ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: PCK63
MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK

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

Pages or sheets covered by this seal: I57230638 thru I57230667

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844

March 17,2023

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	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	A01G	GABLE	1	1	I57230638

Job Reference (optional)

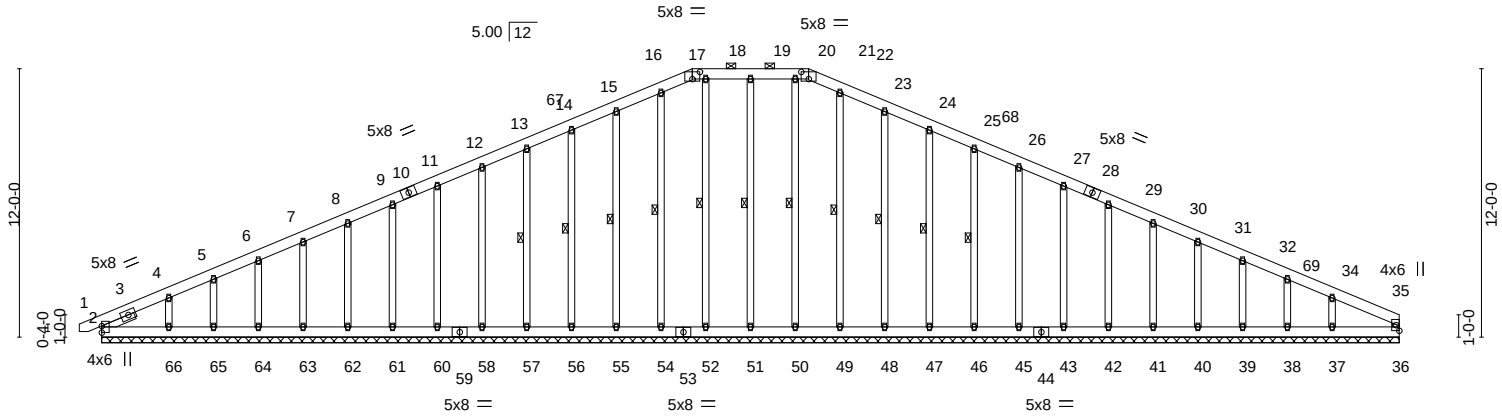
Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:13 2023 Page 1

ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-9NAXVLoHLzWg0cgC9hyntTxXT1NfQsbCQq3XM_zaJvu

-1-0-0 26-4-13 31-7-3 58-0-0

1-0-0 26-4-13 5-2-6 26-4-13

Scale = 1:103.0



58-0-0

58-0-0

Plate Offsets (X,Y)-- [17:0-4-0,0-3-13], [21:0-4-0,0-3-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.01	36	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 549 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-6-12

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.): 17-21.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 19-51, 18-52, 16-54, 15-55, 14-56, 13-57, 20-50, 22-49, 23-48, 24-47, 25-46

REACTIONS. All bearings 58-0-0.

(lb) - Max Horz 2=150(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 51, 55, 56, 57, 58, 60, 61, 62, 63, 64, 65, 66, 48, 47, 46, 45, 43, 42, 41, 40, 39, 38, 37

Max Grav All reactions 250 lb or less at joint(s) 36, 2, 51, 52, 54, 55, 56, 57, 58, 60, 61, 62, 63, 64, 65, 66, 50, 49, 48, 47, 46, 45, 43, 42, 41, 40, 39, 38, 37

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

TOP CHORD 13-14=-95/253, 14-15=-105/284, 15-16=-117/317, 16-17=-121/326, 17-18=-112/321, 18-19=-112/321, 19-20=-112/321, 20-21=-112/321, 21-22=-121/322, 22-23=-117/307, 23-24=-105/275

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-10 to 5-0-0, Exterior(2) 5-0-0 to 26-4-13, Corner(3) 26-4-13 to 37-4-13, Exterior(2) 37-4-13 to 57-10-4 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) 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 51, 55, 56, 57, 58, 60, 61, 62, 63, 64, 65, 66, 48, 47, 46, 45, 43, 42, 41, 40, 39, 38, 37.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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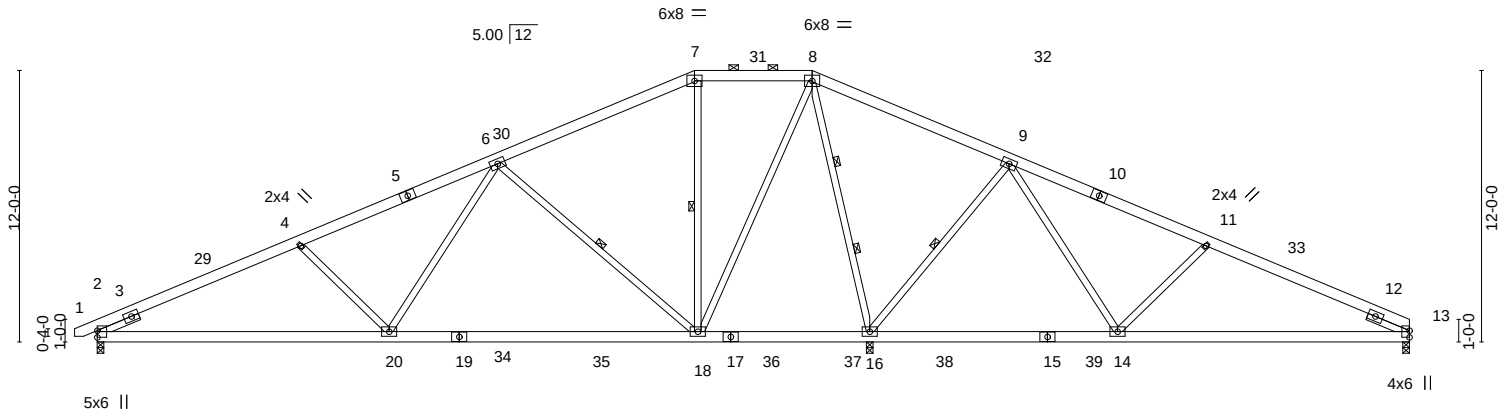
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230639
PCK63	A02	HIP	5	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:16 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-Zyrg7Nq9euuFt3PnqpWUV6ZxoED3d13f6oHBzJzaJvr

-1-0-0	8-11-15	17-8-6	26-4-13	31-7-3	40-3-10	49-0-1	58-0-0
1-0-0	8-11-15	8-8-7	8-8-7	5-2-6	8-8-7	8-8-7	8-11-15

Scale = 1:101.8



12-10-13	26-4-13	34-1-12	45-1-3	58-0-0
12-10-13	13-5-15	7-8-15	10-11-7	12-10-13

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.36	18-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.59	18-20	>698	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.04	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.06	18-20	>999	240	Weight: 416 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 8-16: 2x4 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-18, 7-18, 9-16 2 Rows at 1/3 pts 8-16

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 13=0-3-8
Max Horz 2=155(LC 16)
Max Uplift 2=-88(LC 12), 16=-28(LC 13), 13=-69(LC 13)
Max Grav 2=1245(LC 23), 16=2962(LC 2), 13=737(LC 24)

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

TOP CHORD	2-4=-2052/180, 4-6=-1713/148, 6-7=-485/157, 7-8=-338/182, 8-9=0/888, 9-11=-642/137, 11-13=-946/168
BOT CHORD	2-20=-234/1818, 18-20=-110/1131, 16-18=-329/200, 14-16=-289/117, 13-14=-76/873
WEBS	4-20=-470/197, 6-20=0/781, 6-18=-1063/221, 7-18=-277/90, 8-18=-102/1386, 8-16=-1957/117, 9-16=-1004/217, 9-14=0/796, 11-14=-546/196

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-10 to 4-11-15, Interior(1) 4-11-15 to 26-4-13, Exterior(2) 26-4-13 to 39-9-10, Interior(1) 39-9-10 to 58-0-0 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) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2, 16, 13.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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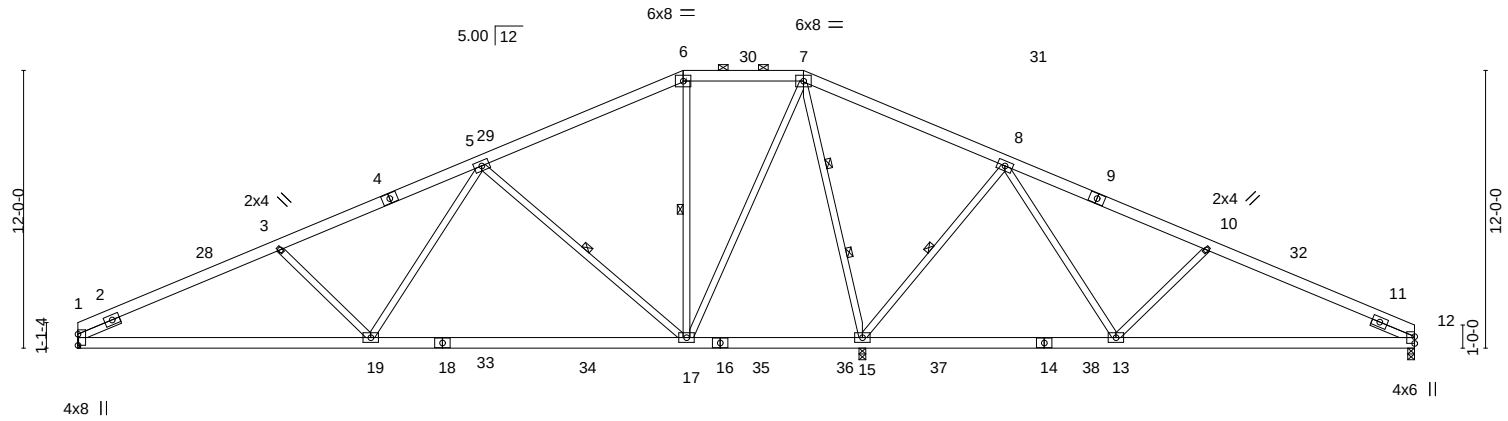
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	A03	HIP	1	1	I57230640
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:17 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-18P2LjrnPC06VD_zOX1j1J66SeYEMUAoLS1kVlzaJvq

8-8-15	17-5-6	26-1-13	31-4-3	40-0-10	48-9-1	57-9-0
8-8-15	8-8-7	8-8-7	5-2-6	8-8-7	8-8-7	8-11-15

Scale = 1:99.5



12-7-13	26-1-13	33-10-12	44-10-3	57-9-0
12-7-13	13-5-15	7-8-15	10-11-7	12-10-13

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.36	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.60	17-19	>683	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.04	15	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.06	17-19	>999	240	Weight: 412 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 7-15: 2x4 SP No.2
SLIDER	Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-5-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-17, 6-17, 8-15 2 Rows at 1/3 pts 7-15

REACTIONS. (size) 1=Mechanical, 15=0-3-8, 12=0-3-8
Max Horz 1=-148(LC 13)
Max Uplift 1=-75(LC 12), 15=-28(LC 13), 12=-69(LC 13)
Max Grav 1=1175(LC 23), 15=2979(LC 2), 12=732(LC 24)

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

TOP CHORD	1-3=-1973/175, 3-5=-1648/144, 5-6=-457/155, 6-7=-311/181, 7-8=0/923, 8-10=-630/138, 10-12=-934/169
BOT CHORD	1-19=-229/1741, 17-19=-108/1092, 15-17=-358/199, 13-15=-323/118, 12-13=-77/862
WEBS	3-19=-443/195, 5-19=0/753, 5-17=-1048/219, 6-17=-285/90, 7-17=-102/1390, 7-15=-1974/118, 8-15=-1005/217, 8-13=0/798, 10-13=-548/196

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-0 to 6-0-10, Interior(1) 6-0-10 to 26-4-13, Exterior(2) 26-4-13 to 39-9-10, Interior(1) 39-9-10 to 58-0-0 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) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 12.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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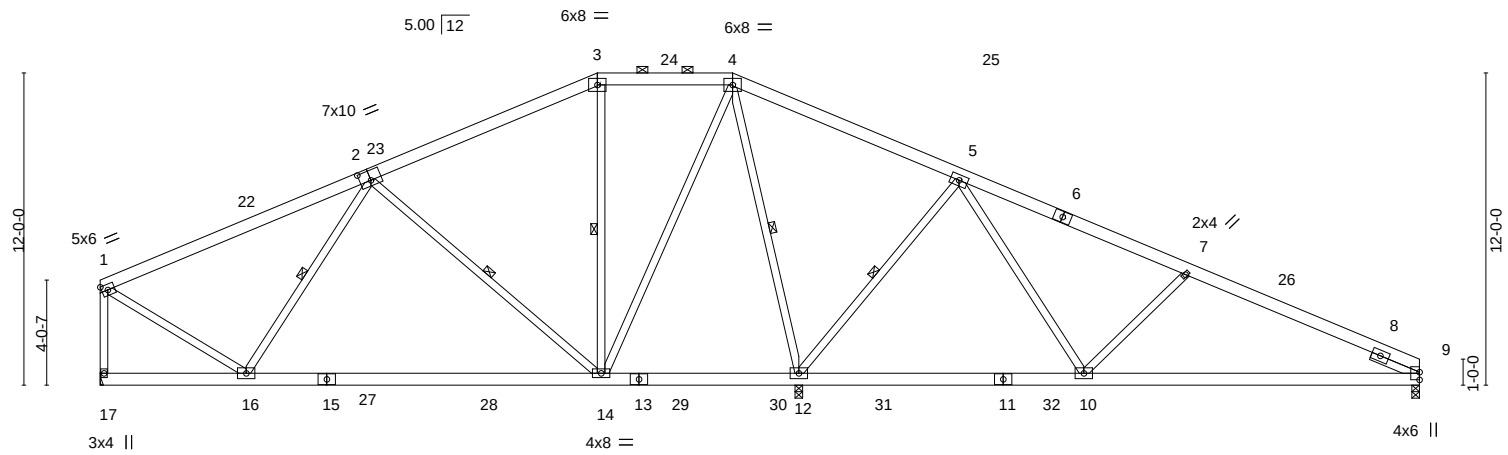
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	A04	HIP	1	1	I57230641
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:18 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-VKzQY3sQAV8z6NYAxEYyaXeFF2va5wkxZ6mI1BzaJvp

1-8-7	10-4-14	19-1-5	24-3-11	33-0-2	41-8-9	50-8-8
1-8-7	8-8-7	8-8-7	5-2-6	8-8-7	8-8-7	8-11-15

Scale = 1:88.6



5-7-5	19-1-5	26-10-4	37-9-11	50-8-8
5-7-5	13-5-15	7-8-15	10-11-7	12-10-13

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.29	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.51	14-16	>630	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.04	10-20	>999	240	Weight: 381 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-14.
WEBS 1 Row at midpt 2-16, 2-14, 3-14, 4-12, 5-12

REACTIONS. (size) 17=Mechanical, 12=0-3-8, 9=0-3-8
Max Horz 17=-151(LC 17)
Max Uplift 17=-66(LC 12), 12=-72(LC 13), 9=-55(LC 13)
Max Grav 17=1009(LC 23), 12=2398(LC 2), 9=819(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1021/66, 1-2=-910/85, 2-3=-597/170, 3-4=-435/193, 4-5=0/448, 5-7=-832/105, 7-9=-1128/137
BOT CHORD 14-16=-92/835, 10-12=0/295, 9-10=-48/1041
WEBS 1-16=0/886, 2-14=-564/183, 4-14=-54/962, 4-12=-1385/91, 5-12=-993/218, 5-10=0/768, 7-10=-523/198

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 7-5-4 to 13-2-14, Interior(1) 13-2-14 to 26-4-13, Exterior(2) 26-4-13 to 39-9-10, Interior(1) 39-9-10 to 58-0-0 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) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 12, 9.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230642
PCK63	A05	HIP	2	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:20 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-Sj5Azktgi7OgMhiY3faQfykb8rXXZsvE1PFO64zaJvn

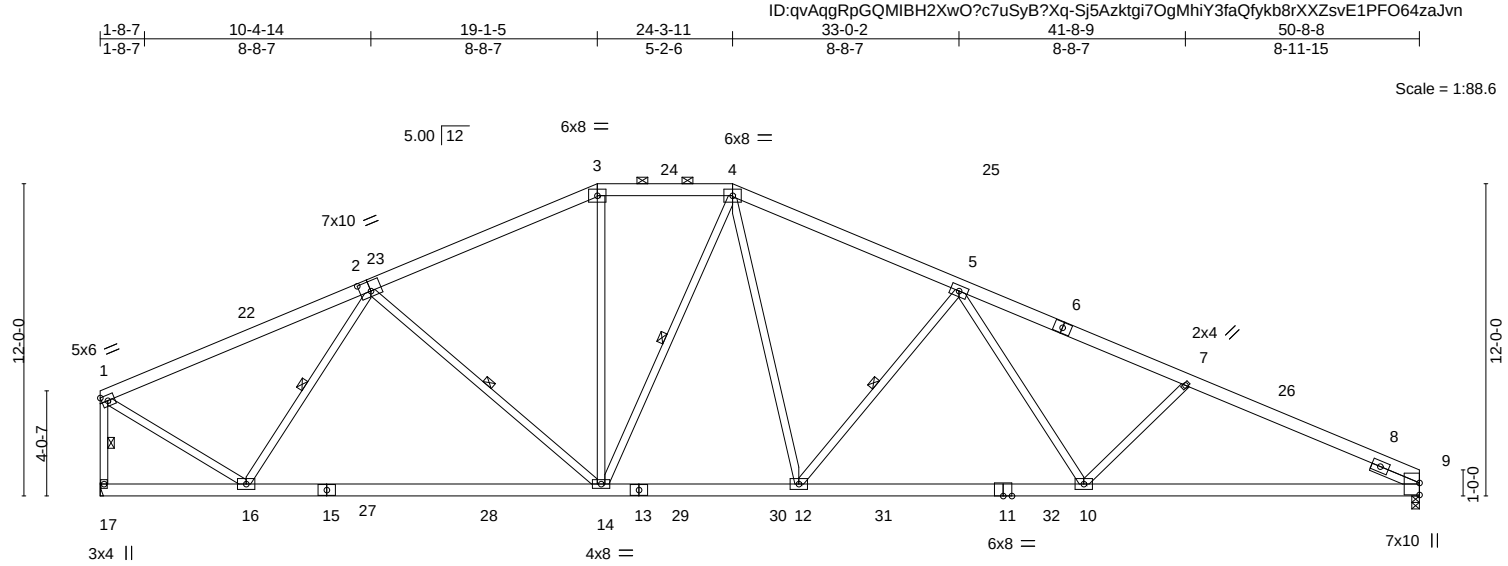

Plate Offsets (X,Y)-- [2:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.33	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.62	14-16	>981	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	10-12	>999	240	Weight: 381 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 6-9: 2x6 SP DSS
BOT CHORD	2x6 SP No.2 *Except* 9-11: 2x6 SP DSS
WEBS	2x4 SP No.3
SLIDER	Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-1 max.): 3-4.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 1-17, 2-16, 2-14, 4-14, 5-12

REACTIONS. (size) 17=Mechanical, 9=0-3-8
Max Horz 17=-151(LC 17)
Max Uplift 17=-49(LC 12), 9=-93(LC 13)
Max Grav 17=2062(LC 2), 9=2023(LC 1)

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

TOP CHORD	1-17=-2096/123, 1-2=-1991/126, 2-3=-2499/243, 3-4=-2219/262, 4-5=-2851/264, 5-7=-3672/208, 7-9=-3925/222
BOT CHORD	14-16=-70/2209, 12-14=0/2323, 10-12=-76/3056, 9-10=-126/3523
WEBS	1-16=-10/2075, 2-16=-971/182, 3-14=-10/619, 4-14=-451/142, 4-12=-79/1014, 5-12=-920/214, 5-10=0/619, 7-10=-381/195

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 7-5-4 to 13-2-14, Interior(1) 13-2-14 to 26-4-13, Exterior(2) 26-4-13 to 39-9-10, Interior(1) 39-9-10 to 58-0-0 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) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

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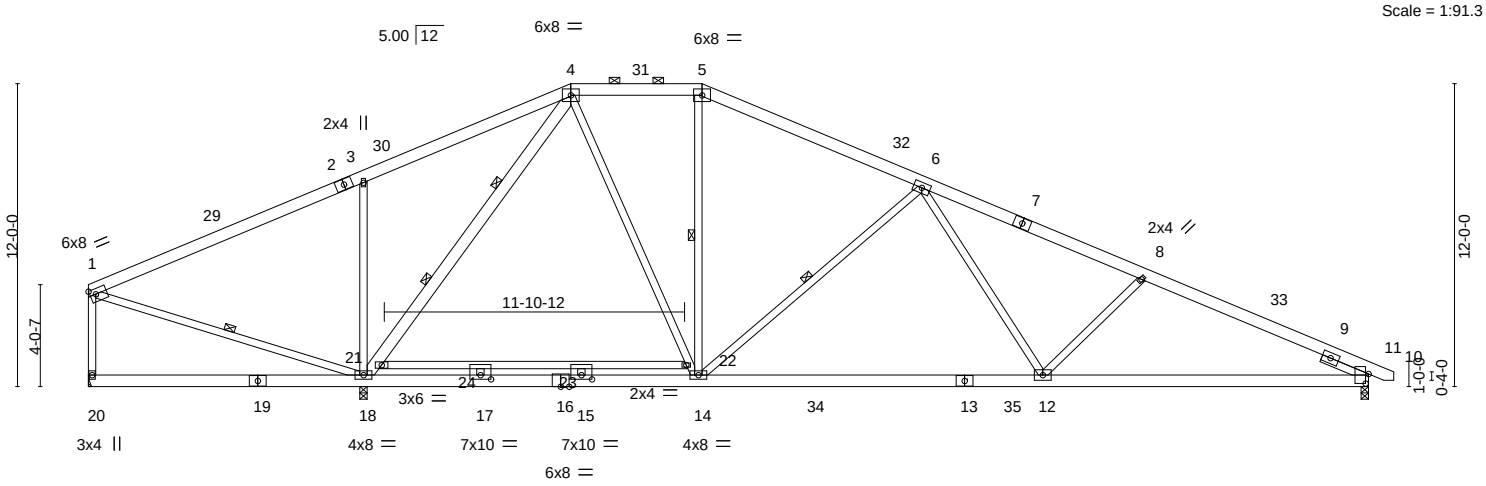
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	A06	HIP	8	1	I57230643
					Job Reference (optional)

Builders FirstSource, Apex, NC 8.630 s Mar 9 2023 MiTek Industries, Inc. Thu Mar 16 16:47:56 2023 Page 1
ID:qvAqgRpGQMlBH2XwO?c7uSyB?Xq-yx6QsCuQdg1UrR_KGdP8UuOGHyUdAF8YEpWtoTzaIbn

10-10-12	19-1-5	24-3-11	33-0-2	41-8-9	50-8-8	51-8-8
10-10-12	8-2-9	5-2-6	8-8-7	8-8-7	8-11-15	1-0-0

Scale = 1:91.3



10-10-12	15-6-6	19-6-6	24-3-11	37-9-11	50-8-8
10-10-12	4-7-10	4-0-0	4-9-6	13-5-15	12-10-13

Plate Offsets (X,Y)-- [1:Edge,0-2-8], [10:0-4-9,0-1-6], [15:0-5-0,0-2-0], [17:0-5-0,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.39	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.47	15-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.07	12-14	>999	240	Weight: 408 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP DSS *Except*
	19-20: 2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	4-18: 2x6 SP No.2, 4-14: 2x4 SP No.2
SLIDER	Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-18, 5-14, 6-14
	2 Rows at 1/3 pts 4-18

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

REACTIONS. (lb/size) 20=-83/Mechanical, 18=2673/0-3-8 (min. 0-3-6), 10=1503/0-3-8 (min. 0-1-12)
Max Horz 20=-160(LC 17)
Max Uplift 20=-304(LC 26), 18=-43(LC 12), 10=-101(LC 13)
Max Grav 20=108(LC 23), 18=2886(LC 2), 10=1503(LC 1)

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

TOP CHORD	1-20=-23/366, 1-29=-41/660, 2-29=-22/765, 2-3=0/780, 3-30=0/613, 4-30=0/717, 4-31=-1047/184, 5-31=-1047/184, 5-32=-1133/162, 6-32=-1230/126, 6-7=-2276/180, 7-8=-2370/158, 8-33=-2549/211, 9-33=-2634/177, 9-10=-1136/0
BOT CHORD	17-18=0/570, 16-17=0/570, 15-16=0/570, 14-15=0/570, 14-34=0/1764, 13-34=0/1764, 13-35=0/1764, 12-35=0/1764, 10-12=-107/2353
WEBS	1-18=-682/102, 3-18=-687/277, 18-21=-2040/72, 4-21=-2015/73, 4-22=-62/1241, 14-22=-63/1206, 5-14=-27/256, 6-14=-1030/223, 6-12=0/687, 8-12=-439/195

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-2-10, Interior(1) 5-2-10 to 19-1-5, Exterior(2) 19-1-5 to 31-5-12, Interior(1) 31-5-12 to 51-6-2 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) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 304 lb uplift at joint 20, 43 lb uplift at joint 18 and 101 lb uplift at joint 10.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) N/A
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

Continued on page 2

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Edenton, NC 27932

NOTES-

12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-5=-60, 5-11=-60, 20-25=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-50, 4-5=-50, 5-11=-50, 20-34=-20, 34-35=-50, 25-35=-20, 21-22=-30(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-20, 4-5=-20, 5-11=-20, 20-25=-40, 21-22=-40(F)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-29=22, 4-29=12, 4-5=20, 5-32=22, 10-32=12, 10-11=8, 20-25=-12
   Horz: 1-20=13, 1-29=-34, 4-29=-24, 5-32=34, 10-32=24, 10-11=20
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-30=12, 4-30=22, 4-5=20, 5-33=12, 10-33=22, 10-11=42, 20-25=-12
   Horz: 1-20=-24, 1-30=-24, 4-30=-34, 5-33=24, 10-33=34, 10-11=54
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-4=-32, 4-5=-29, 5-10=-32, 10-11=-27, 20-25=-20
   Horz: 1-20=-15, 1-4=12, 5-10=-12, 10-11=-7
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-4=-32, 4-5=-29, 5-10=-32, 10-11=-13, 20-25=-20
   Horz: 1-20=22, 1-4=12, 5-10=-12, 10-11=7
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-4=10, 4-5=19, 5-10=8, 10-11=4, 20-25=-12
   Horz: 1-20=13, 1-4=-22, 5-10=20, 10-11=16
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-4=8, 4-5=19, 5-10=10, 10-11=20, 20-25=-12
   Horz: 1-20=-16, 1-4=-20, 5-10=22, 10-11=32
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=-7, 4-5=2, 5-10=-8, 10-11=-4, 20-25=-20
    Horz: 1-20=21, 1-4=-13, 5-10=12, 10-11=16
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=-8, 4-5=2, 5-10=-7, 10-11=-2, 20-25=-20
    Horz: 1-20=-7, 1-4=-12, 5-10=13, 10-11=18
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=19, 4-31=19, 5-31=5, 5-10=5, 10-11=1, 20-25=-12
    Horz: 1-20=11, 1-4=-31, 5-10=17, 10-11=13
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=5, 4-31=5, 5-31=19, 5-10=19, 10-11=14, 20-25=-12
    Horz: 1-20=-15, 1-4=-17, 5-10=31, 10-11=26
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=9, 4-31=9, 5-31=2, 5-10=2, 10-11=-3, 20-25=-12
    Horz: 1-20=5, 1-4=-21, 5-10=14, 10-11=9
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=2, 4-31=2, 5-31=9, 5-10=9, 10-11=5, 20-25=-12
    Horz: 1-20=-12, 1-4=-14, 5-10=21, 10-11=17
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=2, 4-31=2, 5-31=-11, 5-10=-11, 10-11=-7, 20-25=-20
    Horz: 1-20=19, 1-4=-22, 5-10=9, 10-11=13
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=-11, 4-31=-11, 5-31=2, 5-10=2, 10-11=6, 20-25=-20
    Horz: 1-20=-6, 1-4=-9, 5-10=22, 10-11=26
18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
    Uniform Loads (plf)
    Vert: 1-4=-20, 4-5=-20, 5-11=-20, 20-34=-20, 34-35=-60, 25-35=-20, 21-22=-40(F)
19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-4=-40, 4-5=-34, 5-10=-41, 10-11=-38, 20-34=-20, 34-35=-50, 25-35=-20, 21-22=-30(F)
    Horz: 1-20=16, 1-4=-10, 5-10=9, 10-11=12

Continued on page 3

LOAD CASE(S)

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-41, 4-5=-34, 5-10=-40, 10-11=-37, 20-34=-20, 34-35=-50, 25-35=-20, 21-22=-30(F)
Horz: 1-20=-6, 1-4=-9, 5-10=10, 10-11=13

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-34, 4-31=-34, 5-31=-44, 5-10=-44, 10-11=-40, 20-34=-20, 34-35=-50, 25-35=-20, 21-22=-30(F)
Horz: 1-20=15, 1-4=-16, 5-10=6, 10-11=10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-44, 4-31=-44, 5-31=-34, 5-10=-34, 10-11=-30, 20-34=-20, 34-35=-50, 25-35=-20, 21-22=-30(F)
Horz: 1-20=-5, 1-4=-6, 5-10=16, 10-11=20

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 5-11=-20, 20-25=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 4-5=-60, 5-11=-60, 20-25=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-5=-50, 5-11=-20, 20-34=-20, 34-35=-50, 25-35=-20, 21-22=-30(F)

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 4-5=-50, 5-11=-50, 20-34=-20, 34-35=-50, 25-35=-20, 21-22=-30(F)

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	A07	HIP	2	1	I57230644
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:23 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-slmJbmwY_2mFD8R7kn87HaM323gumAbhjNU3jPzaJvk

10-10-12	19-1-5	24-3-11	33-0-2	41-8-9	50-8-8	51-8-8
10-10-12	8-2-9	5-2-6	8-8-7	8-8-7	8-11-15	1-0-0

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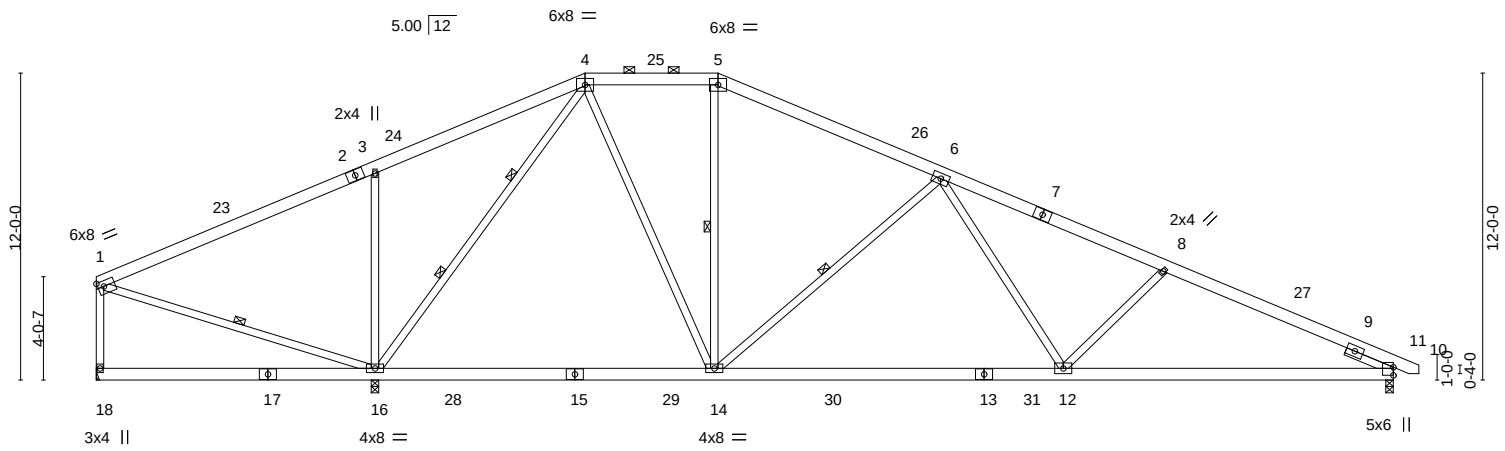

10-10-12	24-3-11	37-9-11	50-8-8
10-10-12	13-4-15	13-5-15	12-10-13

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.28	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.42	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	12-14	>999	240	Weight: 378 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 10-13,13-15: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 4-16: 2x4 SP SS, 4-14: 2x4 SP No.2
SLIDER	Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-16, 5-14, 6-14 2 Rows at 1/3 pts 4-16

REACTIONS. (size) 18=Mechanical, 16=0-3-8, 10=0-3-8
Max Horz 18=-160(LC 17)
Max Uplift 18=-258(LC 26), 16=-46(LC 12), 10=-102(LC 13)
Max Grav 18=132(LC 23), 16=2722(LC 2), 10=1512(LC 1)

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

TOP CHORD	1-18=-45/323, 1-3=-37/715, 3-4=0/653, 4-5=-1040/184, 5-6=-1223/162, 6-8=-2359/182, 8-10=-2654/213
BOT CHORD	14-16=0/610, 12-14=0/1756, 10-12=-109/2365
WEBS	1-16=-619/99, 3-16=-688/277, 4-16=-1928/69, 4-14=-60/1198, 6-14=-1028/224, 6-12=0/719, 8-12=-438/195

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 5-2-10, Interior(1) 5-2-10 to 19-1-5, Exterior(2) 19-1-5 to 31-5-12, Interior(1) 31-5-12 to 51-6-2 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) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 18=258, 10=102.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

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

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	A08G	GABLE	1	1	I57230645

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:26 2023 Page 1

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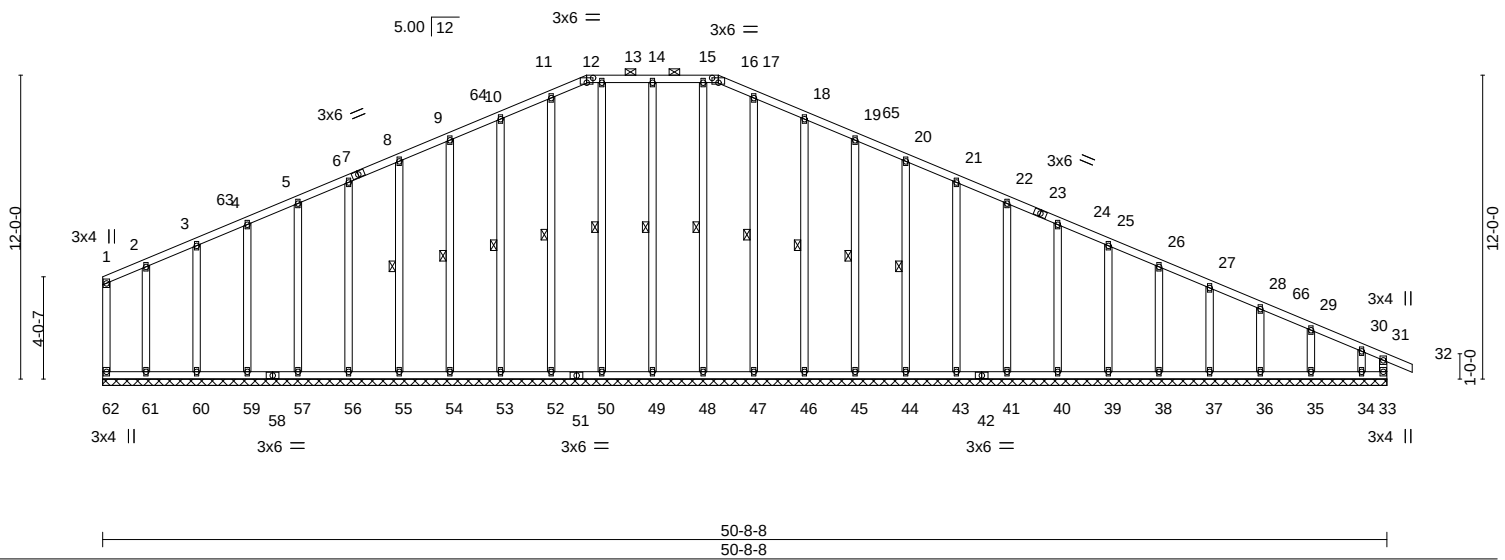
19-1-5 24-3-11 50-8-8 51-8-8

19-1-5 5-2-6 26-4-13 1-0-0

Scale = 1:91.0



50-8-8

50-8-8

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.00	32	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	32	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.01	33	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 430 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 12-16.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 14-49, 13-50, 11-52, 10-53, 9-54, 8-55, 15-48, 17-47, 18-46, 19-45, 20-44

REACTIONS. All bearings 50-8-8.

(lb) - Max Horz 62=-146(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 62, 33, 49, 53, 54, 55, 56, 57, 59, 60, 61, 46, 45, 44, 43, 41, 40, 39, 38, 37, 36, 35 except 34=-192(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 62, 33, 49, 50, 52, 53, 54, 55, 56, 57, 59, 60, 61, 48, 47, 46, 45, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34

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

TOP CHORD 9-10=-127/279, 10-11=-140/332, 11-12=-143/359, 12-13=-133/353, 13-14=-133/353, 14-15=-133/353, 15-16=-133/353, 16-17=-143/363, 17-18=-140/354, 18-19=-127/319, 19-20=-117/289, 20-21=-106/258

NOTES-

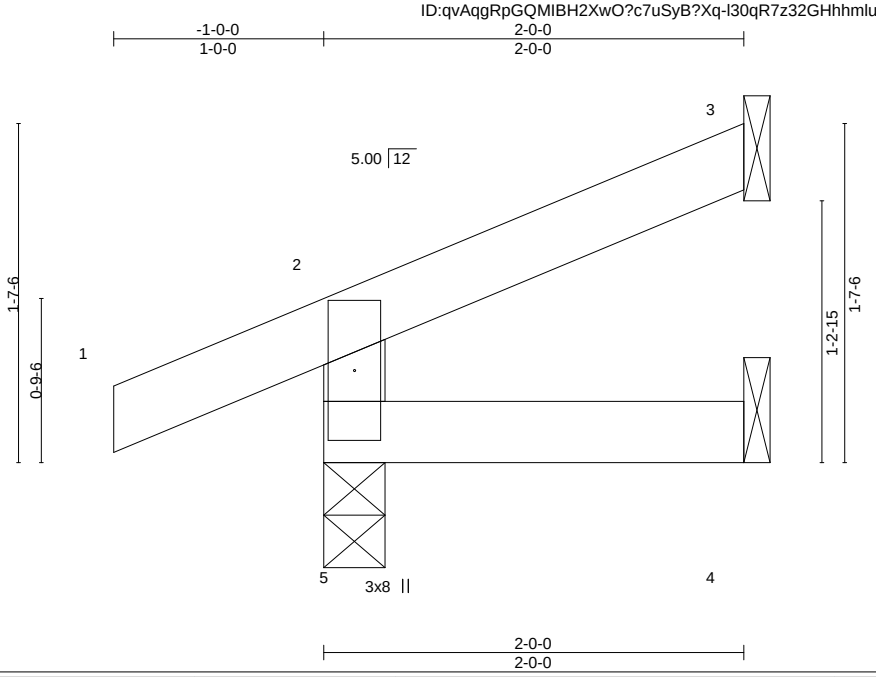
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 5-2-10, Exterior(2) 5-2-10 to 19-1-5, Corner(3) 19-1-5 to 29-4-9, Exterior(2) 29-4-9 to 51-8-8 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 62, 33, 49, 53, 54, 55, 56, 57, 59, 60, 61, 46, 45, 44, 43, 41, 40, 39, 38, 37, 36, 35 except (jt=lb) 34=192.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

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

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	B01	JACK	1	1	I57230646
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:27 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-l30qR7z32GHhhmluzdC3RQWwWg95iD3Ge?SGsAzaJvg



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.00	5	>999	240	Weight: 8 lb	FT = 20%

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

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=34(LC 9)
Max Uplift 5=-19(LC 8), 3=-22(LC 12)
Max Grav 5=168(LC 1), 3=41(LC 1), 4=34(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
6) Girder carries hip end with 0-0-0 right side setback, 0-0-0 left side setback, and 2-6-0 end setback.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-63(F=-3), 4-5=-21(F=-1)

March 17,2023

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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230647
PCK63	B02	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:28 2023 Page 1
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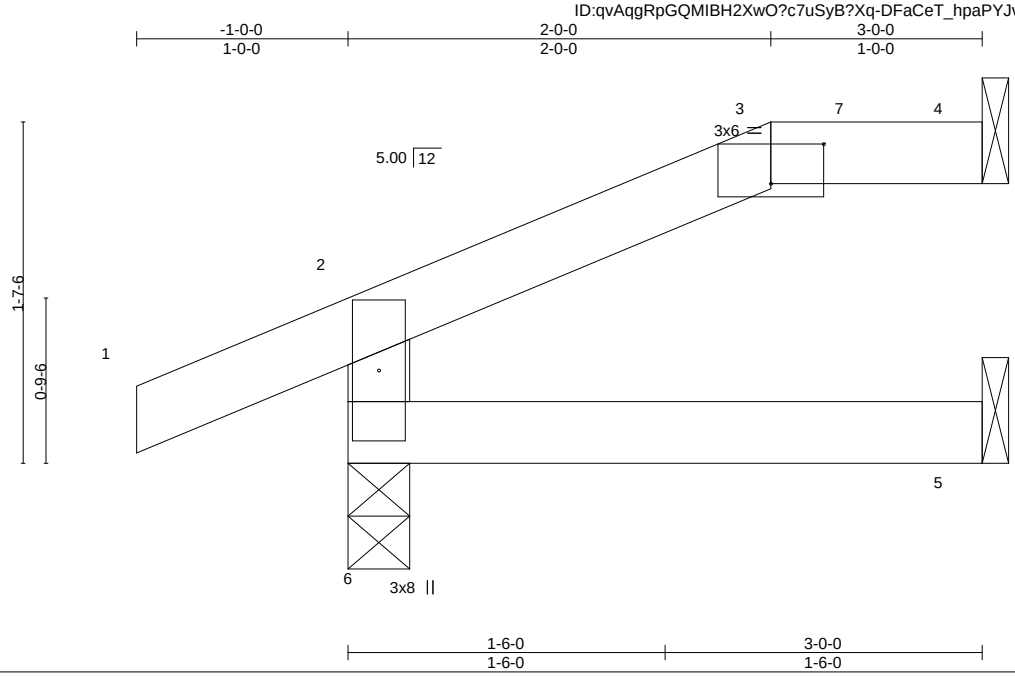

Plate Offsets (X,Y)-- [3:0-3-0,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.00	5-6	>999	240	Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 6=0-3-8, 5=Mechanical
Max Horz 6=32(LC 5)
Max Uplift 4=-22(LC 5), 6=-21(LC 4)
Max Grav 4=74(LC 1), 6=200(LC 1), 5=53(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6.
8) Girder carries hip end with 0-0-0 right side setback, 0-0-0 left side setback, and 2-6-0 end setback.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-63(F=-3), 3-4=-63(F=-3), 5-6=-21(F=-1)

March 17,2023

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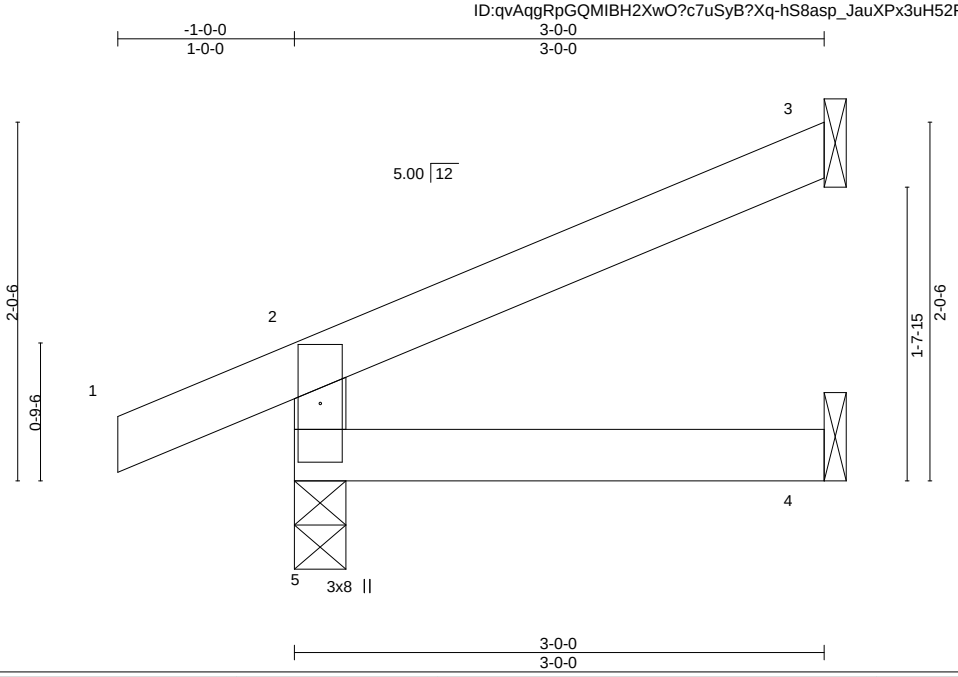
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230648
PCK63	B03	JACK	8	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:29 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-hS8asp_JauXPx3uH52FXWrcGsUquA7ZZ5JxNw2zaJve



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.00	4-5	>999	240	Weight: 12 lb	FT = 20%

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

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=43(LC 12)
Max Uplift 5=-14(LC 8), 3=-30(LC 12)
Max Grav 5=195(LC 1), 3=70(LC 1), 4=52(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.

March 17,2023

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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	B04GR	SPECIAL	1	2	I57230649

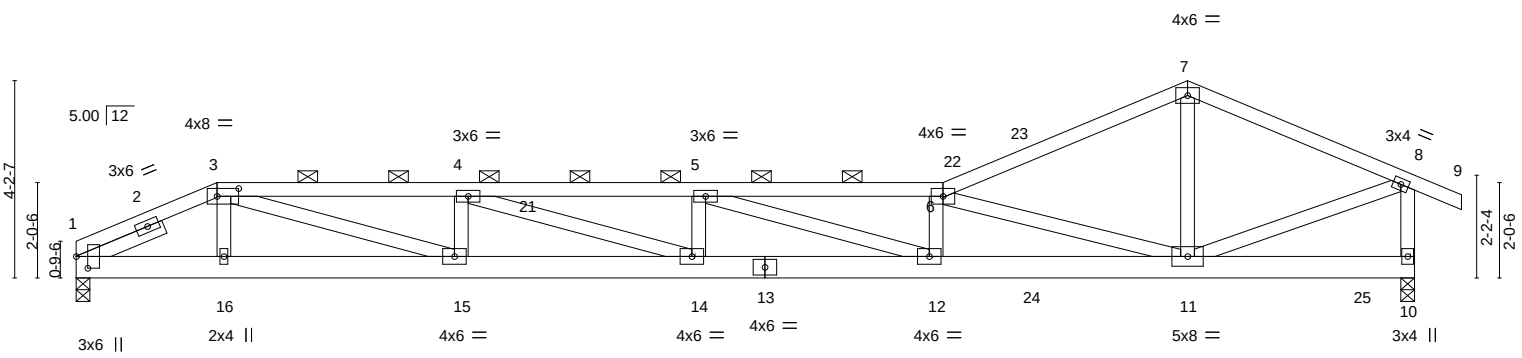
Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:30 2023 Page 1

ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-9ehy39?xLBfGZDTTemmm338KHt0KvTNiKzgwSVzaJvd

3-0-0	8-2-7	13-3-1	18-5-8	23-8-0	28-6-0	29-6-0
3-0-0	5-2-7	5-0-11	5-2-7	5-2-8	4-10-0	1-0-0

Scale = 1:49.1



3-0-0	8-2-7	13-3-1	18-5-8	23-8-0	28-6-0
3-0-0	5-2-7	5-0-11	5-2-7	5-2-8	4-10-0

Plate Offsets (X,Y)-- [1:0-3-0,0-2-15], [3:0-5-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.24	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.48	12-14	>715	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.17	12-14	>999	240	Weight: 335 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-3 max.): 3-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=45(LC 7)
Max Uplift 1=-75(LC 4), 10=-127(LC 4)
Max Grav 1=1358(LC 1), 10=2442(LC 1)

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

TOP CHORD	1-3=-2474/163, 3-4=-4808/335, 4-5=-5878/383, 5-6=-5330/284, 6-7=-1839/101, 7-8=-1833/104, 8-10=-1493/73
BOT CHORD	1-16=-127/2234, 15-16=-122/2233, 14-15=-305/4808, 12-14=-353/5878, 11-12=-257/5317
WEBS	3-15=-192/2703, 4-15=-733/123, 4-14=-51/1126, 5-12=-618/105, 7-11=-25/1073, 8-11=-33/1606, 6-11=-3858/240

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 10=127.
9) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1207 lb down and 100 lb up at 27-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

March 17,2023

Continued on page 2

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Edenton, NC 27932

LOAD CASE(S) Standard

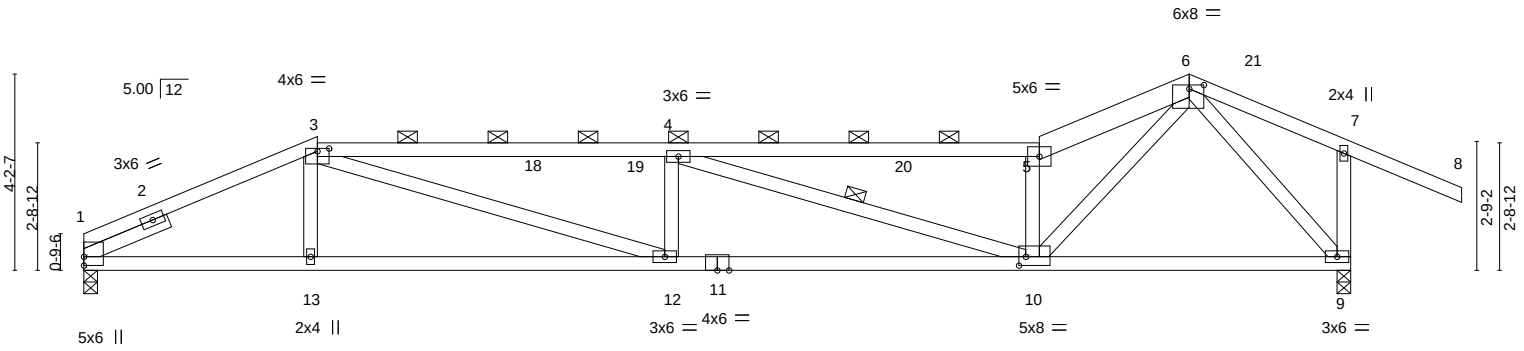
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-71(F=-11), 3-6=-71(F=-11), 6-23=-71(F=-11), 7-23=-60, 7-8=-60, 8-9=-60, 17-24=-24(F=-4), 10-24=-20
   Concentrated Loads (lb)
   Vert: 25=-1175(B)

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	B05	SPECIAL	1	1	I57230650
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:31 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-dqFKHV0Z6Vn6AN2fCTH?bGhQWHKweoasZdQU?xzaJvc

5-0-0	12-7-0	20-5-8	23-8-0	27-1-8	29-6-0
5-0-0	7-7-0	7-10-8	3-2-8	3-5-8	2-4-8

Scale = 1:49.3



5-0-0	12-7-0	20-5-8	27-1-8
5-0-0	7-7-0	7-10-8	6-8-0

Plate Offsets (X,Y)-- [3:0-3-0,0-0-12], [6:0-3-12,0-1-0], [10:0-1-12,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.20	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.44	12-13	>734	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.15	12	>999	240	Weight: 143 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	3-5: 2x4 SP SS, 5-6: 2x6 SP No.2
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-10

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=57(LC 11)
Max Uplift 1=-45(LC 8), 9=-43(LC 8)
Max Grav 1=1072(LC 1), 9=1237(LC 1)

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

TOP CHORD	1-3=-1958/165, 3-4=-3125/242, 4-5=-2231/146, 5-6=-2595/200, 7-9=-292/186
BOT CHORD	1-13=-105/1764, 12-13=-109/1761, 10-12=-186/3123, 9-10=-14/751
WEBS	5-10=-1388/165, 6-10=-141/2396, 6-9=-1163/44, 4-12=-279/135, 3-12=-125/1434, 4-10=-947/111

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 11-9-7, Interior(1) 11-9-7 to 23-8-0, Exterior(2) 23-8-0 to 29-6-0 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230651
PCK63	B06	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:33 2023 Page 1
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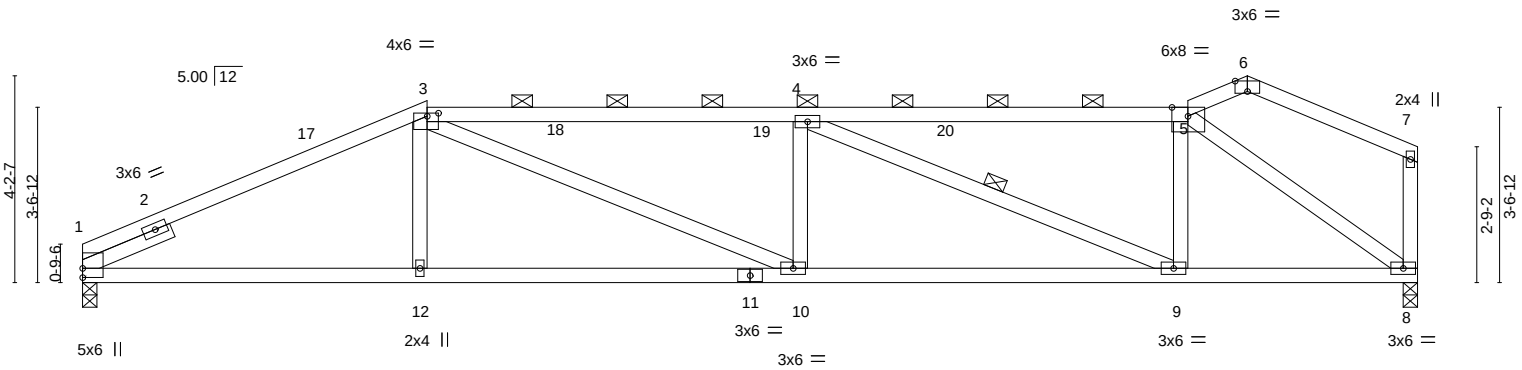
7-0-0	14-7-0	22-5-8	23-8-0	27-1-8
7-0-0	7-7-0	7-10-8	1-2-8	3-5-8

Scale = 1:46.8



7-0-0	14-7-0	22-5-8	27-1-8
7-0-0	7-7-0	7-10-8	4-8-0

Plate Offsets (X,Y)-- [3:0-2-12,0-0-12], [5:0-3-14,Edge], [6:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.14	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.33	10-12	>974	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.10	10-12	>999	240	Weight: 134 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1 *Except* 5-6,6-7: 2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-9

REACTIONS. (size) 1=0-3-8, 8=0-3-8
Max Horz 1=75(LC 11)
Max Uplift 1=-35(LC 8), 8=-44(LC 8)
Max Grav 1=1079(LC 1), 8=1079(LC 1)

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

TOP CHORD	1-3=-1925/153, 3-4=-2357/196, 4-5=-1306/113
BOT CHORD	1-12=-156/1718, 10-12=-159/1713, 9-10=-155/2355, 8-9=-93/1279
WEBS	3-12=0/253, 5-8=-1557/85, 5-9=0/592, 3-10=-78/701, 4-9=-1166/106

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 7-0-0, Exterior(2) 7-0-0 to 13-9-7, Interior(1) 13-9-7 to 23-8-0 , Exterior(2) 23-8-0 to 26-11-12 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

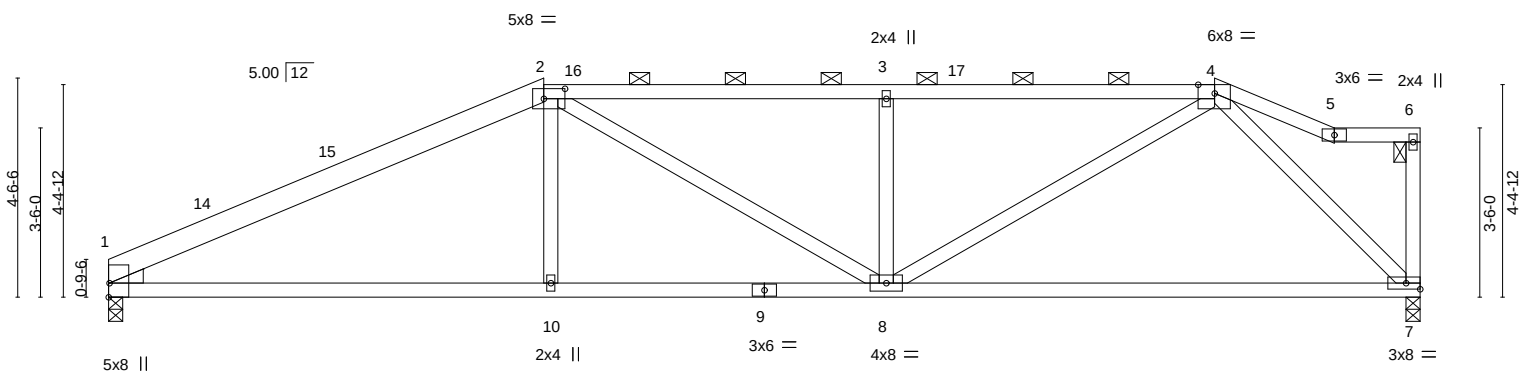
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	B07	SPECIAL	1	1	I57230652
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:34 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-1PxTvX2SPQ9h1qnEtbqiDvJyIVNIrC5IFbe8cGzaJvZ

9-0-0	16-1-0	22-10-8	25-4-3	27-1-8
9-0-0	7-1-0	6-9-8	2-5-11	1-9-5

Scale: 1/4"=1'



9-0-0	16-1-0	22-10-8	25-4-3	27-1-8
9-0-0	7-1-0	6-9-8	2-5-11	1-9-5

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.35	7-8	>918	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.73	7-8	>445	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.06	10-13	>999	240	Weight: 139 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-2: 2x6 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-10 max.): 2-4, 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 1=0-3-8
Max Horz 1=100(LC 11)
Max Uplift 7=-63(LC 9), 1=-22(LC 8)
Max Grav 7=1079(LC 1), 1=1079(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1864/147, 2-3=-1818/158, 3-4=-1820/159
BOT CHORD 1-10=-191/1630, 8-10=-188/1635, 7-8=-127/890
WEBS 2-10=0/266, 4-7=-1201/174, 3-8=-486/149, 2-8=-26/360, 4-8=-40/1119

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 9-0-0, Exterior(2) 9-0-0 to 16-1-0, Interior(1) 16-1-0 to 22-10-8, Exterior(2) 22-10-8 to 25-4-3, Interior(1) 25-4-3 to 26-11-12 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

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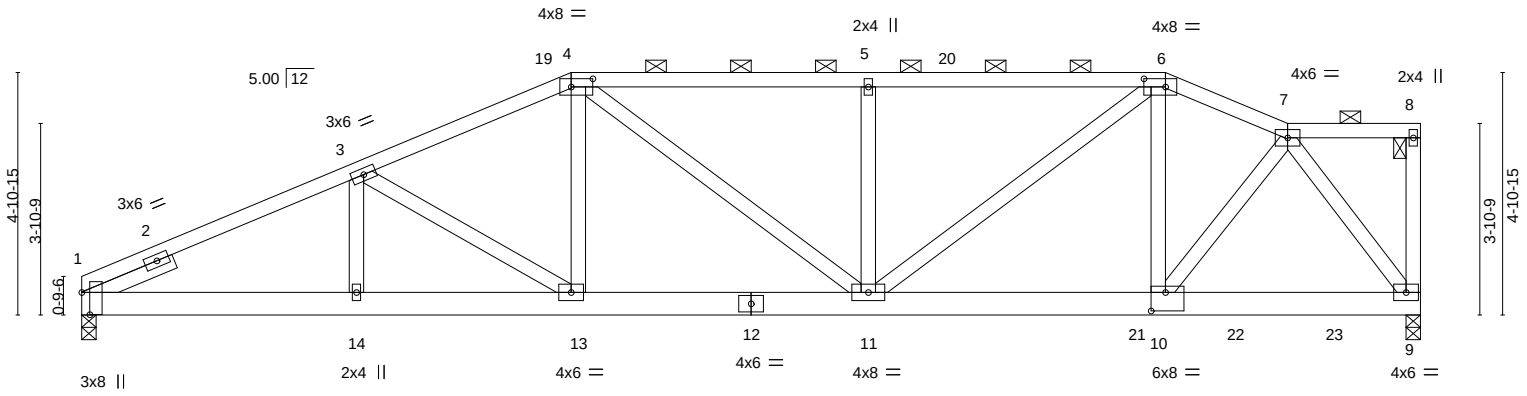
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230653
PCK63	B08GR	SPECIAL	1	3	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:35 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-WbVr6t349kHYf_MRRJLxm6rEeugDan2SUFOh8izaJvY

5-6-13	9-11-0	15-11-4	21-11-8	24-5-3	27-1-8
5-6-13	4-4-3	6-0-4	6-0-4	2-5-11	2-8-5

Scale = 1:46.7



5-6-13	9-11-0	15-11-4	21-11-8	27-1-8
5-6-13	4-4-3	6-0-4	6-0-4	5-2-0

Plate Offsets (X,Y)-- [1:0-5-6,0-1-15], [4:0-5-4,0-2-0], [6:0-5-4,0-2-0], [10:0-3-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.07	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.15	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	11-13	>999	240	Weight: 525 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-11-12

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.): 4-6, 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=109(LC 7)
Max Uplift 1=-153(LC 4), 9=-481(LC 5)
Max Grav 1=2695(LC 1), 9=6007(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-5014/328, 3-4=-4782/363, 4-5=-5421/452, 5-6=-5421/452, 6-7=-5875/485
BOT CHORD 1-14=-341/4557, 13-14=-341/4557, 11-13=-343/4408, 10-11=-456/5481, 9-10=-313/3579
WEBS 4-13=-25/751, 4-11=-133/1396, 5-11=-406/130, 6-11=-453/166, 6-10=-183/2257, 7-10=-232/3083, 7-9=-5906/480

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=153, 9=481.
9) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2119 lb down and 175 lb up at 21-4-8, and 2119 lb down and 175 lb up at 23-4-8, and 1037 lb down and 86 lb up at 25-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

March 17,2023

Continued on page 2

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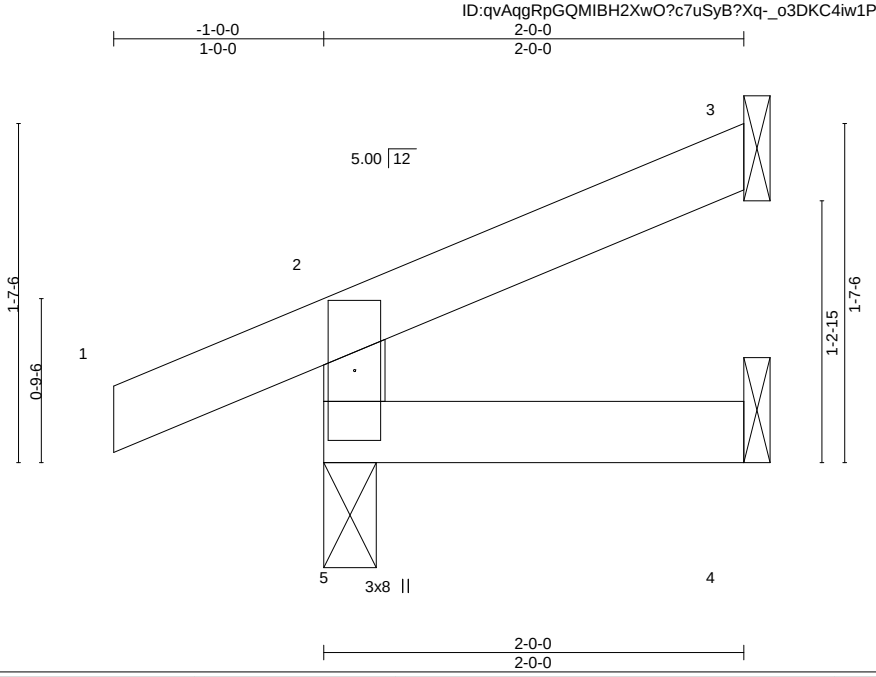
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-6=-60, 6-7=-60, 7-8=-60, 15-21=-86(F=-66), 9-21=-20
   Concentrated Loads (lb)
   Vert: 21=-2062(F) 22=-2062(F) 23=-1009(F)

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230654
PCK63	P01	JACK	4	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:36 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-_o3DKC4iw1PPH8xd?0tAIKOTFIECJIIbiv7Fg8zaJvX



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.00	5	>999	240	Weight: 8 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 5=0-3-0, 4=Mechanical
Max Horz 5=32(LC 5)
Max Uplift 3=-20(LC 8), 5=-19(LC 4)
Max Grav 3=38(LC 1), 5=164(LC 1), 4=33(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.

March 17,2023

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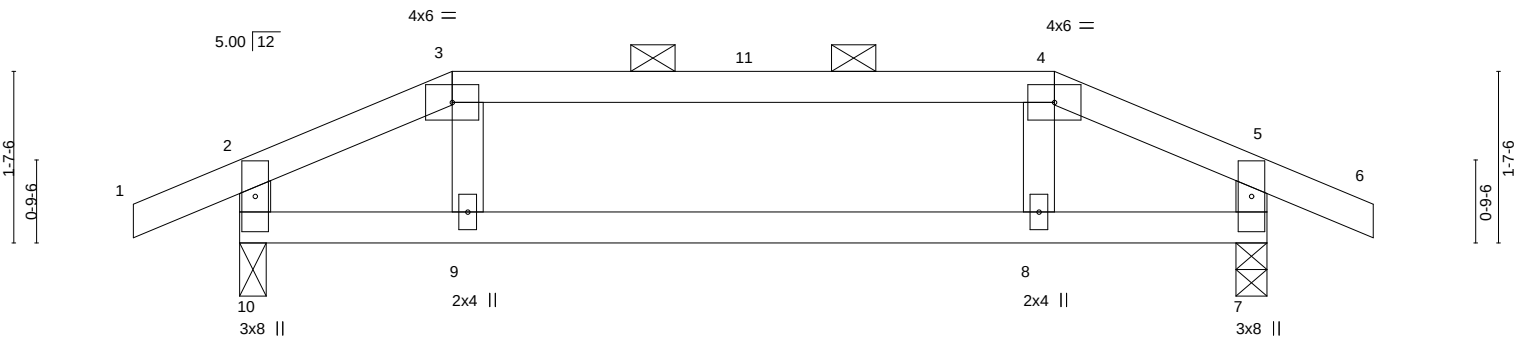
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	P02GR	HIP	1	1	I57230655
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:36 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-_o3DKC4iw1PPH8xd?0tAIKOL7I8HJITbiv7Fg8zaJvX

-1-0-0	2-0-0	4-10-0	7-8-0	9-8-0	10-8-0
1-0-0	2-0-0	2-10-0	2-10-0	2-0-0	1-0-0

Scale = 1:21.7



2-0-0	4-10-0	7-8-0	9-8-0
2-0-0	2-10-0	2-10-0	2-0-0

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.62	Vert(LL)	-0.03	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.41	Vert(CT)	-0.09	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.05	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.02	8-9	>999	240	Weight: 37 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 10=0-3-0
Max Horz 10=-13(LC 6)
Max Uplift 7=-43(LC 5), 10=-43(LC 4)
Max Grav 7=463(LC 1), 10=463(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-558/34, 3-4=-473/33, 4-5=-558/34, 5-7=-387/38, 2-10=-387/38
BOT CHORD 9-10=-12/471, 8-9=-5/473, 7-8=-12/471

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10.
7) Girder carries hip end with 0-0-0 right side setback, 0-0-0 left side setback, and 2-6-0 end setback.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-63(F=-3), 3-4=-63(F=-3), 4-5=-63(F=-3), 5-6=-60, 7-10=-21(F=-1)

March 17,2023

ENGINEERING BY TRENCO
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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230656
PCK63	P03	HIP	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:38 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-wAA_Iu5ySff7WS406RveOlTik6oEnCvuADcLl1zaJvV

-1-0-0 4-0-0 5-8-0 8-3-12 9-8-0 10-8-0
1-0-0 4-0-0 1-8-0 2-7-12 1-4-4 1-0-0

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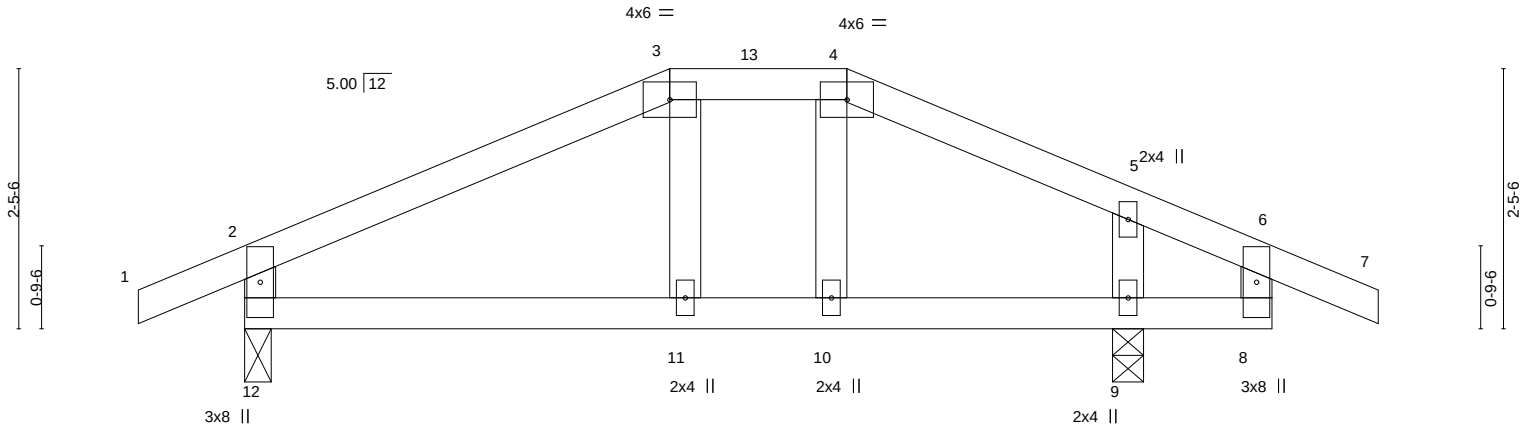

4-0-0 5-8-0 8-3-12 9-8-0
4-0-0 1-8-0 2-7-12 1-4-4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.04	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.08	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.03	11-12	>999	240	Weight: 41 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-3-0, 9=0-3-8
Max Horz 12=14(LC 12)
Max Uplift 12=-33(LC 12), 9=-44(LC 9)
Max Grav 12=378(LC 1), 9=509(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-304/127, 2-3=-284/55, 4-5=-283/65
WEBS 5-9=-292/142

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 9.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

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

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	PB01	PIGGYBACK	21	1	I57230657
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:39 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-ONkMyE6bDyn_8cfCg9Qtwy0_6WFTWe11PtMvHTzaJvU

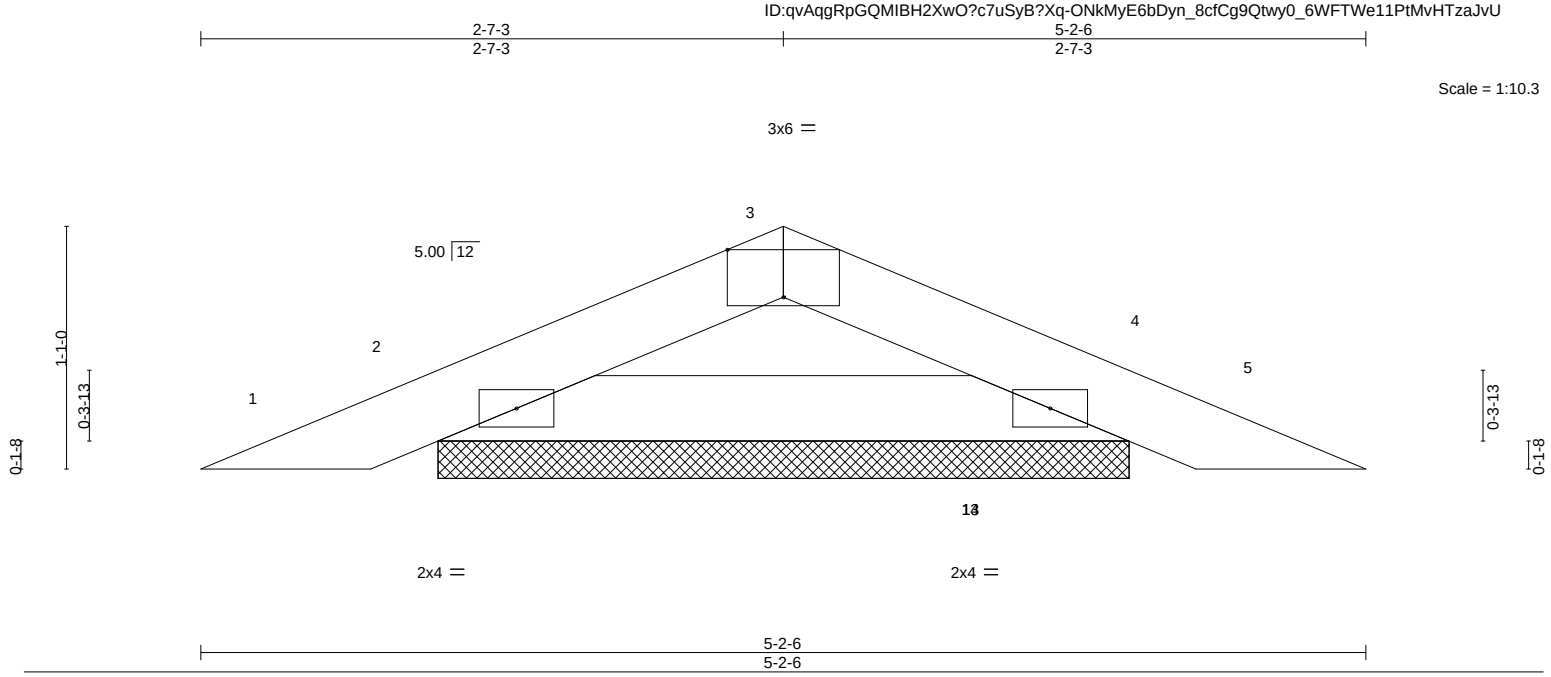

Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-1-0.
(lb) - Max Horz 2=12(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 4
Max Grav All reactions 250 lb or less at joint(s) 2, 4, 2, 4

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 2, 4.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

March 17,2023

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	SP01G	GABLE	1	1	I57230658
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:40 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-sZIk9a7D_GvrllEOEsx6TAZ8Fvb8F5mBdX5SpwzaJvT

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1-0-0 6-0-0 6-0-0 1-0-0

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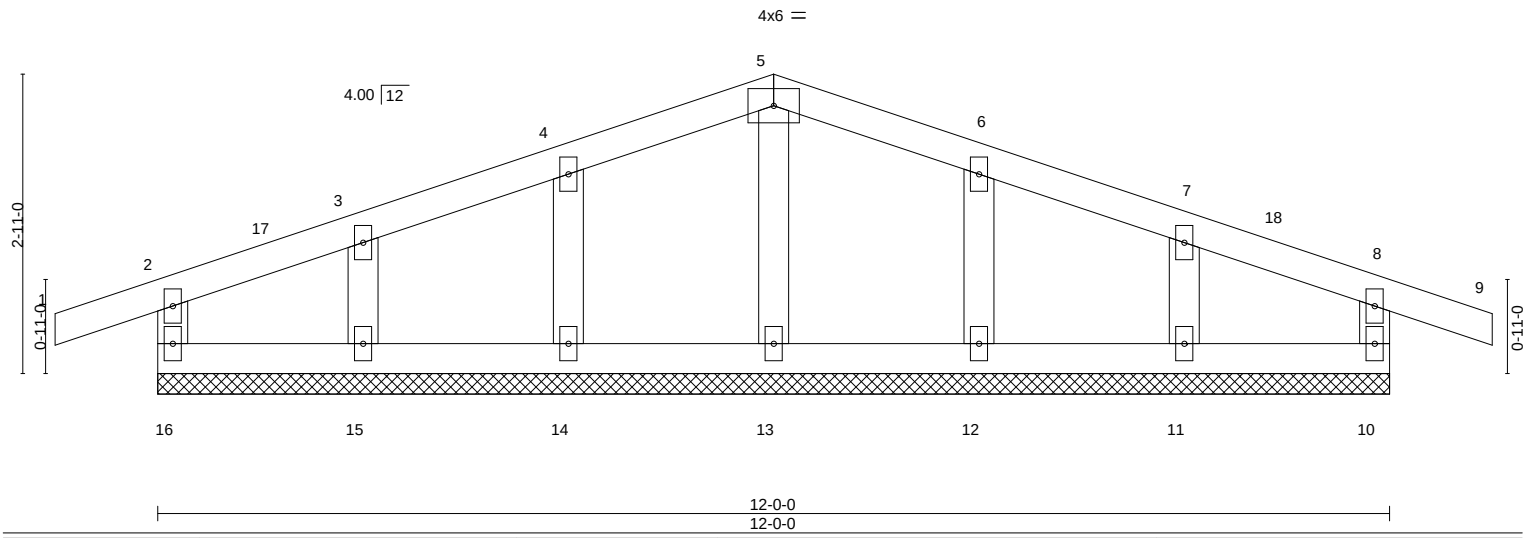

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 53 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 16=14(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 4-0-0, Exterior(2) 4-0-0 to 6-0-0, Corner(3) 6-0-0 to 10-9-10, Exterior(2) 10-9-10 to 13-0-0 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 requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.

March 17,2023

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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230659
PCK63	SP02	COMMON	4	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:41 2023 Page 1
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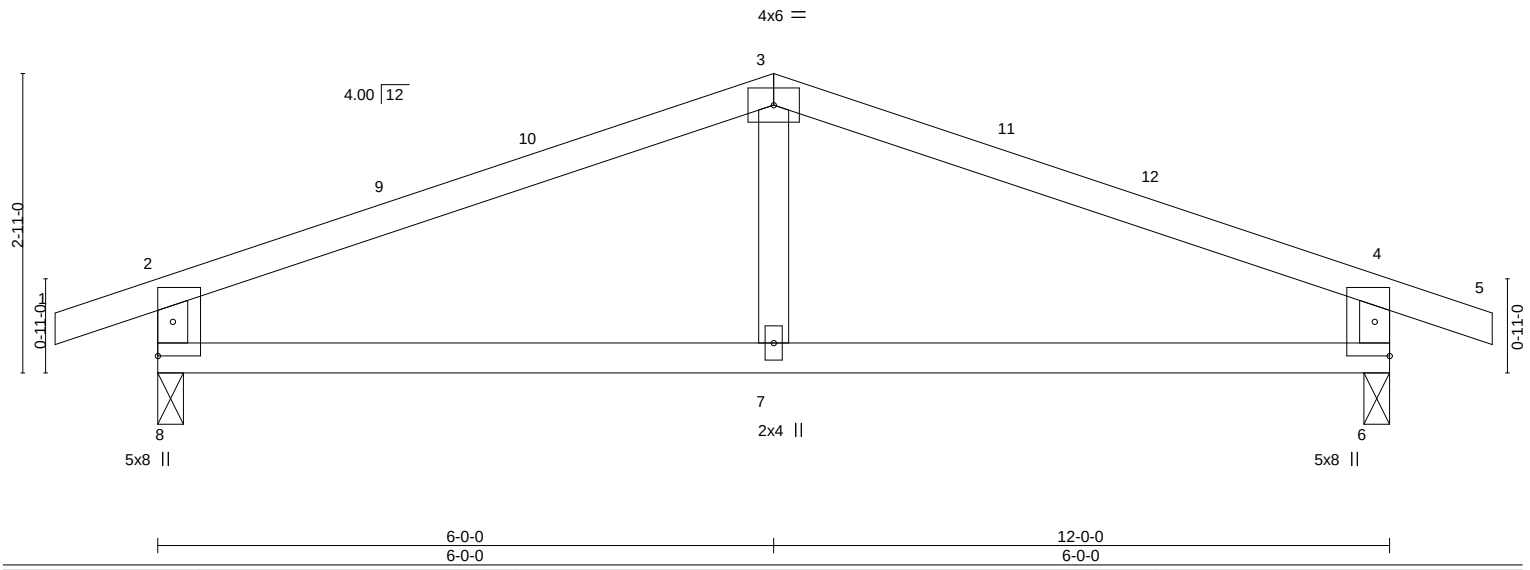
Scale = 1:22.4



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.04	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.10	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.02	7-8	>999	240	Weight: 45 lb	FT = 20%

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

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

REACTIONS. (size) 8=0-3-0, 6=0-3-0
Max Horz 8=21(LC 12)
Max Uplift 8=-58(LC 8), 6=-58(LC 9)
Max Grav 8=537(LC 1), 6=537(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-461/149, 2-3=-623/97, 3-4=-623/97, 4-6=-460/149
BOT CHORD 7-8=-36/526, 6-7=-36/526

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 3-9-10, Interior(1) 3-9-10 to 6-0-0, Exterior(2) 6-0-0 to 13-0-0 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

March 17,2023

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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230660
PCK63	V01G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:42 2023 Page 1
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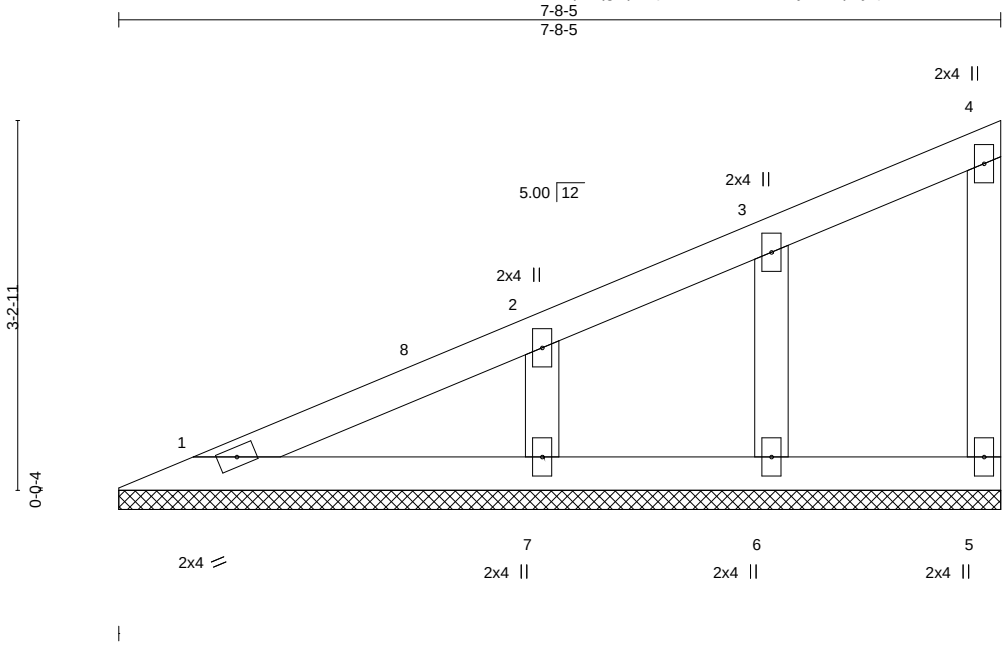

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 31 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 7-8-5.
(lb) - Max Horz 1=94(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-8-2 to 5-8-5, Exterior(2) 5-8-5 to 7-6-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 5, 6, 7.

March 17,2023

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230661
PCK63	V02	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:43 2023 Page 1
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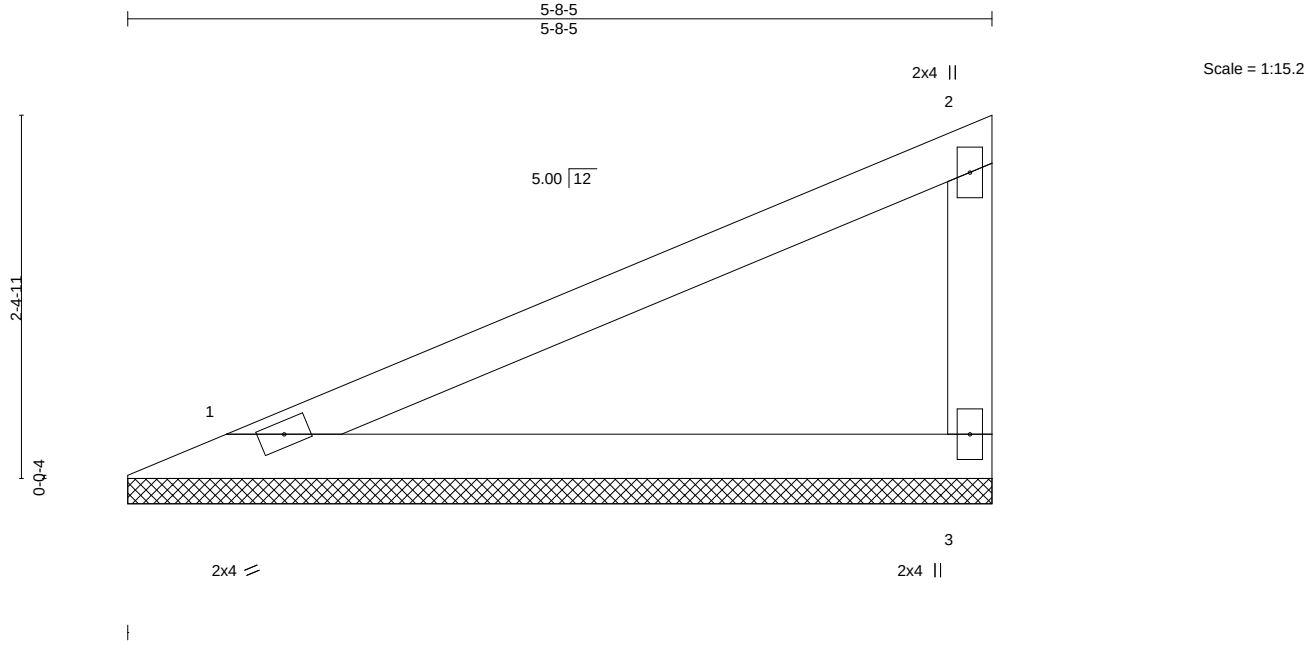

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-8-5, 3=5-8-5
Max Horz 1=67(LC 9)
Max Uplift 1=-10(LC 12), 3=-23(LC 12)
Max Grav 1=195(LC 1), 3=195(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 4-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 3.

March 17,2023

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	V03	GABLE	1	1	I57230662
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:43 2023 Page 1
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3-8-5
3-8-5

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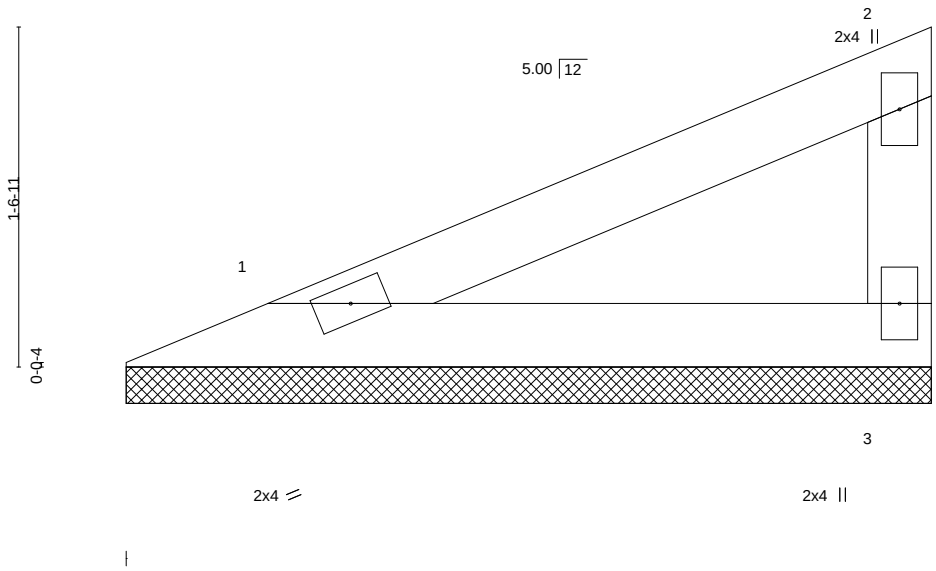

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-8-5, 3=3-8-5
Max Horz 1=39(LC 9)
Max Uplift 1=-6(LC 12), 3=-14(LC 12)
Max Grav 1=115(LC 1), 3=115(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 4-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 3.

March 17,2023

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK I57230663
PCK63	V04	HIP TRUSS	1	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:44 2023 Page 1
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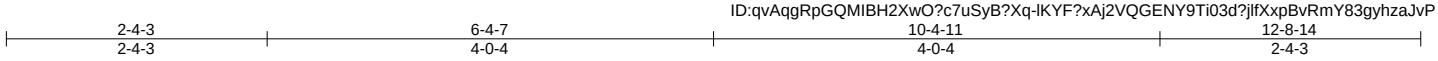

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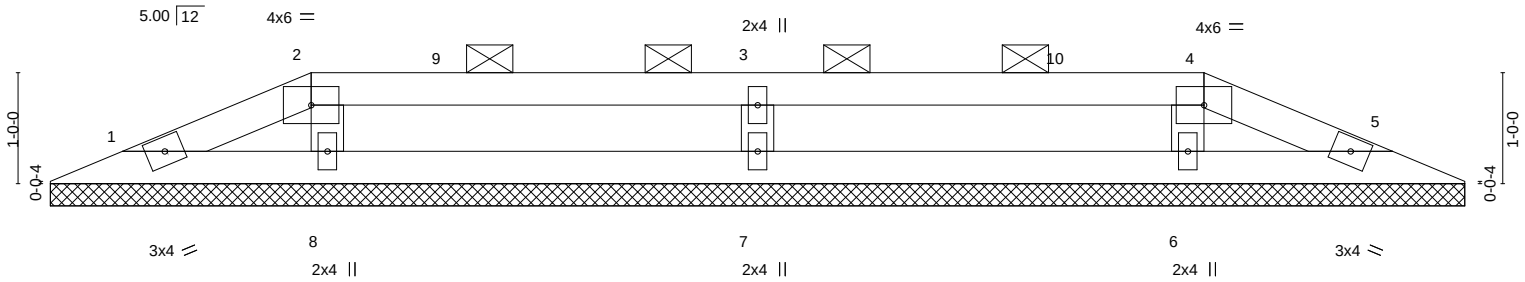
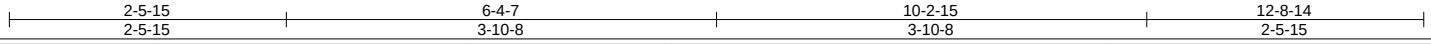




LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 38 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 2-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 12-8-14.
(lb) - Max Horz 1=9(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8, 6 except 7=362(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-280/110

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-2 to 9-1-10, Interior(1) 9-1-10 to 10-4-11, Exterior(2) 10-4-11 to 12-0-12 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 5, 8, 6, 7.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

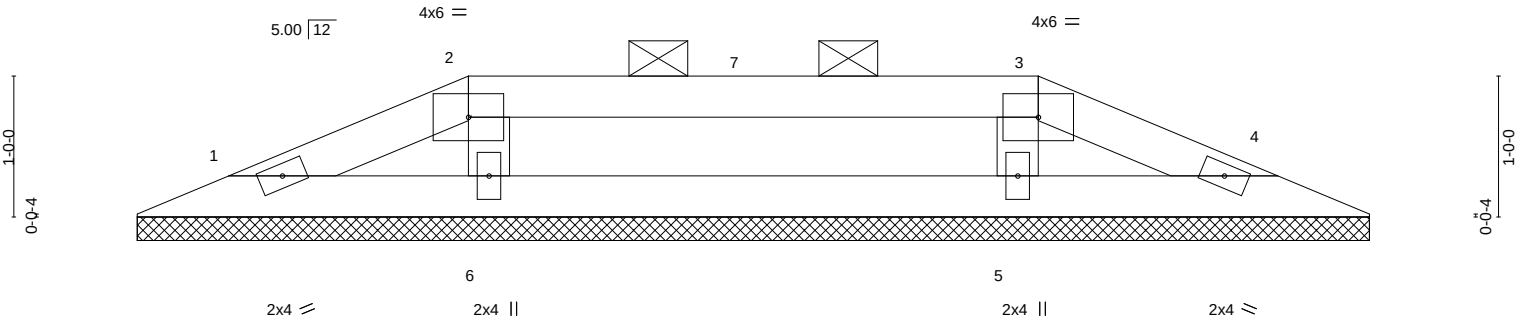
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	V05	HIP TRUSS	1	1	I57230664
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:45 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-DX5dDHBLpoY7sX7M1PXIADGxywGgwMywnopDU7zaJvO

2-4-3 (2-4-3) | 6-4-11 (4-0-8) | 8-8-14 (2-4-3)

Scale = 1:16.3



2-5-15 (2-5-15) | 6-2-15 (3-9-0) | 8-8-14 (2-5-15)

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 26 lb	FT = 20%

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

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

REACTIONS. All bearings 8-8-14.
(lb) - Max Horz 1=9(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 6, 5
Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 6=252(LC 23), 5=252(LC 24)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 4, 6, 5.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 17,2023

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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	V06	KINGPOST	1	1	I57230665
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:46 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-hjf?QdC_a6g_TghYa72XiQpA1KbIfpm30SYm1ZzaJvN

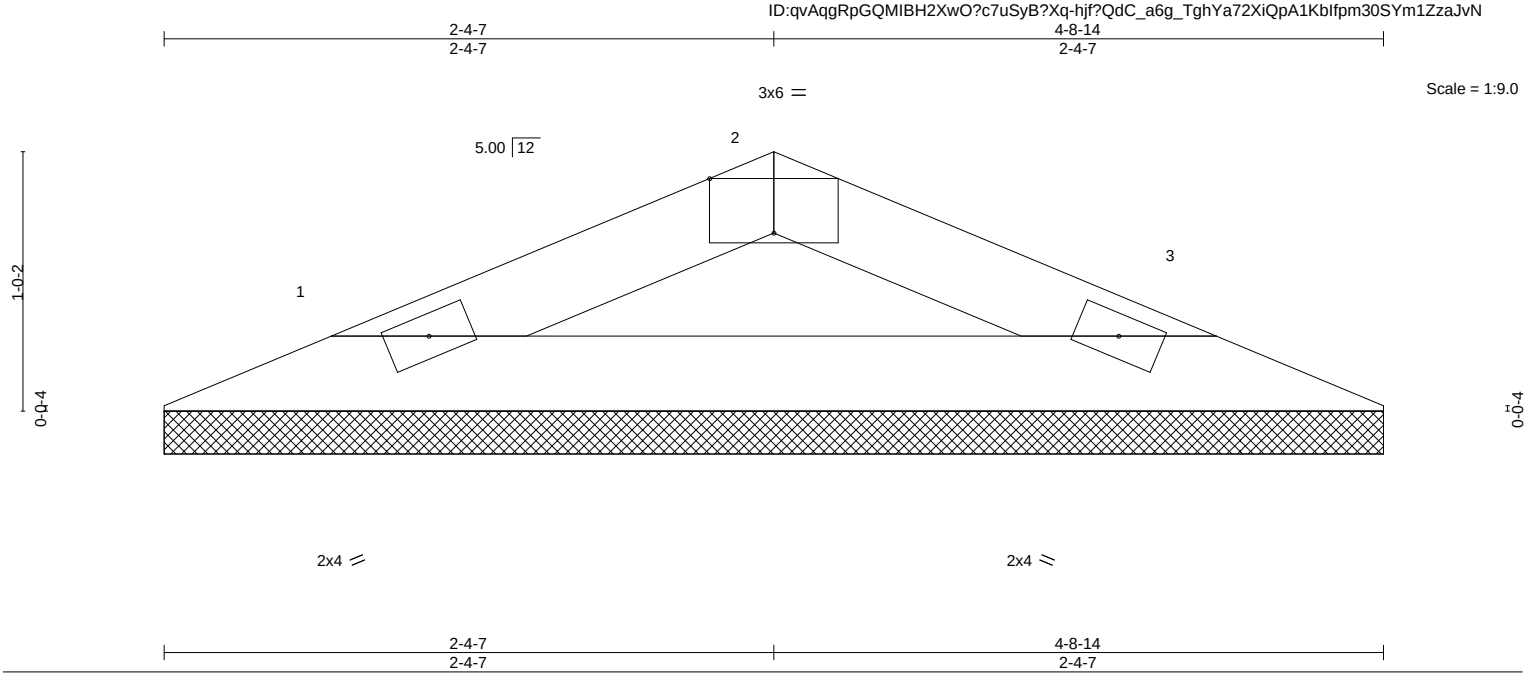

Plate Offsets (X,Y)-- [2:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	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	0.24	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-8-14, 3=4-8-14
Max Horz 1=9(LC 12)
Max Uplift 1=-5(LC 12), 3=-5(LC 13)
Max Grav 1=135(LC 1), 3=135(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

March 17,2023

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TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	V07	GABLE	1	1	I57230666
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:47 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-9vDOdzCcLQor5qGk8qZmFeLJ?kyAOGQDE6IKZ0zaJvM

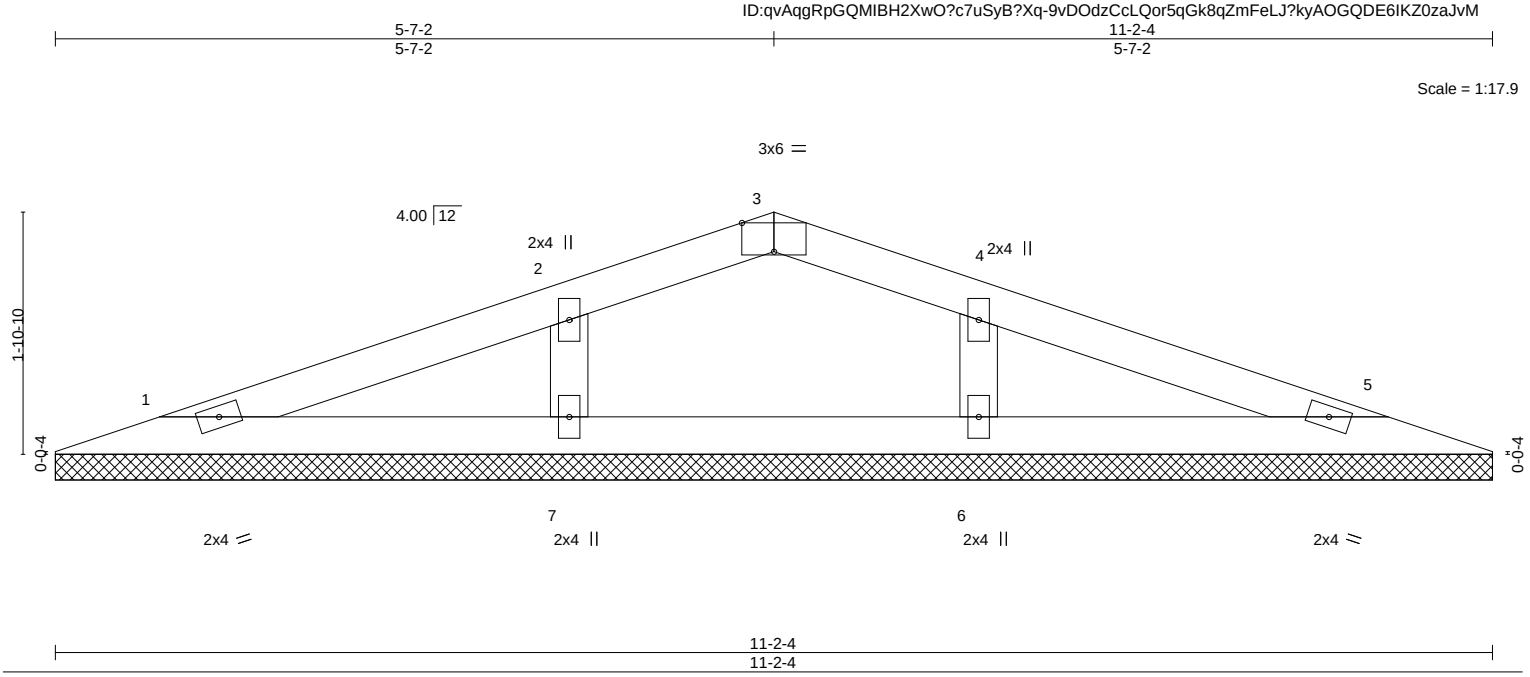

Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	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	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
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. All bearings 11-2-4.
(lb) - Max Horz 1=-21(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=270(LC 1), 7=270(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6, 7.

March 17,2023

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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/CASCADE; LOT 63 PROVIDENCE CREEK
PCK63	V08	GABLE	1	1	I57230667
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 15:18:48 2023 Page 1
ID:qvAqgRpGQMIBH2XwO?c7uSyB?Xq-d6nmrJDE6jwij_rxiX4?oruVS8EY7jGMTm1t5SzaJvL

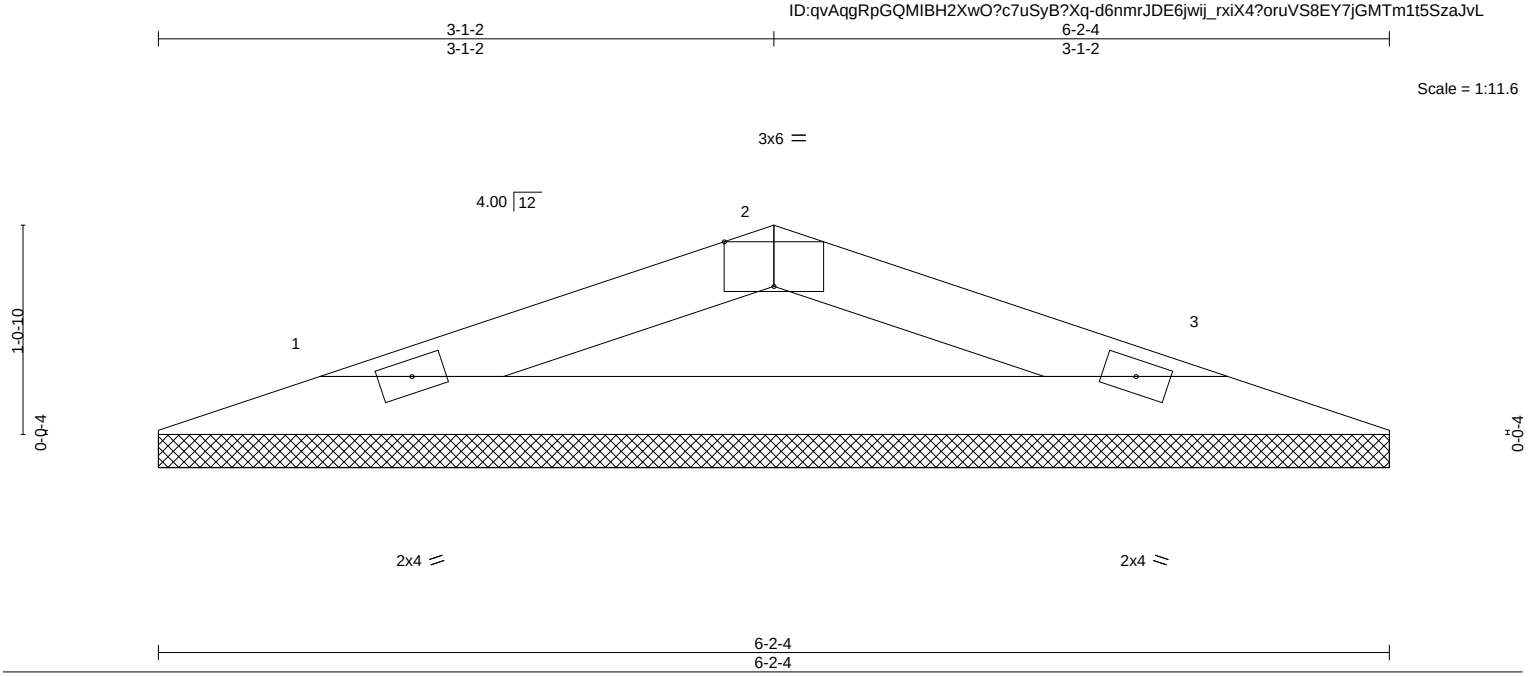

Plate Offsets (X,Y)-- [2:0-3-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	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	0.45	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 16 lb	FT = 20%

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

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

REACTIONS. (size) 1=6-2-4, 3=6-2-4
Max Horz 1=10(LC 12)
Max Uplift 1=-9(LC 8), 3=-9(LC 9)
Max Grav 1=181(LC 1), 3=181(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

March 17,2023

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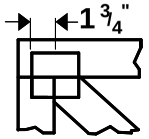
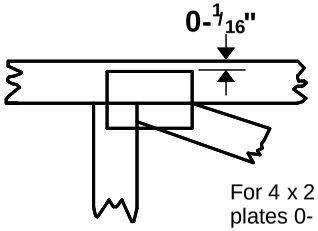
Symbols

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.

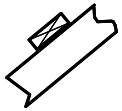
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

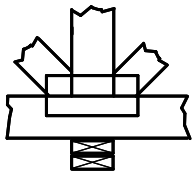
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

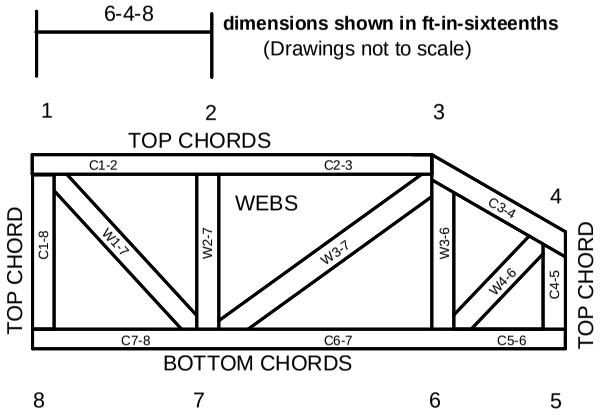


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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