ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: P-7862-1
Rosemont V2-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(Closed).

Pages or sheets covered by this seal: I46894765 thru I46894782

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

North Carolina COA: C-0844

July 8,2021

Sevier, Scott

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof	I46894765
P-7862-1	CAP1	Piggyback	2	1	Job Reference (optional)	

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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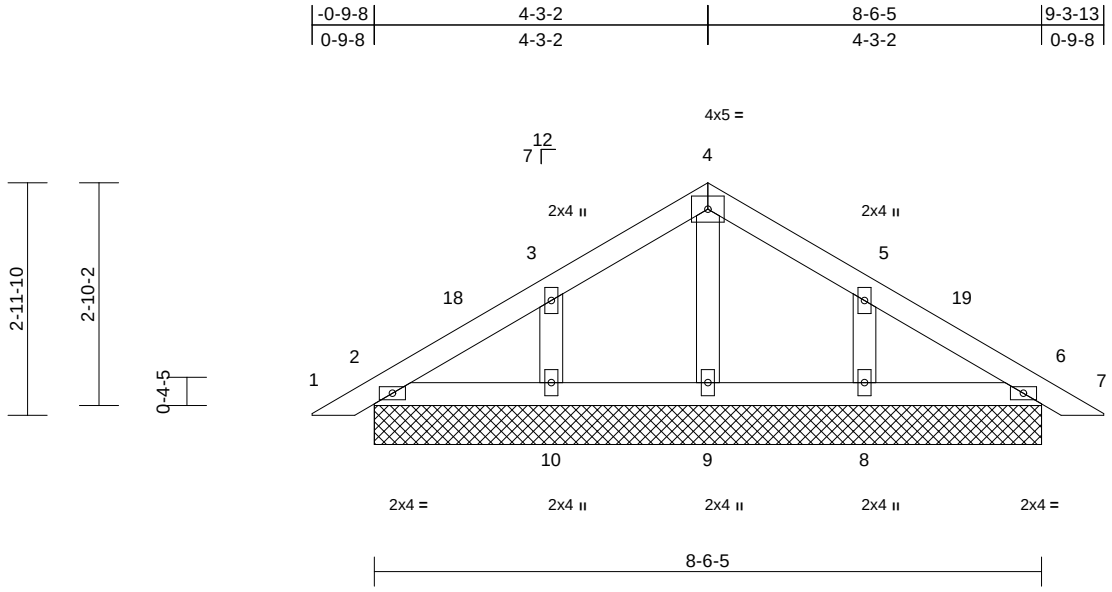
Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 37 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=117/8-6-5, 6=117/8-6-5, 8=204/8-6-5, 9=102/8-6-5, 10=204/8-6-5, 11=117/8-6-5, 15=117/8-6-5
Max Horiz 2=50 (LC 10), 11=50 (LC 10)
Max Uplift 2=-26 (LC 11), 6=-26 (LC 11), 8=-56 (LC 11), 10=-56 (LC 11), 11=-26 (LC 11), 15=-26 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-47/36, 3-4=-64/55, 4-5=-64/55, 5-6=-33/23, 6-7=0/16
BOT CHORD 2-10=-19/39, 9-10=-19/39, 8-9=-19/39, 6-8=-19/39
WEBS 4-9=-72/0, 3-10=-146/76, 5-8=-146/76

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) 0-3-11 to 3-1-1, Interior (1) 3-1-1 to 5-1-1, Exterior (2) 5-1-1 to 8-1-1, Interior (1) 8-1-1 to 9-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2, 26 lb uplift at joint 6, 56 lb uplift at joint 10, 56 lb uplift at joint 8, 26 lb uplift at joint 2 and 26 lb uplift at joint 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof	I46894766
P-7862-1	CAP2	Piggyback	25	1	Job Reference (optional)	

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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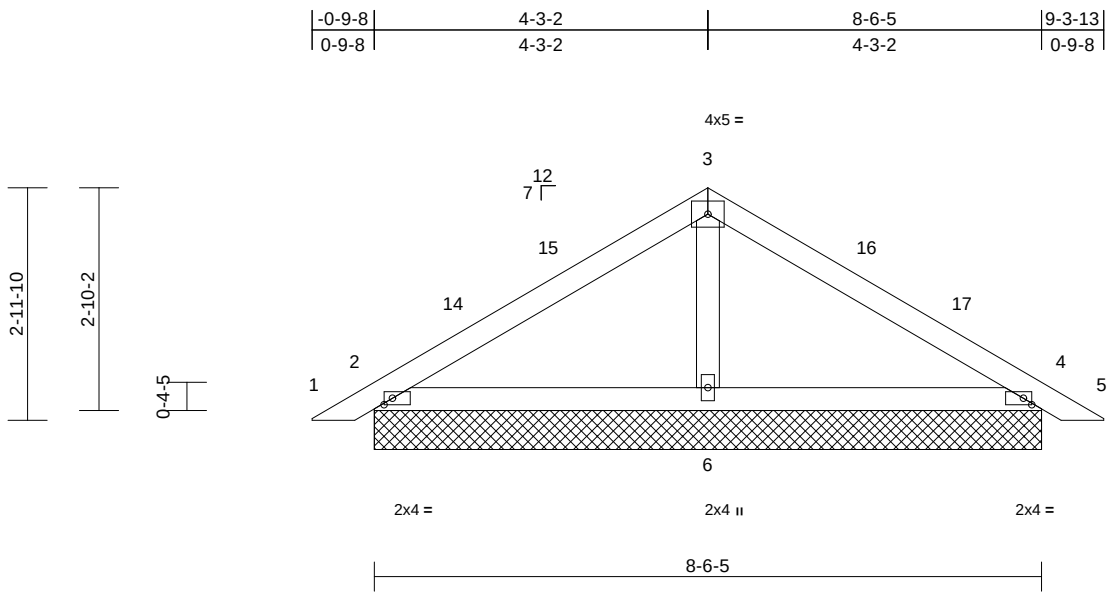

Scale = 1:29.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 33 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=226/8-6-5, 4=226/8-6-5, 6=292/8-6-5, 7=226/8-6-5, 11=226/8-6-5
Max Horiz 2=-50 (LC 9), 7=-50 (LC 9)
Max Uplift 2=-62 (LC 11), 4=-62 (LC 11), 7=-62 (LC 11), 11=-62 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-147/63, 3-4=-147/63, 4-5=0/16
BOT CHORD 2-6=-7/76, 4-6=-10/76
WEBS 3-6=-124/14

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) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 5-1-1, Exterior (2) 5-1-1 to 8-1-1, Interior (1) 8-1-1 to 9-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 2, 62 lb uplift at joint 4, 62 lb uplift at joint 2 and 62 lb uplift at joint 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof
P-7862-1	T1	Piggyback Base	3	1	I46894767 Job Reference (optional)

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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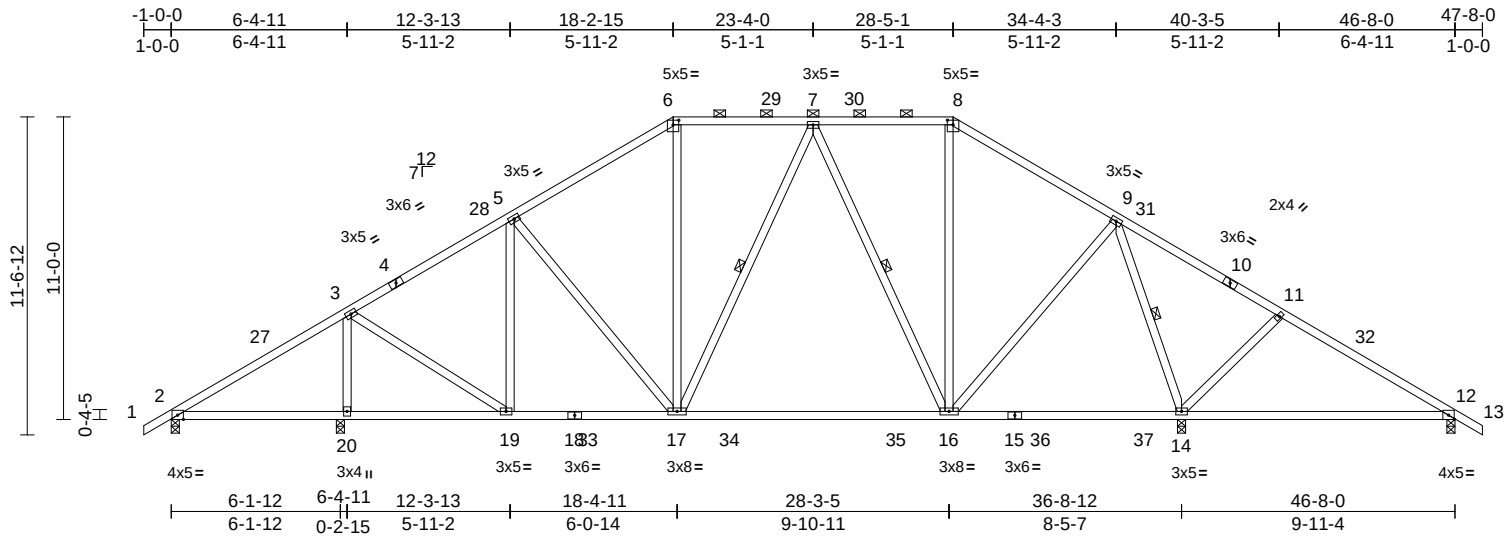

Scale = 1:83.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.31	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.24	14-26	>504	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 288 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 5-9-4 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-14, 7-17, 7-16

REACTIONS (lb/size) 2=268/0-3-8, 12=377/0-3-8, 14=1708/0-3-8, 20=1500/0-3-8
Max Horiz 2=202 (LC 10)
Max Uplift 2=-71 (LC 11), 12=-67 (LC 11), 14=-222 (LC 11), 20=-170 (LC 11)
Max Grav 2=274 (LC 23), 12=390 (LC 24), 14=1798 (LC 20), 20=1595 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-105/189, 3-5=-997/213, 5-6=-1055/270, 6-7=-852/271, 7-8=-719/248, 8-9=-901/244, 9-11=0/225, 11-12=-233/62, 12-13=0/30
BOT CHORD 2-20=-103/86, 19-20=-103/84, 17-19=0/897, 16-17=0/900, 14-16=0/318, 12-14=0/163
WEBS 3-20=-1420/233, 3-19=-29/1004, 5-19=-416/80, 5-17=-79/154, 6-17=-17/254, 8-16=-5/198, 9-16=0/660, 9-14=-1341/214, 11-14=-372/173, 7-17=-123/82, 7-16=-410/91

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=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-8-0, Interior (1) 3-8-0 to 18-2-15, Exterior (2) 18-2-15 to 24-10-2, Interior (1) 24-10-2 to 28-5-1, Exterior (2) 28-5-1 to 35-0-5, Interior (1) 35-0-5 to 47-8-0 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) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 2, 170 lb uplift at joint 20, 222 lb uplift at joint 14 and 67 lb uplift at joint 12.
6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

July 8,2021

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof
P-7862-1	T1A	Piggyback Base	6	1	I46894768 Job Reference (optional)

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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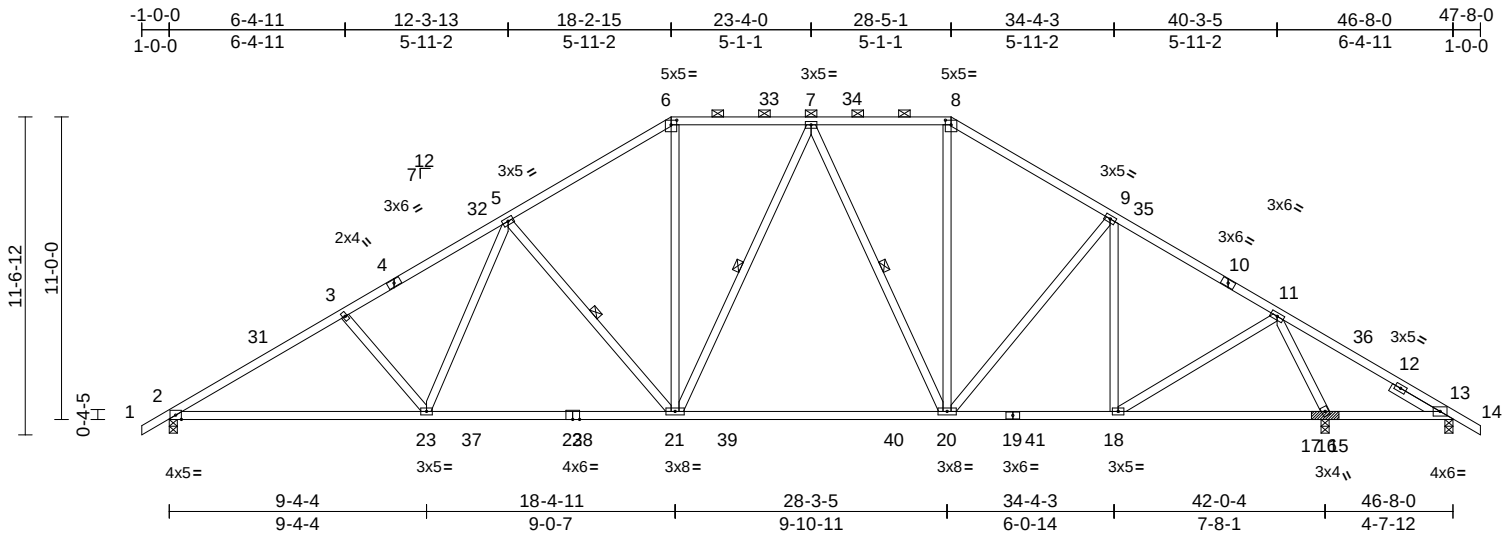

Scale = 1:83.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.32	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.57	20-21	>882	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.09	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 293 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-3-1 oc purlins, except 2-0-0 oc purlins (4-9-4 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-16.
WEBS	1 Row at midpt 5-21, 7-21, 7-20

REACTIONS (lb/size) 2=1703/0-3-8, 13=-143/0-3-8, 16=2291/(0-3-8 + bearing block), (req. 0-3-10)
Max Horiz 2=-203 (LC 9)
Max Uplift 2=-242 (LC 11), 13=-294 (LC 25), 16=-235 (LC 11)
Max Grav 2=1733 (LC 19), 13=-30 (LC 8), 16=2327 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/30, 2-3=-2900/398, 3-5=-2715/407, 5-6=-2009/387, 6-7=-1682/372, 7-8=-1448/353, 8-9=-1739/364, 9-11=-1652/303, 11-13=-136/875, 13-14=0/35
BOT CHORD	2-23=-233/2602, 21-23=-115/2181, 20-21=0/1680, 18-20=-33/1338, 16-18=-25/411, 13-16=-666/116
WEBS	3-23=-341/170, 5-23=-28/555, 5-21=-674/207, 6-21=-77/709, 7-21=-123/186, 7-20=-535/85, 8-20=-65/585, 9-20=-40/251, 9-18=-486/87, 11-18=-10/1193, 11-16=-2341/324

NOTES

1) 2x4 SP No.1 bearing block 12" long at jt. 16 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-8-0, Interior (1) 3-8-0 to 18-2-15, Exterior (2) 18-2-15 to 24-10-2, Interior (1) 24-10-2 to 28-5-1, Exterior (2) 28-5-1 to 35-0-5, Interior (1) 35-0-5 to 47-8-0 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
4) Provide adequate drainage to prevent water ponding.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 2, 235 lb uplift at joint 16 and 294 lb uplift at joint 13.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof
P-7862-1	T1B	Piggyback Base	6	1	I46894769 Job Reference (optional)

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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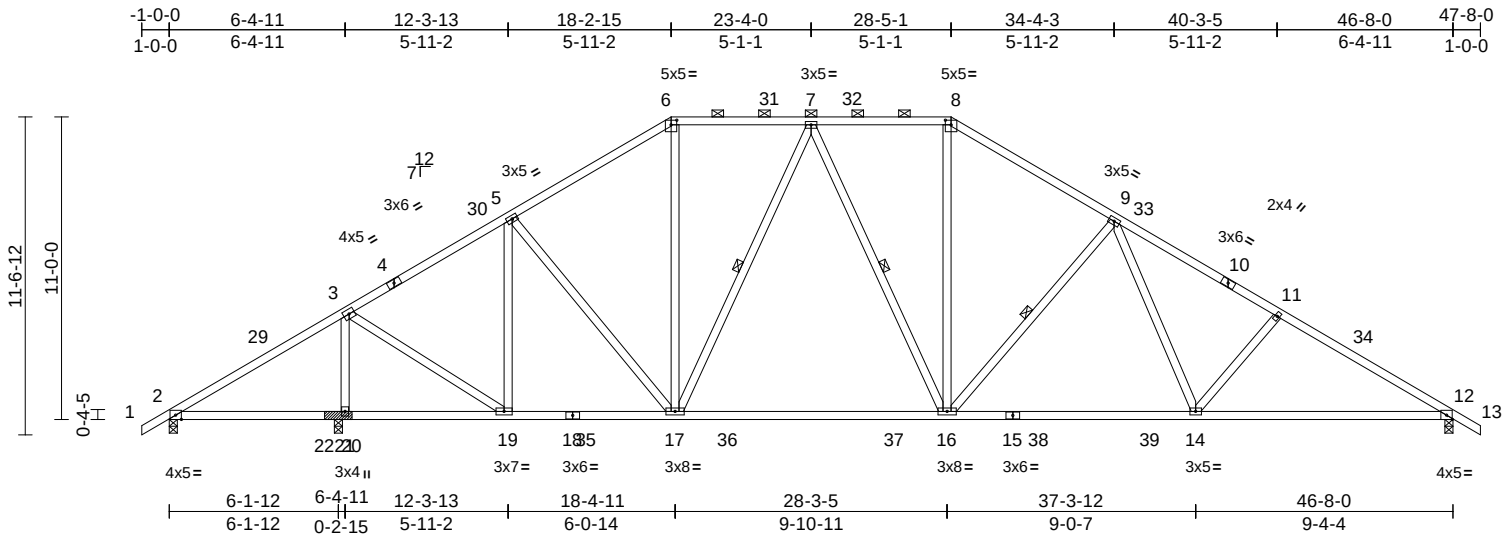

Scale = 1:83.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.32	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.55	16-17	>877	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 289 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 3-4-6 oc purlins, except 2-0-0 oc purlins (4-11-11 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-16, 7-17, 7-16

REACTIONS (lb/size) 2=34/0-3-8, 12=1626/0-3-8, 21=2193/(0-3-8 + bearing block), (req. 0-3-9)
Max Horiz 2=202 (LC 10)
Max Uplift 2=-137 (LC 26), 12=-229 (LC 11), 21=-259 (LC 11)
Max Grav 2=109 (LC 23), 12=1666 (LC 20), 21=2283 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-72/641, 3-5=-1204/239, 5-6=-1504/326, 6-7=-1228/321, 7-8=-1566/351, 8-9=-1876/362, 9-11=-2583/383, 11-12=-2769/374, 12-13=0/30
BOT CHORD 2-21=-504/117, 19-21=-504/117, 17-19=0/1064, 16-17=0/1483, 14-16=-95/1915, 12-14=-214/2337
WEBS 3-21=-2103/322, 3-19=-114/1663, 5-19=-771/126, 5-17=0/461, 6-17=-45/481, 8-16=-65/634, 9-16=-675/207, 9-14=-28/557, 11-14=-341/170, 7-17=-596/99, 7-16=-51/257

NOTES
1) 2x4 SP No.1 bearing block 12" long at jt. 21 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-8-0, Interior (1) 3-8-0 to 18-2-15, Exterior (2) 18-2-15 to 24-10-2, Interior (1) 24-10-2 to 28-5-1, Exterior (2) 28-5-1 to 35-0-5, Interior (1) 35-0-5 to 47-8-0 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
4) Provide adequate drainage to prevent water ponding.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 2, 259 lb uplift at joint 21 and 229 lb uplift at joint 12.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof	I46894770
P-7862-1	T1C	Piggyback Base	10	1	Job Reference (optional)	

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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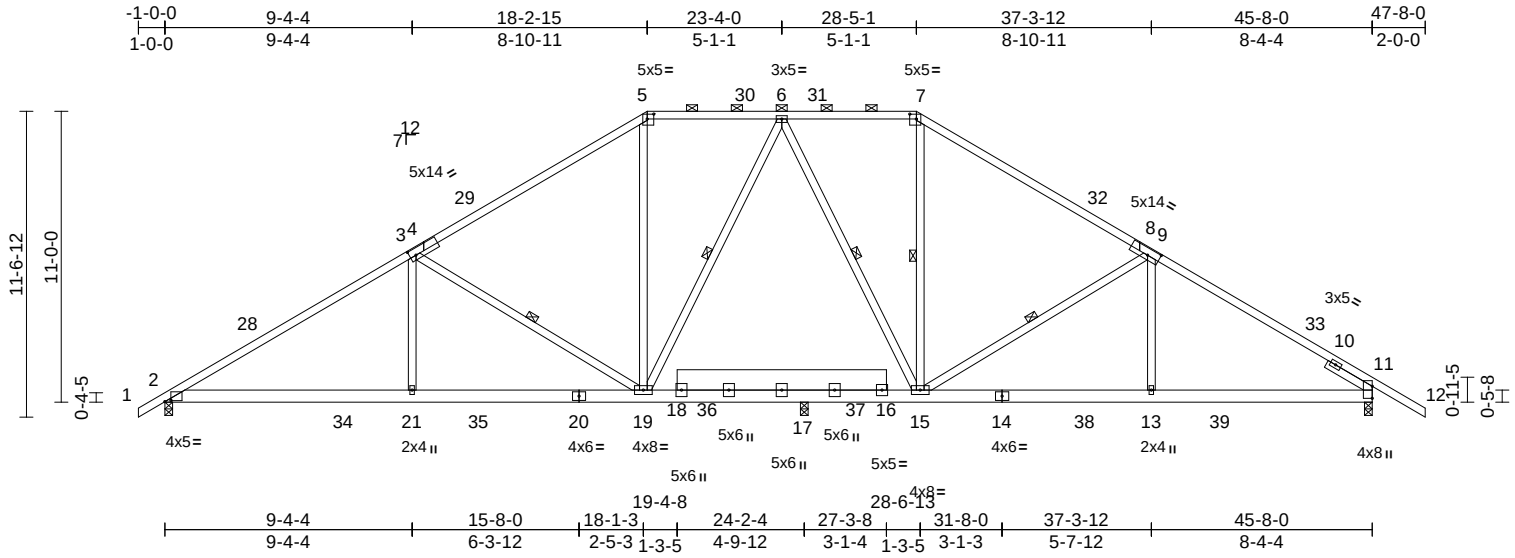


Scale = 1:87.1

Plate Offsets (X, Y): [2:0-2-12,0-0-7], [4:0-2-12,0-3-0], [5:0-3-0,0-2-4], [7:0-3-0,0-2-4], [8:0-5-8,0-3-0]

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	0.79	Vert(LL)	-0.11	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.24	13-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 332 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* 18-16:2x10 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 -- 2-0-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 7-5-2 oc bracing.
WEBS 1 Row at midpt 6-19, 7-15, 6-15, 9-15, 3-19

REACTIONS (lb/size) 2=1263/0-3-8, 11=1251/0-3-8, 17=1319/0-3-8
Max Horiz 2=-205 (LC 9)
Max Uplift 2=-200 (LC 11), 11=-230 (LC 11), 17=-126 (LC 11)
Max Grav 2=1263 (LC 1), 11=1265 (LC 20), 17=1457 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-1946/304, 3-5=-1095/288, 5-6=-812/305, 6-7=-712/294, 7-9=-972/273, 9-11=-1643/265, 11-12=0/60
BOT CHORD 2-21=-111/1734, 19-21=-111/1734, 17-19=0/862, 15-17=0/886, 13-15=-71/1333, 11-13=-71/1333
WEBS 5-19=0/165, 6-19=-241/104, 7-15=-5/99, 6-15=-429/70, 9-13=0/360, 9-15=-820/204, 3-21=0/458, 3-19=-1028/239

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=46ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 3-6-13, Interior (1) 3-6-13 to 18-2-15, Exterior (2) 18-2-15 to 24-8-7, Interior (1) 24-8-7 to 28-5-1, Exterior (2) 28-5-1 to 34-10-9, Interior (1) 34-10-9 to 47-8-0 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) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 2, 230 lb uplift at joint 11 and 126 lb uplift at joint 17.
6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

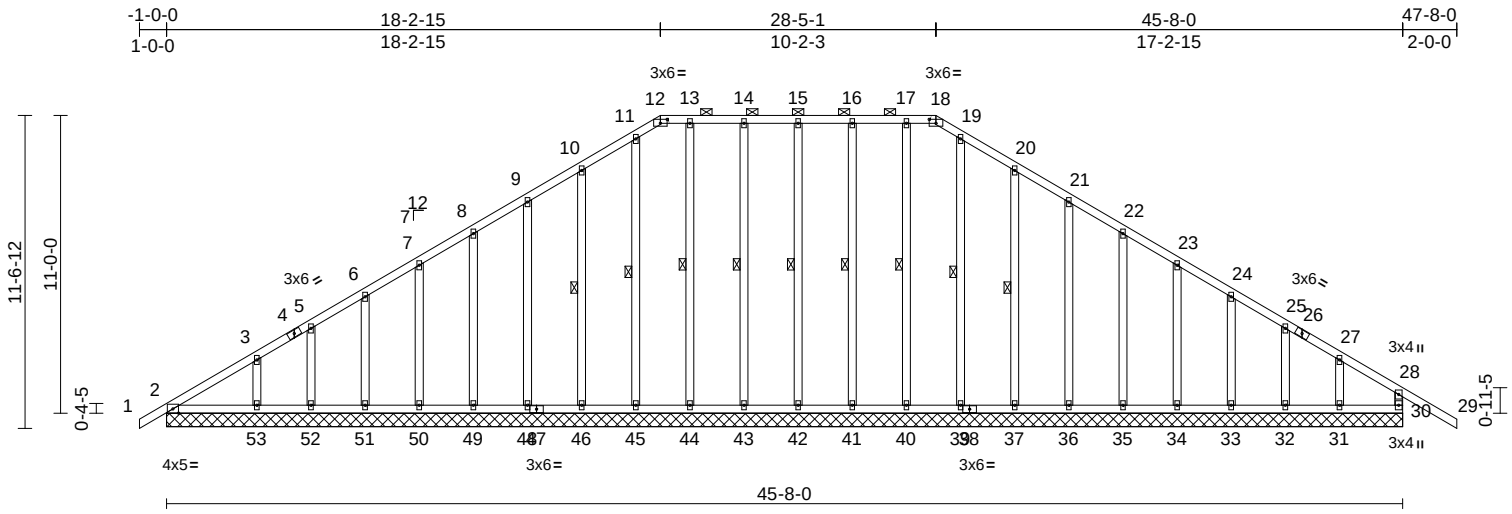
LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof	
P-7862-1	T1CGE	Piggyback Base Supported Gable	1	1	Job Reference (optional)	I46894771

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562, Run: 8.43 S Jun 2 2021 Print: 8.430 S Jun 2 2021 MiTek Industries, Inc. Wed Jul 07 11:18:58 Page: 1
ID:7cehKGo_?kS1l5cM2nCsYmz8NLx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:85.1

Plate Offsets (X, Y): [12:0-3-0,0-1-12], [18:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	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	0.14	Horz(CT)	0.01	30	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 367 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 12-18.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 15-42, 14-43, 13-44, 11-45, 10-46, 16-41, 17-40, 19-39, 20-37

REACTIONS (lb/size) 2=174/45-8-0, 30=268/45-8-0, 31=95/45-8-0, 32=178/45-8-0, 33=156/45-8-0, 34=161/45-8-0, 35=160/45-8-0, 36=160/45-8-0, 37=158/45-8-0, 39=165/45-8-0, 40=165/45-8-0, 41=158/45-8-0, 42=160/45-8-0, 43=158/45-8-0, 44=165/45-8-0, 45=165/45-8-0, 46=159/45-8-0, 48=160/45-8-0, 49=160/45-8-0, 50=158/45-8-0, 51=169/45-8-0, 52=125/45-8-0, 53=254/45-8-0, 54=174/45-8-0
Max Horiz 2=215 (LC 10), 54=215 (LC 10)
Max Uplift 2=-12 (LC 7), 30=-41 (LC 11), 31=-49 (LC 11), 32=-41 (LC 11), 33=-43 (LC 11), 34=-43 (LC 11), 35=-43 (LC 11), 36=-41 (LC 11), 37=-60 (LC 11), 41=-34 (LC 11), 42=-17 (LC 11), 43=-34 (LC 11), 46=-60 (LC 11), 48=-41 (LC 11), 49=-43 (LC 11), 50=-42 (LC 11), 51=-44 (LC 11), 52=-36 (LC 11), 53=-61 (LC 11), 54=-12 (LC 7)
Max Grav 2=192 (LC 20), 30=268 (LC 1), 31=123 (LC 20), 32=178 (LC 1), 33=157 (LC 20), 34=161 (LC 1), 35=160 (LC 24), 36=160 (LC 24), 37=161 (LC 20), 39=166 (LC 24), 40=165 (LC 24), 41=162 (LC 23), 42=160 (LC 1), 43=161 (LC 24), 44=165 (LC 1), 45=172 (LC 19), 46=160 (LC 23), 48=160 (LC 1), 49=160 (LC 23), 50=158 (LC 23), 51=169 (LC 1), 52=125 (LC 23), 53=256 (LC 19), 54=192 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-165/176, 3-5=-154/146, 5-6=-140/140, 6-7=-129/126, 7-8=-117/114, 8-9=-120/153, 9-10=-154/198, 10-11=-196/251, 11-12=-193/244, 12-13=-184/244, 13-14=-184/244, 14-15=-184/244, 15-16=-184/244, 16-17=-184/244, 17-18=-184/244, 18-19=-193/244, 19-20=-196/251, 20-21=-154/198, 21-22=-120/153, 22-23=-85/107, 23-24=-50/62, 24-25=-30/45, 25-27=-51/58, 27-28=-87/100, 28-29=0/65, 28-30=-236/67
BOT CHORD 2-53=-117/168, 52-53=-117/168, 51-52=-117/168, 50-51=-117/168, 49-50=-117/168, 48-49=-117/168, 46-48=-117/168, 45-46=-117/168, 44-45=-117/168, 43-44=-117/168, 42-43=-117/168, 41-42=-117/168, 40-41=-117/168, 39-40=-117/168, 37-39=-117/168, 36-37=-117/168, 35-36=-117/168, 34-35=-117/168, 33-34=-117/168, 32-33=-117/168, 31-32=-117/168, 30-31=-117/168
WEBS 15-42=-120/41, 14-43=-121/58, 13-44=-125/0, 11-45=-132/0, 10-46=-123/84, 9-48=-120/65, 8-49=-120/67, 7-50=-119/66, 6-51=-124/68, 5-52=-101/60, 3-53=-174/87, 16-41=-122/58, 17-40=-125/0, 19-39=-126/0, 20-37=-123/84, 21-36=-120/65, 22-35=-120/67, 23-34=-121/67, 24-33=-117/66, 25-32=-135/69, 27-31=-153/74

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=46ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 3-4-0, Exterior (2) 3-4-0 to 18-2-15, Corner (3) 18-2-15 to 22-9-11, Exterior (2) 22-9-11 to 28-5-1, Corner (3) 28-5-1 to 32-11-14, Exterior (2) 32-11-14 to 47-8-0 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

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3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 2, 17 lb uplift at joint 42, 34 lb uplift at joint 43, 60 lb uplift at joint 46, 41 lb uplift at joint 48, 43 lb uplift at joint 49, 42 lb uplift at joint 50, 44 lb uplift at joint 51, 36 lb uplift at joint 52, 61 lb uplift at joint 53, 34 lb uplift at joint 41, 60 lb uplift at joint 37, 41 lb uplift at joint 36, 43 lb uplift at joint 35, 43 lb uplift at joint 34, 43 lb uplift at joint 33, 41 lb uplift at joint 32, 49 lb uplift at joint 31, 41 lb uplift at joint 30 and 12 lb uplift at joint 2.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 54.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof
P-7862-1	T1GE	Piggyback Base Supported Gable	1	1	I46894772 Job Reference (optional)

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

Run: 8.43 S Jun 2 2021 Print: 8.430 S Jun 2 2021 MiTek Industries, Inc. Wed Jul 07 11:18:59 Page: 1
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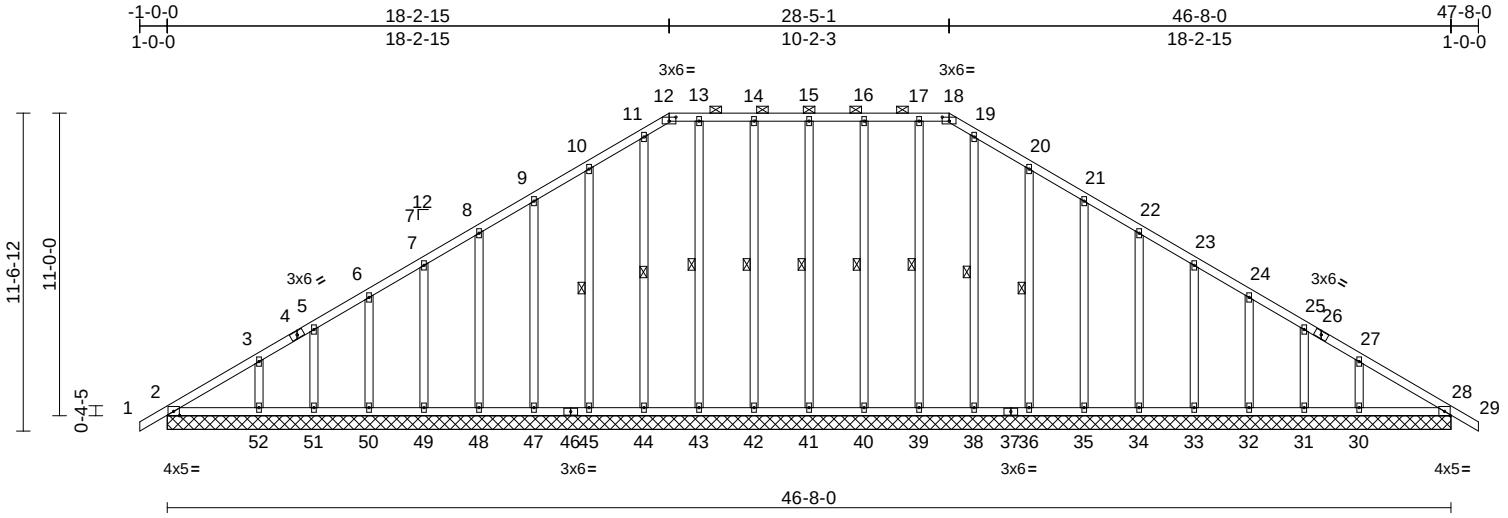

Scale = 1:83.8

Plate Offsets (X, Y): [12:0-3-0,0-1-12], [18:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	28	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 368 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, except
2-0-0 oc purlins (6-0-0 max.): 12-18.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 15-41, 14-42, 13-43, 11-44, 10-45, 16-40, 17-39, 19-38, 20-36

REACTIONS (lb/size) 2=194/46-8-0, 28=194/46-8-0, 30=253/46-8-0, 31=125/46-8-0, 32=169/46-8-0, 33=158/46-8-0, 34=160/46-8-0, 35=160/46-8-0, 36=161/46-8-0, 38=153/46-8-0, 39=154/46-8-0, 40=161/46-8-0, 41=160/46-8-0, 42=161/46-8-0, 43=154/46-8-0, 44=153/46-8-0, 45=161/46-8-0, 47=160/46-8-0, 48=160/46-8-0, 49=158/46-8-0, 50=169/46-8-0, 51=125/46-8-0, 52=253/46-8-0, 53=194/46-8-0, 56=194/46-8-0
Max Horiz 2=202 (LC 10), 53=202 (LC 10)
Max Uplift 30=-62 (LC 11), 31=-36 (LC 11), 32=-44 (LC 11), 33=-42 (LC 11), 34=-43 (LC 11), 35=-41 (LC 11), 36=-58 (LC 11), 40=-33 (LC 11), 41=-18 (LC 11), 42=-33 (LC 11), 45=-58 (LC 11), 47=-41 (LC 11), 48=-43 (LC 11), 49=-42 (LC 11), 50=-44 (LC 11), 51=-36 (LC 11), 52=-62 (LC 11)
Max Grav 2=199 (LC 20), 28=194 (LC 1), 30=254 (LC 20), 31=125 (LC 1), 32=169 (LC 24), 33=158 (LC 1), 34=160 (LC 1), 35=160 (LC 24), 36=162 (LC 20), 38=154 (LC 24), 39=155 (LC 24), 40=163 (LC 23), 41=160 (LC 1), 42=163 (LC 24), 43=155 (LC 23), 44=159 (LC 19), 45=161 (LC 1), 47=160 (LC 23), 48=160 (LC 1), 49=158 (LC 1), 50=169 (LC 23), 51=125 (LC 1), 52=255 (LC 19), 53=199 (LC 20), 56=194 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-155/153, 3-5=-145/123, 5-6=-130/116, 6-7=-121/102, 7-8=-112/90, 8-9=-105/121, 9-10=-139/166, 10-11=-180/218, 11-12=-180/216, 12-13=-171/217, 13-14=-171/217, 14-15=-171/217, 15-16=-171/217, 16-17=-171/217, 17-18=-171/217, 18-19=-180/216, 19-20=-180/218, 20-21=-139/166, 21-22=-105/121, 22-23=-70/75, 23-24=-61/30, 24-25=-68/36, 25-27=-84/56, 27-28=-132/121, 28-29=0/30
BOT CHORD 2-52=-116/172, 51-52=-116/172, 50-51=-116/172, 49-50=-116/172, 48-49=-116/172, 47-48=-116/172, 45-47=-116/172, 44-45=-116/172, 43-44=-116/172, 42-43=-116/172, 41-42=-116/172, 40-41=-116/172, 39-40=-116/172, 38-39=-116/172, 36-38=-116/172, 35-36=-116/172, 34-35=-116/172, 33-34=-116/172, 32-33=-116/172, 31-32=-116/172, 30-31=-116/172, 28-30=-116/172
WEBS 15-41=-120/42, 14-42=-123/57, 13-43=-115/0, 11-44=-119/0, 10-45=-122/82, 9-47=-120/65, 8-48=-120/67, 7-49=-119/66, 6-50=-124/68, 5-51=-101/60, 3-52=-174/87, 16-40=-123/57, 17-39=-115/0, 19-38=-114/0, 20-36=-122/82, 21-35=-120/65, 22-34=-120/67, 23-33=-119/66, 24-32=-124/68, 25-31=-101/60, 27-30=-174/87

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=47ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -1-0-0 to 3-8-0, Exterior (2) 3-8-0 to 18-2-15, Corner (3) 18-2-15 to 22-10-15, Exterior (2) 22-10-15 to 28-5-1, Corner (3) 28-5-1 to 33-4-0, Exterior (2) 33-4-0 to 47-8-0 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

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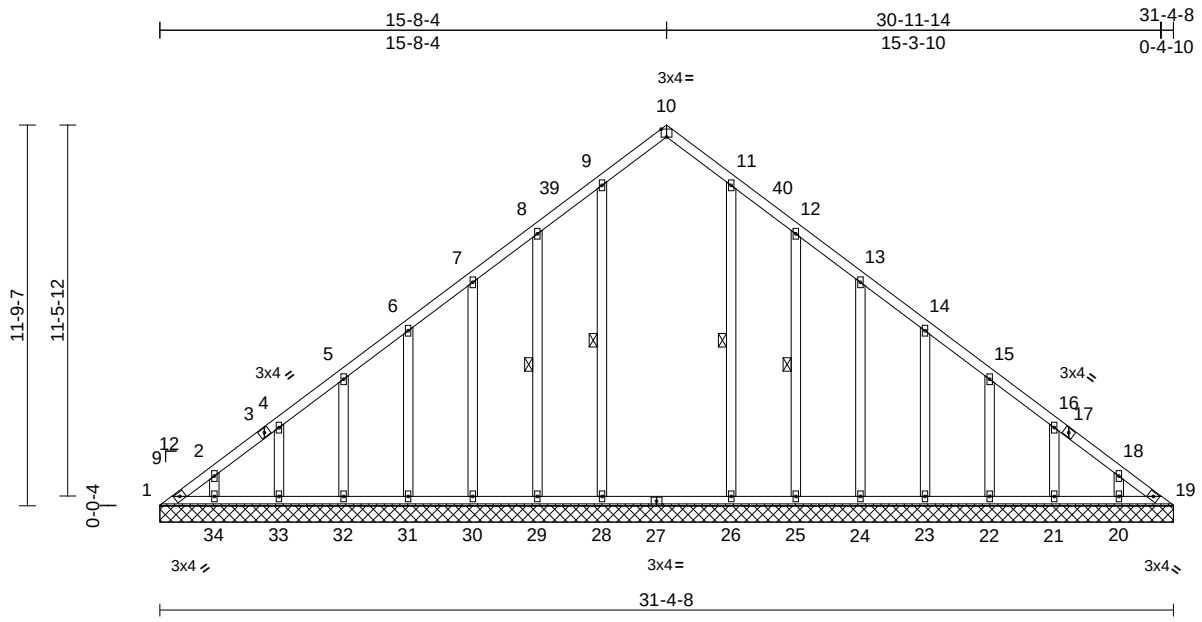
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 41, 33 lb uplift at joint 42, 58 lb uplift at joint 45, 41 lb uplift at joint 47, 43 lb uplift at joint 48, 42 lb uplift at joint 49, 44 lb uplift at joint 50, 36 lb uplift at joint 51, 62 lb uplift at joint 52, 33 lb uplift at joint 40, 58 lb uplift at joint 36, 41 lb uplift at joint 35, 43 lb uplift at joint 34, 42 lb uplift at joint 33, 44 lb uplift at joint 32, 36 lb uplift at joint 31 and 62 lb uplift at joint 30.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof
P-7862-1	V1	Valley	1	1	I46894773
					Job Reference (optional)

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

Run: 8.43 S Jun 2 2021 Print: 8.430 S Jun 2 2021 MiTek Industries, Inc. Wed Jul 07 11:19:00 Page: 1
ID:utbHSBhL7zJIAjQd0OYlhtz8NM4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:71.3

Plate Offsets (X, Y): [10:0-2-0,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	0.11	Horiz(TL)	0.01	19	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							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 9-28, 8-29, 11-26, 12-25

REACTIONS (lb/size) 1=85/31-4-8, 19=85/31-4-8, 20=179/31-4-8, 21=157/31-4-8, 22=161/31-4-8, 23=159/31-4-8, 24=164/31-4-8, 25=142/31-4-8, 26=207/31-4-8, 28=207/31-4-8, 29=142/31-4-8, 30=164/31-4-8, 31=159/31-4-8, 32=161/31-4-8, 33=157/31-4-8, 34=179/31-4-8
Max Horiz 1=215 (LC 10)
Max Uplift 1=-40 (LC 9), 19=-10 (LC 10), 21=-73 (LC 11), 22=-54 (LC 11), 23=-60 (LC 11), 24=-52 (LC 11), 25=-87 (LC 11), 29=-87 (LC 11), 30=-52 (LC 11), 31=-60 (LC 11), 32=-54 (LC 11), 33=-73 (LC 11)
Max Grav 1=143 (LC 11), 19=143 (LC 11), 20=179 (LC 1), 21=164 (LC 17), 22=163 (LC 17), 23=160 (LC 17), 24=173 (LC 17), 25=144 (LC 21), 26=282 (LC 17), 28=295 (LC 16), 29=144 (LC 20), 30=174 (LC 16), 31=160 (LC 16), 32=164 (LC 16), 33=161 (LC 16), 34=179 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-334/230, 2-4=-304/201, 4-5=-237/149, 5-6=-175/101, 6-7=-147/57, 7-8=-135/38, 8-9=-122/40, 9-10=-123/76, 10-11=-123/76, 11-12=-112/40, 12-13=-122/21, 13-14=-134/53, 14-15=-175/101, 15-16=-237/149, 16-18=-304/201, 18-19=-334/230
BOT CHORD 1-34=-197/298, 33-34=-197/298, 32-33=-197/298, 31-32=-197/298, 30-31=-197/298, 29-30=-197/298, 28-29=-197/298, 26-28=-197/298, 25-26=-197/298, 24-25=-197/298, 23-24=-197/298, 22-23=-197/298, 21-22=-197/298, 20-21=-197/298, 19-20=-197/298
WEBS 9-28=-145/35, 8-29=-134/103, 7-30=-124/78, 6-31=-123/83, 5-32=-123/80, 4-33=-127/90, 2-34=-119/37, 11-26=-138/34, 12-25=-134/103, 13-24=-123/78, 14-23=-123/83, 15-22=-122/80, 16-21=-127/90, 18-20=-119/37

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=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-2-0, Interior (1) 3-2-0 to 15-8-9, Exterior (2) 15-8-9 to 18-10-4, Interior (1) 18-10-4 to 31-4-13 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 requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1, 87 lb uplift at joint 29, 52 lb uplift at joint 30, 60 lb uplift at joint 31, 54 lb uplift at joint 32, 73 lb uplift at joint 33, 87 lb uplift at joint 25, 52 lb uplift at joint 24, 60 lb uplift at joint 23, 54 lb uplift at joint 22, 73 lb uplift at joint 21 and 10 lb uplift at joint 19.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof
P-7862-1	V2	Valley	1	1	I46894774
					Job Reference (optional)

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

Run: 8.43 S Jun 2 2021 Print: 8.430 S Jun 2 2021 MiTek Industries, Inc. Wed Jul 07 11:19:00

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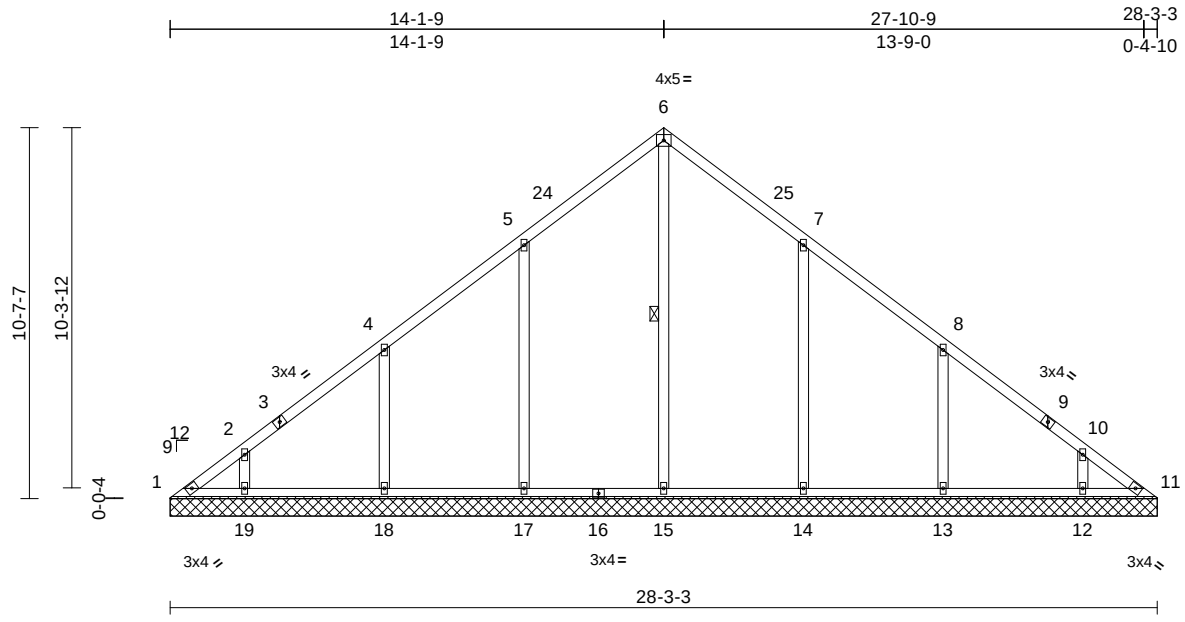

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 145 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 6-15

REACTIONS (lb/size) 1=67/28-3-3, 11=67/28-3-3, 12=285/28-3-3, 13=325/28-3-3, 14=332/28-3-3, 15=243/28-3-3, 17=332/28-3-3, 18=325/28-3-3, 19=285/28-3-3
Max Horiz 1=191 (LC 10)
Max Uplift 1=-49 (LC 9), 11=-5 (LC 10), 12=-73 (LC 11), 13=-121 (LC 11), 14=-121 (LC 11), 17=-121 (LC 11), 18=-121 (LC 11), 19=-73 (LC 11)
Max Grav 1=119 (LC 17), 11=86 (LC 16), 12=285 (LC 1), 13=391 (LC 17), 14=468 (LC 17), 15=359 (LC 16), 17=469 (LC 16), 18=390 (LC 16), 19=285 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-164/153, 2-4=-183/128, 4-5=-160/91, 5-6=-201/212, 6-7=-201/212, 7-8=-117/82, 8-10=-136/67, 10-11=-164/124
BOT CHORD 1-19=-94/147, 18-19=-94/147, 17-18=-94/147, 15-17=-94/147, 14-15=-94/147, 13-14=-94/147, 12-13=-94/147, 11-12=-94/147
WEBS 6-15=-163/41, 5-17=-261/169, 4-18=-247/168, 2-19=-218/132, 7-14=-261/169, 8-13=-248/168, 10-12=-216/132

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=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 14-1-15, Exterior (2) 14-1-15 to 17-1-15, Interior (1) 17-1-15 to 28-3-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 121 lb uplift at joint 17, 121 lb uplift at joint 18, 73 lb uplift at joint 19, 121 lb uplift at joint 14, 121 lb uplift at joint 13, 73 lb uplift at joint 12 and 5 lb uplift at joint 11.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof
P-7862-1	V3	Valley	1	1	I46894775
					Job Reference (optional)

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

Run: 8.43 S Jun 2 2021 Print: 8.430 S Jun 2 2021 MiTek Industries, Inc. Wed Jul 07 11:19:01 Page: 1
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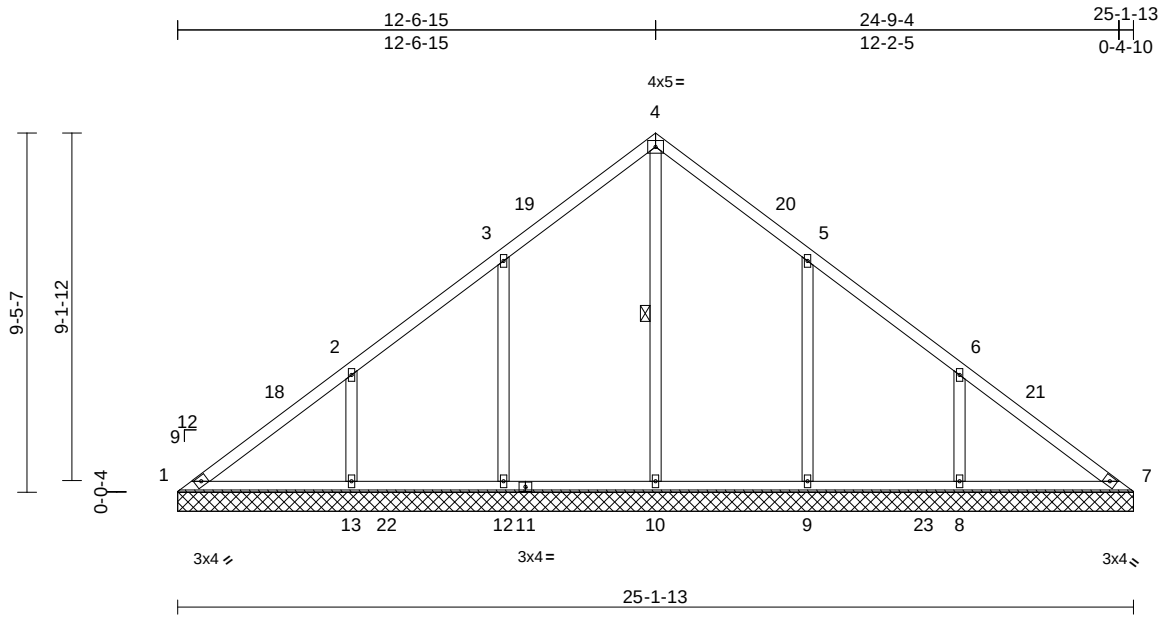

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 122 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 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-10

REACTIONS (lb/size) 1=117/25-1-13, 7=117/25-1-13, 8=389/25-1-13, 9=313/25-1-13, 10=375/25-1-13, 12=313/25-1-13, 13=389/25-1-13
Max Horiz 1=170 (LC 10)
Max Uplift 8=-125 (LC 11), 9=-120 (LC 11), 12=-120 (LC 11), 13=-125 (LC 11)
Max Grav 1=142 (LC 17), 7=123 (LC 21), 8=420 (LC 17), 9=448 (LC 17), 10=468 (LC 16), 12=448 (LC 16), 13=423 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-179/206, 2-3=-77/166, 3-4=-90/165, 4-5=-90/165, 5-6=-32/127, 6-7=-141/168
BOT CHORD 1-13=-152/159, 12-13=-152/146, 10-12=-152/146, 9-10=-152/146, 8-9=-152/146, 7-8=-152/146
WEBS 4-10=-288/0, 3-12=-256/171, 2-13=-267/164, 5-9=-256/171, 6-8=-266/164

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=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 12-7-4, Exterior (2) 12-7-4 to 15-7-4, Interior (1) 15-7-4 to 25-2-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 12, 125 lb uplift at joint 13, 120 lb uplift at joint 9 and 125 lb uplift at joint 8.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof	
P-7862-1	V4	Valley	1	1	Job Reference (optional)	I46894776

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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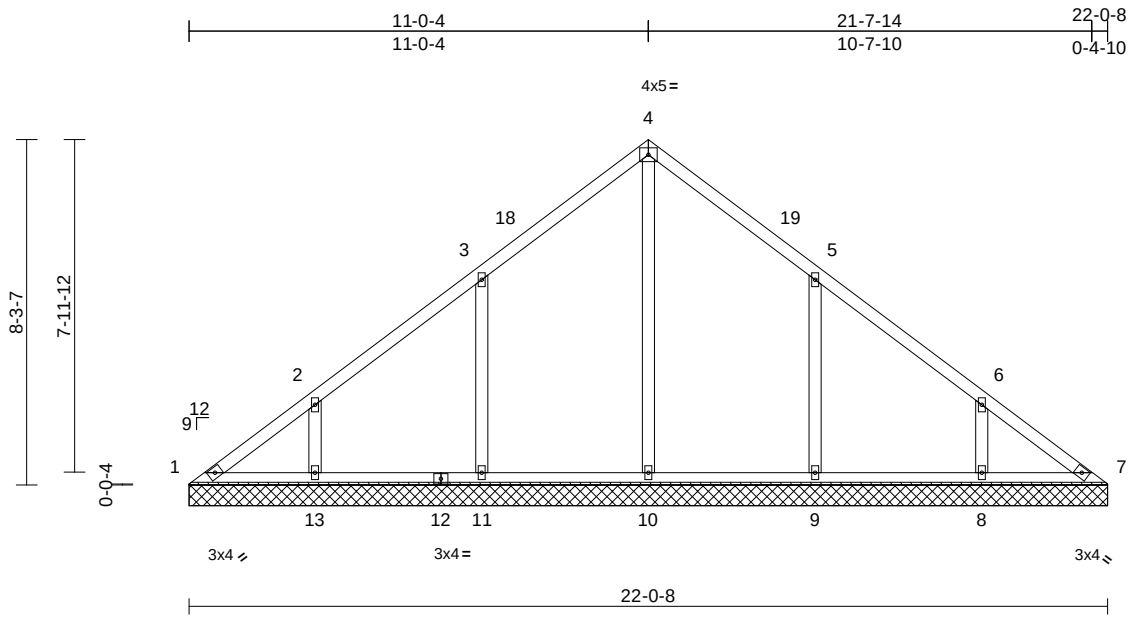

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 103 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=99/22-0-8, 7=99/22-0-8, 8=309/22-0-8, 9=337/22-0-8, 10=272/22-0-8, 11=337/22-0-8, 13=309/22-0-8
Max Horiz 1=149 (LC 10)
Max Uplift 1=-7 (LC 9), 8=-94 (LC 11), 9=-128 (LC 11), 11=-128 (LC 11), 13=-94 (LC 11)
Max Grav 1=126 (LC 17), 7=101 (LC 16), 8=309 (LC 1), 9=405 (LC 17), 10=401 (LC 16), 11=405 (LC 16), 13=309 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-166/128, 2-3=-130/108, 3-4=-142/160, 4-5=-142/160, 5-6=-92/70, 6-7=-131/94
BOT CHORD 1-13=-82/134, 11-13=-82/111, 10-11=-82/111, 9-10=-82/111, 8-9=-82/111, 7-8=-82/111
WEBS 4-10=-191/0, 3-11=-268/177, 2-13=-221/136, 5-9=-268/177, 6-8=-220/136

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=22ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-9, Interior (1) 3-0-9 to 11-0-9, Exterior (2) 11-0-9 to 14-0-9, Interior (1) 14-0-9 to 22-0-13 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 requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 128 lb uplift at joint 11, 94 lb uplift at joint 13, 128 lb uplift at joint 9 and 94 lb uplift at joint 8.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof	
P-7862-1	V5	Valley	1	1	Job Reference (optional)	I46894777

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562, Run: 8.43 S Jun 2 2021 Print: 8.430 S Jun 2 2021 MiTek Industries, Inc. Wed Jul 07 11:19:01 Page: 1
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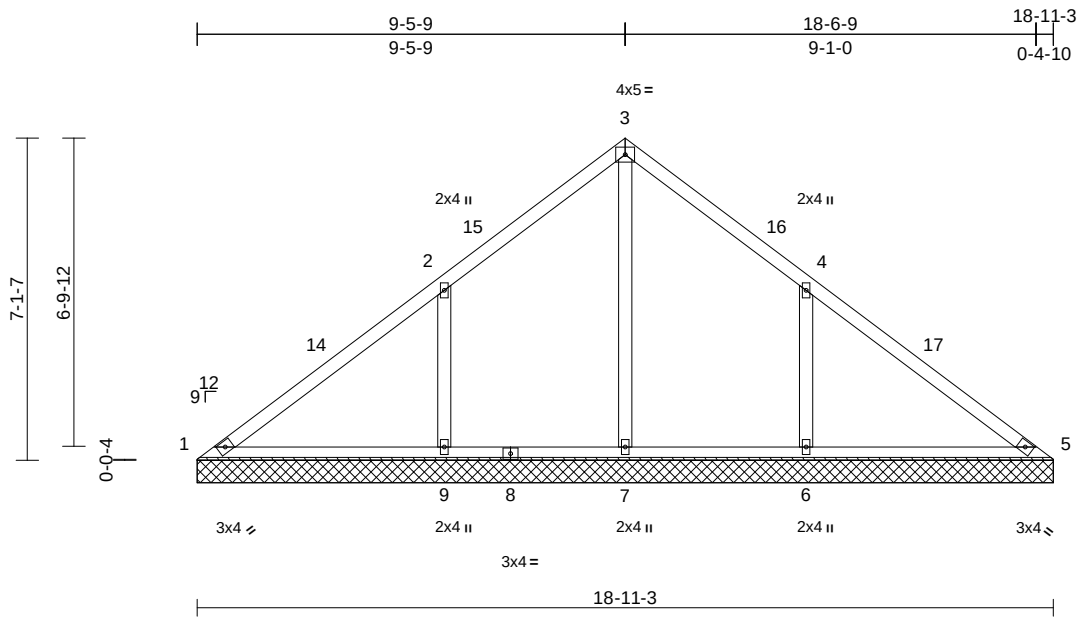

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 82 lb	FT = 20%

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

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

REACTIONS (lb/size) 1=78/18-11-3, 5=78/18-11-3, 6=460/18-11-3, 7=438/18-11-3, 9=460/18-11-3
Max Horiz 1=-127 (LC 9)
Max Uplift 6=-159 (LC 11), 9=-159 (LC 11)
Max Grav 1=101 (LC 20), 5=101 (LC 21), 6=520 (LC 17), 7=536 (LC 16), 9=522 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-102/297, 2-3=0/235, 3-4=0/235, 4-5=-102/281
BOT CHORD 1-9=-218/139, 7-9=-218/139, 6-7=-218/139, 5-6=-218/139
WEBS 3-7=-398/0, 2-9=-324/197, 4-6=-323/197

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 9-5-15, Exterior (2) 9-5-15 to 12-5-15, Interior (1) 12-5-15 to 18-11-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 9 and 159 lb uplift at joint 6.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof
P-7862-1	V6	Valley	1	1	I46894778
					Job Reference (optional)

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

Run: 8.43 S Jun 2 2021 Print: 8.430 S Jun 2 2021 MiTek Industries, Inc. Wed Jul 07 11:19:01 Page: 1
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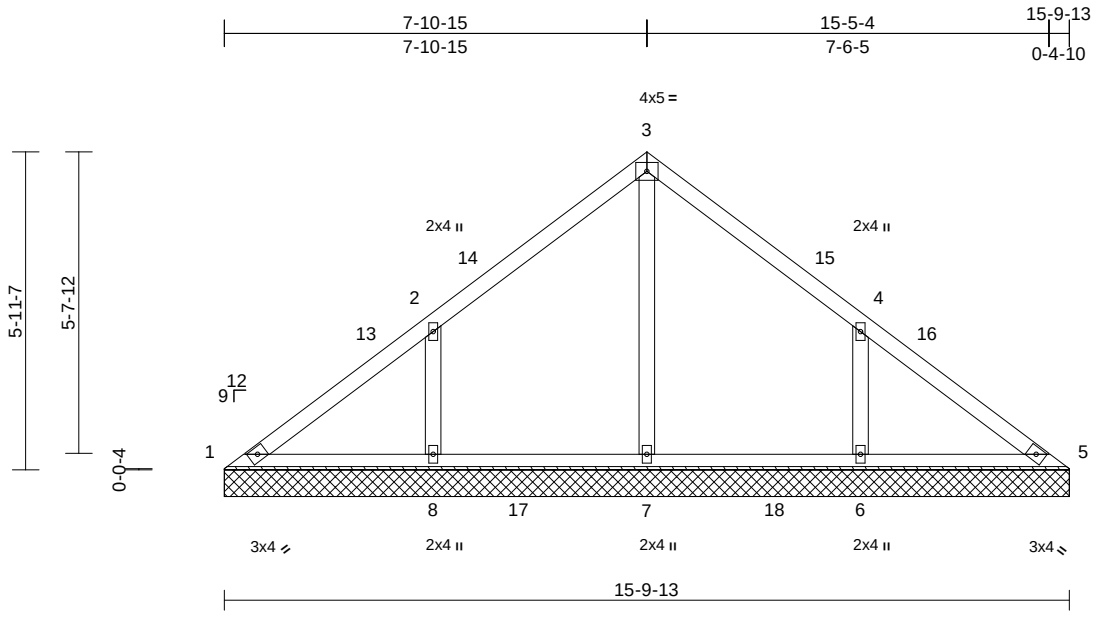

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 67 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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=98/15-9-13, 5=98/15-9-13, 6=369/15-9-13, 7=332/15-9-13, 8=369/15-9-13
Max Horiz 1=-106 (LC 9)
Max Uplift 6=-128 (LC 11), 8=-128 (LC 11)
Max Grav 1=107 (LC 17), 5=101 (LC 21), 6=391 (LC 17), 7=420 (LC 16), 8=393 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-131/153, 2-3=-57/112, 3-4=-47/106, 4-5=-114/124
BOT CHORD 1-8=-99/118, 7-8=-99/85, 6-7=-99/85, 5-6=-99/87
WEBS 3-7=-264/0, 2-8=-269/165, 4-6=-268/165

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 7-11-4, Exterior (2) 7-11-4 to 10-11-4, Interior (1) 10-11-4 to 15-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 8 and 128 lb uplift at joint 6.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof	
P-7862-1	V7	Valley	1	1	Job Reference (optional)	I46894779

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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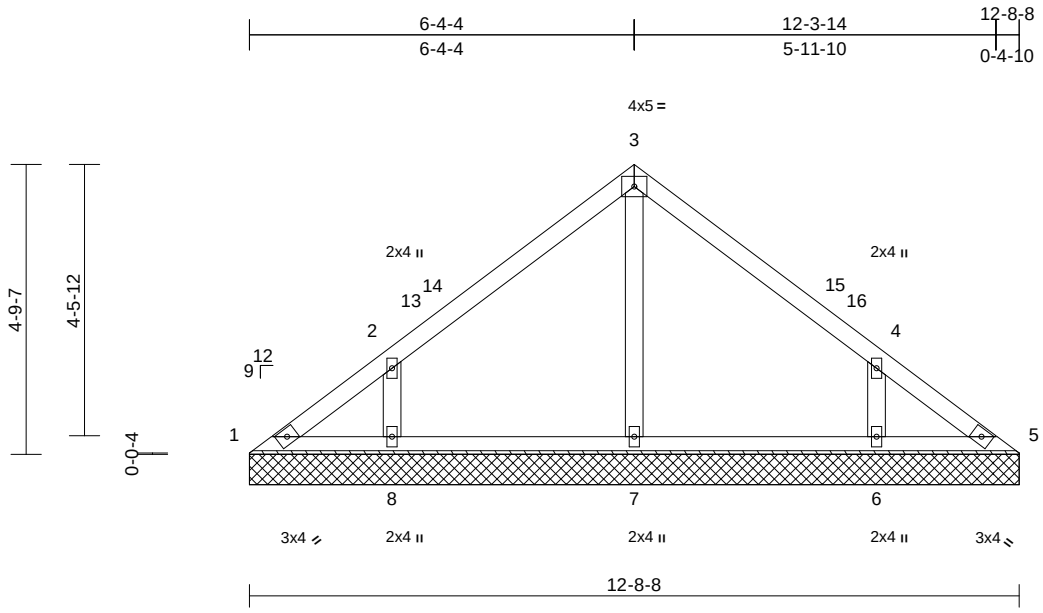

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 51 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=73/12-8-8, 5=73/12-8-8, 6=306/12-8-8, 7=257/12-8-8, 8=306/12-8-8
Max Horiz 1=84 (LC 10)
Max Uplift 6=-105 (LC 11), 8=-105 (LC 11)
Max Grav 1=87 (LC 17), 5=73 (LC 1), 6=311 (LC 21), 7=257 (LC 1), 8=312 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-111/74, 2-3=-121/90, 3-4=-119/90, 4-5=-90/45
BOT CHORD 1-8=-21/82, 7-8=-21/51, 6-7=-21/51, 5-6=-21/70
WEBS 3-7=-173/0, 2-8=-244/153, 4-6=-243/153

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 6-4-9, Exterior (2) 6-4-9 to 9-4-9, Interior (1) 9-4-9 to 12-8-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 8 and 105 lb uplift at joint 6.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof	I46894780
P-7862-1	V8	Valley	1	1	Job Reference (optional)	

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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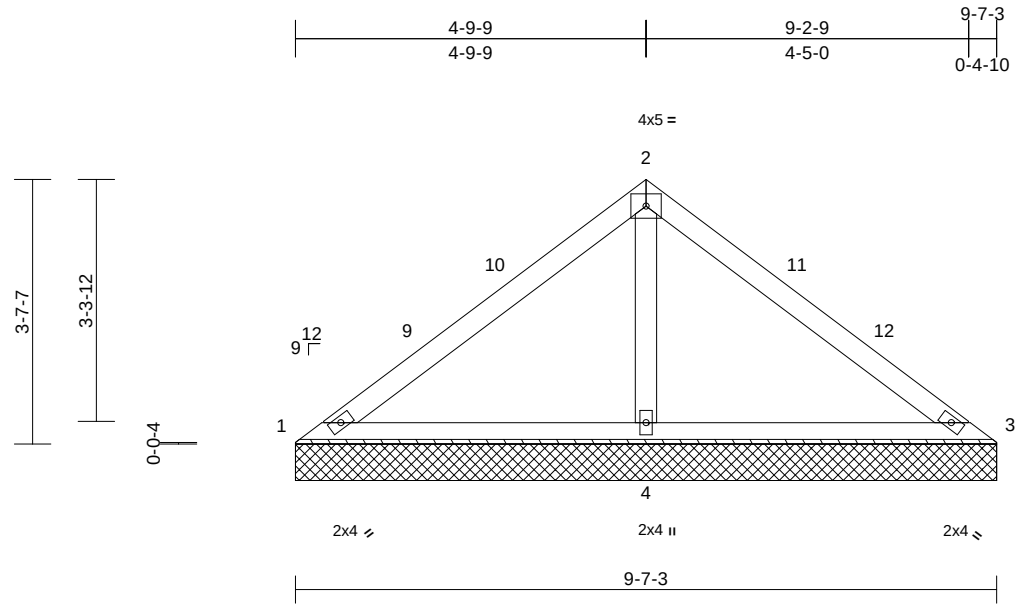

Scale = 1:31.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 35 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 9-7-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=37/9-7-3, 3=37/9-7-3, 4=693/9-7-3
Max Horiz 1=63 (LC 10)
Max Uplift 1=-21 (LC 21), 3=-21 (LC 20), 4=-127 (LC 11)
Max Grav 1=75 (LC 20), 3=75 (LC 21), 4=693 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-63/299, 2-3=-63/299
BOT CHORD 1-4=-217/105, 3-4=-217/105
WEBS 2-4=-525/145

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-9-15, Exterior (2) 4-9-15 to 7-9-15, Interior (1) 7-9-15 to 9-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1, 21 lb uplift at joint 3 and 127 lb uplift at joint 4.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof	
P-7862-1	V9	Valley	1	1	Job Reference (optional)	I46894781

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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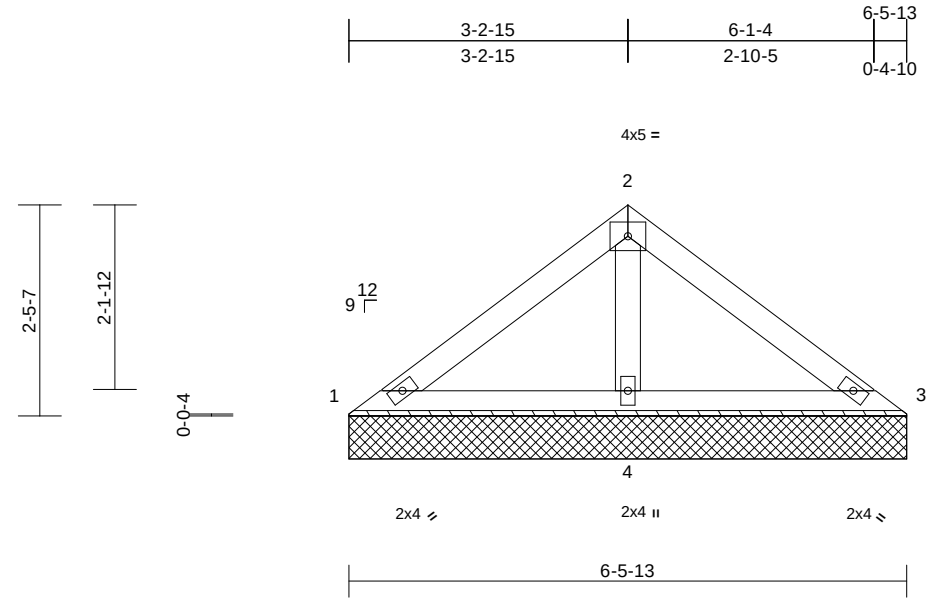

Scale = 1:26.8

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	0.09	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	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 23 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 6-5-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=50/6-5-13, 3=50/6-5-13, 4=419/6-5-13
Max Horiz 1=42 (LC 10)
Max Uplift 4=-69 (LC 11)
Max Grav 1=70 (LC 20), 3=70 (LC 21), 4=419 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-61/154, 2-3=-61/154
BOT CHORD 1-4=-126/70, 3-4=-126/70
WEBS 2-4=-283/76

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 4.

LOAD CASE(S) Standard

July 8,2021

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

Job	Truss	Truss Type	Qty	Ply	Rosemont V2-Roof
P-7862-1	V10	Valley	1	1	I46894782
					Job Reference (optional)

Peak Truss Builders, LLC (Closed), New Hill, NC - 27562,

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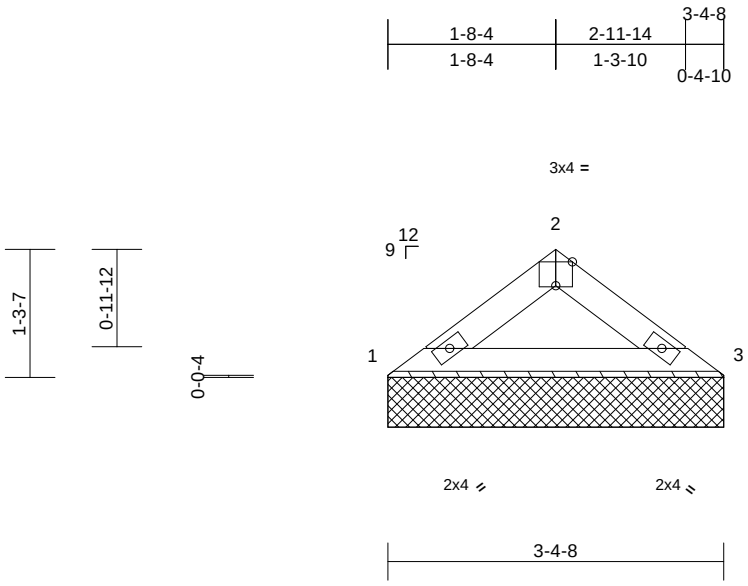


Scale = 1:23.2

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	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	IRC2015/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

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

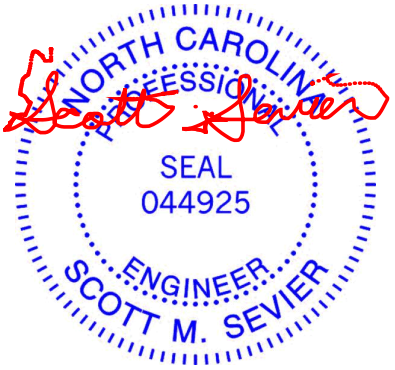
BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=135/3-4-8, 3=135/3-4-8
Max Horiz 1=-20 (LC 9)
Max Uplift 1=-17 (LC 11), 3=-17 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-185/29, 2-3=-185/29
BOT CHORD 1-3=-14/142

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1 and 17 lb uplift at joint 3.

LOAD CASE(S) Standard

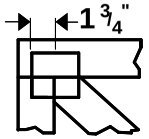


July 8,2021

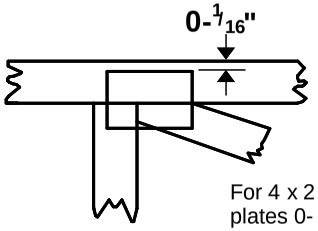
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

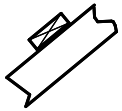
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

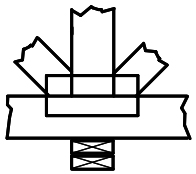
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

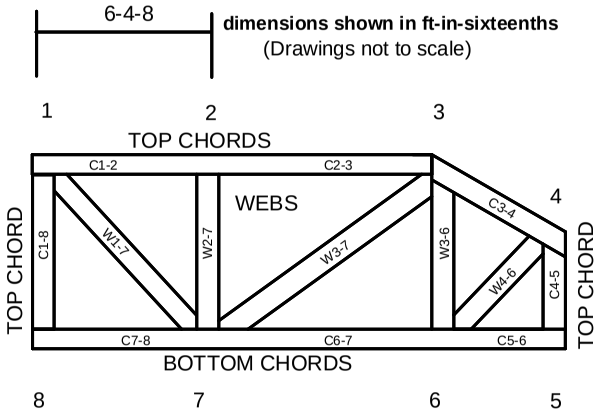


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek
ENGINEERING BY TRENCO
A MiTek Affiliate

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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