

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: Q-1900776-1
3 Trace Turner-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: E13081385 thru E13081401

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



May 23, 2019

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	Truss	Truss Type	Qty	Ply	3 Trace Turner-Roof	E13081385
Q-1900776-1	T1A	Common	5	1	Job Reference (optional)	

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

Run: 8.67 E 8.24 May 13 2019 Print: 8.240 E May 13 2019 Mitek Industries, Inc. Wed May 22 13:58:00
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Page: 1

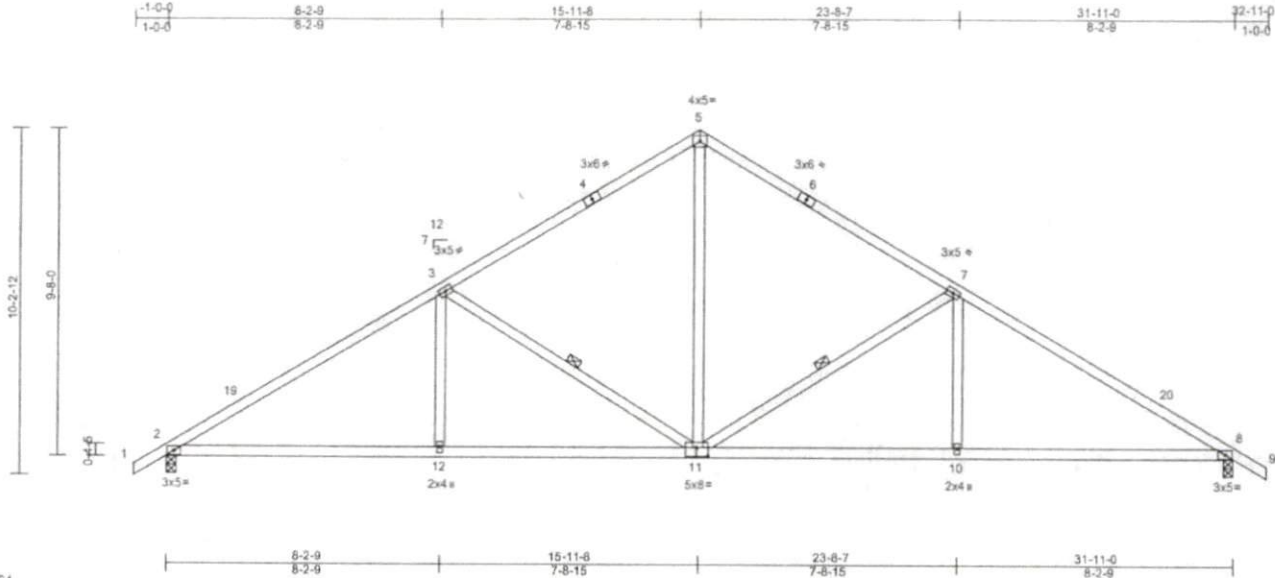


Plate Offsets (X, Y): [11:0-4-0,0-3-0]

Loading	(psf)	Spacing		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.11	10-18	>999	240	MT20	244/190
BOT CHORD	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.26	12-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 160 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 3-6-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-11, 3-11

REACTIONS

(lb/size) 2=1337/0-3-8, 8=1337/0-3-8
Max Horiz 2=-177 (LC 9)
Max Uplift 2=-192 (LC 11), 8=-192 (LC 11)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/30, 2-19=-2082/248, 3-19=-1984/285,
3-4=-1419/260, 4-5=-1282/280,
5-6=-1277/280, 6-7=-1415/259,
7-20=-1984/284, 8-20=-2083/248, 8-9=0/30

BOT CHORD

2-12=-118/1714, 11-12=-118/1714,
10-11=-117/1714, 8-10=-117/1714

WEBS

5-11=-112/889, 7-11=-725/198, 7-10=0/201,
3-11=-722/198, 3-12=0/200

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=32ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-2-5, Interior (1) 2-2-5 to 15-11-8, Exterior (2) 15-11-8 to 19-1-13, Interior (1) 19-1-13 to 32-11-0 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2 and 192 lb uplift at joint 8.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-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 webs 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.

ENGINEERING BY
TRENCO
A Mitek Affiliate

816 Soundside Road
Edenton, NC 27932

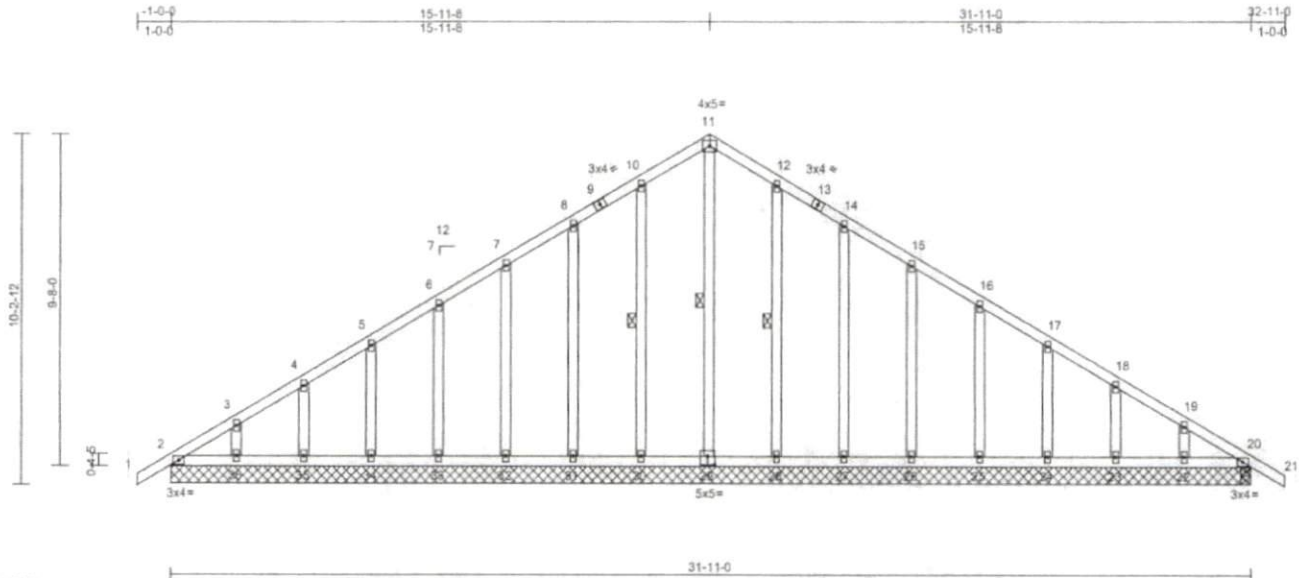
Job	Truss	Truss Type	Qty	Ply	3 Trace Turner-Roof	E13081386
Q-1900776-1	T1GE	Common	1	1	Job Reference (optional)	

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

Run: 8.67 E 8.24 May 13 2019 Print: 8.240 E May 13 2019 Mitek Industries, Inc. Wed May 22 13:58:02

Page: 1

ID:NEcyllkPcOrMzrSAI_BLEXFzGtZA-NwZyAtDbkZVMTlsmhs3q5BG2VJuz3g6i8A4QzDwJ3



Scale = 1:63.2

Plate Offsets (X, Y): [29:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	20-22	>999	240	MT20	244/190
TCOL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-36	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S								

Weight: 213 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 11-29, 10-30, 12-28	REACTIONS (lb/size)	2=150/31-11-0, 20=162/0-3-8, 22=136/31-11-0, 23=165/31-11-0, 24=159/31-11-0, 25=160/31-11-0, 26=160/31-11-0, 27=159/31-11-0, 28=166/31-11-0, 29=133/31-11-0, 30=165/31-11-0, 31=159/31-11-0, 32=160/31-11-0, 33=160/31-11-0, 34=160/31-11-0, 35=161/31-11-0, 36=154/31-11-0	Max Horiz	2=-177 (LC 9)	Max Uplift	2=-7 (LC 7), 20=-4 (LC 11), 22=-29 (LC 11), 23=-48 (LC 11), 24=-42 (LC 11), 25=-43 (LC 11), 26=-42 (LC 11), 27=-48 (LC 11), 28=-33 (LC 11), 30=-34 (LC 11), 31=-47 (LC 11), 32=-42 (LC 11), 33=-43 (LC 11), 34=-42 (LC 11), 35=-46 (LC 11), 36=-31 (LC 11)	Max Grav	2=157 (LC 17), 20=162 (LC 1), 22=141 (LC 17), 23=165 (LC 21), 24=159 (LC 1), 25=160 (LC 21), 26=160 (LC 1), 27=159 (LC 21), 28=168 (LC 21), 29=184 (LC 11), 30=167 (LC 20), 31=159 (LC 20), 32=160 (LC 1), 33=160 (LC 20), 34=160 (LC 1), 35=161 (LC 20), 36=157 (LC 16)	FORCES (lb) - Maximum Compression/Maximum Tension	TOP CHORD	1-2=0/28, 2-3=-137/132, 3-4=-127/118, 4-5=-115/106, 5-6=-106/93, 6-7=-97/82, 7-8=-108/127, 8-9=-145/168, 9-10=-134/175, 10-11=-177/216, 11-12=-177/216, 12-13=-134/175, 13-14=-144/167, 14-15=-108/126, 15-16=-73/81, 16-17=-55/35, 17-18=-64/38, 18-19=-72/60, 19-20=-113/103, 20-21=0/29	BOT CHORD	2-36=-92/138, 33-36=-92/138, 34-35=-92/138, 33-34=-92/138, 32-33=-92/138, 31-32=-92/138, 30-31=-92/138, 29-30=-92/138, 28-29=-93/139, 27-28=-93/139, 26-27=-93/139, 25-26=-93/139, 24-25=-93/139, 23-24=-93/139, 22-23=-93/139, 20-22=-93/139	WEBS	11-29=-160/74, 10-30=-127/57, 8-31=-119/72, 7-32=-120/66, 6-33=-120/67, 5-34=-120/66, 4-35=-121/69, 3-36=-121/60, 12-28=-127/57, 14-27=-119/72, 15-26=-120/66, 16-25=-120/67, 17-24=-119/66, 18-23=-124/70, 19-22=-121/60	NOTES	1) Unbalanced roof live loads have been considered for this design.	2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=32ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 1-0-0 to 1-11-8, Exterior (2) 1-11-8 to 15-11-8, Corner (3) 15-11-8 to 19-1-13, Exterior (2) 19-1-13 to 32-11-0 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) All plates are 2x4 MT20 unless otherwise indicated.	5) Gable studs spaced at 2-0-0 oc.	6) * This truss has been designed for a 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 2, 34 lb uplift at joint 30, 47 lb uplift at joint 31, 42 lb uplift at joint 32, 43 lb uplift at joint 33, 42 lb uplift at joint 34, 46 lb uplift at joint 35, 31 lb uplift at joint 36, 33 lb uplift at joint 28, 48 lb uplift at joint 27, 42 lb uplift at joint 26, 43 lb uplift at joint 25, 42 lb uplift at joint 24, 48 lb uplift at joint 23, 29 lb uplift at joint 22 and 4 lb uplift at joint 20.	LOAD CASE(S)	Standard
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May 23, 2019

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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



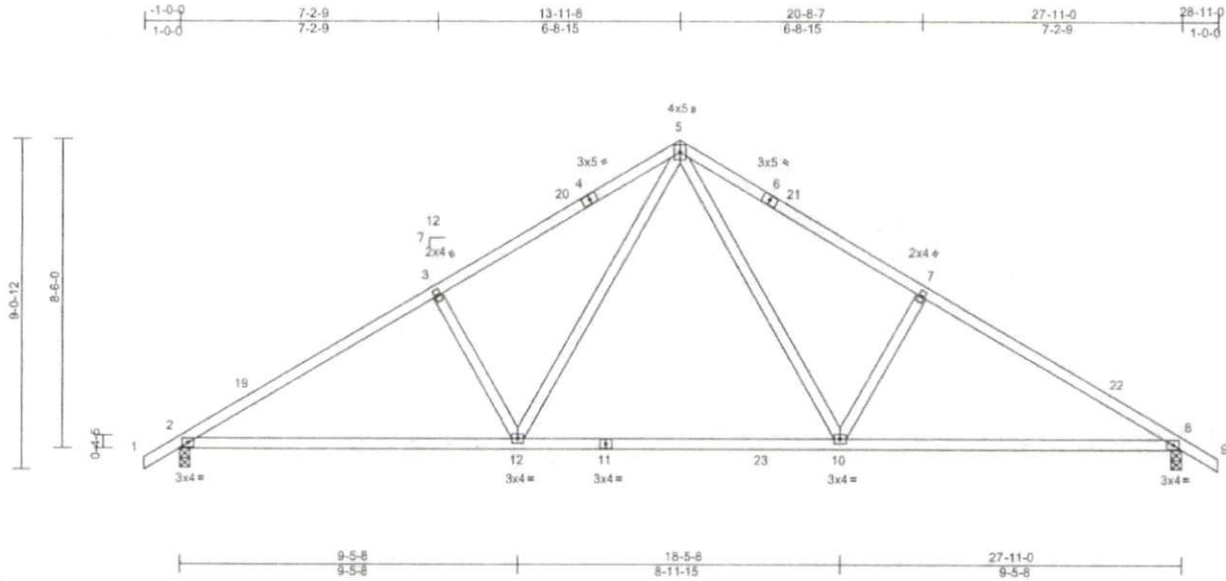
818 Soundside Road
Edenton, NC 27932

Job Q-1900776-1	Truss T2	Truss Type Common	Qty 6	Ply 1	3 Trace Turner-Roof Job Reference (optional)	E13081387
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Peak Truss Builders, LLC, New Hill, NC - 27562.

Run: 8.24 E May 13 2019 Print: 8.240 E May 13 2019 MiTek Industries, Inc. Wed May 22 13:58:03
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Page: 1



Scale = 1:59.6

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	0.51	Vert(LL)	-0.27	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.36	10-12	>944	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 134 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 4-2-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 2=1177/0-3-8, 8=1177/0-3-8
Max Horiz 2=156 (LC 10)
Max Uplift 2=-173 (LC 11), 8=-173 (LC 11)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/30, 2-19=-1754/224, 3-19=-1696/260,
3-20=-1583/288, 4-20=-1466/288,
4-5=-1453/306, 5-6=-1454/306,
6-21=-1466/288, 7-21=-1583/288,
7-22=-1696/260, 8-22=-1754/224, 8-9=0/30

BOT CHORD 2-12=-108/1528, 11-12=0/985, 11-23=0/985,
10-23=0/985, 8-10=-108/1465

WEBS

5-10=-89/727, 7-10=-421/211, 5-12=-89/721,
3-12=-421/211

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=28ft; 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 13-11-8, Exterior (2) 13-11-8 to 16-11-8, Interior (1) 16-11-8 to 28-11-0 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 2 and 173 lb uplift at joint 8.

LOAD CASE(S) Standard



May 23, 2019

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 webs and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI® Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
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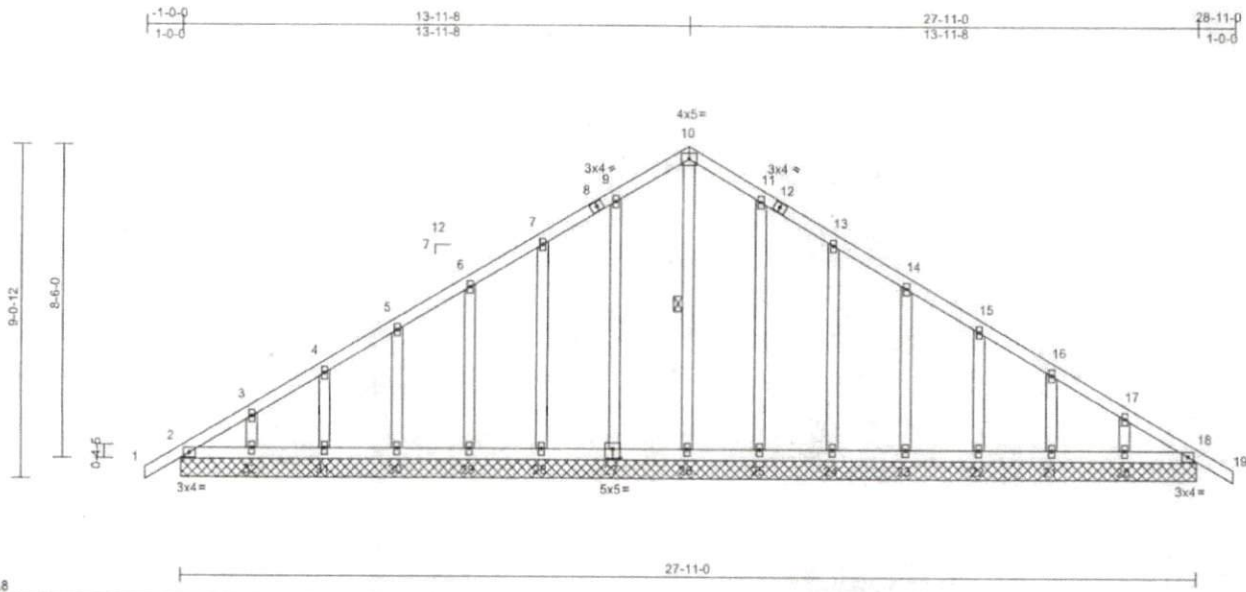
Job Q-1900776-1	Truss T2GE	Truss Type Common Supported Gable	Qty 1	Ply 1	3 Trace Turner-Roof Job Reference (optional)	E13081388
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 6.24 E May 13 2019 Print: 6.240 E May 13 2019 Mitek Industries, Inc. Wed May 22 13:58:03

Page: 1

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Scale = 1:58.8

Plate Offsets (X, Y): [27-0-2-8, 0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	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	0.12	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S								
											Weight: 174 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 10-26

REACTIONS (lb/size)

2=150/27-11-0, 18=150/27-11-0,
 20=154/27-11-0, 21=161/27-11-0,
 22=160/27-11-0, 23=160/27-11-0,
 24=159/27-11-0, 25=165/27-11-0,
 26=133/27-11-0, 27=166/27-11-0,
 28=159/27-11-0, 29=160/27-11-0,
 30=160/27-11-0, 31=161/27-11-0,
 32=154/27-11-0

Max Horiz 2=156 (LC 9)

Max Uplift 2=-9 (LC 11), 18=-9 (LC 11),
 20=-30 (LC 11), 21=-46 (LC 11),
 22=-42 (LC 11), 23=-42 (LC 11),
 24=-46 (LC 11), 25=-36 (LC 11),
 27=-36 (LC 11), 28=-47 (LC 11),
 29=-42 (LC 11), 30=-42 (LC 11),
 31=-46 (LC 11), 32=-30 (LC 11)

Max Grav 2=151 (LC 17), 18=150 (LC 1),
 20=156 (LC 17), 21=161 (LC 21),
 22=160 (LC 21), 23=160 (LC 1),
 24=159 (LC 1), 25=166 (LC 21),
 26=160 (LC 11), 27=168 (LC 20),
 28=159 (LC 1), 29=160 (LC 1),
 30=160 (LC 20), 31=161 (LC 20),
 32=157 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/28, 2-3=-121/116, 3-4=-111/102,
 4-5=-102/90, 5-6=-93/77, 6-7=-87/100,
 7-8=-123/142, 8-9=-105/147, 9-10=-157/190,
 10-11=-157/190, 11-12=-106/148,
 12-13=-124/142, 13-14=-88/100,
 14-15=-53/55, 15-16=-58/30, 16-17=-66/44,
 17-18=-93/86, 18-19=0/28

BOT CHORD

2-32=-81/123, 31-32=-81/123,
 30-31=-81/123, 29-30=-81/123,
 28-29=-81/123, 27-28=-81/123,
 26-27=-80/122, 25-26=-80/122,
 24-25=-80/122, 23-24=-80/122,
 22-23=-80/122, 21-22=-80/122,
 20-21=-80/122, 18-20=-80/122

WEBS

10-26=-136/56, 9-27=-128/60, 7-28=-119/71,
 6-29=-120/66, 5-30=-120/66, 4-31=-121/69,
 3-32=-121/60, 11-25=-128/60,
 13-24=-119/70, 14-23=-120/66,
 15-22=-120/66, 16-21=-121/69,
 17-20=-121/60

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=28ft; eave=2ft. Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 1-11-8, Exterior (2) 1-11-8 to 13-11-8, Corner (3) 13-11-8 to 16-11-8, Exterior (2) 16-11-8 to 28-11-0 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
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 2, 36 lb uplift at joint 27, 47 lb uplift at joint 28, 42 lb uplift at joint 29, 42 lb uplift at joint 30, 46 lb uplift at joint 31, 30 lb uplift at joint 32, 36 lb uplift at joint 25, 46 lb uplift at joint 24, 42 lb uplift at joint 23, 42 lb uplift at joint 22, 46 lb uplift at joint 21, 30 lb uplift at joint 20 and 9 lb uplift at joint 18.

LOAD CASE(S) Standard



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ENGINEERING BY
TRENCO
 A Mitek Affiliate
 818 Soundside Road
 Edenton, NC 27832

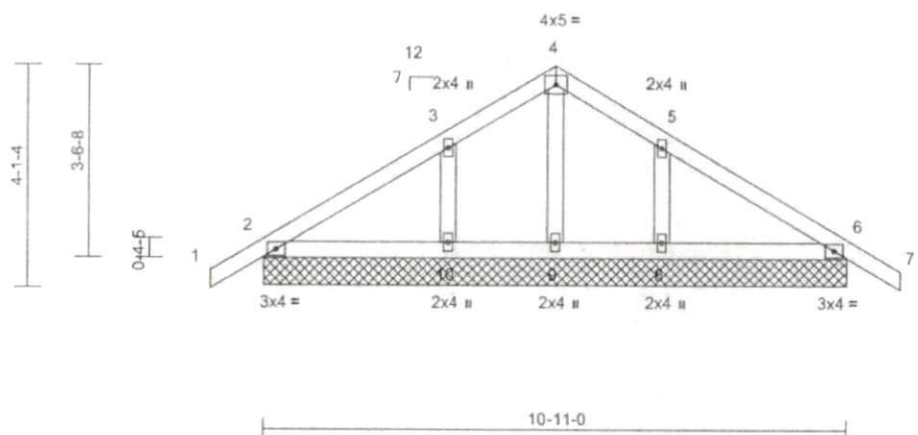
Job	Truss	Truss Type	Qty	Ply	3 Trace Turner-Roof	E13081389
Q-1900776-1	T4GE	Common Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.24 E May 13 2019 Print: 8.240 E May 13 2019 MITek Industries, Inc. Wed May 22 13:58:04

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 49 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 (lb/size) 2=189/10-11-0, 6=189/10-11-0, 8=273/10-11-0, 9=70/10-11-0, 10=273/10-11-0
 Max Horiz 2=-67 (LC 9)
 Max Uplift 2=-56 (LC 11), 6=-56 (LC 11), 8=-62 (LC 11), 10=-62 (LC 11)
 Max Grav 2=189 (LC 1), 6=189 (LC 1), 8=273 (LC 21), 9=70 (LC 16), 10=273 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/28, 2-3=-76/67, 3-4=-78/78, 4-5=-76/78, 5-6=-80/49, 6-7=0/28
 BOT CHORD 2-10=-36/58, 9-10=-36/58, 8-9=-36/58, 6-8=-36/58
 WEBS 4-9=-58/13, 3-10=-195/101, 5-8=-195/101

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 5-5-8, Corner (3) 5-5-8 to 8-5-8, Exterior (2) 8-5-8 to 11-11-0 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

- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 2, 56 lb uplift at joint 6, 62 lb uplift at joint 10 and 62 lb uplift at joint 8.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-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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 Edenton, NC 27932

Job Q-1900776-1	Truss T6	Truss Type Common	Qty 4	Ply 1	3 Trace Turner-Roof Job Reference (optional)	E13081390
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Peak Truss Builders, LLC, New Hill, NC - 27562.

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Page: 1

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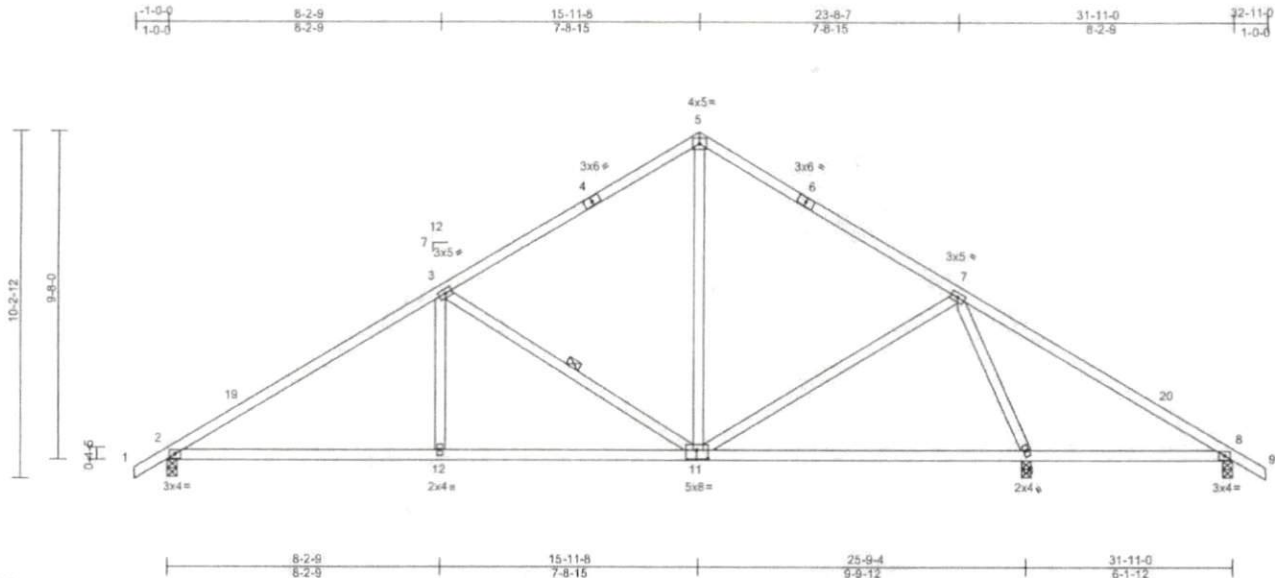


Plate Offsets (X, Y): [11:0-4-0-0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.10	12-15	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.24	12-15	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.03	10	n/a	n/a	
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 160 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 4-3-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 8-10.
 WEBS 1 Row at midpt 3-11

REACTIONS

(lb/size) 2=1062/0-3-8, 8=169/0-3-8, 10=1443/0-3-8
 Max Horiz 2=-177 (LC 9)
 Max Uplift 2=-166 (LC 11), 8=-79 (LC 11), 10=-139 (LC 11)
 Max Grav 2=1062 (LC 1), 8=226 (LC 21), 10=1443 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/30, 2-19=-1542/198, 3-19=-1444/235, 3-4=-882/203, 4-5=-745/224, 5-6=-742/224, 6-7=-880/204, 7-20=0/356, 8-20=-7/221, 8-9=0/30
 BOT CHORD 2-12=-74/1248, 11-12=-74/1248, 10-11=-5/339, 8-10=-222/92
 WEBS 3-12=0/194, 3-11=-718/205, 5-11=-56/397, 7-11=0/423, 7-10=-1317/241

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=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-2-5, Interior (1) 2-2-5 to 15-11-8, Exterior (2) 15-11-8 to 19-1-13, Interior (1) 19-1-13 to 32-11-0 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) * 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 2, 139 lb uplift at joint 10 and 79 lb uplift at joint 8.

LOAD CASE(S) Standard



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 ANSITPI1 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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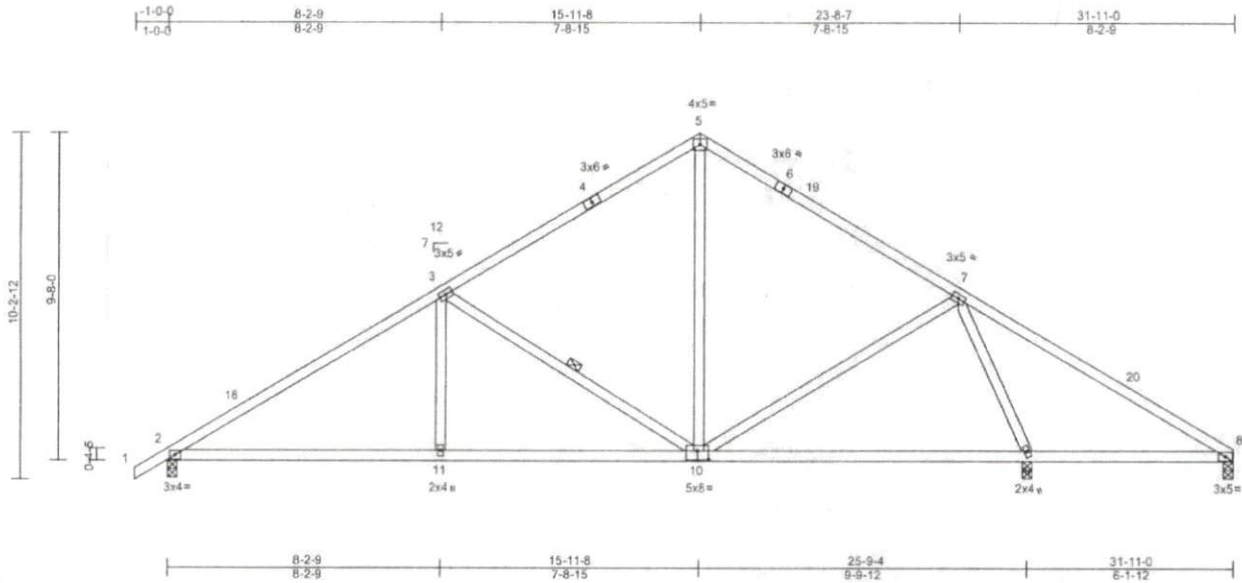
Job Q-1900776-1	Truss T6A	Truss Type Common	Qty 6	Ply 1	3 Trace Turner-Roof Job Reference (optional)	E13081391
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.24 E May 13 2019 Print: 8.240 E May 13 2019 M/Tek Industries, Inc. Wed May 22 13:58:04

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Scale = 1/64

Plate Offsets (X, Y): [10:0-4:0,0-3:0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.10	11-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.24	11-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 159 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 4-3-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.

WEBS 1 Row at midpt 3-10

REACTIONS (lb/size) 2=1062/0-3-8, 8=106/0-3-8, 9=1445/0-3-8
 Max Horiz 2=175 (LC 10)
 Max Uplift 2=-164 (LC 11), 8=-34 (LC 11), 9=151 (LC 11)
 Max Grav 2=1062 (LC 1), 8=163 (LC 21), 9=1445 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/30, 2-18=-1543/195, 3-18=-1446/232, 3-4=-883/201, 4-5=-745/221, 5-6=-723/222, 6-19=-743/202, 7-19=-881/179, 7-20=0/351, 8-20=-18/229
 BOT CHORD 2-11=-99/1249, 10-11=-99/1249, 9-10=-27/343, 8-9=-212/74
 WEBS 3-11=0/194, 3-10=-718/205, 5-10=-54/396, 7-10=0/422, 7-9=-1315/250

NOTES

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=20ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-2-5, Interior (1) 2-2-5 to 15-11-8, Exterior (2) 15-11-8 to 19-1-13, Interior (1) 19-1-13 to 31-11-0 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) * 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2, 151 lb uplift at joint 9 and 34 lb uplift at joint 8.
- LOAD CASE(S)** Standard



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

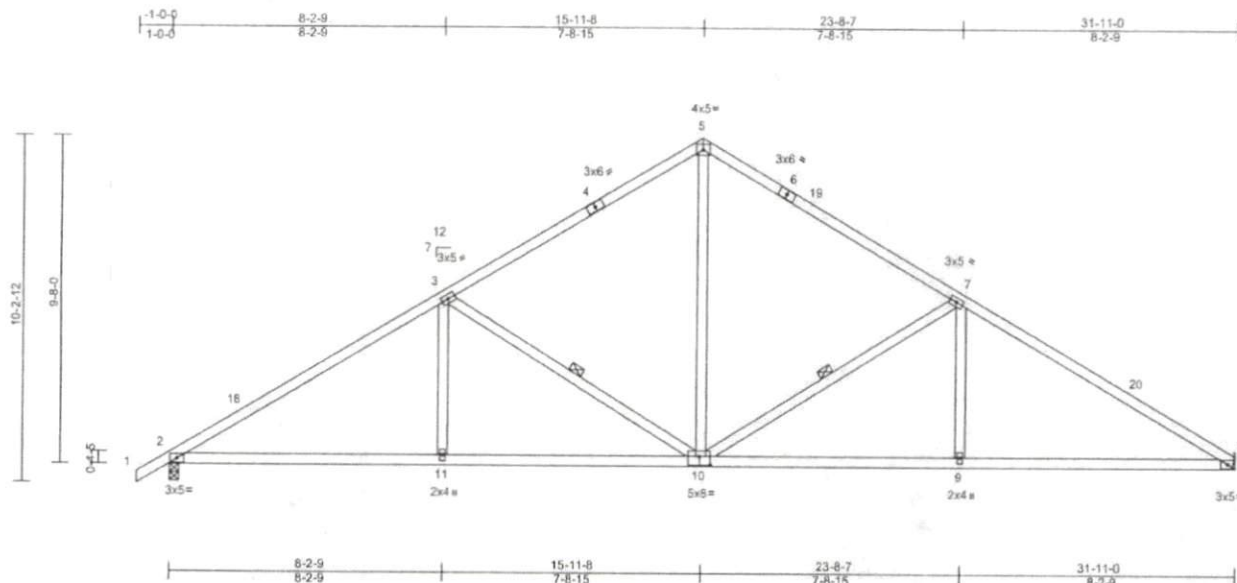
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 818 Soundside Road
 Edenton, NC 27932

Job Q-1900776-1	Truss T6B	Truss Type Common	Qty 5	Ply 1	3 Trace Turner-Roof Job Reference (optional)	E13081392
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Peak Truss Builders, LLC, New Hill, NC - 27562,

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Page: 1



Scale = 1/64

Plate Offsets (X, Y): [10:0-4:0,0-3:0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	V/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.12	9-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.27	9-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 158 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 3-4-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-10, 3-10

REACTIONS

(lb/size) 2=1338/0-3-8, 8=1276/ Mechanical
Max Horiz 2=175 (LC 10)
Max Uplift 2=-193 (LC 11), 8=-156 (LC 11)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/30, 2-18=-2084/250, 3-18=-1986/286,
3-4=-1421/261, 4-5=-1284/282,
5-6=-1258/281, 6-19=-1279/262,
7-19=-1416/261, 7-20=-1991/289,
8-20=-2089/259

BOT CHORD

2-11=-146/1715, 10-11=-146/1715,
9-10=-150/1720, 8-9=-150/1720

WEBS

5-10=-113/891, 7-10=-730/203, 7-9=0/202,
3-10=-722/199, 3-11=0/200

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft;
B=20ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior (2) 1-0-0 to 2-2-5, Interior (1) 2-2-5 to 15-11-8, Exterior (2) 15-11-8 to 19-1-13, Interior (1) 19-1-13 to 31-11-0 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) * 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2 and 156 lb uplift at joint 8.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	3 Trace Turner-Roof	E13081393
Q-1900776-1	T6SE	Common Structural Gable	1	1	Job Reference (optional)	

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

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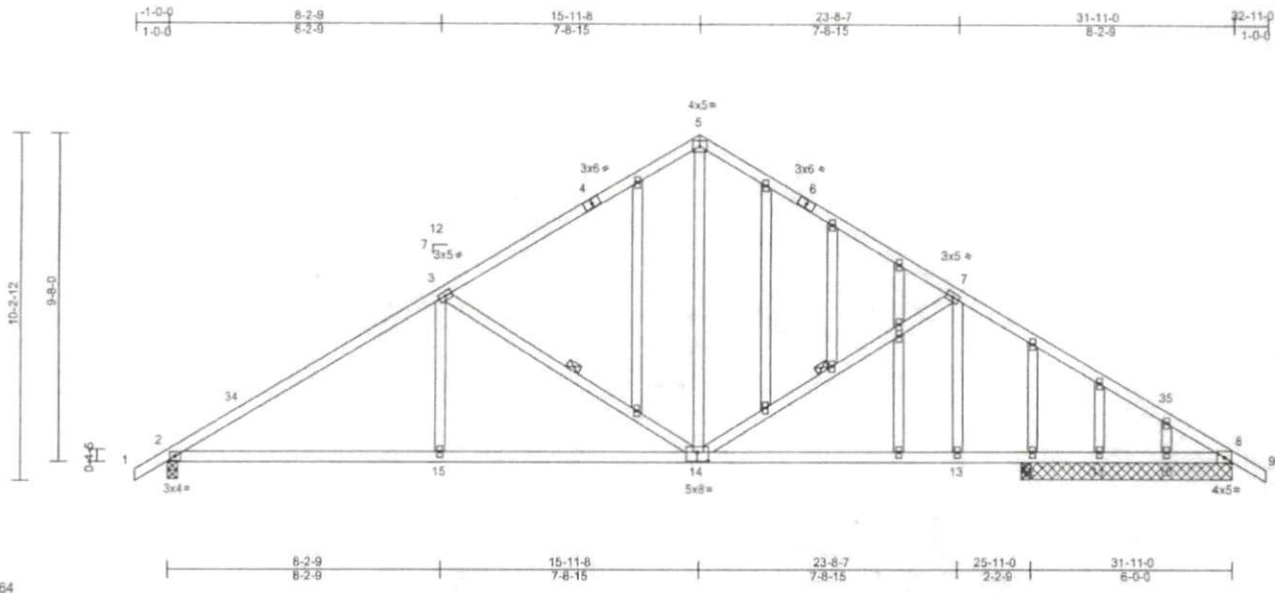


Plate Offsets (X, Y): [14:0-4-0-0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.11	15-30	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.26	15-30	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.07	31	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 204 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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 7-14, 3-14

REACTIONS (lb/size)
 2=1280/0-3-8, 8=941/6-3-8,
 10=326/6-3-8, 11=-194/6-3-8,
 12=320/6-3-8, 31=941/6-3-8
 Max Horiz 2=-177 (LC 9)
 Max Uplift 2=-186 (LC 11), 8=-119 (LC 11),
 10=-115 (LC 11), 11=-194 (LC 1),
 12=-51 (LC 11), 31=-119 (LC 11)
 Max Grav 2=1280 (LC 1), 8=941 (LC 1),
 10=326 (LC 1), 11=87 (LC 11),
 12=320 (LC 1), 31=941 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/30, 2-34=-1968/236, 3-34=-1870/273,
 3-4=-1314/249, 4-5=-1177/269,
 5-6=-1169/268, 6-7=-1306/247,
 7-35=-1509/248, 8-35=-1720/205, 8-9=0/30
 BOT CHORD 2-15=-107/1615, 14-15=-107/1615,
 13-14=-84/1387, 12-13=-84/1387,
 11-12=-84/1387, 10-11=-84/1387,
 8-10=-84/1387
 WEBS 5-14=-99/775, 7-14=-482/170, 7-13=-49/106,
 3-14=-716/198, 3-15=0/191

- Wind: ASCE 7-10; Vult=120mph (3-second gust)
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft;
 B=20ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Exterior (2) -1-0-0 to
 2-2-5, Interior (1) 2-2-5 to 15-11-8, Exterior (2) 15-11-8
 to 19-1-13, Interior (1) 19-1-13 to 32-11-0 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
- 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.
- All bearings are assumed to be SPF No.2 crushing
 capacity of 425 psi.
- Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 186 lb uplift at
 joint 2, 51 lb uplift at joint 12, 194 lb uplift at joint 11, 115
 lb uplift at joint 10, 119 lb uplift at joint 8 and 119 lb uplift
 at joint 8.

LOAD CASE(S) Standard

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



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.

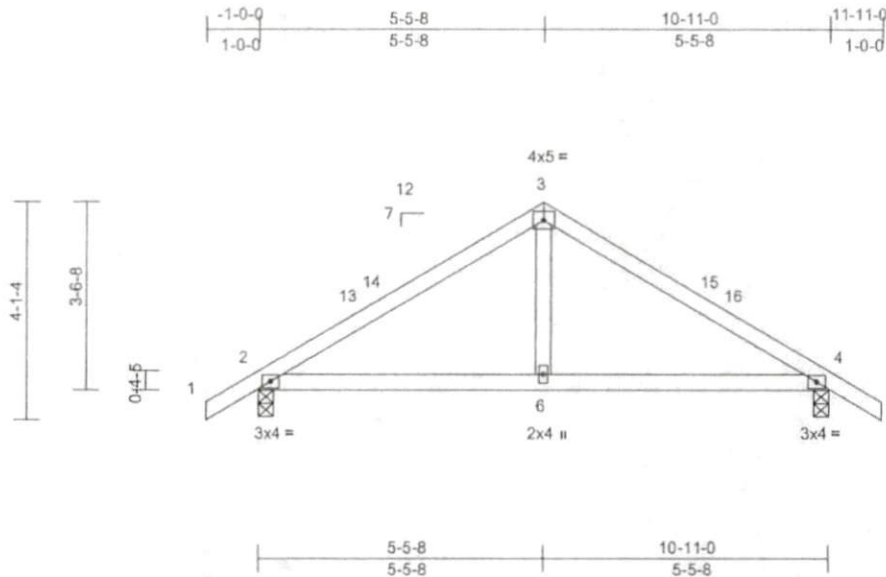
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 818 Soundside Road
 Edenton, NC 27932

Job Q-1900776-1	Truss T7	Truss Type Common	Qty 1	Ply 1	3 Trace Turner-Roof Job Reference (optional)	E13081394
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Peak Truss Builders, LLC, New Hill, NC - 27562

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Page: 1



Scale = 1:40.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.03	6-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	6-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 43 lb	FT = 20%

LUMBER

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 2 and 89 lb uplift at joint 4.

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

(lb/size) 2=497/0-3-8, 4=497/0-3-8
Max Horiz 2=67 (LC 9)
Max Uplift 2=89 (LC 11), 4=89 (LC 11)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-13=-560/59, 13-14=-500/62, 3-14=-488/80, 3-15=-488/80, 15-16=-500/62, 4-16=-560/59, 4-5=0/30
BOT CHORD 2-6=0/422, 4-6=0/422
WEBS 3-6=0/180

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 5-5-8, Exterior (2) 5-5-8 to 8-5-8, Interior (1) 8-5-8 to 11-11-0 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) * 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.



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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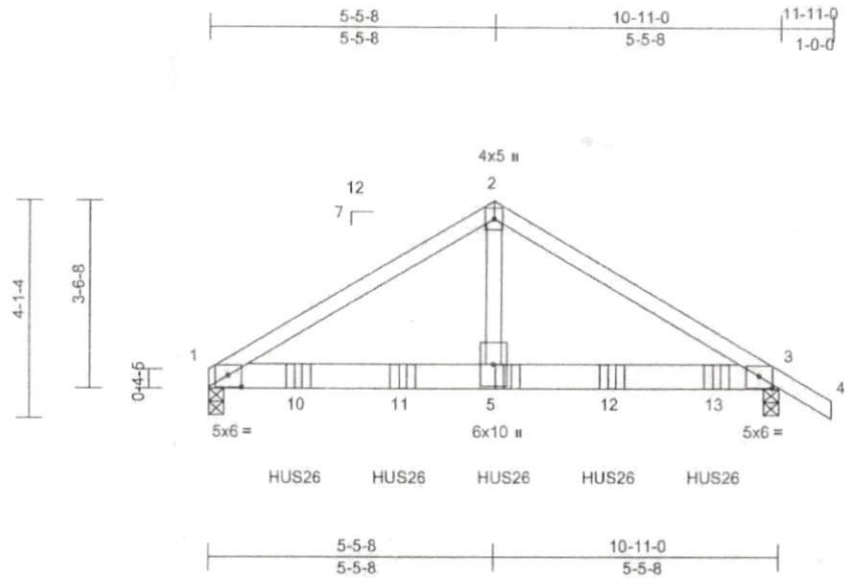
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3 Trace Turner-Roof	E13081395
Q-1900776-1	T7GRD	Common Girder	1	2	Job Reference (optional)	

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

Run: 8.24 E May 13 2019 Print: 8.240 E May 13 2019 MiTek Industries, Inc. Wed May 22 13:58:06
 ID:wBw79X0661qk5TCV02ovIazGe_1FioT0FG6no0oyH96?Xx?_xLSF6RuhYhDm8l2bzDw?

Page: 1



Scale = 1:40.9

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

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)	-0.07	5-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.13	5-7	>981	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								
											Weight: 101 lb	FT = 20%

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

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

REACTIONS (lb/size) 1=3449/0-3-8, 3=3763/0-3-8
 Max Horiz 1=-65 (LC 5)
 Max Uplift 1=-456 (LC 7), 3=-529 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-4898/648, 2-3=-4732/648, 3-4=0/30
 BOT CHORD 1-10=-462/4078, 10-11=-462/4078, 5-11=-462/4078, 12-13=-462/4078, 3-13=-462/4078
 WEBS 2-5=-523/4292

- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 456 lb uplift at joint 1 and 529 lb uplift at joint 3.
- Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-12 from the left end to 9-8-12 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: 1-2=-60, 2-4=-60, 1-3=-20
 Concentrated Loads (lb)
 Vert: 5=-1256 (B), 10=-1256 (B), 11=-1256 (B), 12=-1256 (B), 13=-1256 (B)

- NOTES**
- 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.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-4-0 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M8-7473 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 webs and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

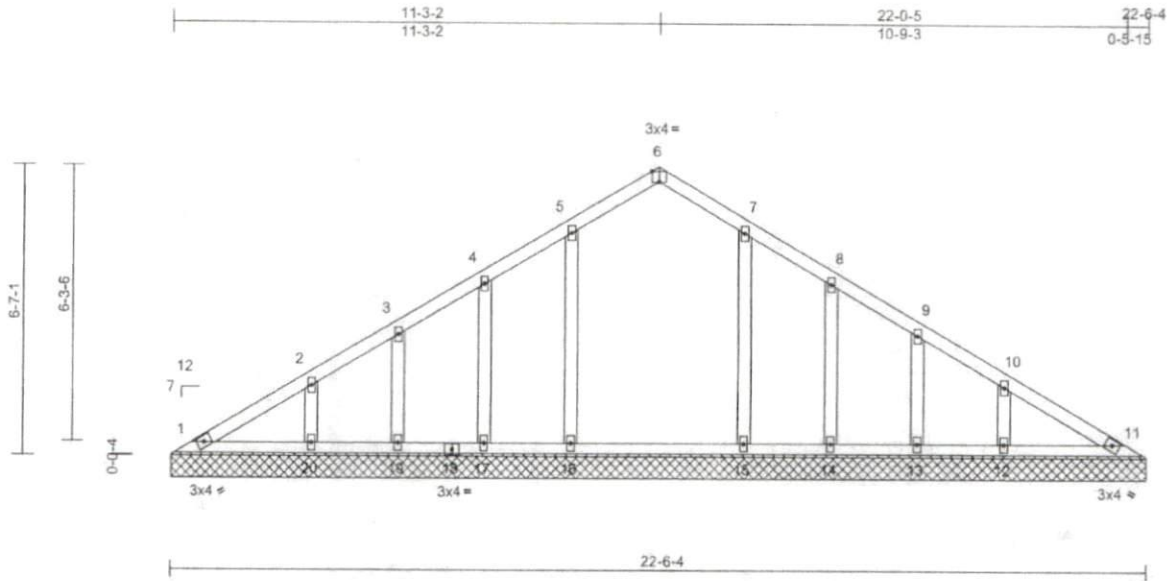
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TRENCO
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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3 Trace Turner-Roof	E13081396
Q-1900776-1	V1	Valley	1	1	Job Reference (optional)	

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

Run: 8.24 E May 13 2019 Print: 8.240 E May 13 2019 Mitek Industries, Inc. Wed May 22 13:58:07
 ID: 04qf7V_vj_2BWTXh4E10zGdtf-juMrDaHkY68fZQkI2ESEXBU6sWPPeKXrSPtr51zDw_

Page: 1



Scale = 1:49.4

Plate Offsets (X, Y): [6:0-2:0,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	0.06	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	0.07	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 108 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

(lb/size) 1=135/22-6-4, 11=135/22-6-4,
 12=228/22-6-4, 13=142/22-6-4,
 14=145/22-6-4, 15=210/22-6-4,
 16=210/22-6-4, 17=145/22-6-4,
 19=142/22-6-4, 20=228/22-6-4
 Max Horiz 1=112 (LC 10)
 Max Uplift 12=62 (LC 11), 13=33 (LC 11),
 14=60 (LC 11), 15=8 (LC 11),
 16=8 (LC 11), 17=60 (LC 11),
 19=33 (LC 11), 20=62 (LC 11)
 Max Grav 1=135 (LC 1), 11=135 (LC 1),
 12=228 (LC 21), 13=147 (LC 17),
 14=147 (LC 21), 15=283 (LC 17),
 16=290 (LC 16), 17=147 (LC 20),
 19=147 (LC 16), 20=228 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-145/73, 2-3=-140/25, 3-4=-126/16,
 4-5=-117/26, 5-6=-128/64, 6-7=-128/64,
 7-8=-117/26, 8-9=-120/6, 9-10=-132/17,
 10-11=-139/73
 BOT CHORD 1-20=-67/138, 19-20=-67/138,
 18-19=-67/138, 17-18=-67/138,
 16-17=-67/138, 15-16=-67/138,
 14-15=-67/138, 13-14=-67/138,
 12-13=-67/138, 11-12=-67/138
 WEBS 5-16=-141/49, 4-17=-117/77, 3-19=-107/58,
 2-20=-166/90, 7-15=-141/49, 8-14=-117/77,
 9-13=-107/58, 10-12=-166/90

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=23ft; eave=2ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Corner (3) 0-6-8 to 3-3-9,
 Exterior (2) 3-3-9 to 11-3-9, Corner (3) 11-3-9 to 14-3-9,
 Exterior (2) 14-3-9 to 22-0-10 zone; cantilever left and
 right exposed; end vertical left and right exposed; C-C
 for members and forces & MWFRS for reactions shown;
 Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss
 only. For studs exposed to wind (normal to the face),
 see Standard Industry Gable End Details as applicable,
 or consult qualified building designer as per ANSI/TPI 1.
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2 crushing
 capacity of 425 psi.
- Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 8 lb uplift at joint
 16, 60 lb uplift at joint 17, 33 lb uplift at joint 19, 62 lb
 uplift at joint 20, 8 lb uplift at joint 15, 60 lb uplift at joint
 14, 33 lb uplift at joint 13 and 62 lb uplift at joint 12.

LOAD CASE(S) Standard



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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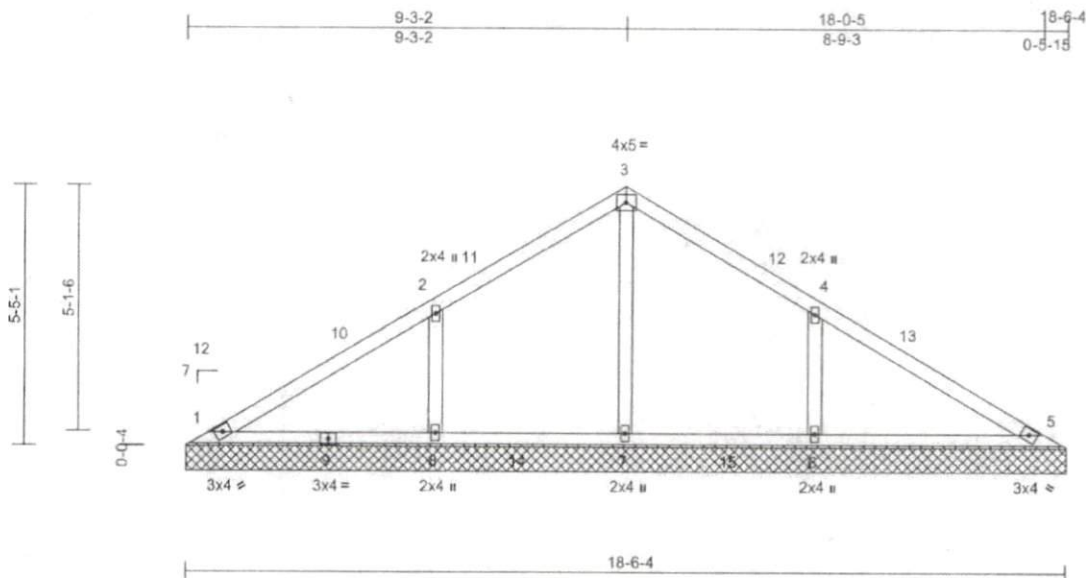
818 Soundside Road
 Edenton, NC 27932

Job Q-1900776-1	Truss V2	Truss Type Valley	Qty 1	Ply 1	3 Trace Turner-Roof Job Reference (optional)	E13081397
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8:24 E May 13 2019 Print: 8:240 E May 13 2019 MiTek Industries, Inc. Wed May 22 13:58:07
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Page: 1



Scale = 1:45

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	0.22	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	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 72 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

(lb/size) 1=167/18-6-4, 5=167/18-6-4,
6=424/18-6-4, 7=219/18-6-4,
8=424/18-6-4
Max Horiz 1=-92 (LC 9)
Max Uplift 1=-7 (LC 11), 5=-7 (LC 11), 6=-116 (LC 11), 8=-116 (LC 11)
Max Grav 1=167 (LC 1), 5=167 (LC 1), 6=434 (LC 17), 7=318 (LC 16), 8=434 (LC 16)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-10=-107/49, 2-10=-57/88, 2-11=-114/85,
3-11=-89/107, 3-12=-89/107, 4-12=-114/85,
4-13=-22/64, 5-13=-81/14
BOT CHORD 1-9=-31/57, 8-9=-31/57, 8-14=-31/57,
7-14=-31/57, 7-15=-31/57, 6-15=-31/57,
5-6=-31/57
WEBS 3-7=-158/0, 2-8=-315/168, 4-6=-315/168

NOTES

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCCL=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) 0-6-8 to 3-6-8, Interior (1) 3-6-8 to 9-3-9, Exterior (2) 9-3-9 to 12-3-9, Interior (1) 12-3-9 to 18-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) * 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.
- 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 7 lb uplift at joint 5, 116 lb uplift at joint 8 and 116 lb uplift at joint 6.

LOAD CASE(S) Standard



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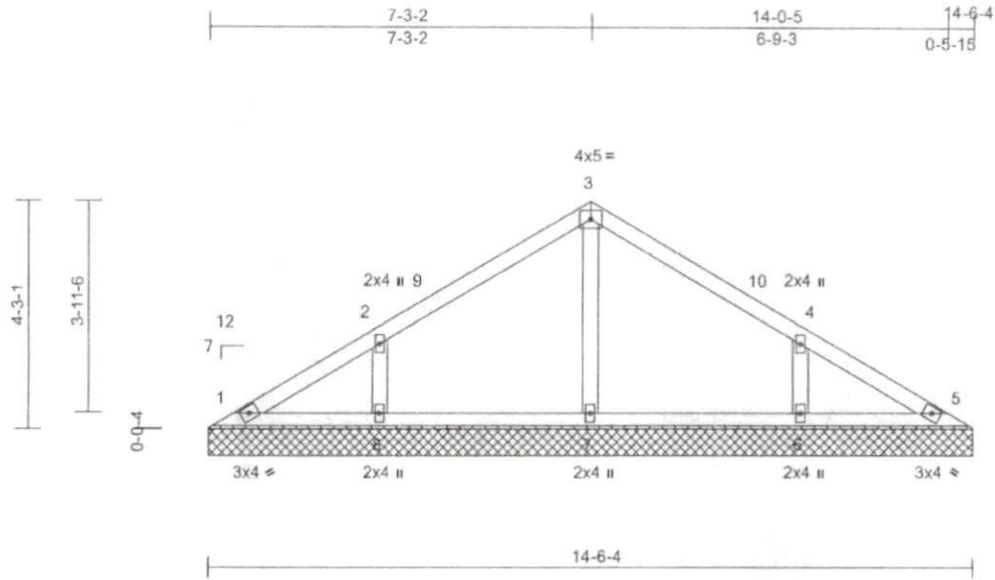
618 Soundside Road
Edenton, NC 27932

Job Q-1900776-1	Truss V3	Truss Type Valley	Qty 1	Ply 1	3 Trace Turner-Roof Job Reference (optional)	E13081398
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.24 E May 13 2019 Print: 8.240 E May 13 2019 Mitek Industries, Inc. Wed May 22 13:58:07
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/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
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	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 54 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 (lb/size)

1=91/14-6-4, 5=91/14-6-4,
6=315/14-6-4, 7=268/14-6-4,
8=315/14-6-4
Max Horiz 1=-71 (LC 9)
Max Uplift 6=-89 (LC 11), 8=-89 (LC 11)
Max Grav 1=93 (LC 17), 5=91 (LC 1), 6=322 (LC 21), 7=268 (LC 1), 8=322 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-84/56, 2-9=-103/58, 3-9=-71/80,
3-10=-71/80, 4-10=-102/58, 4-5=-64/32
BOT CHORD 1-8=-13/44, 7-8=-13/44, 6-7=-13/44,
5-6=-13/44
WEBS 3-7=-185/13, 2-8=-246/131, 4-6=-246/131

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) 0-6-8 to 3-3-9, Interior (1) 3-3-9 to 7-3-9, Exterior (2) 7-3-9 to 10-3-9, Interior (1) 10-3-9 to 14-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.

- 4) * 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.
- 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 8 and 89 lb uplift at joint 6.

LOAD CASE(S) Standard



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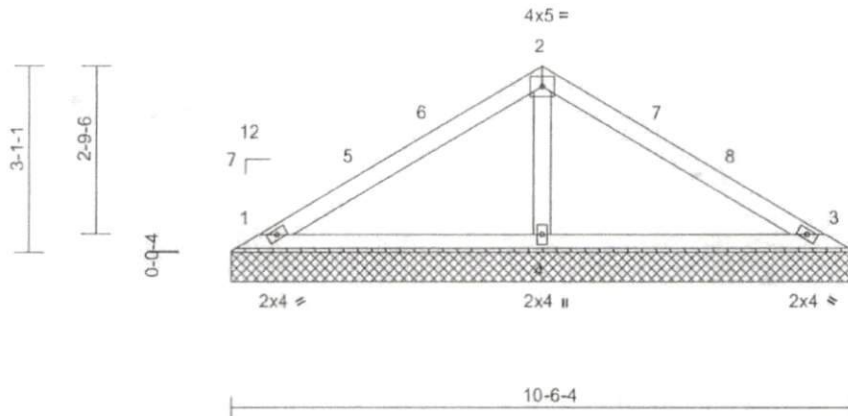
ENGINEERING BY
TRENCO
A Mitek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	3 Trace Turner-Roof	E130B1399
Q-1900776-1	V4	Valley	1	1	Job Reference (optional)	

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

Run: 8.24 E May 13 2019 Print: 8.240 E May 13 2019 MiTek Industries, Inc. Wed May 22 13:58:08
 ID:SGO1K7?X4IA28d6UQobTZDzGdtE-B4wDQwIMJPGWBaJU6yzT3MRGswkNo_g3dOdUzDwz

Page: 1



Scale = 1:36.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 36 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 (lb/size) 1=183/10-6-4, 3=183/10-6-4, 4=395/10-6-4
 Max Horiz 1=50 (LC 10)
 Max Uplift 1=-36 (LC 11), 3=-36 (LC 11), 4=-21 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-118/31, 5-6=-63/34, 2-6=-44/49, 2-7=-44/49, 7-8=-53/34, 3-8=-118/31
 BOT CHORD 1-4=-1/50, 3-4=-1/50
 WEBS 2-4=-255/74

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) 0-6-8 to 3-6-8, Interior (1) 3-6-8 to 5-3-9, Exterior (2) 5-3-9 to 8-3-9, Interior (1) 8-3-9 to 10-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * 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.

- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 36 lb uplift at joint 3 and 21 lb uplift at joint 4.

LOAD CASE(S) Standard



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 ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

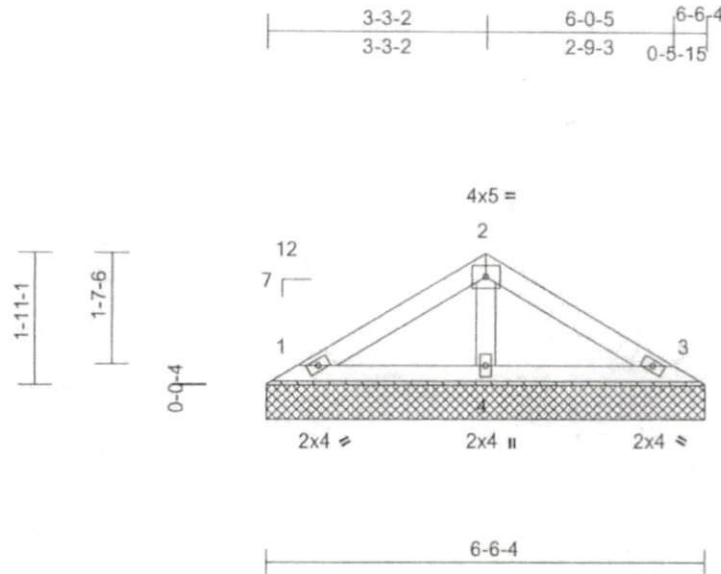
818 Soundside Road
 Edenton, NC 27932

Job Q-1900776-1	Truss V5	Truss Type Valley	Qty 1	Ply 1	3 Trace Turner-Roof	E13081400
					Job Reference (optional)	

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

Run: 8.24 E May 13 2019 Print: 8.240 E May 13 2019 MiTek Industries, Inc. Wed May 22 13:58:08
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Page: 1



Scale = 1:31.8

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	0.10	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

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

(lb/size) 1=117/6-6-4, 3=117/6-6-4,
4=208/6-6-4
Max Horiz 1=29 (LC 10)
Max Uplift 1=28 (LC 11), 3=28 (LC 11)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-60/28, 2-3=-60/28
BOT CHORD 1-4=-2/26, 3-4=-2/26
WEBS 2-4=-139/43

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft;
B=20ft; L=20ft; eava=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
- Gable requires continuous bottom chord bearing.
- * 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1 and 28 lb uplift at joint 3.



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 ANSITPI 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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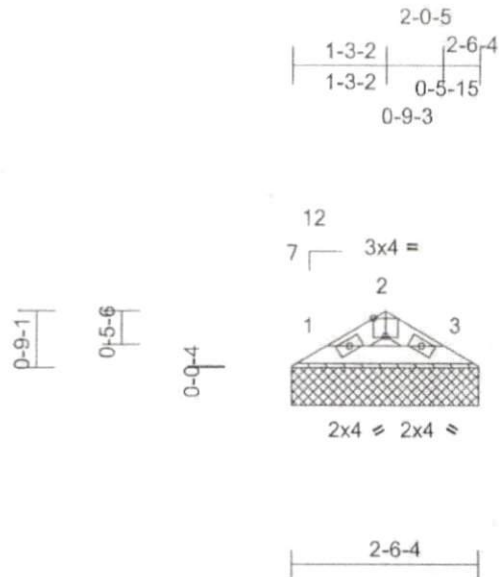
818 Soundside Road
Edenton, NC 27932

Job Q-1900776-1	Truss V6	Truss Type Valley	Qty 1	Ply 1	3 Trace Turner-Roof Job Reference (optional)	E13081401
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Peak Truss Builders, LLC, New Hill, NC - 27562.

Run: 8.24 E May 13 2019 Print: 8.240 E May 13 2019 M/Tek Industries, Inc. Wed May 22 13:58:08
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Page: 1



Scale = 1:28.8

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	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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: 6 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 2-7-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 1=60/2-6-4, 3=60/2-6-4
Max Horiz 1=8 (LC 10)
Max Uplift 1=-7 (LC 11), 3=-7 (LC 11)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-54/20, 2-3=-54/20
BOT CHORD 1-3=-8/39

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) Gable requires continuous bottom chord bearing.
- 4) * 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.
- 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 7 lb uplift at joint 3.

LOAD CASE(S) Standard



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

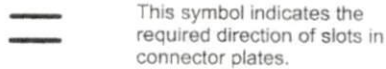
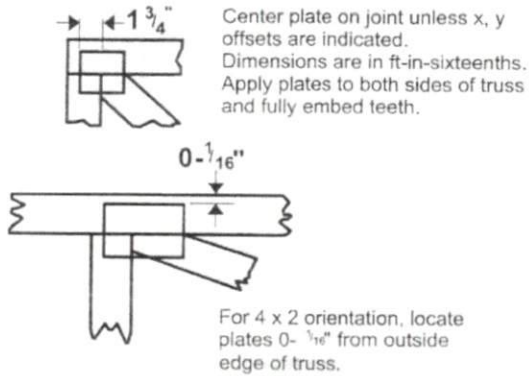
Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A Mitek Affiliate

818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



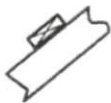
* Plate location details available in MiTek 20/20 software or upon request.

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

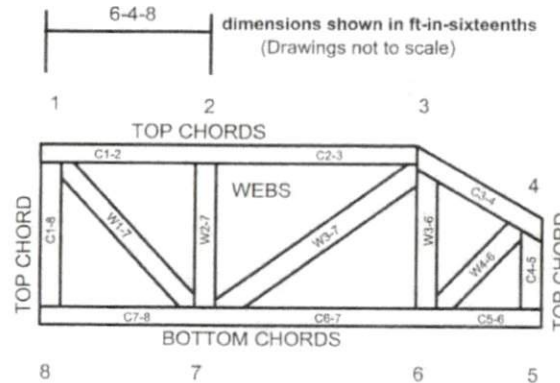


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

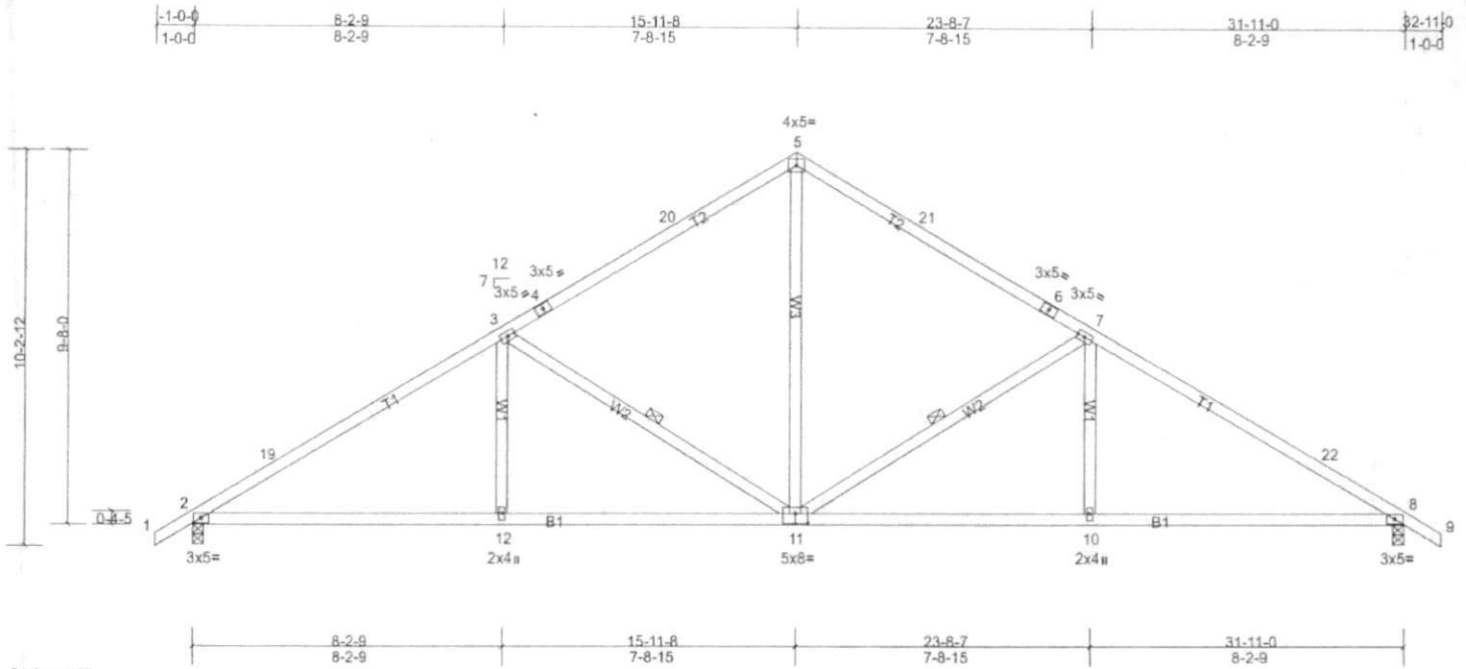
Job Q-2000382-1	Truss T1A	Truss Type Common	Qty 5	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

Run: 8.55 S 8.23 Nov 4 2018 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Tue Feb 11 11:54:03

Page: 1

ID:RsUCH3iZsE6Fe90NtmImSqzGtZC-jb8SSbOExWugkiB9YU1228Nr1bwo3it9iupl9dzmEHK



Scale = 1:57

Plate Offsets (X, Y): [11:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.11	10-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.26	10-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								

Weight: 160 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 3-6-5 oc purfins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-11, 3-11

REACTIONS (lb/size) 2=1337/0-3-8, (min. 0-2-2), 8=1337/0-3-8, (min. 0-2-2)
Max Horiz 2=-177 (LC 9)
Max Uplift 2=-192 (LC 11), 8=-192 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-2083/248, 3-19=-1984/284, 3-4=-1417/238, 4-20=-1285/259, 5-20=-1279/280, 5-21=-1279/280, 6-21=-1285/259,
6-7=-1417/238, 7-22=-1984/284, 8-22=-2083/248
BOT CHORD 2-12=-118/1714, 11-12=-118/1714, 10-11=-118/1714, 8-10=-118/1714
WEBS 5-11=-112/889, 7-11=-723/198, 3-11=-723/198

- 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=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 1-0-0 to 2-2-5, Interior (1) 2-2-5 to 15-11-8, Exterior (2) 15-11-8 to 19-1-13, Interior (1) 19-1-13 to 32-11-0 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 192 lb uplift at joint 2 and 192 lb uplift at joint 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

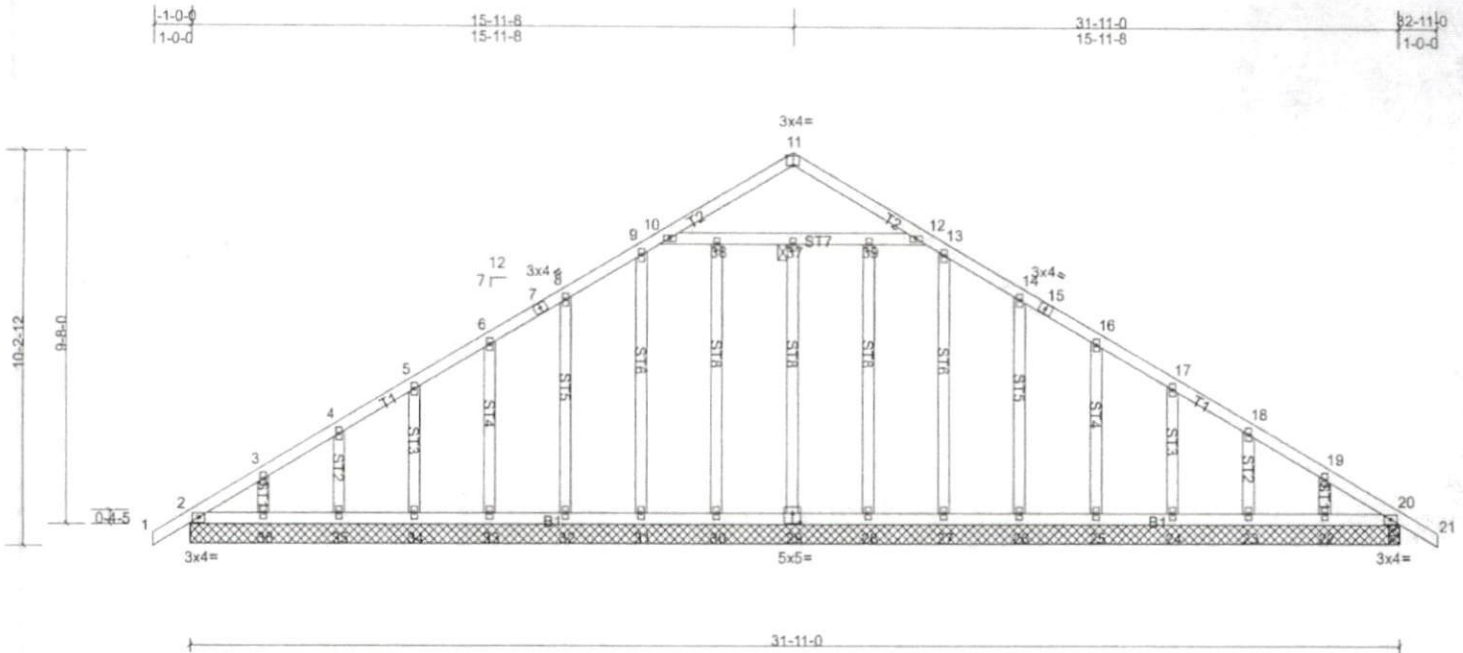
Job Q-2000382-1	Truss T1GE	Truss Type Common	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

Run: 8.55 S 8.23 Nov 4 2018 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Tue Feb 11 11:54:04

Page: 1

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Scale = 1:57.1

Plate Offsets (X, Y): [11:0-2-0,Edge], [29:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	0.00	20-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	0.00	2-36	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	0.01	20	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							
										Weight: 217 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD
 JOINTS

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

1 Brace at Jt(s): 37

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

REACTIONS All bearings 31-11-0, except 20=0-3-8

(lb) - Max Horiz 2=177 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 20, 22, 23, 24, 25, 26, 32, 33, 34, 35, 36

Max Grav All reactions 250 (lb) or less at joint(s) 2, 20, 22, 23, 24, 25, 26, 28, 29, 30, 32, 33, 34, 35, 36 except 27=296 (LC 1), 31=302 (LC 16)

FORCES

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

TOP CHORD 9-10=-251/197, 10-11=-277/85, 11-12=-277/85, 12-13=-251/197

WEBS 9-31=-261/22, 13-27=-255/22

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=32ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 1-0-0 to 1-11-8, Exterior (2) 1-11-8 to 15-11-8, Corner (3) 15-11-8 to 19-1-13, Exterior (2) 19-1-13 to 32-11-0 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
- 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.
- Vertical gable studs spaced at 2-0-0 oc and horizontal 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(s) 2, 32, 33, 34, 35, 36, 26, 25, 24, 23, 22, 20.
- 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

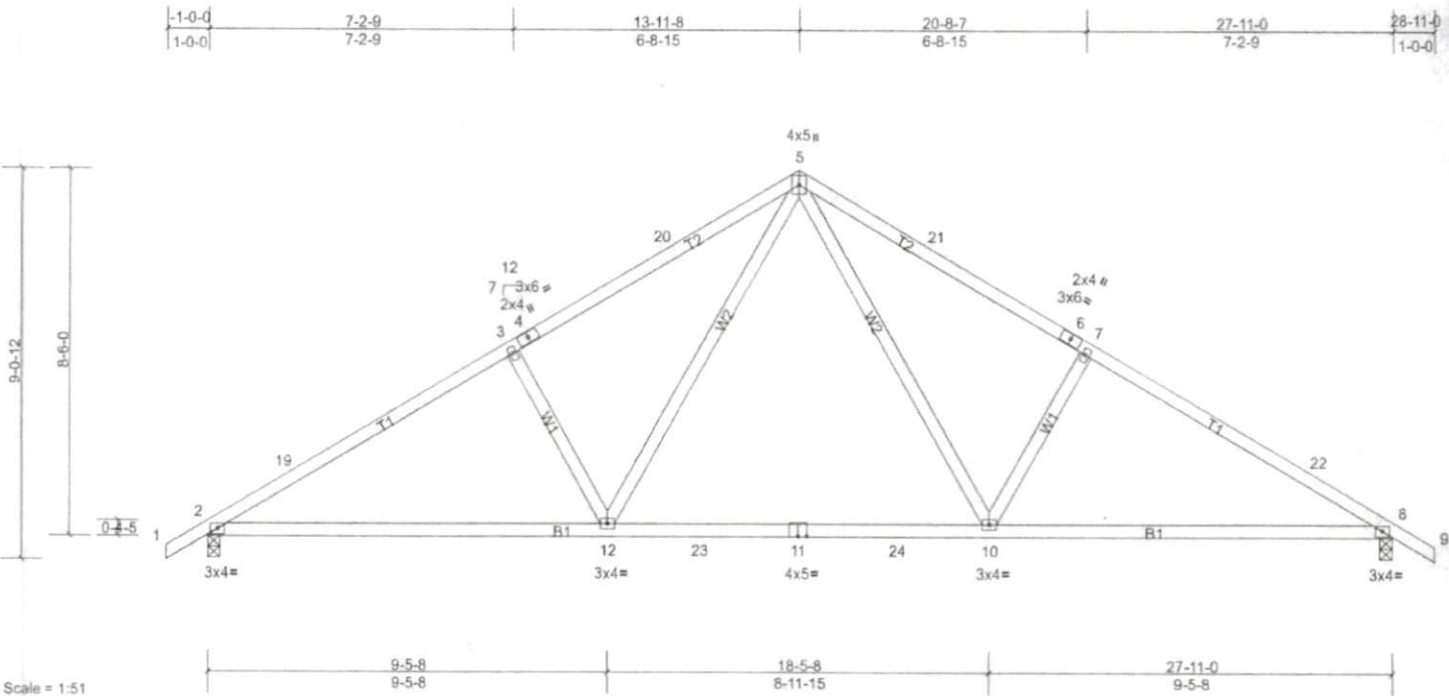
Job Q-2000382-1	Truss T2	Truss Type Common	Qty 6	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

Run: 8.23 S Nov 4 2018 Print: 8.310 S Sep 9 2018 MiTek Industries, Inc. Tue Feb 11 11:54:04

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	0.51	Vert(LL)	-0.28 10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.37 10-12	>910	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.05 8	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 134 lb FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 4-2-4 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 2=1177/0-3-8, (min. 0-1-14), 8=1177/0-3-8, (min. 0-1-14)
 Max Horiz 2=156 (LC 10)
 Max Uplift 2=-173 (LC 11), 8=-173 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-19=-1754/224, 3-19=-1696/260, 3-4=-1583/265, 4-20=-1570/288, 5-20=-1472/306, 5-21=-1472/306, 6-21=-1570/288, 6-7=-1583/265, 7-22=-1696/260, 8-22=-1754/224
 BOT CHORD 2-12=-108/1537, 12-23=0/991, 11-23=0/991, 11-24=0/991, 10-24=0/991, 8-10=-108/1465
 WEBS 5-10=-89/729, 7-10=-421/211, 5-12=-89/729, 3-12=-421/211

- 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=28ft; 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 13-11-8, Exterior (2) 13-11-8 to 16-11-8, Interior (1) 16-11-8 to 28-11-0 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 2 and 173 lb uplift at joint 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

Job Q-2000382-1	Truss T2GE	Truss Type Common Supported Gable	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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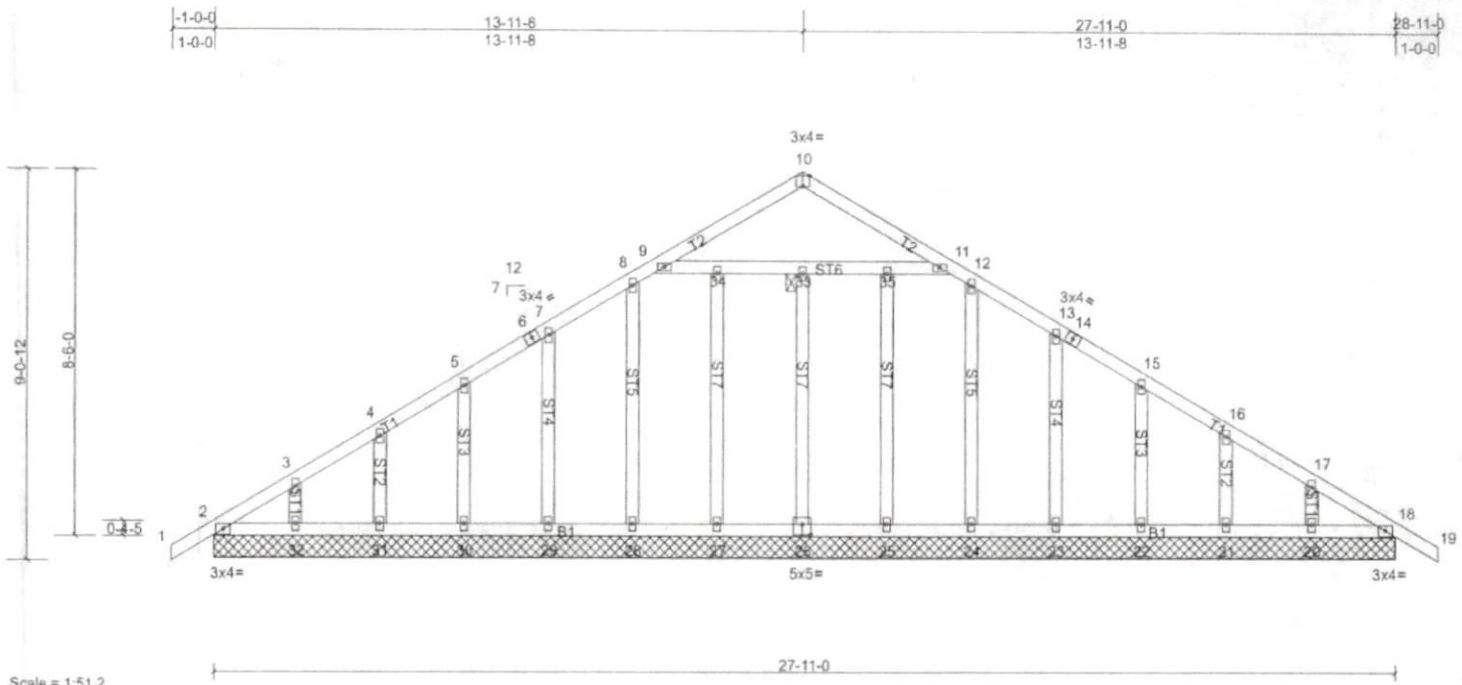


Plate Offsets (X, Y): [10:0-2-0,Edge], [26:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	0.13	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
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S								
											Weight: 179 lb	FT = 20%

LUMBER

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

REACTIONS All bearings 27-11-0.

(lb) - Max Horiz 2=156 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 18, 20, 21, 22, 23, 24, 28, 29, 30, 31, 32
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 18, 20, 21, 22, 23, 25, 26, 27, 29, 30, 31, 32 except 24=292 (LC 1), 28=297 (LC 16)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 9-10=-276/86, 10-11=-276/86
 WEBS 8-28=-257/35, 12-24=-251/35

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=28ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 1-11-8, Exterior (2) 1-11-8 to 13-11-8, Corner (3) 13-11-8 to 16-11-8, Exterior (2) 16-11-8 to 28-11-0 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
- 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.
- Vertical gable studs spaced at 2-0-0 oc and horizontal 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(s) 2, 18, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20.
- 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
 BOT CHORD
 JOINTS

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 1 Brace at Jt(s): 33

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

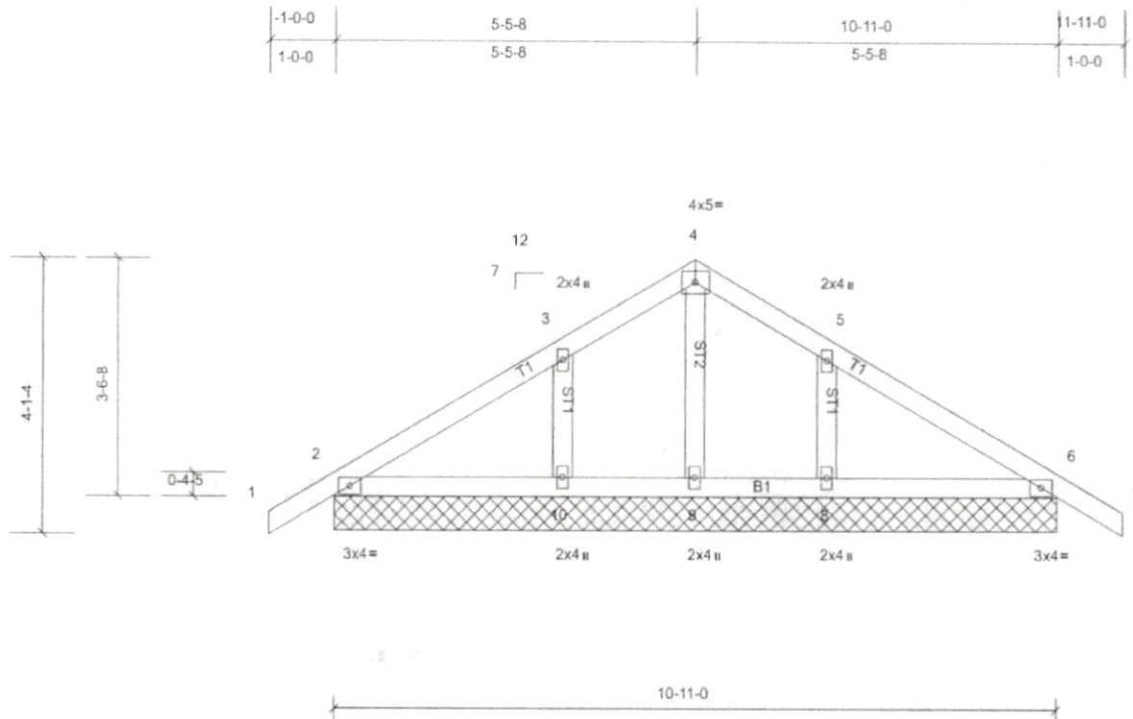
Job Q-2000382-1	Truss T4GE	Truss Type Common Supported Gable	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:32.8

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 49 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

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

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

REACTIONS

All bearings 10-11-0.
 (lb) - Max Horiz 2=-67 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 8, 10
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 9 except 8=273 (LC 21), 10=273 (LC 20)

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=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 5-5-8, Corner (3) 5-5-8 to 8-5-8, Exterior (2) 8-5-8 to 11-11-0 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
- 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 100 lb uplift at joint(s) 2, 6, 10, 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

Job Q-2000382-1	Truss T6	Truss Type Common	Qty 4	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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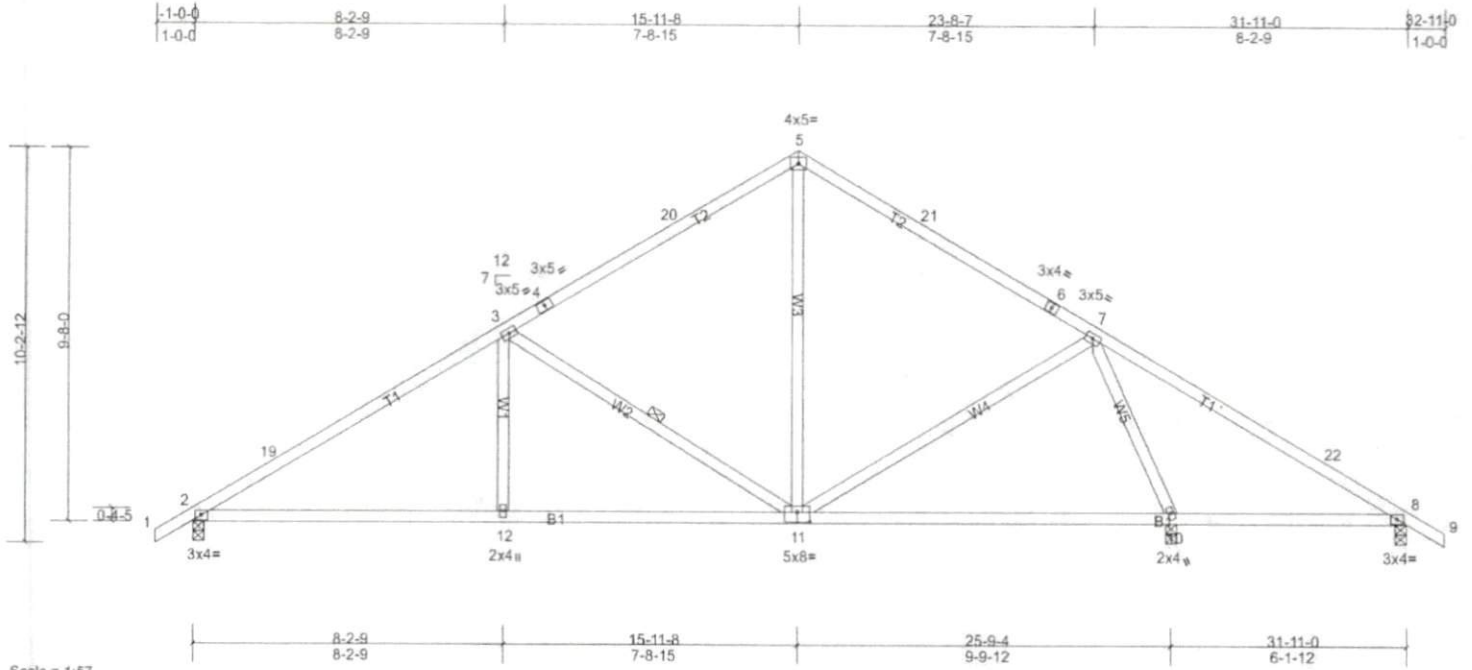


Plate Offsets (X, Y): [11:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.10	12-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.24	12-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								

Weight: 160 lb FT = 20%

LUMBER

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

REACTIONS (lb/size) 2=1062/0-3-8, (min. 0-1-11), 8=169/0-3-8, (min. 0-1-8),
 10=1443/0-3-8, (min. 0-2-4)
 Max Horiz 2=-177 (LC 9)
 Max Uplift 2=-166 (LC 11), 8=-79 (LC 11), 10=-140 (LC 11)
 Max Grav 2=1062 (LC 1), 8=226 (LC 21), 10=1443 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-19=-1542/198, 3-19=-1445/234, 3-4=-879/182, 4-20=-747/203, 5-20=-742/224, 5-21=-741/224, 6-21=-747/204,
 6-7=-879/182, 7-22=0/356
 BOT CHORD 2-12=-74/1248, 11-12=-74/1248, 10-11=-5/339
 WEBS 3-11=-720/205, 5-11=-56/396, 7-11=0/423, 7-10=-1318/240

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=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-2-5, Interior (1) 2-2-5 to 15-11-8, Exterior (2) 15-11-8 to 19-1-13, Interior (1) 19-1-13 to 32-11-0 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 166 lb uplift at joint 2, 140 lb uplift at joint 10 and 79 lb uplift at joint 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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 6-0-0 oc bracing: 8-10.

WEBS

1 Row at midpt 3-11
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

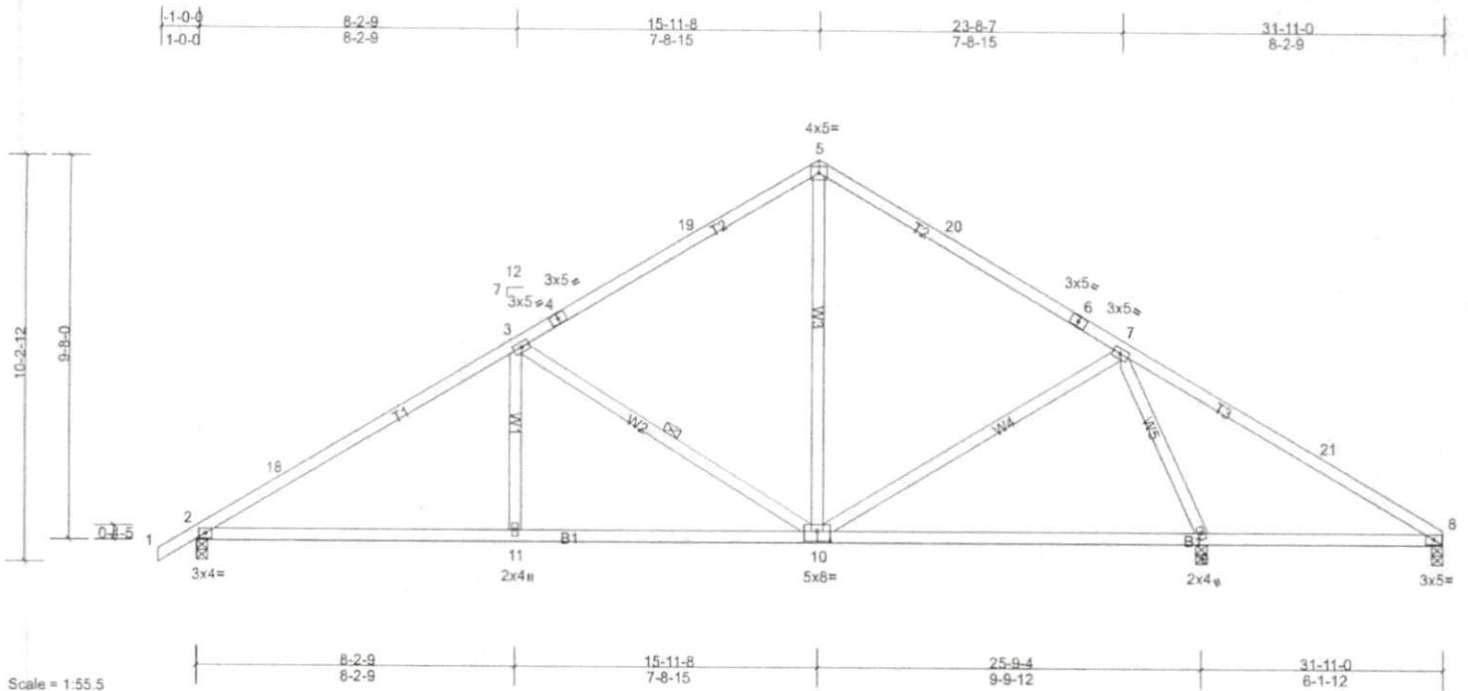
Job Q-2000382-1	Truss T6A	Truss Type Common	Qty 6	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:55.5

Plate Offsets (X, Y): [10:0-4-0,0-3-0]

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.65	Vert(LL)	0.10	11-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.24	11-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								

Weight: 159 lb FT = 20%

LUMBER

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

REACTIONS (lb/size) 2=1062/0-3-8, (min. 0-1-11), 8=106/0-3-8, (min. 0-1-8),
9=1445/0-3-8, (min. 0-2-4)
Max Horiz 2=175 (LC 10)
Max Uplift 2=-164 (LC 11), 8=-34 (LC 11), 9=-151 (LC 11)
Max Grav 2=1062 (LC 1), 8=163 (LC 21), 9=1445 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-1543/195, 3-18=-1446/232, 3-4=-880/179, 4-19=-747/200, 5-19=-742/221, 5-20=-742/221, 6-20=-747/201,
6-7=-880/179, 7-21=0/352
BOT CHORD 2-11=-99/1249, 10-11=-99/1249, 9-10=-26/343
WEBS 3-10=-720/205, 5-10=-53/395, 7-10=0/422, 7-9=-1316/249

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=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-2-5, Interior (1) 2-2-5 to 15-11-8, Exterior (2) 15-11-8 to 19-1-13, Interior (1) 19-1-13 to 31-11-0 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 164 lb uplift at joint 2, 151 lb uplift at joint 9 and 34 lb uplift at joint 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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing; 8-9.

WEBS 1 Row at midpt 3-10

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

Job Q-2000382-1	Truss T6B	Truss Type Common	Qty 5	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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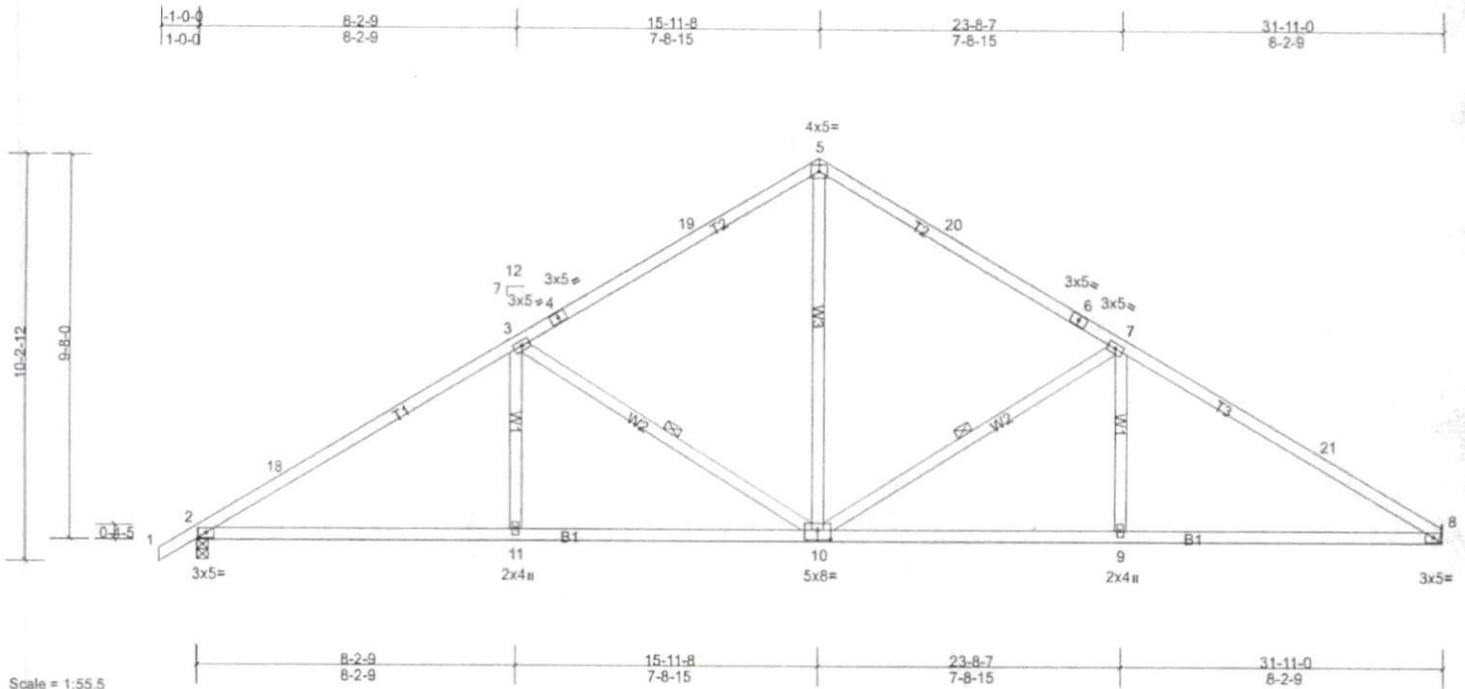


Plate Offsets (X, Y): [6:0-0-0,0-0-0], [10:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	0.12	9-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.27	9-17	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.07	8	n/a	n/a	
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							
											Weight: 158 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 3-4-13 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
1 Row at midpt 7-10, 3-10

REACTIONS (lb/size) 2=1338/0-3-8, (min. 0-2-2), 8=1276/ Mechanical, (min. 0-1-8)
Max Horiz 2=175 (LC 10)
Max Uplift 2=-193 (LC 11), 8=-156 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-2085/250, 3-18=-1986/286, 3-4=-1419/239, 4-19=-1287/261, 5-19=-1281/282, 5-20=-1281/282, 6-20=-1287/261,
6-7=-1419/240, 7-21=-1991/289, 8-21=-2089/259
BOT CHORD 2-11=-146/1715, 10-11=-146/1715, 9-10=-150/1720, 8-9=-150/1720
WEBS 5-10=-113/891, 7-10=-729/203, 3-10=-723/199

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=32ft; eave=4ft; Cat. II; Exp.B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-2-5, Interior (1) 2-2-5 to 15-11-8, Exterior (2) 15-11-8 to 19-1-13, Interior (1) 19-1-13 to 31-11-0 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2 and 156 lb uplift at joint 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

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

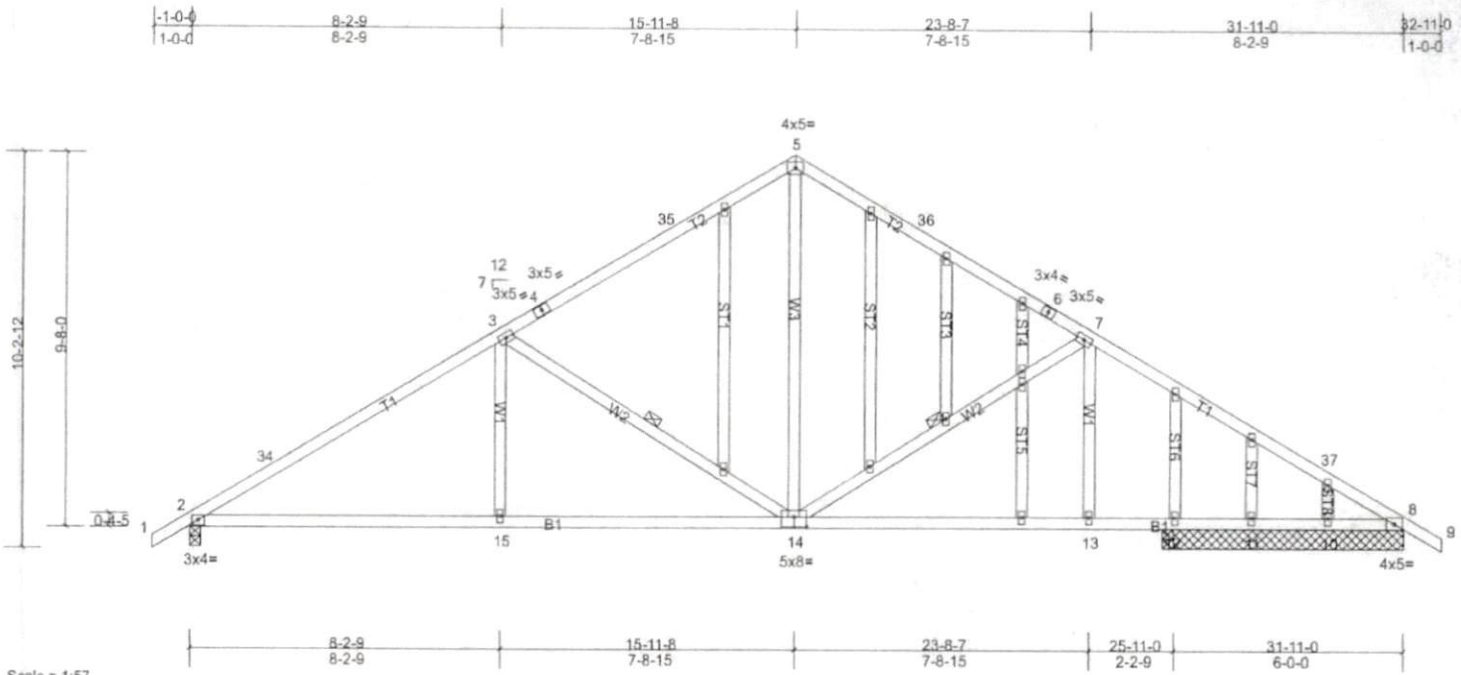
Job Q-2000382-1	Truss T6SE	Truss Type Common Structural Gable	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:57

Plate Offsets (X, Y): [14:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	0.11 15-30	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.26 15-30	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.07 31	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							
											Weight: 204 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

BRACING

TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 3-7-13 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 1 Row at midpt 7-14, 3-14

REACTIONS All bearings 6-3-8, except 2=0-3-8

(lb) - Max Horiz 2=177 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 12 except 10=115 (LC 11),
 11=195 (LC 1), 2=187 (LC 11), 8=120 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 11 except 10=326 (LC
 1), 12=322 (LC 1), 2=1280 (LC 1), 8=941 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-34=-1968/236, 3-34=-1870/273, 3-4=-1311/227, 4-35=-1179/248, 5-35=-1173/269, 5-36=-1170/269, 6-36=-1179/248,
 6-7=-1308/226, 7-37=-1508/248, 8-37=-1719/206
 BOT CHORD 2-15=-107/1615, 14-15=-107/1615, 13-14=-84/1386, 12-13=-84/1386, 11-12=-84/1386, 10-11=-84/1386, 8-10=-84/1386
 WEBS 5-14=-99/775, 7-14=-479/170, 3-14=-717/198

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf, BCDL=6.0psf; h=30ft; B=20ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-2-5, Interior (1) 2-2-5 to 15-11-8, Exterior (2) 15-11-8 to 19-1-13, Interior (1) 19-1-13 to 32-11-0 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
- 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 100 lb uplift at joint(s) 2=186, 11=194, 10=115, 8=120, 8=120.
- 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

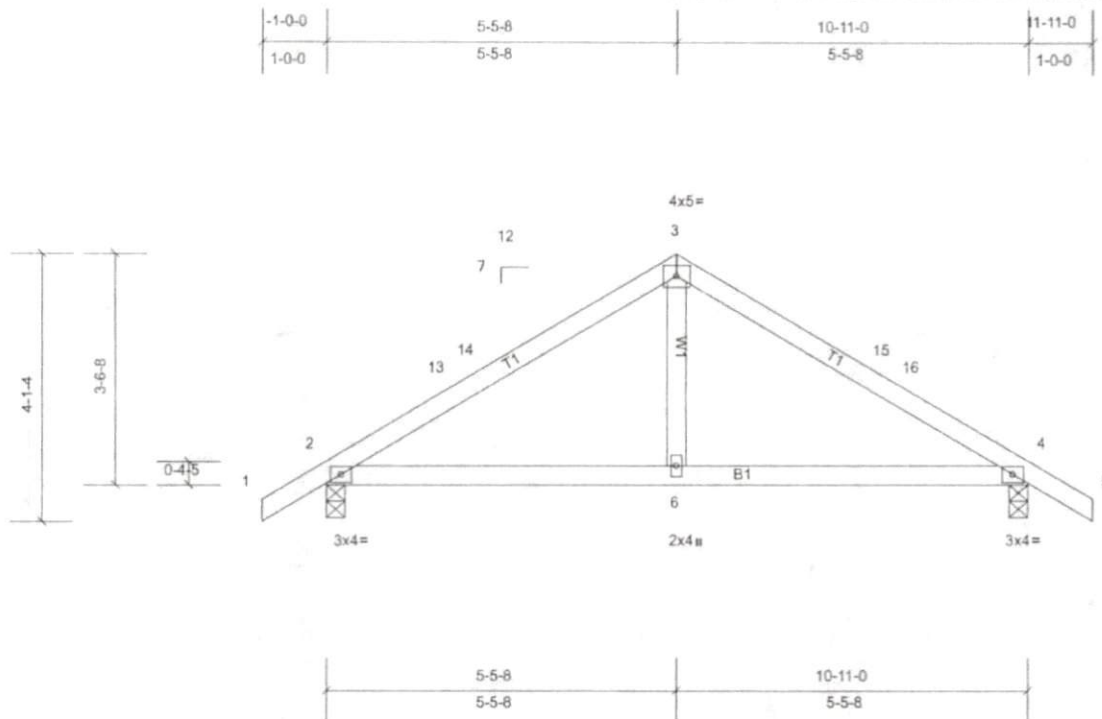
Job Q-2000382-1	Truss T7	Truss Type Common	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:33.7

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	0.26	Vert(LL)	-0.03	6-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	6-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 43 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

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

REACTIONS (lb/size) 2=497/0-3-8, (min. 0-1-8), 4=497/0-3-8, (min. 0-1-8)
Max Horiz 2=-67 (LC 9)
Max Uplift 2=-89 (LC 11), 4=-89 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-560/59, 13-14=-500/62, 3-14=-488/80, 3-15=-488/80, 15-16=-500/62, 4-16=-560/59
BOT CHORD 2-6=0/422, 4-6=0/422

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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 5-5-8, Exterior (2) 5-5-8 to 8-5-8, Interior (1) 8-5-8 to 11-11-0 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 89 lb uplift at joint 2 and 89 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

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

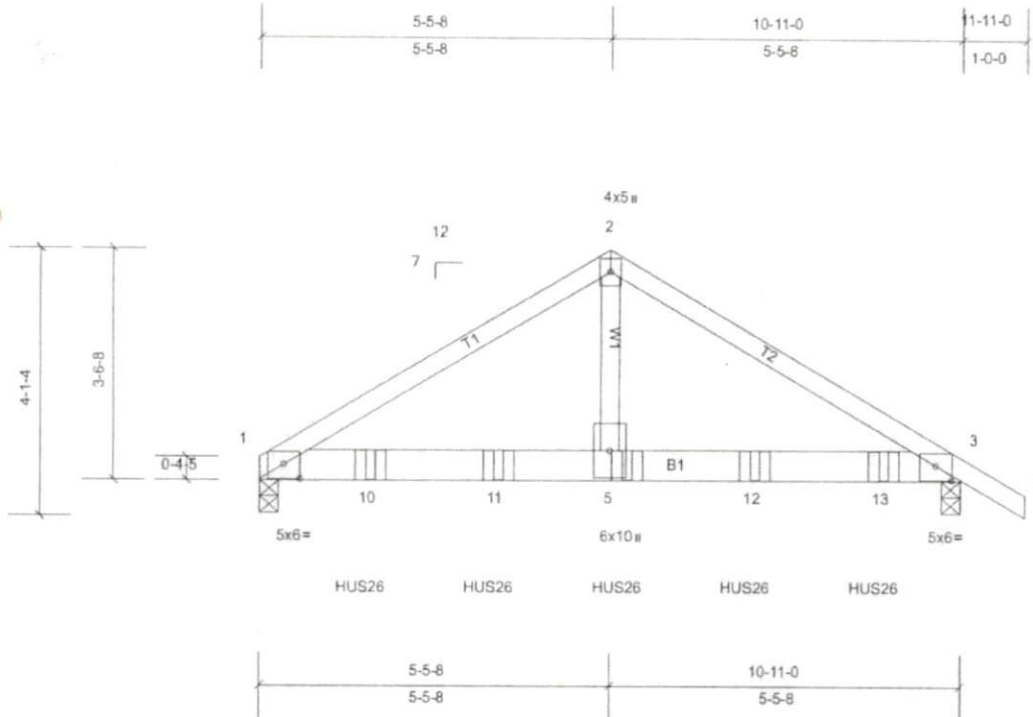
Job Q-2000382-1	Truss T7GRD	Truss Type Common Girder	Qty 1	Ply 2	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:33.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	-0.07	5-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.13	5-7	>981	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							
											Weight: 101 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS (lb/size) 1=3449/0-3-8, (min. 0-2-11), 3=3763/0-3-8, (min. 0-2-15)

Max Horiz 1=-65 (LC 5)

Max Uplift 1=-456 (LC 7), 3=-529 (LC 7)

FORCES

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

TOP CHORD 1-2=-4898/648, 2-3=-4732/648

BOT CHORD 1-10=-462/4078, 10-11=-462/4078, 5-11=-462/4078, 5-12=-462/4078, 12-13=-462/4078, 3-13=-462/4078

WEBS 2-5=-523/4292

NOTES

- 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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Web connected as follows: 2x4 - 1 row at 0-4-0 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; TC DL=6.0psf, BC DL=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 456 lb uplift at joint 1 and 529 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.
- Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-12 from the left end to 9-8-12 to connect truss (es) T6B (1 ply 2x4 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S)

1) Dead + Roof Live (balanced); Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-4=-60, 1-3=-20

Concentrated Loads (lb)

Vert: 5=-1256 (B), 10=-1256 (B), 11=-1256 (B), 12=-1256 (B), 13=-1256 (B)

Job Q-2000382-1	Truss V1	Truss Type Valley	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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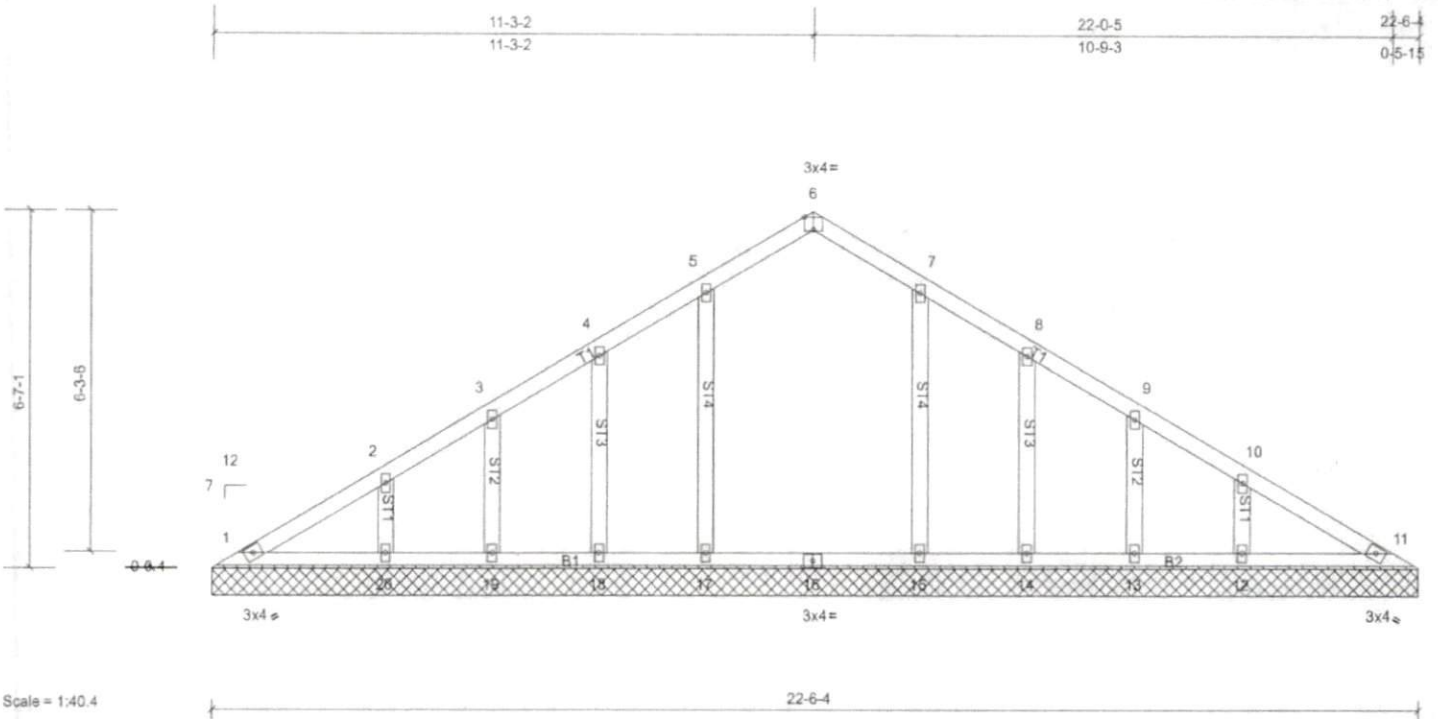


Plate Offsets (X, Y): [6:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	0.06	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
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	0.07	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S								

Weight: 108 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

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

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

REACTIONS

All bearings 22-6-4.
(lb) - Max Horiz 1=112 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 12, 13, 14, 15, 17, 18, 19, 20
Max Grav All reactions 250 (lb) or less at joint(s) 1, 11, 12, 13, 14, 18, 19, 20 except 15=284 (LC 17), 17=290 (LC 16)

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=23ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-6-8 to 3-3-9, Exterior (2) 3-3-9 to 11-3-9, Corner (3) 11-3-9 to 14-3-9, Exterior (2) 14-3-9 to 22-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 18, 19, 20, 15, 14, 13, 12.
- 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

Job Q-2000382-1	Truss V2	Truss Type Valley	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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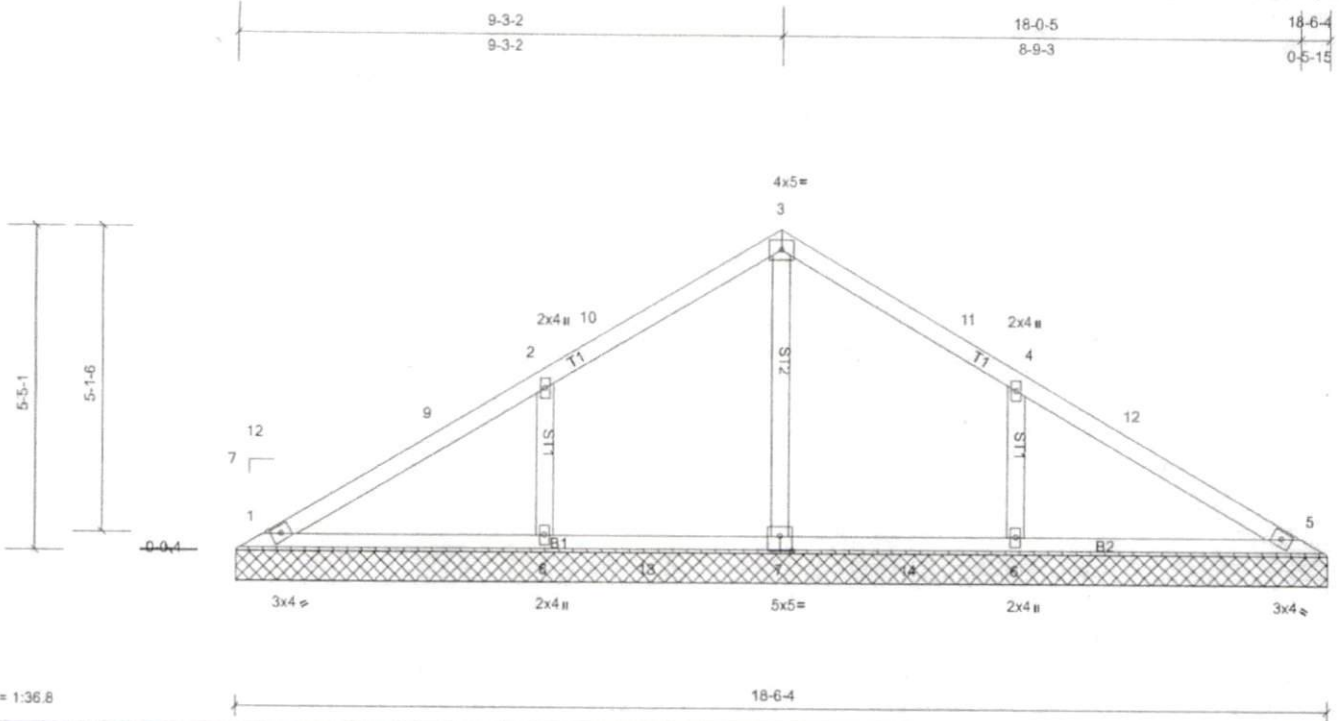


Plate Offsets (X, Y): [7-0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	TC	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	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	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 72 lb	FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

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

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

REACTIONS All bearings 18-6-4.
 (lb) - Max Horiz 1=-92 (LC 9)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-116 (LC 11), 8=-116 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=435 (LC 17), 7=318 (LC 16), 8=435 (LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-315/168, 4-6=-315/168

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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) 0-6-8 to 3-6-8, Interior (1) 3-6-8 to 9-3-9, Exterior (2) 9-3-9 to 12-3-9, Interior (1) 12-3-9 to 18-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - * 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 100 lb uplift at joint(s) 1, 5 except (if=lb) 8=116, 6=116.
 - 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

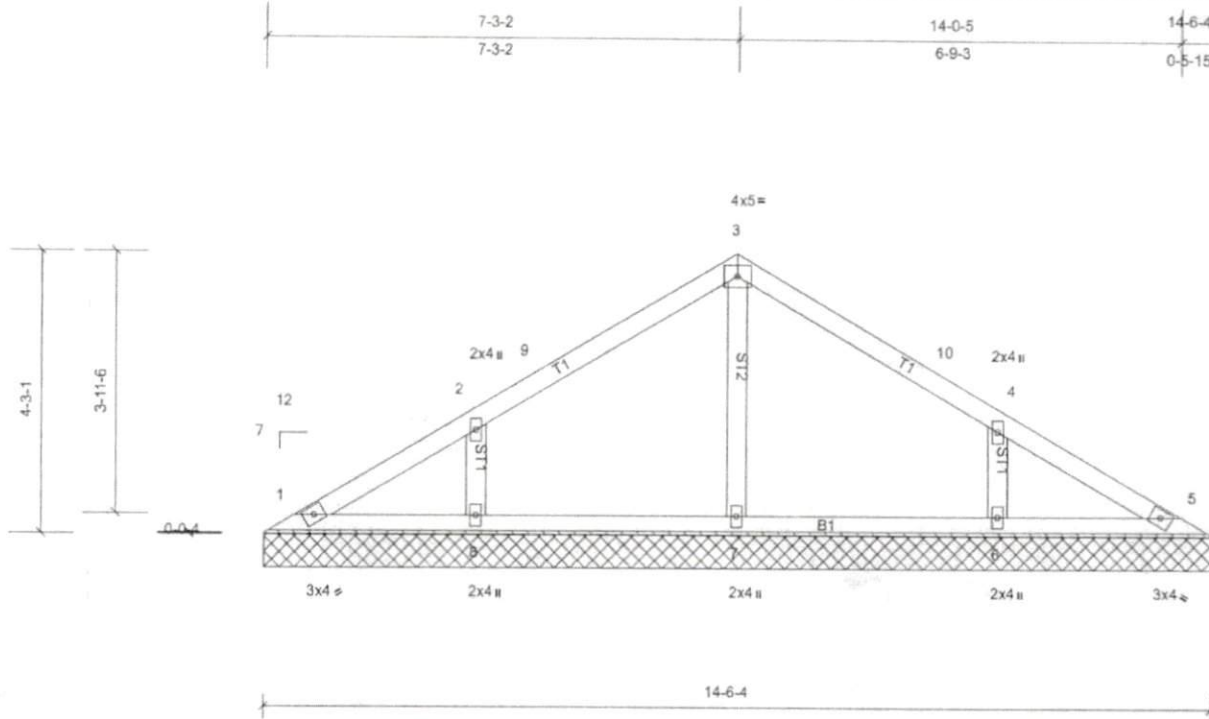
Job Q-2000382-1	Truss V3	Truss Type Valley	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Scale = 1:33.2

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	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	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

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

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

REACTIONS

All bearings 14-6-4.
(lb) - Max Horiz 1=-71 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 6, 8
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=322 (LC 21), 7=268 (LC 1), 8=322 (LC 20)

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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) 0-6-8 to 3-3-9, Interior (1) 3-3-9 to 7-3-9, Exterior (2) 7-3-9 to 10-3-9, Interior (1) 10-3-9 to 14-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * 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(s) 8, 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

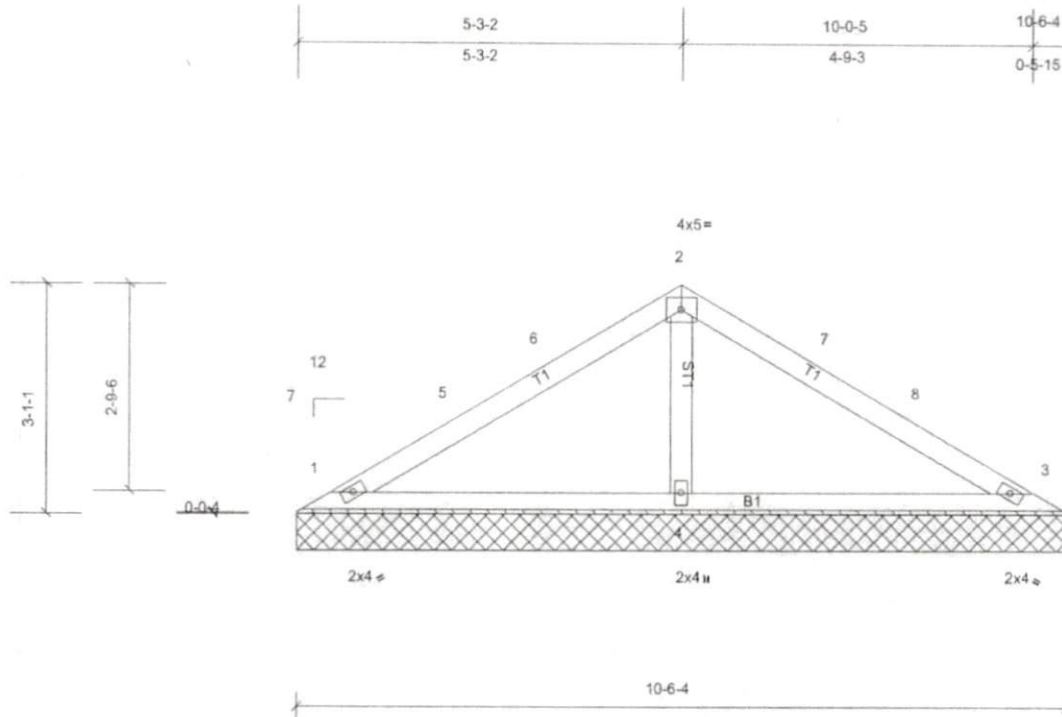
Job Q-2000382-1	Truss V4	Truss Type Valley	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:29.7

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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 36 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

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

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

REACTIONS (lb/size) 1=183/10-6-4, (min. 0-1-8), 3=183/10-6-4, (min. 0-1-8),
4=395/10-6-4, (min. 0-1-8)

Max Horiz 1=50 (LC 10)

Max Uplift 1=-36 (LC 11), 3=-36 (LC 11), 4=-21 (LC 11)

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

WEBS 2-4=-255/74

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-6-8 to 3-6-8, Interior (1) 3-6-8 to 5-3-9, Exterior (2) 5-3-9 to 8-3-9, Interior (1) 8-3-9 to 10-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- * 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 36 lb uplift at joint 1, 36 lb uplift at joint 3 and 21 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

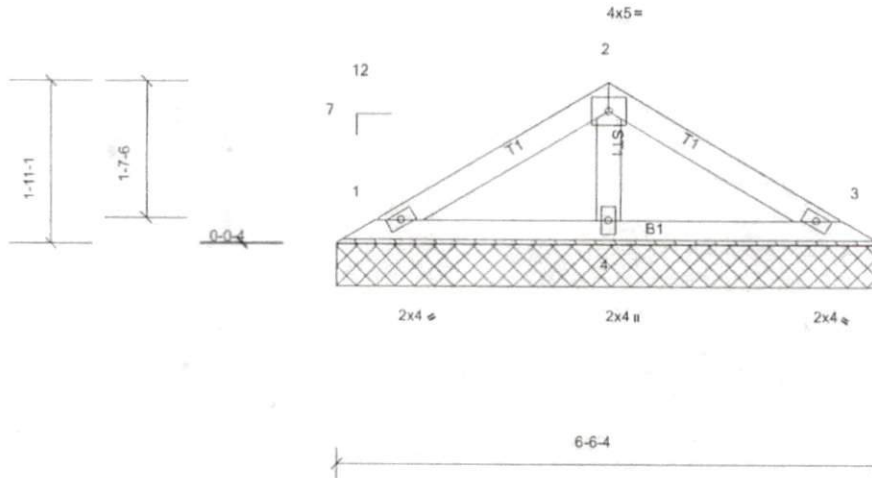
Job Q-2000382-1	Truss V5	Truss Type Valley	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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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	0.10	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 (lb/size) 1=117/6-6-4, (min. 0-1-8), 3=117/6-6-4, (min. 0-1-8),
 4=208/6-6-4, (min. 0-1-8)
 Max Horiz 1=29 (LC 10)
 Max Uplift 1=-28 (LC 11), 3=-28 (LC 11)

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

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=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
 - Gable requires continuous bottom chord bearing.
 - * 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 28 lb uplift at joint 1 and 28 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

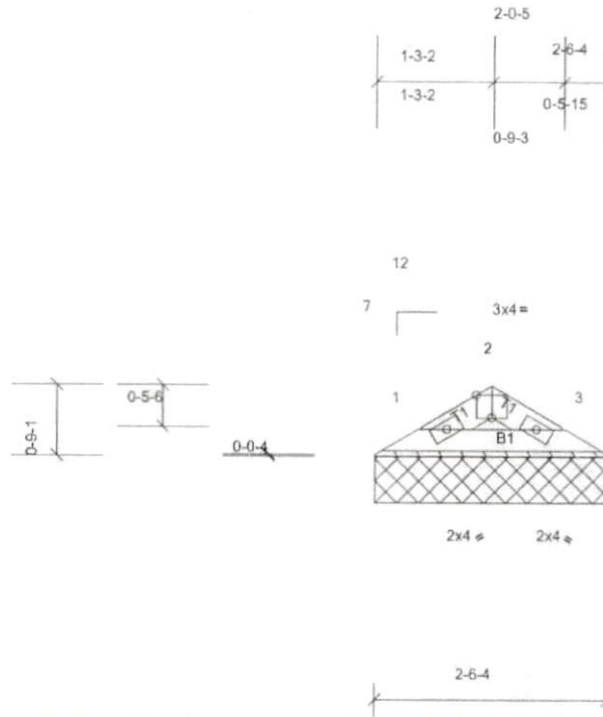
Job Q-2000382-1	Truss V6	Truss Type Valley	Qty 1	Ply 1	Raynor Ranch with Garage-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

Run: 8.23 S Nov 4 2018 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Tue Feb 11 11:54:07

Page: 1

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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	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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: 6 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size) 1=60/2-6-4, (min. 0-1-8), 3=60/2-6-4, (min. 0-1-8)
Max Horiz 1=8 (LC 10)
Max Uplift 1=-7 (LC 11), 3=-7 (LC 11)

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=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
- Gable requires continuous bottom chord bearing.
- * 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 7 lb uplift at joint 1 and 7 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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 2-7-2 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

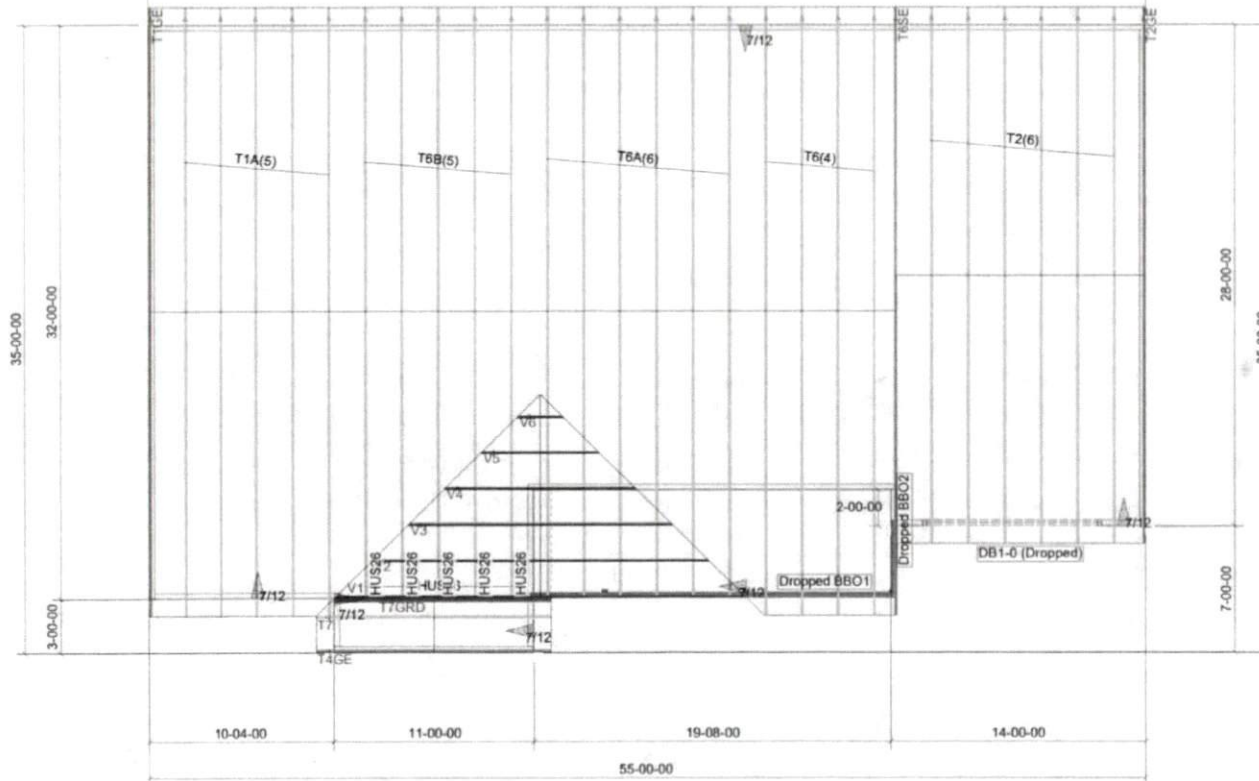
THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE ONLY.
PLEASE REFER TO BUILDING PLANS FOR BUILDING CONSTRUCTION AND DETAILS,
SUCH AS PLUMBING OR DUCT DROPS.

PROPOSED DESIGN-
NOT FOR
CONSTRUCTION

Raynor Ranch
with Garage
Roof Trusses
2' OC, 1' OH

Products						Truss Connector Total List		
PlotID	Length	Product	Plies	Net Qty	Fab Type	Manuf	Product	Qty
DB1-0 (Dropped)	10-00-00	1-3/4X9-1/4 LP-LVL 2900Fb-2.0E	2	2	MFD	USP	HUS26	5

55-00-00



- Notes:
1. Exterior dimensions shown are assumed to be:
 - ☐ Out-to-out of stud
 - ☒ Cut-to-out of sheathing
 2. Adjust truss locations as needed for plumbing and mechanical clearance. Unless otherwise noted, trusses may be shifted as long as O.C. spacing shown is not exceeded.
 3. Do not cut, drill, or otherwise damage any part of any truss without prior approval from Peak Truss.
 4. Do not approve drawings if any information herein is unclear. Once ordered trusses will be fabricated as approved.
 5. Please contact Peak Truss Builders with any questions. We are available to help any way we can. We can be reached at 919-545-5555 or sales@peaktruss.com

Roof Truss Loading per
2018 NC Residential Code

Top Chord Live Load 20# PSF
Top Chord Dead Load 10# PSF
Bottom Chord Live Load 0# PSF
Bottom Chord Dead Load 10# PSF

Trusses are designed for additional storage load wherever a 42"x24" box will fit between the webs.

- △ - This symbol denotes left end of truss as shown on truss drawing
- - Approximate location of toilet drop. Builder please confirm.

- Truss connections by others:
- (N) - Nailed
 - (L) - Ledger

Job #

Q-2000382

Raynor Ranch with Garage
932 Brickville Rd
Coats NC

Date Quoted:

Designer:
Torrance Hamilton

Guy C. Lee - Clayton
151 Hwy 42 E
Clayton, NC
27520

Peak Truss
Builders, LLC
PO Box 340, New Hill, NC 27562