1292 (B), 17=-1292 (B), 18=-1292 (B), 19=-1292 (B), 20=-1292 (B)



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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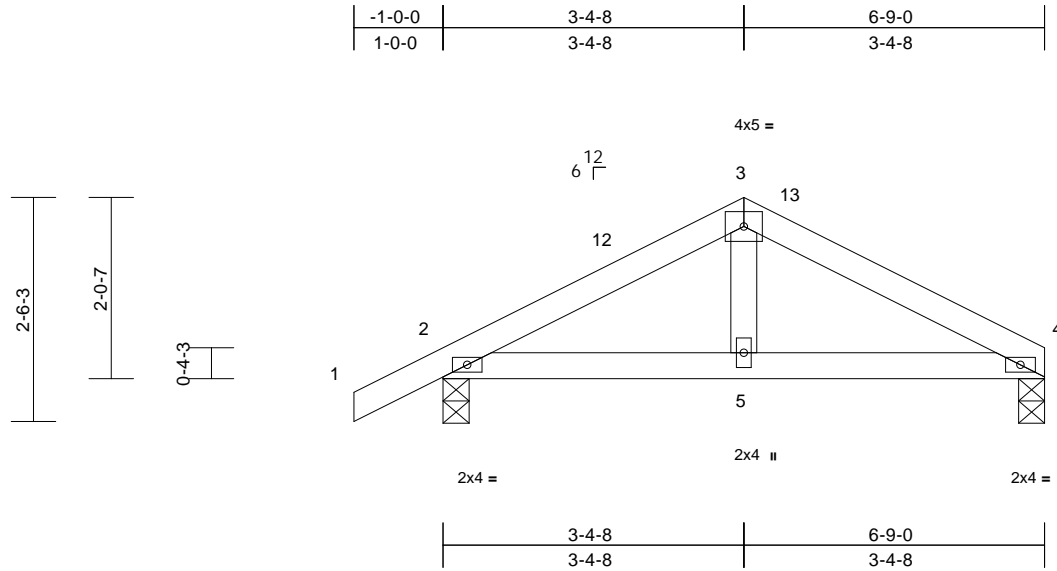
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss T4	Truss Type Common	Qty 3	Ply 1	156 East Main-Roof Job Reference (optional)	E14474696
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:46
ID: tOZu2rkY7_pc?qFLRL4RdlzBeo7-IZ5x18P3BjxCrpWtGJ120x4TWrhRJzn7TevWXPz9lQZ

Page: 1



Scale = 1:25.9

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	0.10	Vert(LL)	-0.01	5-8	>999	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	5-8	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 25 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

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

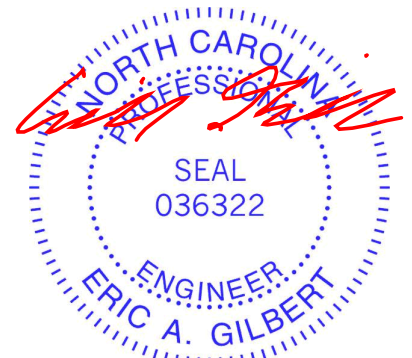
REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=32 (LC 10)
Max Uplift 2=-72 (LC 11), 4=-30 (LC 11)
Max Grav 2=334 (LC 1), 4=266 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-12=-355/91, 3-12=-313/97, 3-13=-287/100, 4-13=-345/95
BOT CHORD 2-5=-36/280, 4-5=-36/280
WEBS 3-5=-2/120

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 3-4-8, Exterior (2) 3-4-8 to 6-2-8, Interior (1) 6-2-8 to 6-9-0 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) * 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4 and 72 lb uplift at joint 2.



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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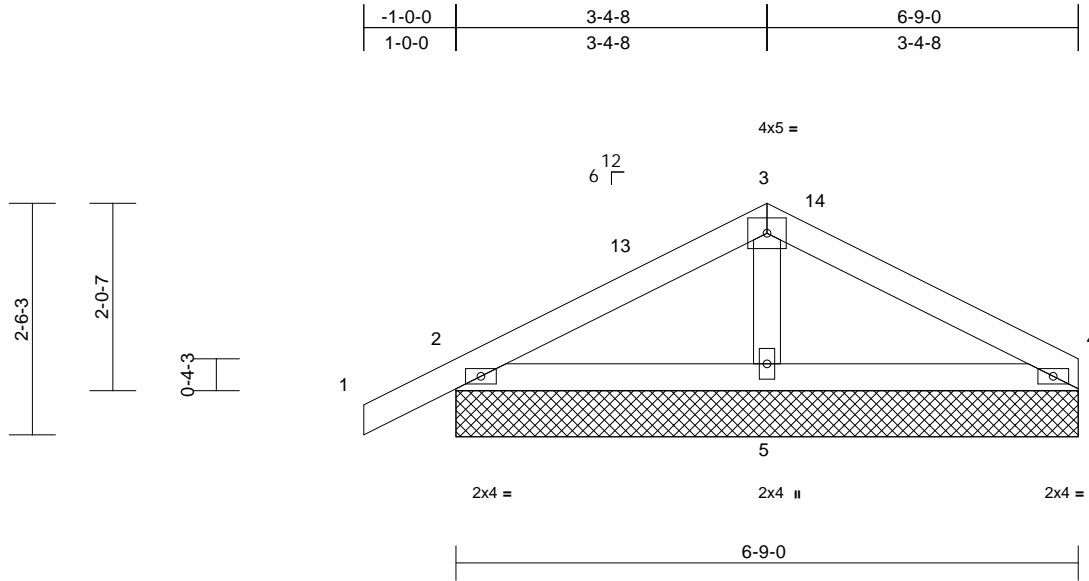
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss T4GE	Truss Type Common Supported Gable	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474697
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:46
ID:TOZu2rkY7_pc?qFLRL4RdlzBeo7-IZ5x18P3BjxCrpWtGJ120x4TYripJZA7TevWXPz9lQZ

Page: 1



Scale = 1:25

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
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
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=6-9-0, 4=6-9-0, 5=6-9-0, 6=6-9-0, 10=6-9-0
Max Horiz 2=32 (LC 10), 6=32 (LC 10)
Max Uplift 2=-67 (LC 11), 4=-26 (LC 11), 5=-8 (LC 11), 6=-67 (LC 11), 10=-26 (LC 11)
Max Grav 2=209 (LC 1), 4=140 (LC 1), 5=252 (LC 1), 6=209 (LC 1), 10=140 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

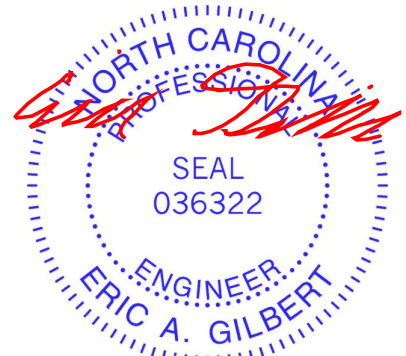
TOP CHORD 1-2=0/27, 2-13=-87/77, 3-13=-46/83, 3-14=-32/81, 4-14=-78/75
BOT CHORD 2-5=-10/41, 4-5=0/41
WEBS 3-5=-118/73

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 3-4-8, Corner (3) 3-4-8 to 6-2-8, Exterior (2) 6-2-8 to 6-9-0 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

- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 2, 26 lb uplift at joint 4, 8 lb uplift at joint 5, 67 lb uplift at joint 2 and 26 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



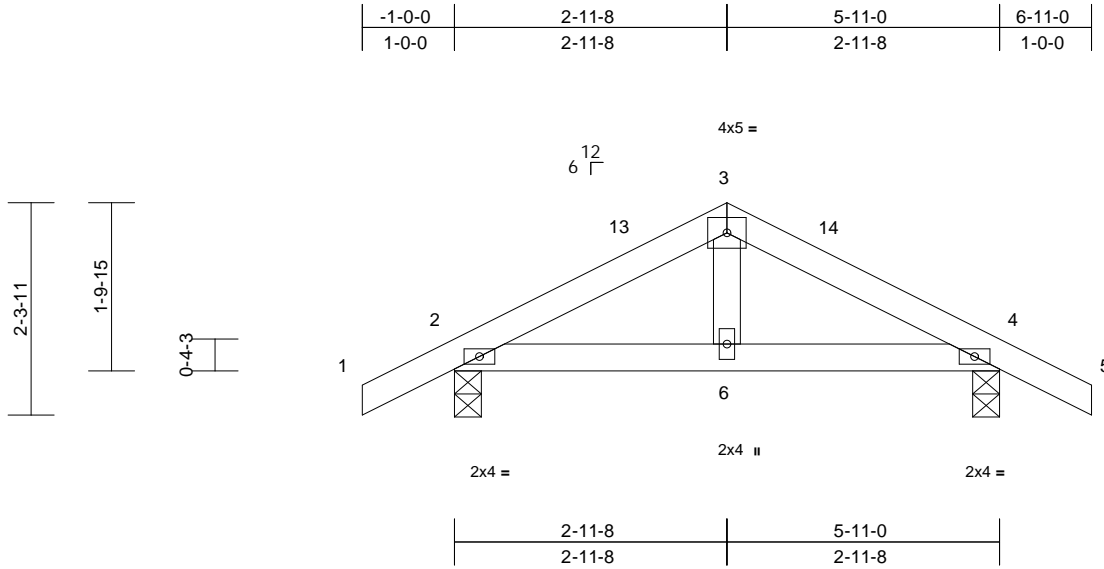
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss T5	Truss Type Common	Qty 3	Ply 1	156 East Main-Roof Job Reference (optional)	E14474698
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:46
ID:TOZu2rkY7_pc?qFLRL4RdlzBeo7-IZ5x18P3BjxCrpWtGJ120x4T4riJZy7TevWXPz9iQZ

Page: 1



Scale = 1:25

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	0.07	Vert(LL)	0.00	6-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

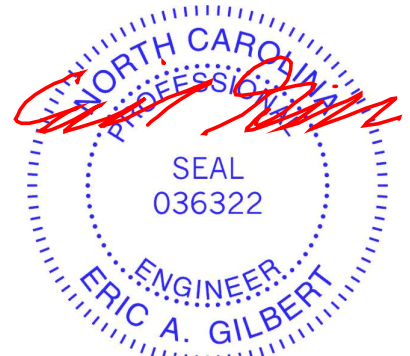
Max Horiz 2=-29 (LC 9)
Max Uplift 2=-64 (LC 11), 4=-64 (LC 11)
Max Grav 2=297 (LC 1), 4=297 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-13=-290/68, 3-13=-251/73,
3-14=-251/73, 4-14=-290/68, 4-5=0/27
BOT CHORD 2-6=-4/229, 4-6=0/229
WEBS 3-6=0/94

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-8, Exterior (2) 2-11-8 to 5-11-0, Interior (1) 5-11-0 to 6-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2 and 64 lb uplift at joint 4.



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

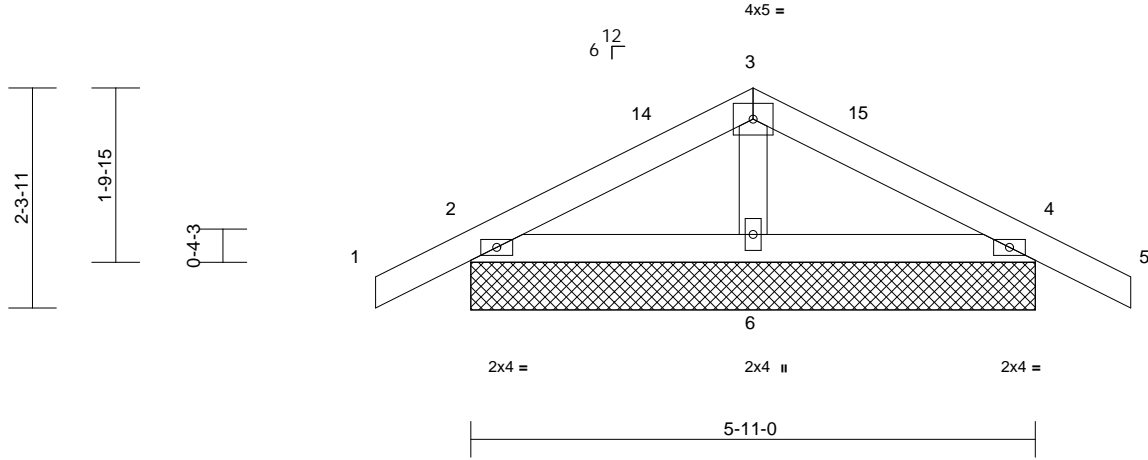
Job Q-2001256-1	Truss T5GE	Truss Type Common Supported Gable	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474699
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:47
ID:TOZu2rkY7_pc?qFLRL4RdlzBeo7-DifJEUQixd43Sz53p0ZH9deqF2l20THile44z9iQY

Page: 1

-1-0-0	2-11-8	5-11-0	6-11-0
1-0-0	2-11-8	2-11-8	1-0-0



Scale = 1:24.2

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=5-11-0, 4=5-11-0, 6=5-11-0, 7=5-11-0, 11=5-11-0
Max Horiz 2=-29 (LC 9), 7=-29 (LC 9)
Max Uplift 2=-69 (LC 11), 4=-69 (LC 11), 7=-69 (LC 11), 11=-69 (LC 11)
Max Grav 2=191 (LC 1), 4=191 (LC 1), 6=211 (LC 1), 7=191 (LC 1), 11=191 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-14=-69/76, 3-14=-32/81, 3-15=-33/87, 4-15=-69/82, 4-5=0/27
BOT CHORD 2-6=0/45, 4-6=0/41
WEBS 3-6=-103/46

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 2-11-8, Corner (3) 2-11-8 to 5-11-0, Exterior (2) 5-11-0 to 6-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 2, 69 lb uplift at joint 4, 69 lb uplift at joint 2 and 69 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



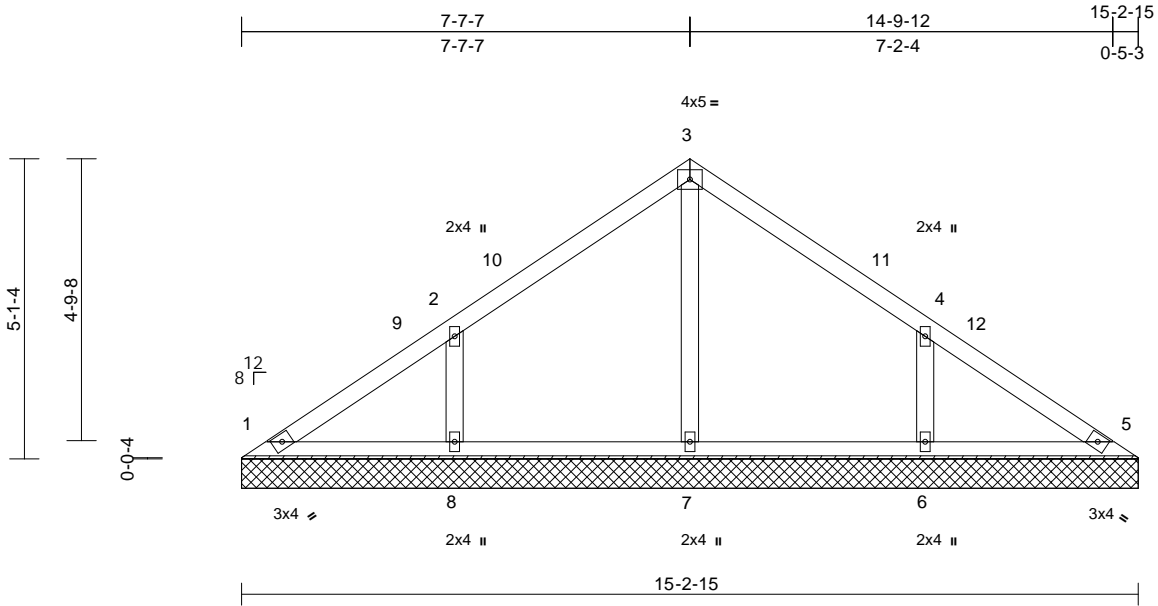
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss V1	Truss Type Valley	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474700
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:47
ID:MapPuCn3BDJ2URZ7gB9NnbzBeo3-DifJEUQixd43Sz53p0ZH29dddF3y2?ZHile44rz9iQY

Page: 1



Scale = 1:39.2

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	0.14	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							
										Weight: 61 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 1=15-2-15, 5=15-2-15, 6=15-2-15, 7=15-2-15, 8=15-2-15
Max Horiz 1=-86 (LC 9)
Max Uplift 6=-108 (LC 11), 8=-108 (LC 11)
Max Grav 1=117 (LC 17), 5=115 (LC 1), 6=339 (LC 21), 7=250 (LC 1), 8=339 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

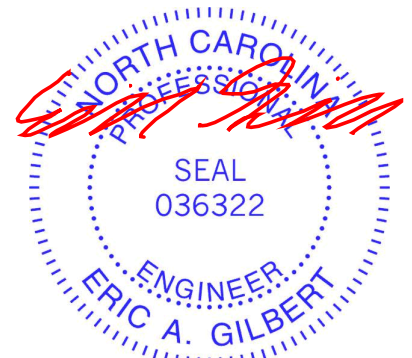
TOP CHORD 1-9=-103/44, 2-9=-53/67, 2-10=-116/70, 3-10=-84/94, 3-11=-84/94, 4-11=-115/70, 4-12=-24/41, 5-12=-81/14
BOT CHORD 1-8=-23/53, 7-8=-23/53, 6-7=-23/53, 5-6=-23/53
WEBS 3-7=-171/0, 2-8=-257/151, 4-6=-257/151

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 7-7-13, Exterior (2) 7-7-13 to 10-7-13, Interior (1) 10-7-13 to 15-3-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 8 and 108 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



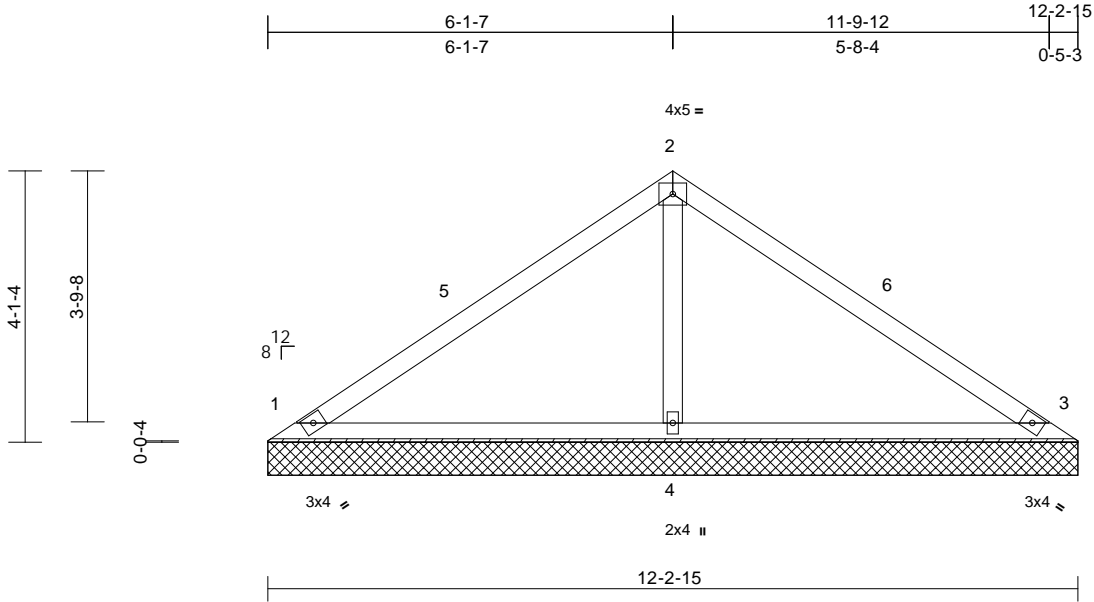
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss V2	Truss Type Valley	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474701
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:47
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Page: 1



Scale = 1:34.8

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	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 44 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 1=12-2-15, 3=12-2-15, 4=12-2-15
Max Horiz 1=68 (LC 9)
Max Uplift 1=47 (LC 11), 3=47 (LC 11), 4=18 (LC 11)
Max Grav 1=227 (LC 1), 3=227 (LC 1), 4=453 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

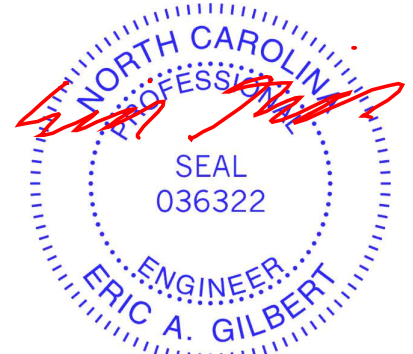
TOP CHORD 1-5=-160/44, 2-5=-86/65, 2-6=-71/65, 3-6=-160/45
BOT CHORD 1-4=-3/69, 3-4=-3/69
WEBS 2-4=-285/79

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 6-1-13, Exterior (2) 6-1-13 to 9-1-13, Interior (1) 9-1-13 to 12-3-5 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) Gable requires continuous bottom chord bearing.

- 5) Gable studs spaced at 4-0-0 oc.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 1, 47 lb uplift at joint 3 and 18 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



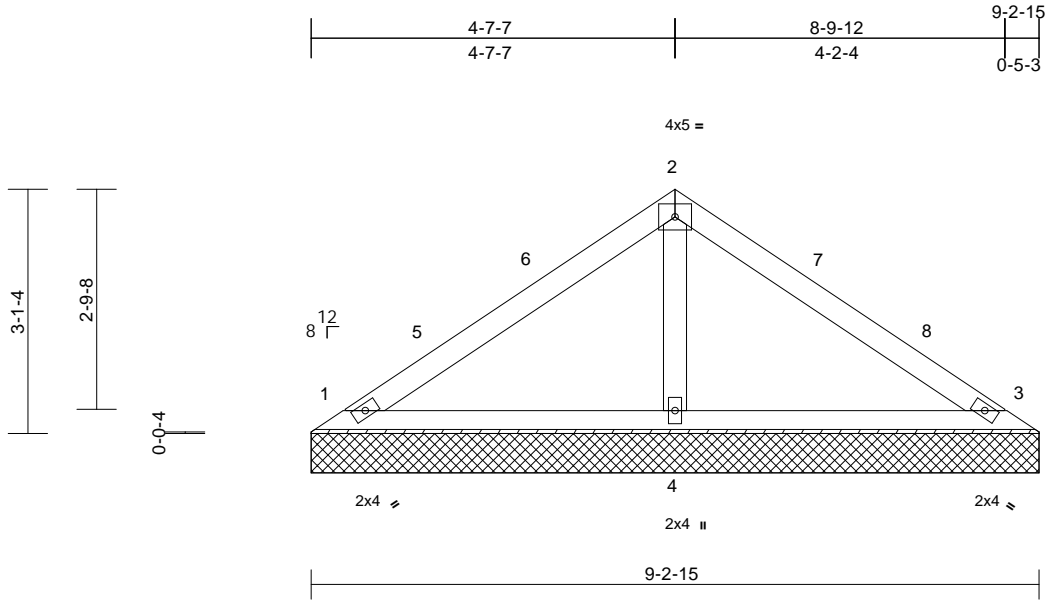
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss V3	Truss Type Valley	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474702
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:48
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Page: 1



Scale = 1:29.3

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 32 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 1=9-2-15, 3=9-2-15, 4=9-2-15
Max Horiz 1=-50 (LC 9)
Max Uplift 1=-35 (LC 11), 3=-35 (LC 11), 4=-13 (LC 11)
Max Grav 1=167 (LC 1), 3=167 (LC 1), 4=333 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-118/28, 5-6=-64/33, 2-6=-46/48, 2-7=-46/48, 7-8=-54/33, 3-8=-118/28
BOT CHORD 1-4=-2/51, 3-4=-2/51
WEBS 2-4=-210/58

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-7-13, Exterior (2) 4-7-13 to 7-7-13, Interior (1) 7-7-13 to 9-3-5 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) Gable requires continuous bottom chord bearing.

- 5) Gable studs spaced at 4-0-0 oc.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 35 lb uplift at joint 3 and 13 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



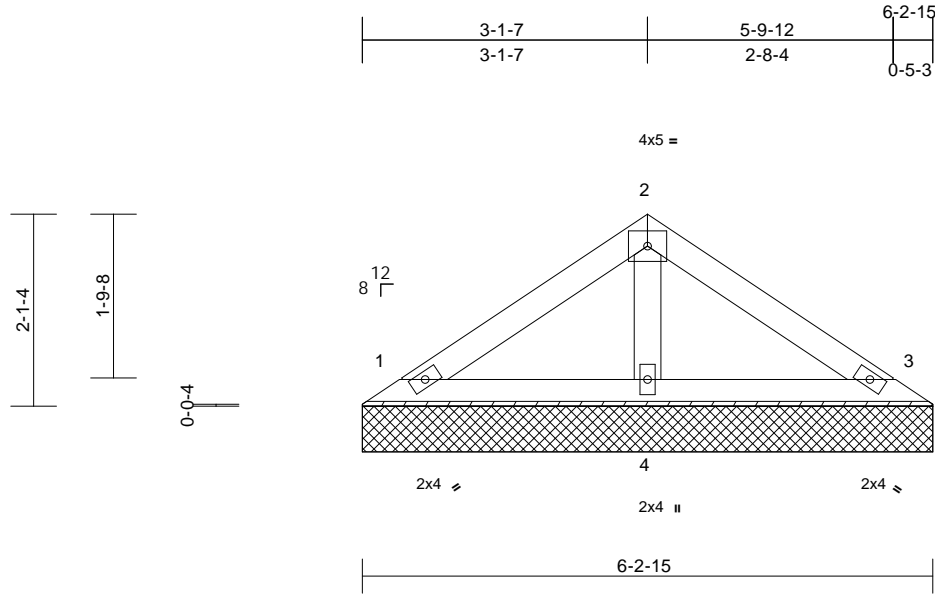
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss V4	Truss Type Valley	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474703
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:48
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Page: 1



Scale = 1:25.2

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 1=6-2-15, 3=6-2-15, 4=6-2-15
Max Horiz 1=32 (LC 10)
Max Uplift 1=-29 (LC 11), 3=-29 (LC 11)
Max Grav 1=117 (LC 1), 3=117 (LC 1), 4=193 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-66/30, 2-3=-66/30
BOT CHORD 1-4=-3/30, 3-4=-3/30
WEBS 2-4=-127/38

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1 and 29 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



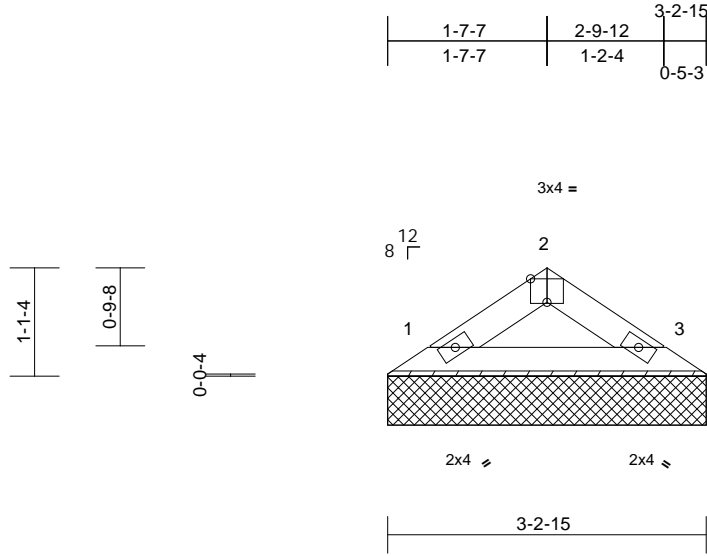
818 Soundside Road
Edenton, NC 27932

Job Q-2001256-1	Truss V5	Truss Type Valley	Qty 1	Ply 1	156 East Main-Roof Job Reference (optional)	E14474704
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S May 6 2020 Print: 8.330 S May 6 2020 MiTek Industries, Inc. Thu Jun 04 09:29:48
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Page: 1



Scale = 1:23.5

Plate Offsets (X, Y): [2:0-2-0,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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=3-2-15, 3=3-2-15
Max Horiz 1=14 (LC 10)
Max Uplift 1=-12 (LC 11), 3=-12 (LC 11)
Max Grav 1=94 (LC 1), 3=94 (LC 1)

FORCES

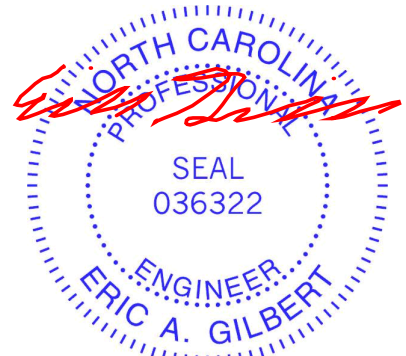
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-79/29, 2-3=-79/29
BOT CHORD 1-3=-7/53

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 12 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

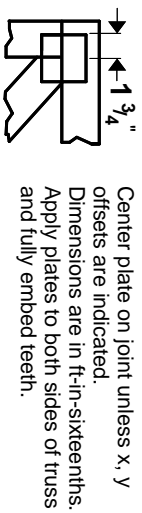
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



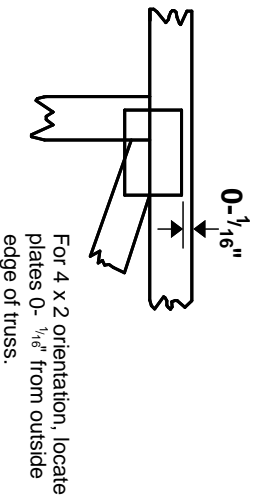
818 Soundside Road
Edenton, NC 27932

Symbols

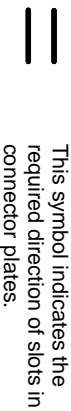
PLATE LOCATION AND ORIENTATION



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 SIZE

4 X 4

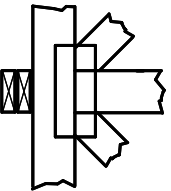
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

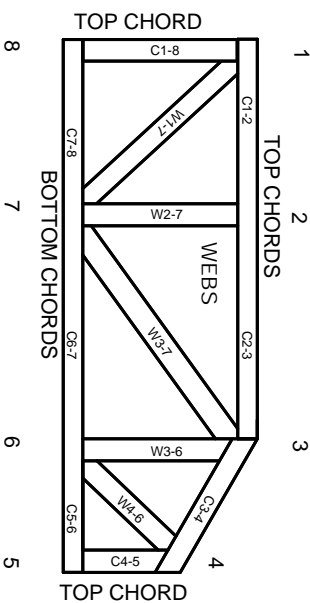


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: 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. 10/03/2015



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.