

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: AC1018-R
McKee-PalazzoCOL;Lot 1018 AndersonCreek

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: I44656059 thru I44656109

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

North Carolina COA: C-0844



February 3, 2021

Johnson, Andrew

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

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	A07GT	GABLE	1	1	144656061

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:29 2021 Page 1
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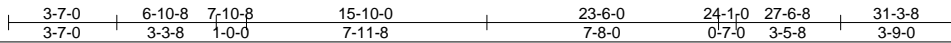
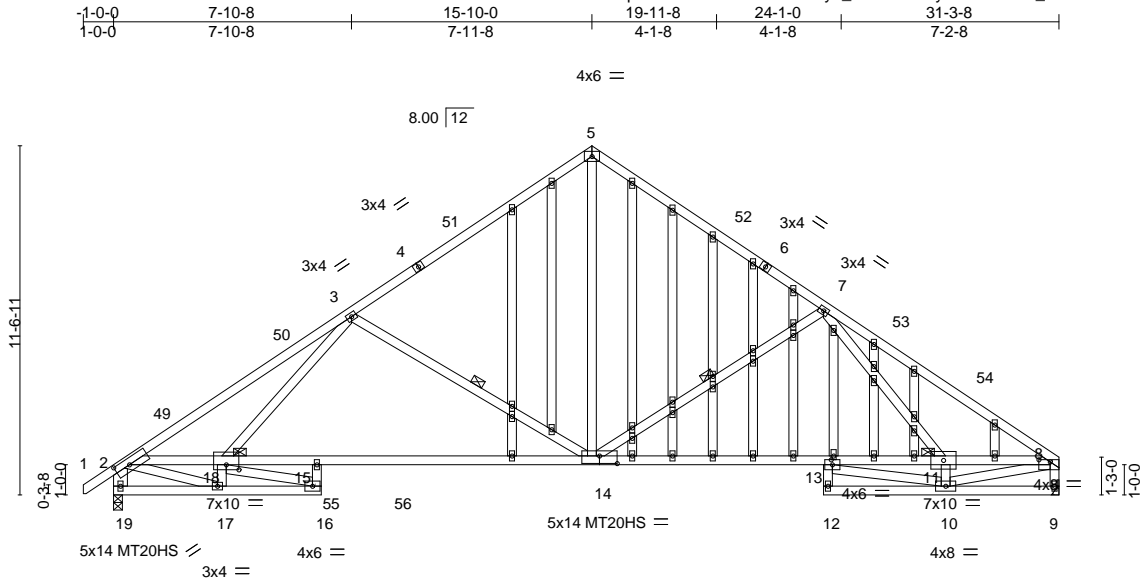


Plate Offsets (X,Y)-- [2:0-5-15,0-2-8], [8:0-4-8,0-0-14], [13:0-1-8,0-1-0], [14:0-7-0,0-3-0], [18:0-5-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.97	Vert(LL) -0.23 14-15 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.36	Vert(CT) -0.51 14-15 >733 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.14 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.09 14-15 >999 240	Weight: 307 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 2-14: 2x4 SP No.1, 12-13: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-19: 2x6 SP No.2	WEBS 1 Row at midpt 3-14, 7-14
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 18, 11

REACTIONS. (size) 19=0-3-8, 9=Mechanical
 Max Horz 19=311(LC 9)
 Max Uplift 19=74(LC 12), 9=49(LC 13)
 Max Grav 19=1311(LC 1), 9=1232(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-19=-1336/217, 2-3=-2459/104, 3-5=-1299/246, 5-7=-1319/260, 7-8=-2088/122, 8-9=-1225/158
 BOT CHORD 17-19=-315/516, 16-17=-642/0, 2-18=0/2498, 15-18=-148/1619, 14-15=-137/1637, 13-14=-114/1434, 11-13=0/1502, 8-11=0/1905
 WEBS 3-14=-752/208, 5-14=-98/910, 10-13=-458/0, 7-14=-598/192, 17-18=0/417, 2-17=-907/74, 16-18=0/700, 3-18=0/877, 10-11=0/481, 8-10=-535/0, 7-11=0/650

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-8 to 2-0-8, Interior(1) 2-0-8 to 15-10-0, Exterior(2) 15-10-0 to 20-0-15, Interior(1) 20-0-15 to 31-0-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. This connection is for uplift only and does not consider lateral forces.



Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek	144656062
AC1018-R	A08GR	TRIPLE FINK	1	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523,

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5x8 =

Scale = 1:73.6

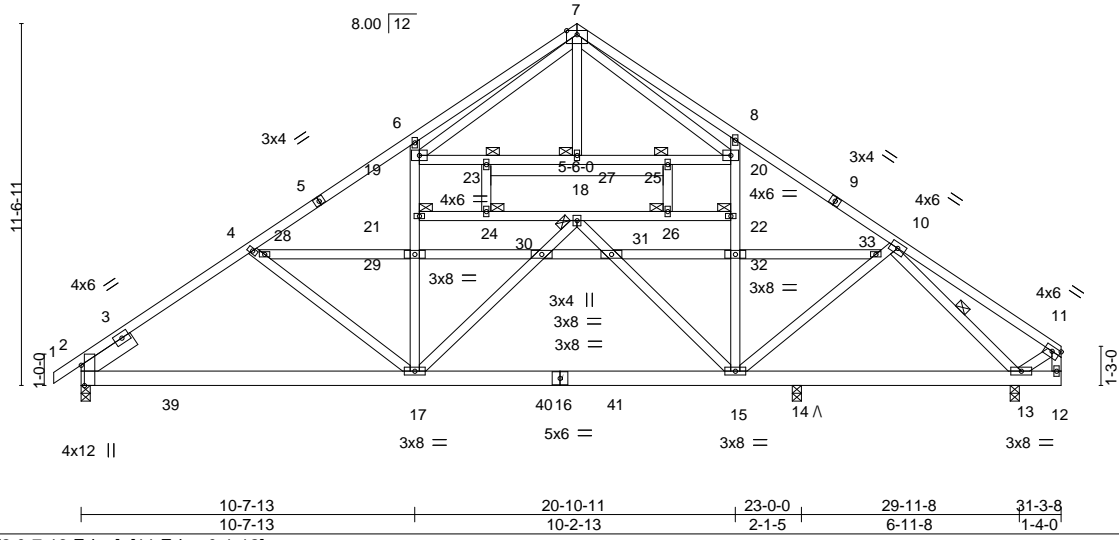


Plate Offsets (X,Y)--	[2:0-7-13,Edge], [11:Edge,0-1-12]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.91	Vert(LL) -0.16 15-17 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 1.00	Vert(CT) -0.34 15-17 >796 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.13 15-17 >999 240	Weight: 295 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 10-13
SLIDER Left 2x6 SP No.2 1-11-12	JOINTS 1 Brace at Jt(s): 18, 21, 22, 23, 24, 25, 26, 27

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 14=0-3-8
 Max Horz 2=297(LC 7)
 Max Uplift 2=305(LC 8), 13=278(LC 9), 14=REL
 Max Grav 2=1893(LC 1), 13=1591(LC 1), 14=529(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2392/418, 4-6=-1769/325, 6-7=-1629/424, 7-8=-1315/427, 8-10=-1569/323
 BOT CHORD 2-17=-423/2058, 15-17=-273/1866, 14-15=-194/1228, 13-14=-194/1228
 WEBS 4-28=-373/223, 17-29=-7/376, 21-29=-46/543, 19-21=-43/530, 6-19=-308/239,
 17-30=-89/290, 18-30=-114/443, 18-31=-379/100, 15-31=-613/147, 15-32=-18/273,
 22-32=-55/448, 20-22=-52/434, 15-33=0/277, 10-33=-41/253, 19-23=-998/257,
 23-27=-998/257, 25-27=-998/257, 20-25=-998/257, 18-26=-89/330, 22-26=-89/330,
 7-19=-303/1176, 7-20=-309/856, 28-29=-584/161, 29-30=-408/115, 30-31=-483/125,
 31-32=-294/86, 10-13=-1937/358, 11-13=-251/151

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
 - "A" indicates Released bearing: allow for upward movement at joint(s) 14.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 169 lb down and 31 lb up at 1-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job AC1018-R	Truss A08GR	Truss Type TRIPLE FINK	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek I44656062 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:32 2021 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: 1-7=-60, 7-11=-60, 34-39=-20, 12-39=-34(F=-14), 28-33=-45(F)
Concentrated Loads (lb)
Vert: 39=-160(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	A10T	COMMON	3	1	144656063

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4x6 =

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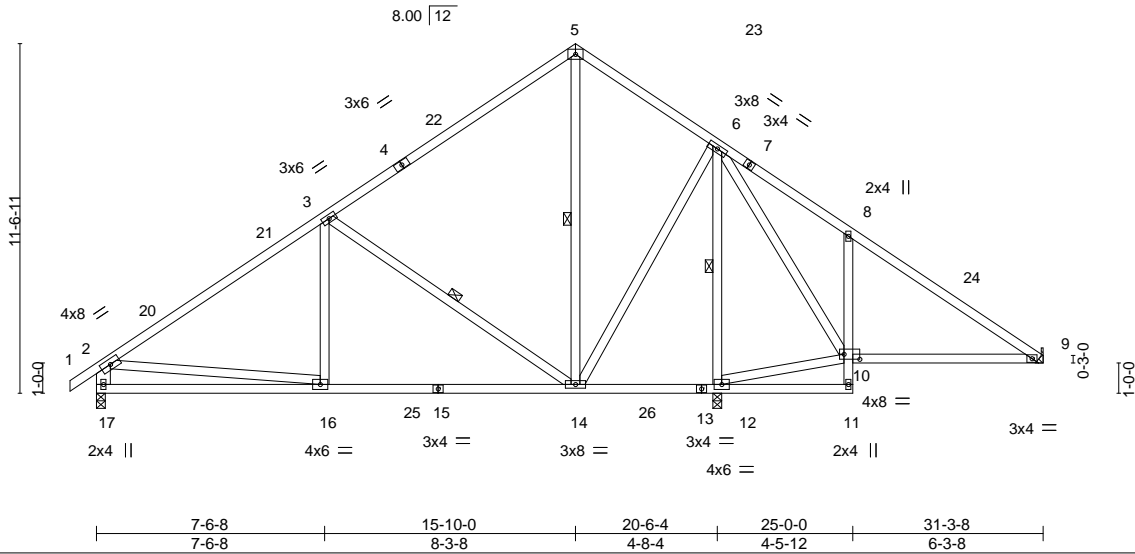


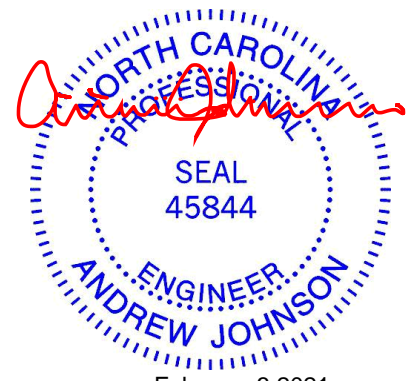
Plate Offsets (X,Y)--	[10:0-6-4,0-2-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.09 14-16	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.19 14-16	>999	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.02 9	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.06 10-19	>999	240
							PLATES
							MT20
							GRIP
							244/190
							Weight: 205 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-17: 2x6 SP No.2	WEBS 1 Row at midpt 5-14, 3-14, 6-12

REACTIONS. (size) 17=0-3-8, 9=Mechanical, 12=0-3-8
 Max Horz 17=291(LC 9)
 Max Uplift 17=-77(LC 12), 9=-37(LC 13), 12=-29(LC 13)
 Max Grav 17=834(LC 1), 9=356(LC 24), 12=1368(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-17=-775/165, 2-3=-936/122, 3-5=-413/165, 5-6=-374/185, 6-8=-307/168, 8-9=-326/40
 BOT CHORD 16-17=-312/474, 14-16=-128/875, 8-10=-359/201
 WEBS 2-16=0/519, 3-16=0/304, 6-14=0/707, 6-10=-146/522, 3-14=-687/184, 6-12=-1255/185

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-10-0, Exterior(2) 15-10-0 to 20-0-15, Interior(1) 20-0-15 to 31-2-0 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, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
 - 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 12. This connection is for uplift only and does not consider lateral forces.



Job AC1018-R	Truss A11T	Truss Type COMMON	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656064
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:36 2021 Page 1

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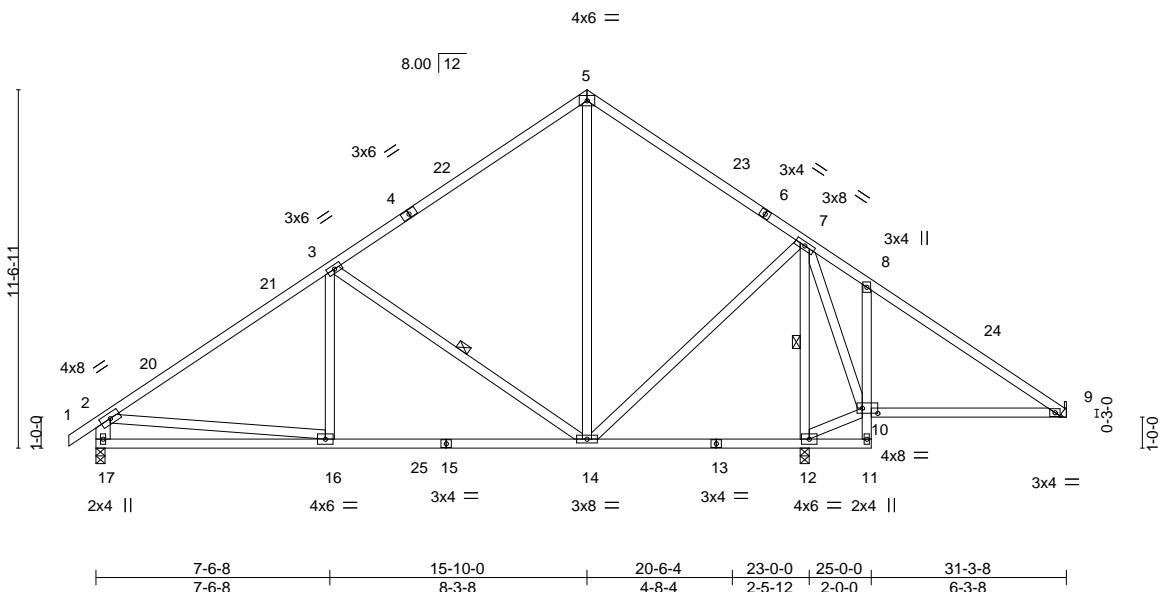


Plate Offsets (X,Y)--	[10:0-6-0,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.58	Vert(LL) -0.08 14-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.35	Vert(CT) -0.17 14-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.06 10-19 >999 240	Weight: 197 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-17: 2x6 SP No.2	WEBS 1 Row at midpt 3-14, 7-12

REACTIONS. (size) 17=0-3-8, 9=Mechanical, 12=0-3-8
 Max Horz 17=291(LC 9)
 Max Uplift 17=79(LC 12), 9=40(LC 13), 12=22(LC 13)
 Max Grav 17=927(LC 1), 9=244(LC 24), 12=1408(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-17=-862/180, 2-3=-1077/146, 3-5=-570/190, 5-7=-540/195
 BOT CHORD 16-17=-312/483, 14-16=-107/982
 WEBS 2-16=0/601, 3-16=0/287, 7-14=0/711, 3-14=-670/181, 7-12=-1230/173

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-10-0, Exterior(2) 15-10-0 to 20-0-15, Interior(1) 20-0-15 to 31-2-0 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, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9, 12.

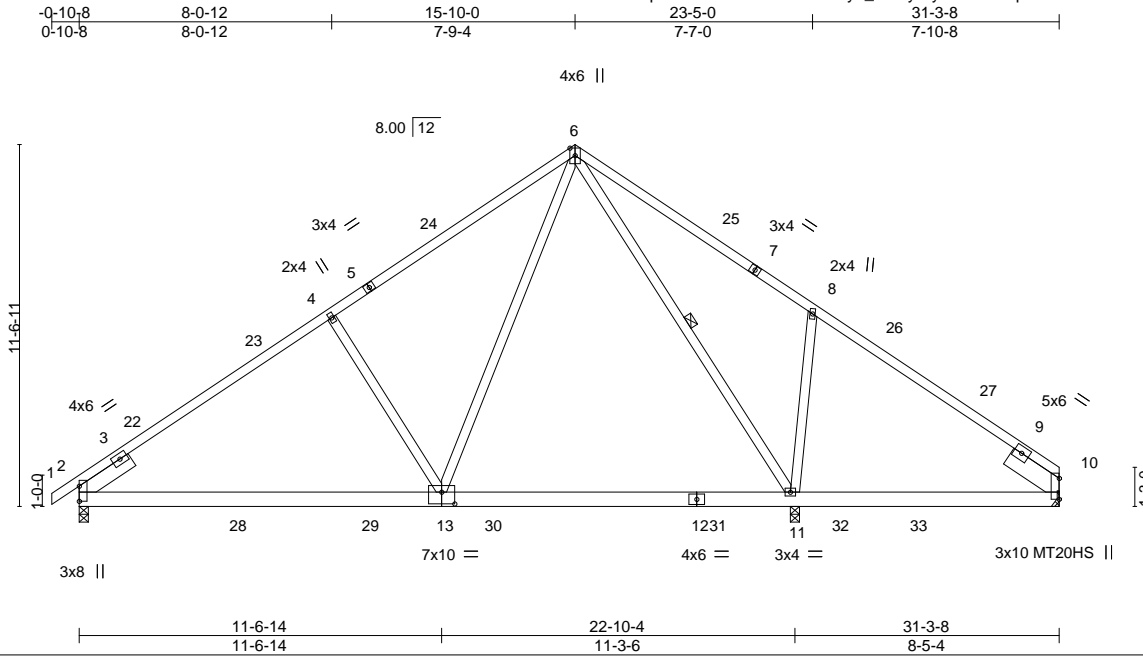


Job AC1018-R	Truss A12	Truss Type ROOF TRUSS	Qty 4	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656065
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:37 2021 Page 1

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Scale = 1:73.6

Plate Offsets (X,Y)--	[2:Edge,0-0-0], [10:0-8-1,0-0-1], [13:0-5-0,0-4-8]				
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 0.79	Vert(LL) -0.14 11-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.20 11-13 >999 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.02 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.08 13-16 >999 240		Weight: 196 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-11: 2x4 SP No.2	WEBS 1 Row at midpt 6-11
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x8 SP DSS 1-11-12	

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 10=Mechanical
 Max Horz 2=275(LC 9)
 Max Uplift 2=-97(LC 12), 10=-154(LC 13)
 Max Grav 2=1087(LC 19), 11=1234(LC 19), 10=497(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1253/220, 4-6=-1089/282, 6-8=-622/390, 8-10=-470/300
 BOT CHORD 2-13=-128/1150, 11-13=-8/592, 10-11=-59/315
 WEBS 4-13=-454/233, 6-13=-76/903, 6-11=-647/95, 8-11=-504/261

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-10-0, Exterior(2) 15-10-0 to 20-0-15, Interior(1) 20-0-15 to 31-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=154.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



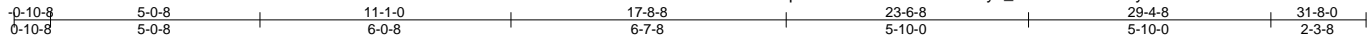
February 3, 2021

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek	144656066
AC1018-R	B01GRT	SPECIAL	1	2	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:38 2021 Page 1

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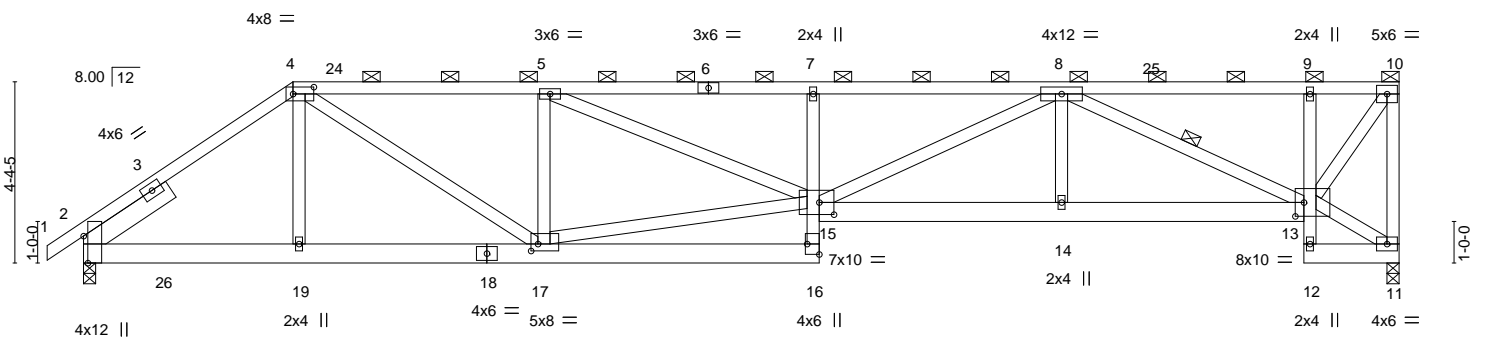


Plate Offsets (X,Y)--	[2:0-7-13,Edge], [4:0-6-0,0-2-0], [13:0-2-8,0-4-0], [15:0-4-4,0-3-8], [16:Edge,0-3-8], [17:0-2-0,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.25 14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.50 14-15	>764	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.80	Horz(CT)	0.16 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.24 14-15	>999	240	Weight: 432 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 1-4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-11 max.): 4-10.
BOT CHORD 2x6 SP No.2 *Except* 7-16,9-12: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 15-17: 2x4 SP No.2	WEBS 1 Row at midpt 8-13
SLIDER Left 2x6 SP No.2 2-5-12	

REACTIONS. (size) 11=0-3-8, 2=0-3-8
 Max Horz 2=156(LC 7)
 Max Uplift 11=650(LC 5), 2=590(LC 5)
 Max Grav 11=3367(LC 1), 2=3565(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-4626/817, 4-5=-6249/1179, 5-7=-8720/1679, 7-8=-8829/1697, 8-9=-2275/455, 9-10=-2166/433, 10-11=-3251/644
 BOT CHORD 2-19=-761/3694, 17-19=-760/3702, 16-17=-179/940, 15-16=-2/254, 7-15=-893/268, 14-15=-1376/6924, 13-14=-1376/6924, 9-13=-704/218
 WEBS 4-19=-30/294, 4-17=-649/3115, 5-17=-2153/530, 15-17=-1095/5443, 5-15=-531/2648, 8-15=-430/2128, 8-13=-5197/993, 10-13=-775/3871, 8-14=0/531

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Two RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



On the ground plane representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job AC1018-R	Truss B01GRT	Truss Type SPECIAL	Qty 1	Ply 2	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656066 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:39 2021 Page 2
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NOTES-

- 11) Double installations of RT7A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 450 lb down and 81 lb up at 1-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-149(F=-88), 4-10=-148(F=-89), 20-26=-20, 16-26=-64(F=-44), 13-15=-64(F=-44), 11-12=-64(F=-44)

Concentrated Loads (lb)

Vert: 26=-421(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

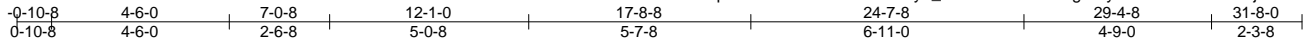


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek	144656067
AC1018-R	B02T	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:40 2021 Page 1

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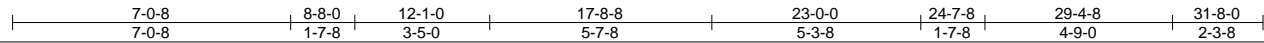
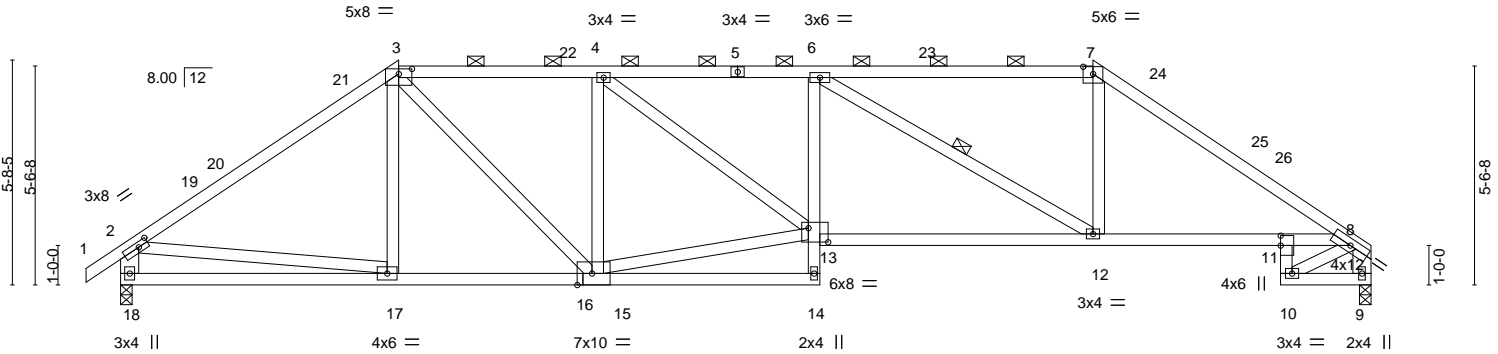


Plate Offsets (X, Y)-- [2:0-3-0,0-1-8], [3:0-4-0,0-1-9], [7:0-3-0,0-2-3], [11:0-3-0,0-0-0], [13:0-6-0,0-4-4], [15:0-1-12,0-0-0], [16:0-0-0,0-1-12], [16:0-4-8,Edge]

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 0.90	Vert(LL)	-0.13 11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.27 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.19 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.12 11-12	>999	240	Weight: 187 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-5-15 max.): 3-7.
BOT CHORD 2x4 SP No.2 *Except* 6-14,10-11: 2x4 SP No.3, 8-13: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 11-12
WEBS 2x4 SP No.3 *Except* 2-18,8-9: 2x6 SP No.2	WEBS 1 Row at midpt 6-12

REACTIONS. (size) 18=0-3-8, 9=0-3-8
 Max Horz 18=157(LC 9)
 Max Uplift 18=99(LC 9), 9=96(LC 8)
 Max Grav 18=1316(LC 1), 9=1237(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=1250/259, 2-3=1656/257, 3-4=1767/331, 4-6=2377/413, 6-7=1607/302,
 7-8=-2054/305, 8-9=-1283/214
 BOT CHORD 17-18=-274/500, 15-17=-215/1277, 12-13=-368/2411, 11-12=-172/1629, 8-11=-157/1435,
 9-10=-176/379
 WEBS 2-17=-206/961, 13-15=-268/1699, 4-13=-117/752, 6-12=-1016/283, 7-12=-27/678,
 4-15=-790/227, 3-15=-198/770

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-8, Exterior(2) 7-0-8 to 11-3-7, Interior(1) 11-3-7 to 24-7-8, Exterior(2) 24-7-8 to 28-10-7, Interior(1) 28-10-7 to 31-3-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 9. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek	144656068
AC1018-R	B03T	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

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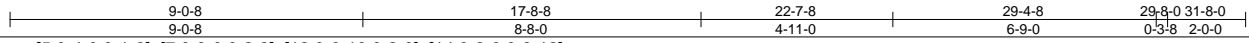
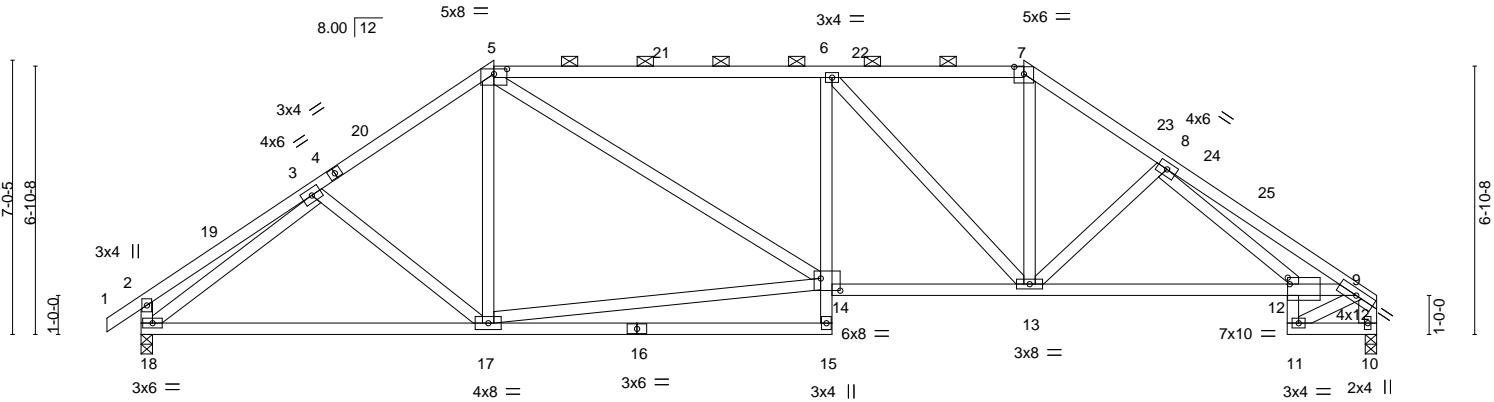


Plate Offsets (X,Y)-- [5:0-4-0,0-1-9], [7:0-3-0,0-2-3], [12:0-0-10,0-2-0], [14:0-6-0,0-3-12]

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)	-0.16	15-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.35	15-17	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.13	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.07	14	>999		
								Weight: 204 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-7: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-4-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-6 max.): 5-7.
BOT CHORD 2x4 SP No.2 *Except* 6-15,11-12: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 12-13
WEBS 2x4 SP No.3 *Except* 9-10: 2x6 SP No.2	

REACTIONS. (size) 18=0-3-8, 10=0-3-8
 Max Horz 18=190(LC 9)
 Max Uplift 18=47(LC 12), 10=42(LC 8)
 Max Grav 18=1314(LC 1), 10=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-349/139, 2-3=-341/92, 3-5=-1555/273, 5-6=-1841/368, 6-7=-1417/283,
 7-8=-1779/316, 8-9=-2417/311, 9-10=-1261/199
 BOT CHORD 17-18=-212/1261, 13-14=-216/1834, 12-13=-208/1656, 9-12=-167/1886, 10-11=-115/262
 WEBS 3-18=-1370/192, 14-17=-191/1156, 5-14=-186/762, 6-13=-675/213, 7-13=-91/754,
 8-13=-325/153, 8-12=0/479

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-0-8, Exterior(2) 9-0-8 to 13-3-7, Interior(1) 13-3-7 to 22-7-8, Exterior(2) 22-7-8 to 26-10-7, Interior(1) 26-10-7 to 31-3-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 10. This connection is for uplift only and does not consider lateral forces.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



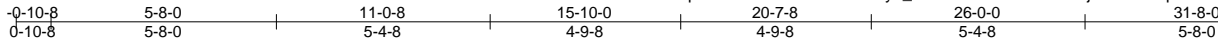
February 3, 2021

Job AC1018-R	Truss B04	Truss Type HIP	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek Job Reference (optional)	144656069
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:44 2021 Page 1

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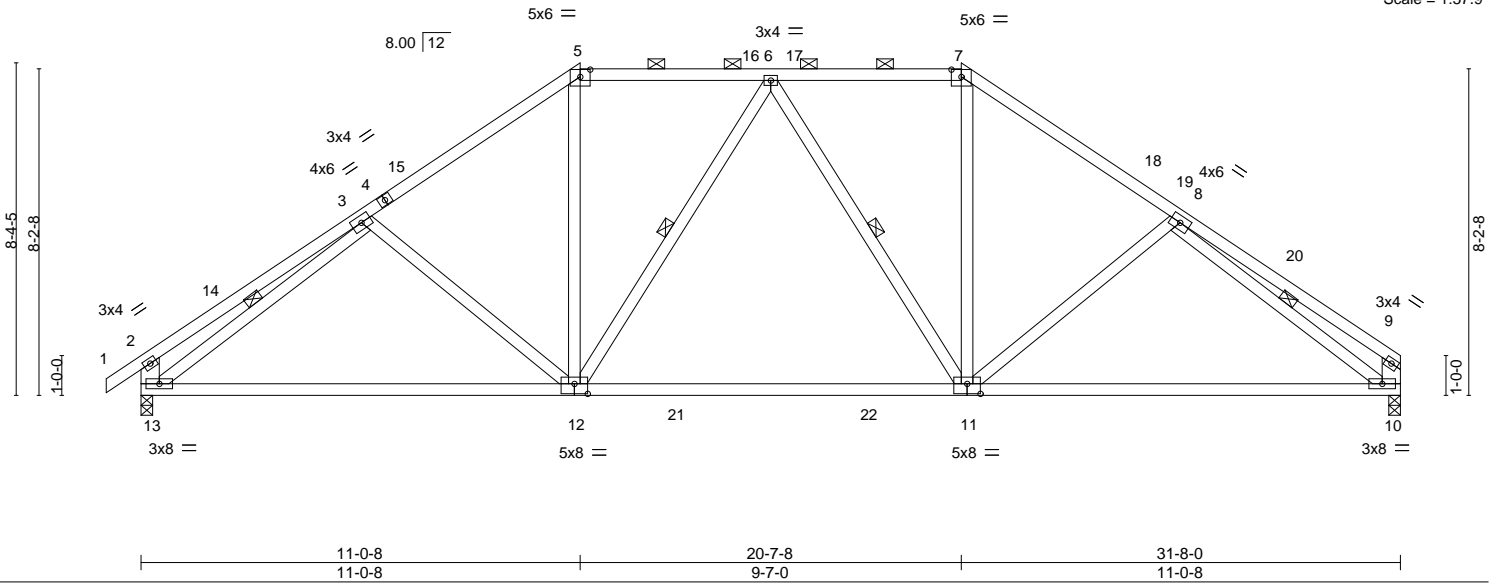


Plate Offsets (X, Y)--	[5:0-3-0,0-2-3], [7:0-3-0,0-2-3], [11:0-4-0,0-3-0], [12:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.42 11-12	>896	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.55 12-13	>682	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.06 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.04 11-12	>999	240		
								Weight: 195 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-8 max.): 5-7.
BOT CHORD 2x4 SP No.1 *Except* 11-12: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-13,9-10: 2x6 SP No.2	WEBS 1 Row at midpt 6-12, 6-11, 3-13, 8-10

REACTIONS.	(size)
10=0-3-8, 13=0-3-8	
Max Horz 13=223(LC 11)	
Max Uplift 10=-35(LC 13), 13=-60(LC 12)	
Max Grav 10=1247(LC 1), 13=1316(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-470/134, 3-5=-1460/274, 5-6=-1134/274, 6-7=-1135/272, 7-8=-1463/279, 8-9=-396/75, 2-13=-433/160, 9-10=-323/97
BOT CHORD	12-13=-180/1253, 11-12=-103/1235, 10-11=-168/1264
WEBS	5-12=-32/497, 6-12=-290/181, 6-11=-289/181, 7-11=-37/502, 3-13=-1231/187, 8-10=-1302/229

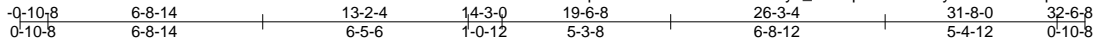
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-8, Exterior(2) 11-0-8 to 15-3-7, Interior(1) 15-3-7 to 20-7-8, Exterior(2) 20-7-8 to 24-10-7, Interior(1) 24-10-7 to 31-5-4 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 13. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek	144656070
AC1018-R	B05H	MOD. QUEEN	1	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:45 2021 Page 1

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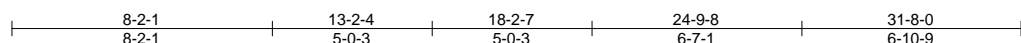
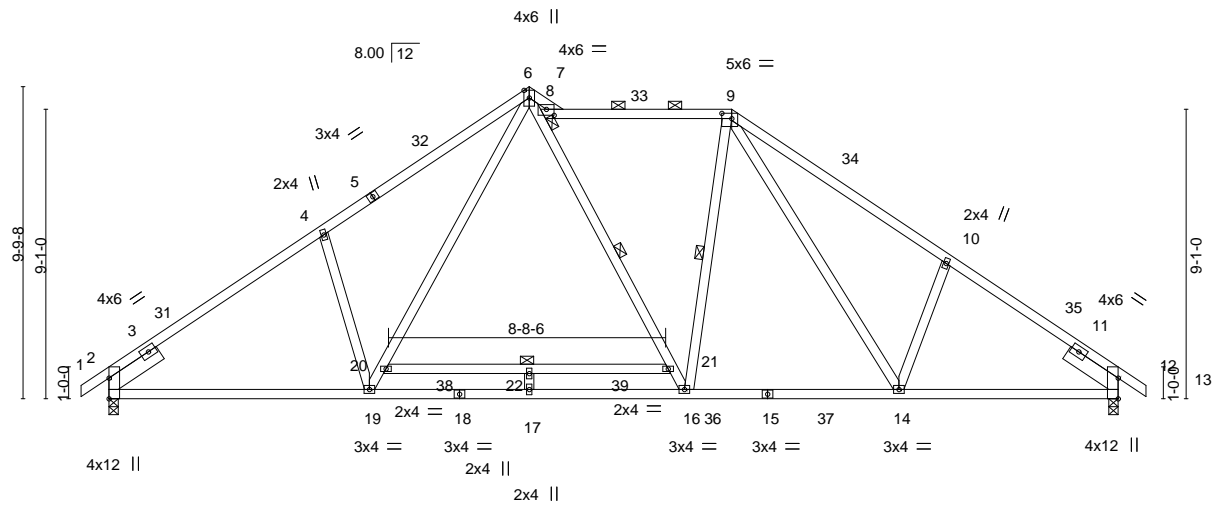


Plate Offsets (X,Y)--	[7:0-3-2,0-0-0], [7:0-2-14,0-2-4], [8:0-0-15,0-1-12], [9:0-3-12,0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.21	17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.46	17	>833		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.75	Horz(CT)	0.10	12	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-MS	Wind(LL)	0.12	14-16	>999		
								Weight: 203 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 5-6,6-7: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins: 8-9.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-16: 2x4 SP No.2	WEBS 1 Row at midpt 8-16, 9-16, 20-21
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=-236(LC 10)
 Max Uplift 2=-147(LC 12), 12=-192(LC 13)
 Max Grav 2=1319(LC 1), 12=1319(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1693/235, 4-6=-1590/337, 6-7=-851/179, 7-8=-265/89, 7-9=-1117/268,
 9-10=-1620/378, 10-12=-1704/274
 BOT CHORD 2-19=-197/1381, 17-19=-47/1134, 16-17=-47/1134, 14-16=0/1102, 12-14=-125/1333
 WEBS 4-19=-317/278, 19-20=-188/482, 6-20=-186/531, 6-8=-89/421, 8-21=-75/266,
 9-14=-176/420, 10-14=-279/244

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-2-4, Exterior(2) 13-2-4 to 14-2-8, Interior(1) 14-2-8 to 19-6-8, Exterior(2) 19-6-8 to 22-6-8, Interior(1) 22-6-8 to 32-6-8 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) 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, with BCDL = 10.0psf.
 - 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
 - 7) N/A
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=60, 6-7=-60, 7-9=60, 9-13=60, 23-27=-20



Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	B05H	MOD. QUEEN	1	1	144656070
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:45 2021 Page 2
ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-tVphdG8mluUynTNvDL04vqwweXFZlZjXoeWlQnzosuC

LOAD CASE(S) Standard

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 6-7=-50, 7-9=-50, 9-13=-50, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-3
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-20, 7-9=-20, 9-13=-20, 23-27=-40, 38-39=-4
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-20, 7-9=-20, 9-13=-20, 23-36=-20, 36-37=-60, 27-37=-20, 38-39=-4
- 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: 1-2=-56, 2-6=-61, 6-7=-42, 7-9=-42, 9-12=-42, 12-13=-37, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-3
Horz: 1-2=6, 2-6=11, 6-7=8, 9-12=8, 12-13=13
- 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: 1-2=-37, 2-6=-42, 6-7=-61, 7-9=-29, 9-12=-61, 12-13=-56, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-3
Horz: 1-2=-13, 2-6=-8, 6-7=-11, 9-12=-11, 12-13=-6
- 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: 1-2=-25, 2-6=-29, 6-7=-42, 7-9=-42, 9-12=-42, 12-13=-37, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-3
Horz: 1-2=-25, 2-6=-21, 6-7=8, 9-12=8, 12-13=13
- 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: 1-2=-37, 2-6=-42, 6-7=-29, 7-9=-29, 9-12=-29, 12-13=-25, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-3
Horz: 1-2=-13, 2-6=-8, 6-7=21, 9-12=21, 12-13=25
- 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: 1-6=-50, 6-7=-20, 7-9=-20, 9-13=-20, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-3
- 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: 1-6=-20, 6-7=-50, 7-9=-50, 9-13=-50, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

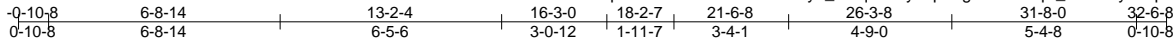


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek	144656071
AC1018-R	B06H	MOD. QUEEN	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:47 2021 Page 1

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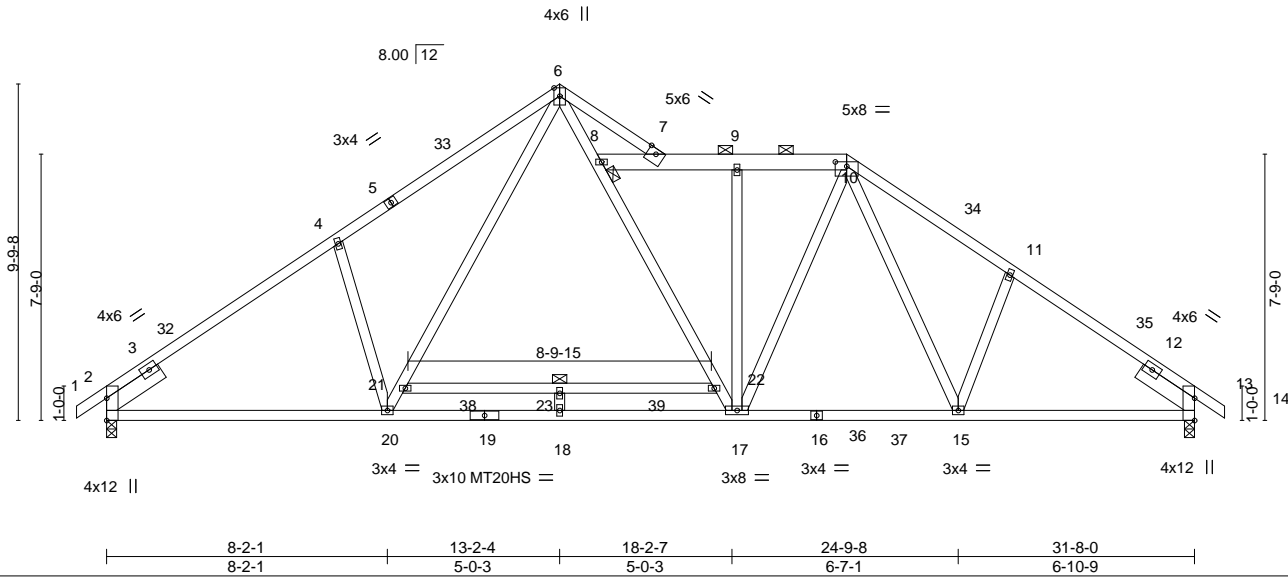


Plate Offsets (X,Y)--	[10:0-4-0-0-1-9]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.47	18	>807
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.71	18	>536
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.99	Horz(CT)	0.09	13	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.10	18	>999
							240
							Weight: 217 lb
							FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 8-10: 2x6 SP DSS, 10-14: 2x4 SP No.1, 1-5: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 8-10.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 21-22: 2x4 SP No.2	WEBS 1 Row at midpt 21-22
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	JOINTS 1 Brace at Jt(s): 8

REACTIONS. (size) 2=0-3-8, 13=0-3-8
 Max Horz 2=238(LC 11)
 Max Uplift 2=-147(LC 12), 13=-192(LC 13)
 Max Grav 2=1320(LC 19), 13=1319(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1714/243, 4-6=-1659/347, 6-7=-1923/438, 7-9=-1434/286, 9-10=-1437/288,
 10-11=-1572/343, 11-13=-1689/266
 BOT CHORD 2-20=-199/1494, 18-20=-39/1166, 17-18=-39/1166, 15-17=-30/1208, 13-15=-112/1314
 WEBS 4-20=-337/284, 20-21=-195/544, 6-21=-191/613, 6-8=-335/1304, 8-22=-204/838,
 17-22=-210/775, 10-15=-122/298, 9-17=-955/275, 10-17=-60/658

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-2-4, Exterior(2) 13-2-4 to 16-3-0, Interior(1) 16-3-0 to 21-6-8, Exterior(2) 21-6-8 to 24-6-8, Interior(1) 24-6-8 to 32-6-8 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
 - 9) N/A
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	B06H	MOD. QUEEN	1	1	I44656071
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:47 2021 Page 2
ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-qtwR2y90pVkg1nWIKmqY_F?HTKyMmpWpFy?sVfzosuA

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 6-7=-60, 7-10=-60, 10-14=-60, 24-28=-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: 1-6=-50, 6-7=-50, 7-10=-50, 10-14=-50, 24-36=-20, 36-37=-50, 28-37=-20, 38-39=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-20, 7-10=-20, 10-14=-20, 24-28=-40, 38-39=-40
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-20, 7-10=-20, 10-14=-20, 24-36=-20, 36-37=-60, 28-37=-20, 38-39=-40
- 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: 1-2=-56, 2-6=-61, 6-7=-42, 7-10=-42, 10-13=-42, 13-14=-37, 24-36=-20, 36-37=-50, 28-37=-20, 38-39=-30
Horz: 1-2=6, 2-6=11, 6-7=8, 10-13=8, 13-14=13
Drag: 9-10=-0
- 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: 1-2=-37, 2-6=-42, 6-7=-61, 7-10=-29, 10-13=-61, 13-14=-56, 24-36=-20, 36-37=-50, 28-37=-20, 38-39=-30
Horz: 1-2=-13, 2-6=-8, 6-7=-11, 10-13=-11, 13-14=-6
Drag: 9-10=-0
- 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: 1-2=-25, 2-6=-29, 6-7=-42, 7-10=-42, 10-13=-42, 13-14=-37, 24-36=-20, 36-37=-50, 28-37=-20, 38-39=-30
Horz: 1-2=-25, 2-6=-21, 6-7=8, 10-13=8, 13-14=13
Drag: 9-10=-0
- 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: 1-2=-37, 2-6=-42, 6-7=-29, 7-10=-29, 10-13=-29, 13-14=-25, 24-36=-20, 36-37=-50, 28-37=-20, 38-39=-30
Horz: 1-2=-13, 2-6=-8, 6-7=21, 10-13=21, 13-14=25
Drag: 9-10=-0
- 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: 1-6=-50, 6-7=-20, 7-10=-20, 10-14=-20, 24-36=-20, 36-37=-50, 28-37=-20, 38-39=-30
- 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: 1-6=-20, 6-7=-50, 7-10=-50, 10-14=-50, 24-36=-20, 36-37=-50, 28-37=-20, 38-39=-30

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	B07H	MOD. QUEEN	1	1	144656072
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:48 2021 Page 2
ID:SPpQnXRhh0KJETLEIz6Peyo_e3-I4UqFIAeapsXex5UuTLnXTYSikhVHVzUbkP16zosu9

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-6=-60, 6-7=-60, 7-9=-60, 9-13=-60, 23-27=-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: 1-6=-50, 6-7=-50, 7-9=-50, 9-13=-50, 23-36=-20, 36-37=-50, 37-38=-20, 38-39=-50, 27-39=-20, 40-41=-30

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-20, 6-7=-20, 7-9=-20, 9-13=-20, 23-27=-40, 40-41=-40

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-20, 6-7=-20, 7-9=-20, 9-13=-20, 23-36=-20, 36-37=-60, 37-38=-20, 38-39=-60, 27-39=-20, 40-41=-40

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: 1-2=-56, 2-6=-61, 6-7=-42, 7-9=-42, 9-12=-42, 12-13=-37, 23-36=-20, 36-37=-50, 37-38=-20, 38-39=-50, 27-39=-20, 40-41=-30

Horz: 1-2=6, 2-6=11, 6-7=8, 9-12=8, 12-13=13

Drag: 7-9=0

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: 1-2=-37, 2-6=-42, 6-7=-61, 7-9=-29, 9-12=-56, 12-13=-56, 23-36=-20, 36-37=-50, 37-38=-20, 38-39=-50, 27-39=-20, 40-41=-30

Horz: 1-2=-13, 2-6=-8, 6-7=-11, 9-12=-11, 12-13=-6

Drag: 7-9=0

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: 1-2=-25, 2-6=-29, 6-7=-42, 7-9=-42, 9-12=-42, 12-13=-37, 23-36=-20, 36-37=-50, 37-38=-20, 38-39=-50, 27-39=-20, 40-41=-30

Horz: 1-2=-25, 2-6=-21, 6-7=8, 9-12=8, 12-13=13

Drag: 7-9=0

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: 1-2=-37, 2-6=-42, 6-7=-29, 7-9=-29, 9-12=-29, 12-13=-25, 23-36=-20, 36-37=-50, 37-38=-20, 38-39=-50, 27-39=-20, 40-41=-30

Horz: 1-2=-13, 2-6=-8, 6-7=21, 9-12=21, 12-13=25

Drag: 7-9=0

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: 1-6=-50, 6-7=-20, 7-9=-20, 9-13=-20, 23-36=-20, 36-37=-50, 37-38=-20, 38-39=-50, 27-39=-20, 40-41=-30

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: 1-6=-20, 6-7=-50, 7-9=-50, 9-13=-50, 23-36=-20, 36-37=-50, 37-38=-20, 38-39=-50, 27-39=-20, 40-41=-30

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

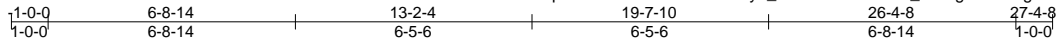
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	B08	COMMON	1	1	144656073

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:49 2021 Page 1
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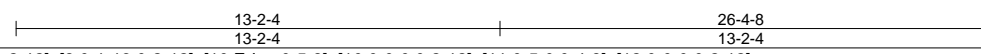
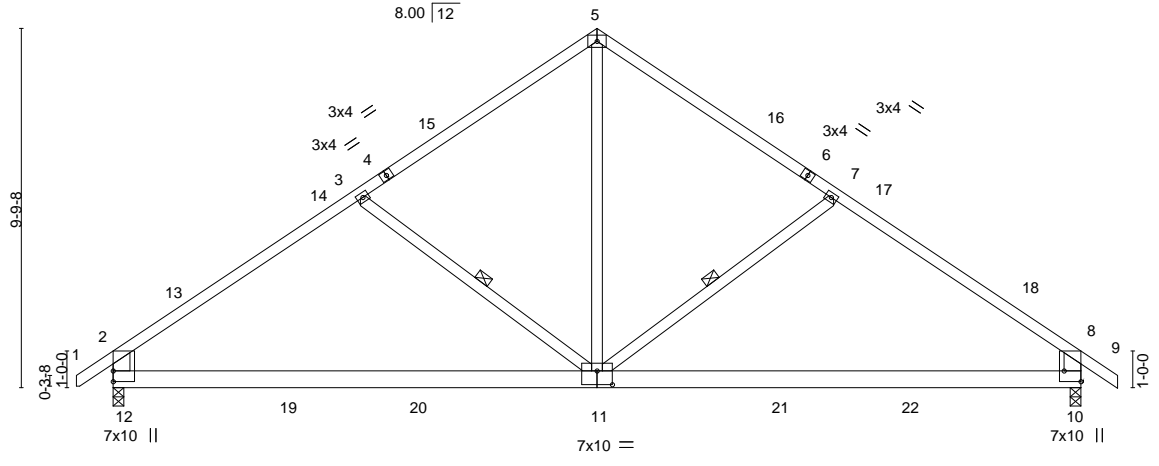


Plate Offsets (X,Y)-- [2:0-1-13,0-2-12], [8:0-1-13,0-2-12], [10:Edge,0-5-8], [10:0-0-0,0-2-12], [11:0-5-0,0-4-8], [12:0-0-0,0-2-12]

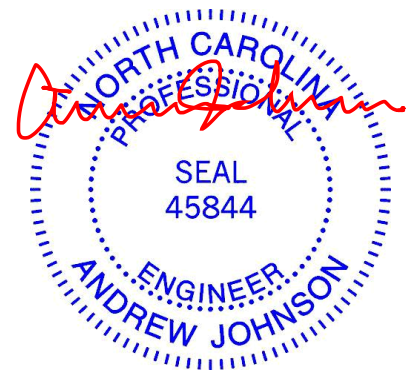
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.15 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.30 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.03 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.05 11	>999	240	Weight: 152 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-12,8-10: 2x6 SP No.2	WEBS 1 Row at midpt 7-11, 3-11

REACTIONS. (size) 12=0-3-8, 10=0-3-8
 Max Horz 12=-266(LC 10)
 Max Uplift 12=-77(LC 12), 10=-78(LC 13)
 Max Grav 12=1125(LC 19), 10=1127(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-12=-962/234, 2-3=-1319/217, 3-5=-1029/199, 5-7=-1028/199, 7-8=-1319/217, 8-10=-964/235
 BOT CHORD 11-12=-90/1141, 10-11=-56/992
 WEBS 5-11=-60/690, 7-11=-364/217, 3-11=-364/217

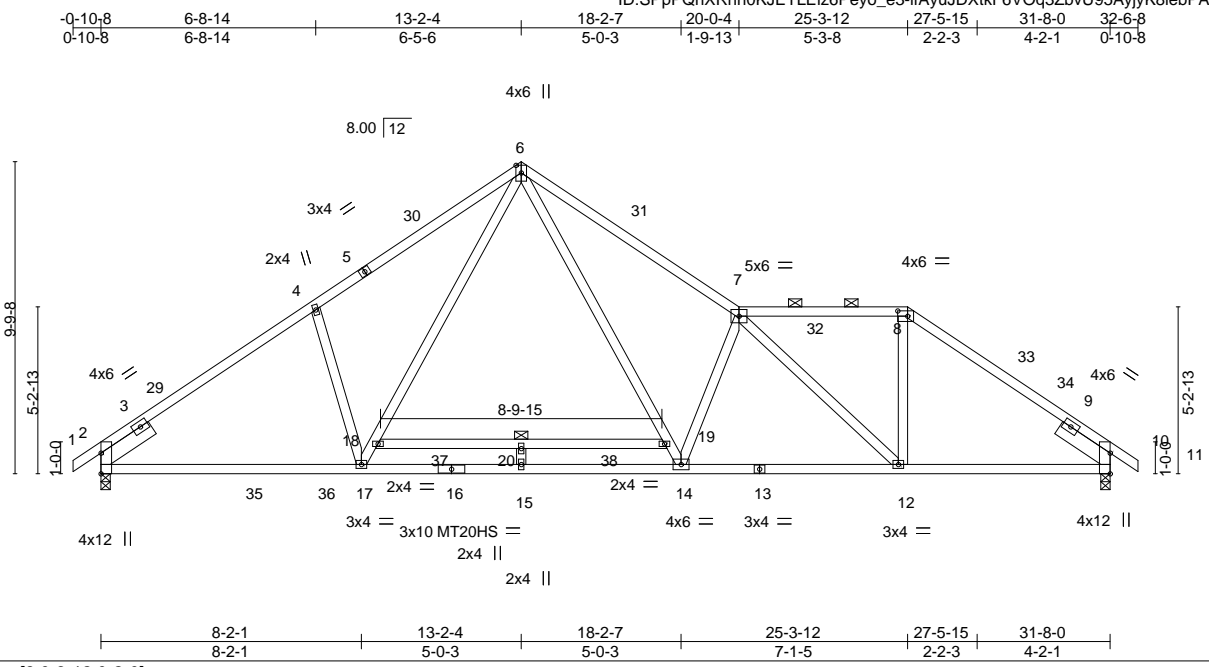
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-8 to 2-0-8, Interior(1) 2-0-8 to 13-2-4, Exterior(2) 13-2-4 to 17-5-3, Interior(1) 17-5-3 to 27-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 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, with BCDL = 10.0psf.
 - 5) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 10. This connection is for uplift only and does not consider lateral forces.



February 3, 2021

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	B09H	MOD. QUEEN	1	1	144656074

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:51 2021 Page 1
 ID:SPpQnXRhh0KJETLElz6Peyo_e3-ifAyUJDXtkF6VOq3ZbvU95AyjyK8iebPAZZ3eRzosu6



Scale = 1:72.3

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

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 0.97	Vert(LL)	-0.46	15	>833	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.69	15	>554	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(CT)	0.09	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.09	15	>999	240		Weight: 193 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-7,8-11: 2x4 SP SS, 1-5: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-4-9 max.): 7-8.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 18-19: 2x4 SP No.2	WEBS 1 Row at midpt 18-19
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=-236(LC 10)
 Max Uplift 2=-147(LC 12), 10=-192(LC 13)
 Max Grav 2=1346(LC 19), 10=1319(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1732/234, 4-6=-1679/335, 6-7=-2016/369, 7-8=-1320/263, 8-10=-1683/249
 BOT CHORD 2-17=-198/1511, 15-17=-35/1177, 14-15=-35/1177, 12-14=-141/1906, 10-12=-79/1302
 WEBS 4-17=-329/280, 17-18=-195/601, 6-18=-189/679, 6-19=-231/1205, 14-19=-235/1160,
 7-14=-921/335, 7-12=-877/98, 8-12=-4/685

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-2-4, Exterior(2) 13-2-4 to 16-2-4, Interior(1) 16-2-4 to 25-3-12, Exterior(2) 25-3-12 to 28-3-12, Interior(1) 28-3-12 to 32-6-8 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
 - N/A
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-60, 6-7=-60, 7-8=-60, 8-11=-60, 21-25=-20



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	B09H	MOD. QUEEN	1	1	I44656074
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:51 2021 Page 2
ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-ifAywJDXtkF6VOq3ZbvU95AyjyK8iebPAZZ3eRzosu6

LOAD CASE(S) Standard

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 6-7=-50, 7-8=-50, 8-11=-50, 21-35=-20, 35-36=-50, 25-36=-20, 37-38=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-20, 7-8=-20, 8-11=-20, 21-25=-40, 37-38=-40
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-20, 7-8=-20, 8-11=-20, 21-35=-20, 35-36=-60, 25-36=-20, 37-38=-40
- 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: 1-2=-56, 2-6=-61, 6-7=-42, 7-8=-42, 8-10=-42, 10-11=-37, 21-35=-20, 35-36=-50, 25-36=-20, 37-38=-30
Horz: 1-2=6, 2-6=11, 6-7=8, 8-10=8, 10-11=13
- 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: 1-2=-37, 2-6=-42, 6-7=-61, 7-8=-42, 8-10=-61, 10-11=-56, 21-35=-20, 35-36=-50, 25-36=-20, 37-38=-30
Horz: 1-2=-13, 2-6=-8, 6-7=-11, 8-10=-11, 10-11=-6
- 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: 1-2=-25, 2-6=-29, 6-7=-42, 7-8=-42, 8-10=-42, 10-11=-37, 21-35=-20, 35-36=-50, 25-36=-20, 37-38=-30
Horz: 1-2=-25, 2-6=-21, 6-7=8, 8-10=8, 10-11=13
- 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: 1-2=-37, 2-6=-42, 6-7=-29, 7-8=-29, 8-10=-29, 10-11=-25, 21-35=-20, 35-36=-50, 25-36=-20, 37-38=-30
Horz: 1-2=-13, 2-6=-8, 6-7=21, 8-10=21, 10-11=25
- 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: 1-6=-50, 6-7=-20, 7-8=-20, 8-11=-20, 21-35=-20, 35-36=-50, 25-36=-20, 37-38=-30
- 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: 1-6=-20, 6-7=-50, 7-8=-50, 8-11=-50, 21-35=-20, 35-36=-50, 25-36=-20, 37-38=-30

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	B10H	MOD. QUEEN	1	1	I44656076
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:54 2021 Page 2
ID:SPpPQnXRhh0KJETLElz6Peyo_e3-6Er5WLFPAdhMsZeFkSBmkoTy9KQv_QrsXBJEmzosu3

LOAD CASE(S) Standard

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 6-8=-50, 8-9=-50, 9-12=-50, 22-35=-20, 35-36=-50, 26-36=-20, 37-38=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-8=-20, 8-9=-20, 9-12=-20, 22-26=-40, 37-38=-40
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-8=-20, 8-9=-20, 9-12=-20, 22-35=-20, 35-36=-60, 26-36=-20, 37-38=-40
- 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: 1-2=-56, 2-6=-61, 6-8=-42, 8-9=-42, 9-11=-42, 11-12=-37, 22-35=-20, 35-36=-50, 26-36=-20, 37-38=-30
Horz: 1-2=6, 2-6=11, 6-8=8, 9-11=8, 11-12=13
- 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: 1-2=-37, 2-6=-42, 6-8=-61, 8-9=-29, 9-11=-61, 11-12=-56, 22-35=-20, 35-36=-50, 26-36=-20, 37-38=-30
Horz: 1-2=-13, 2-6=-8, 6-8=-11, 9-11=-11, 11-12=-6
- 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: 1-2=-25, 2-6=-29, 6-8=-42, 8-9=-42, 9-11=-42, 11-12=-37, 22-35=-20, 35-36=-50, 26-36=-20, 37-38=-30
Horz: 1-2=-25, 2-6=-21, 6-8=8, 9-11=8, 11-12=13
- 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: 1-2=-37, 2-6=-42, 6-8=-29, 8-9=-29, 9-11=-29, 11-12=-25, 22-35=-20, 35-36=-50, 26-36=-20, 37-38=-30
Horz: 1-2=-13, 2-6=-8, 6-8=21, 9-11=21, 11-12=25
- 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: 1-6=-50, 6-8=-20, 8-9=-20, 9-12=-20, 22-35=-20, 35-36=-50, 26-36=-20, 37-38=-30
- 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: 1-6=-20, 6-8=-50, 8-9=-50, 9-12=-50, 22-35=-20, 35-36=-50, 26-36=-20, 37-38=-30

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	B11H	MOD. QUEEN	1	1	144656077
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:55 2021 Page 2
ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-bQPTJhG1xyIY_08qoRzQJxKebZfXeTp?5BxHnCzosu2

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 6-8=-60, 8-9=-60, 9-12=-60, 23-27=-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: 1-6=-50, 6-8=-50, 8-9=-50, 9-12=-50, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-8=-20, 8-9=-20, 9-12=-20, 23-27=-40, 38-39=-40
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-8=-20, 8-9=-20, 9-12=-20, 23-36=-20, 36-37=-60, 27-37=-20, 38-39=-40
- 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: 1-2=-56, 2-6=-61, 6-8=-42, 8-9=-42, 9-11=-40, 11-12=-36, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-30
Horz: 1-2=6, 2-6=11, 6-8=8, 9-11=10, 11-12=14
- 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: 1-2=-37, 2-6=-42, 6-8=-61, 8-9=-29, 9-11=-46, 11-12=-41, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-30
Horz: 1-2=-13, 2-6=-8, 6-8=-11, 9-11=4, 11-12=9
- 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: 1-2=-25, 2-6=-29, 6-8=-42, 8-9=-42, 9-11=-42, 11-12=-37, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-30
Horz: 1-2=-25, 2-6=-21, 6-8=8, 9-11=8, 11-12=13
- 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: 1-2=-37, 2-6=-42, 6-8=-29, 8-9=-29, 9-11=-29, 11-12=-25, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-30
Horz: 1-2=-13, 2-6=-8, 6-8=21, 9-11=21, 11-12=25
- 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: 1-6=-50, 6-8=-20, 8-9=-20, 9-12=-20, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-30
- 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: 1-6=-20, 6-8=-50, 8-9=-50, 9-12=-50, 23-36=-20, 36-37=-50, 27-37=-20, 38-39=-30

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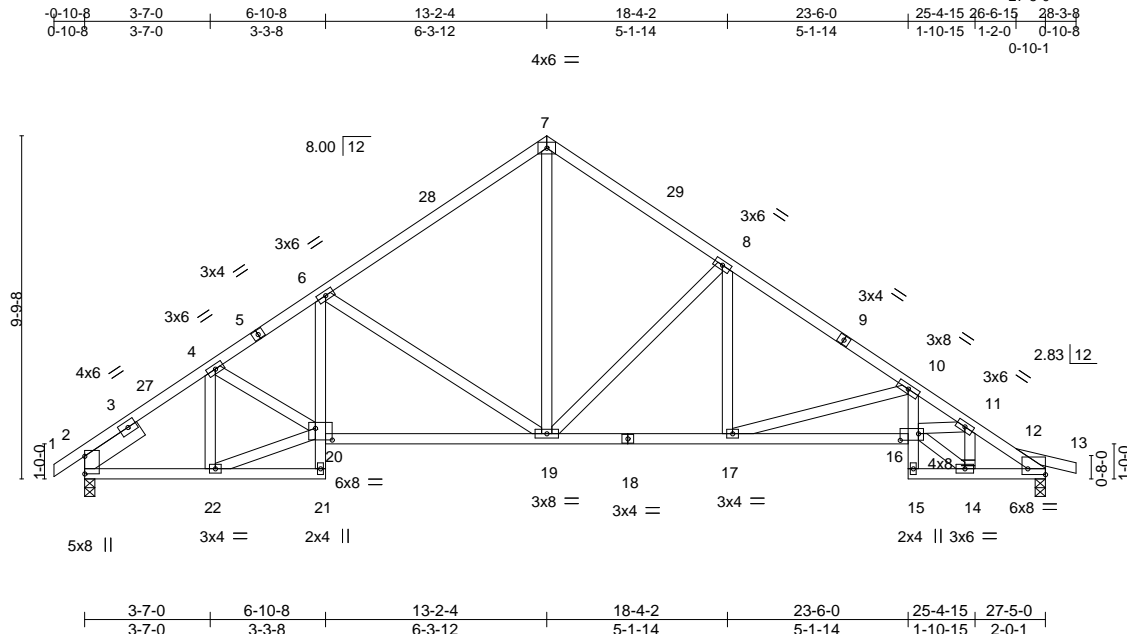
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job AC1018-R	Truss B11T	Truss Type FINK	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656078
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:56 2021 Page 1
 ID:SPpPQnXRhh0KJETLElz6Peyo_e3-3czrx1GgiGtOc9i1M9Ufs9tw4z3gNwk8JrgqJezosu1



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 0.54	Vert(LL)	-0.08 19-20	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.21 19-20	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.12 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.06 19-20	>999	240	Weight: 178 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 6-21,10-15: 2x4 SP No.3
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-12

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

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=246(LC 11)
 Max Uplift 2=-138(LC 12), 12=-153(LC 13)
 Max Grav 2=1131(LC 1), 12=1159(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1353/168, 4-6=-1687/247, 6-7=-1170/215, 7-8=-1144/225, 8-10=-1634/202,
 10-11=-2457/258, 11-12=-1547/164
 BOT CHORD 2-22=-209/1099, 6-20=-19/367, 19-20=-230/1476, 17-19=-41/1292, 16-17=-178/2133,
 10-16=0/506, 12-14=-94/1155
 WEBS 4-22=-424/104, 20-22=-190/1118, 4-20=-6/430, 6-19=-717/267, 7-19=-104/868,
 8-19=-613/214, 8-17=0/391, 10-17=-874/206, 11-14=-677/70, 11-16=-83/918,
 14-16=-76/1211

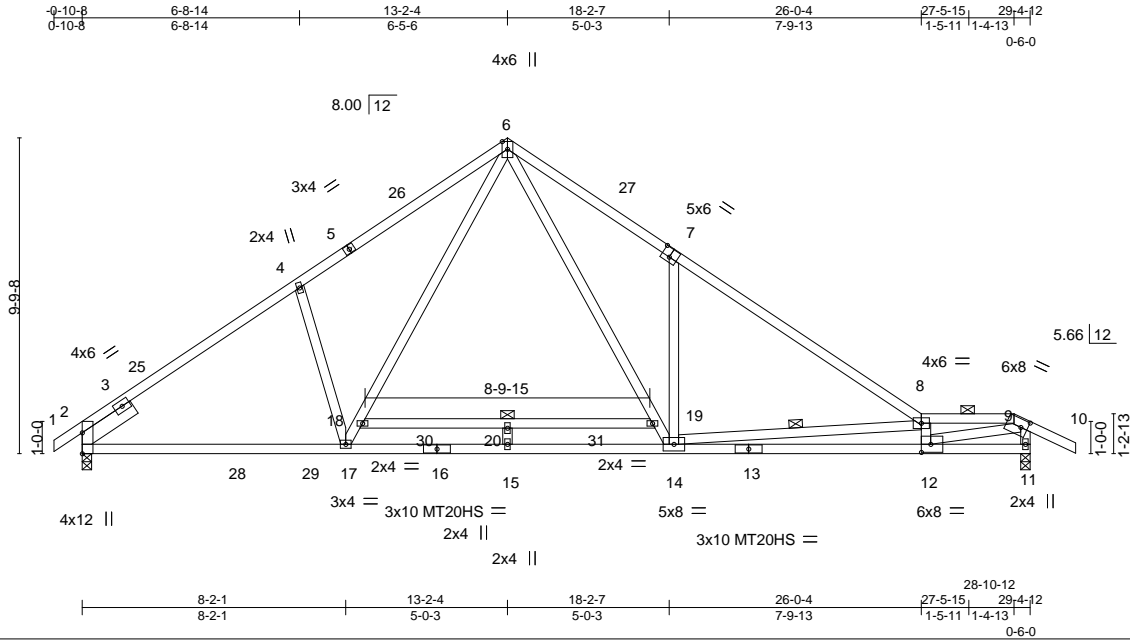
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-2-4, Exterior(2) 13-2-4 to 16-2-4, Interior(1) 16-2-4 to 28-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.



February 3, 2021

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek	144656079
AC1018-R	B12H	MOD. QUEEN	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:58 2021 Page 1
 ID:SPpQnXRhh0KJETLElz6Peyo_e3-??5bMjIwEt76rTsPUZX7xayAVmILroSRn99xNXzosu?



Scale = 1:71.4

Plate Offsets (X,Y)--	[7:0-3-0,0-3-4], [9:0-2-7,0-3-0], [12:0-3-8,0-3-0]				
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 0.93	Vert(LL) -0.45 15 >777 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.68 15 >513 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.91	Horz(CT) 0.07 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.18 12-14 >999 240		
				Weight: 183 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-5: 2x4 SP No.1, 7-8: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-1-3 max.): 8-9.
BOT CHORD 2x4 SP No.2 *Except* 11-13: 2x4 SP No.1, 13-16: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 9-8-1 oc bracing.
WEBS 2x4 SP No.3 *Except* 9-12: 2x4 SP No.2	WEBS 1 Row at midpt 18-19, 8-14
SLIDER Left 2x6 SP No.2 1-11-12	

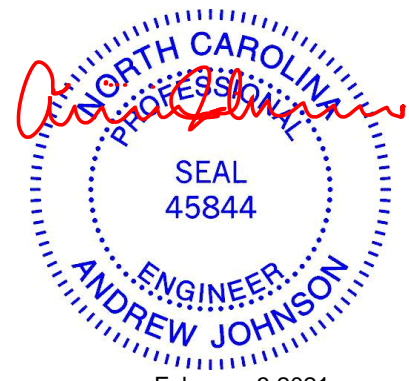
REACTIONS.	(size) 2=0-3-8, 11=0-3-8 Max Horz 2=-264(LC 8) Max Uplift 2=-143(LC 12), 11=-176(LC 13) Max Grav 2=1258(LC 19), 11=1265(LC 1)
-------------------	----------------------------------------------------------------------------------------------------------------------------------------

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1591/207, 4-6=-1543/319, 6-7=-1841/420, 7-8=-1757/209, 8-9=-3298/405, 9-11=-1275/219
BOT CHORD 2-17=-177/1409, 15-17=-10/1028, 14-15=-10/1028, 12-14=-419/3444, 11-12=-35/460
WEBS 4-17=-350/286, 17-18=-200/638, 6-18=-195/695, 6-19=-313/1201, 14-19=-319/1145, 8-14=-2071/389, 7-14=-503/339, 8-12=-955/210, 9-12=-372/3001

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-2-4, Exterior(2) 13-2-4 to 16-2-4, Interior(1) 16-2-4 to 28-10-12, Exterior(2) 28-10-12 to 30-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
 - N/A
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	B12H	MOD. QUEEN	1	1	144656079
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:03:58 2021 Page 2
ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-??5bMjIwEt76rTsPUZX7xayAVmILroSRn99xNXzосу?

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 6-8=-60, 8-9=-60, 11-21=-20, 9-10=-60
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 6-8=-50, 8-9=-50, 21-28=-20, 28-29=-50, 11-29=-20, 30-31=-30, 9-10=-50
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-8=-20, 8-9=-20, 11-21=-40, 30-31=-40, 9-10=-20
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-8=-20, 8-9=-20, 21-28=-20, 28-29=-60, 11-29=-20, 30-31=-40, 9-10=-20
- 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: 1-2=-56, 2-6=-61, 6-8=-42, 8-9=-42, 21-28=-20, 28-29=-50, 11-29=-20, 30-31=-30, 9-11=-7, 9-10=-36
Horz: 1-2=6, 2-6=11, 6-8=8, 9-11=7, 9-10=14
Drag: 8-9=0
- 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: 1-2=-37, 2-6=-42, 6-8=-61, 8-9=-29, 21-28=-20, 28-29=-50, 11-29=-20, 30-31=-30, 9-11=21, 9-10=-41
Horz: 1-2=-13, 2-6=-8, 6-8=-11, 9-11=-21, 9-10=9
Drag: 8-9=0
- 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: 1-2=-25, 2-6=-29, 6-8=-42, 8-9=-42, 21-28=-20, 28-29=-50, 11-29=-20, 30-31=-30, 9-11=-6, 9-10=-37
Horz: 1-2=-25, 2-6=-21, 6-8=8, 9-11=6, 9-10=13
Drag: 8-9=0
- 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: 1-2=-37, 2-6=-42, 6-8=-29, 8-9=-29, 21-28=-20, 28-29=-50, 11-29=-20, 30-31=-30, 9-11=19, 9-10=-25
Horz: 1-2=-13, 2-6=-8, 6-8=21, 9-11=-19, 9-10=25
Drag: 8-9=0
- 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: 1-6=-50, 6-8=-20, 8-9=-20, 21-28=-20, 28-29=-50, 11-29=-20, 30-31=-30, 9-10=-20
- 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: 1-6=-20, 6-8=-50, 8-9=-50, 21-28=-20, 28-29=-50, 11-29=-20, 30-31=-30, 9-10=-50

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek
AC1018-R	C01G	GABLE	1	1	144656080

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:00 2021 Page 1

ID:SPpPQnXRhh0KJETLEiz6Peyo_e3-xNDMnOKAIVNq4n0ob_Zb0?2hmaaJJvUkETe2RPzostz

-0-10-8 13-2-0 26-4-0 27-2-8
 0-10-8 13-2-0 13-2-0 0-10-8

Scale = 1:60.8

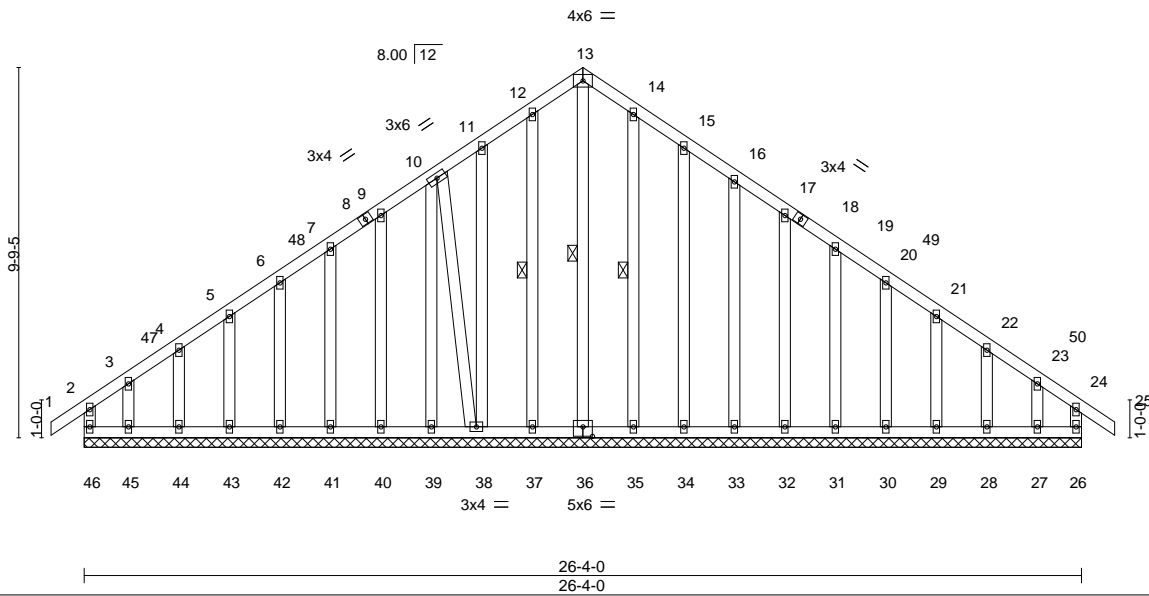


Plate Offsets (X,Y)--	[36:0-3-0-0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0.00 25 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.00 25 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.01 26 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 243 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 13-36, 12-37, 14-35
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 26-4-0.
 (lb) - Max Horz 46=-264(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 26, 37, 38, 39, 40, 41, 42, 43, 44, 34, 33, 32, 31, 30, 29, 28 except 46=-158(LC 8), 45=-165(LC 9), 27=-143(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 46, 26, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 35, 34, 33, 32, 31, 30, 29, 28, 27

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 12-13=-233/250

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-2-0, Exterior(2) 13-2-0 to 17-2-0, Interior(1) 17-2-0 to 27-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 1-4-0 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.



February 3, 2021

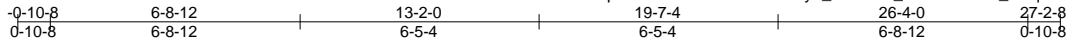
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job AC1018-R	Truss C02	Truss Type COMMON	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656081
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:01 2021 Page 1
ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-Pank_kKoWoVhixb_9i4qZCain_mY2llt7Obzszosty



4x6 ||

Scale = 1:62.1

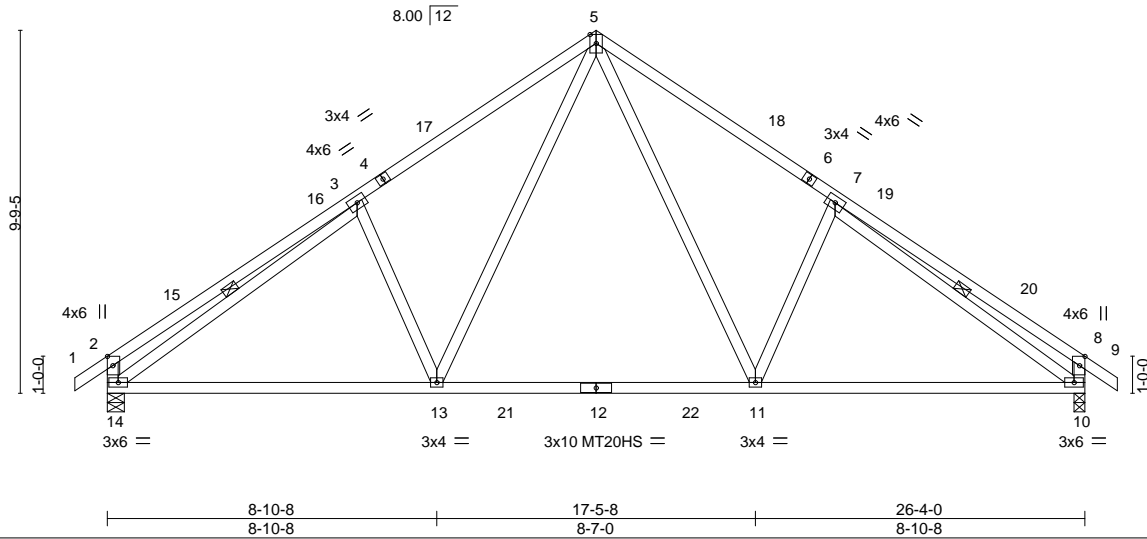


Plate Offsets (X, Y)--	[2:0-3-0,Edge], [8:0-3-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.28 11-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.36 11-13 >862 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.04 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.03 11-13 >999 240	Weight: 161 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-10, 3-14

REACTIONS. (size) 14=0-5-8, 10=0-3-8
 Max Horz 14=-264(LC 10)
 Max Uplift 14=-74(LC 12), 10=-74(LC 13)
 Max Grav 14=1103(LC 1), 10=1103(LC 1)

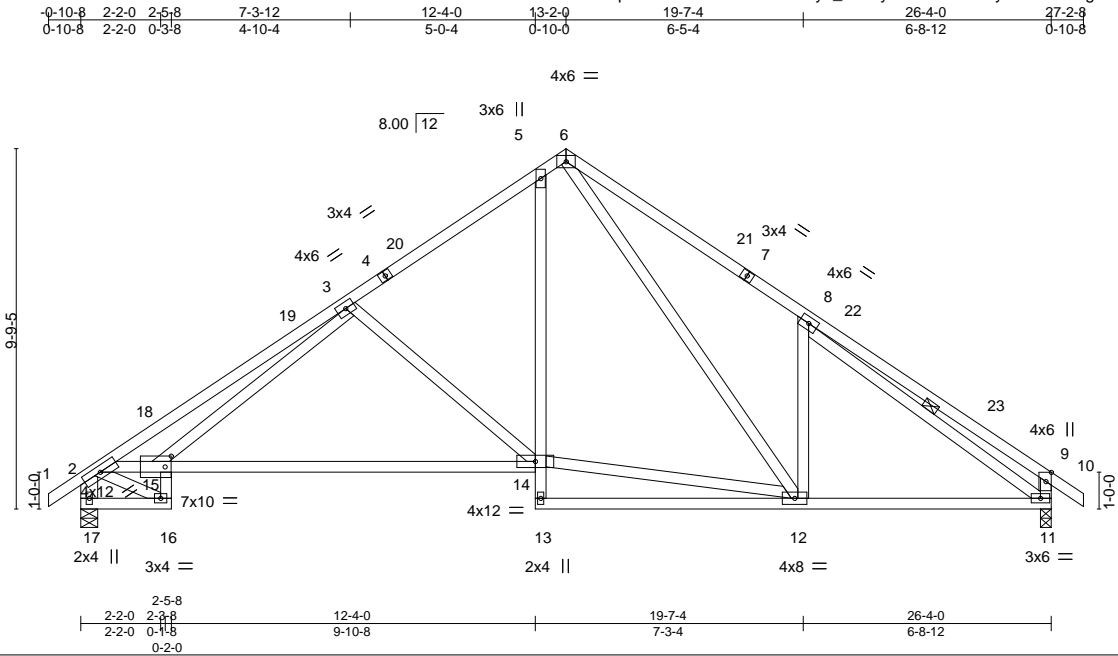
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-14=-470/227, 2-3=-514/236, 3-5=-1249/273, 5-7=-1250/273, 7-8=-514/236, 8-10=-470/226
 BOT CHORD 13-14=-78/1189, 11-13=0/810, 10-11=-49/1038
 WEBS 5-11=-105/609, 7-11=-325/223, 7-10=-1011/18, 5-13=-105/609, 3-13=-326/222, 3-14=-1012/18

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-2-0, Exterior(2) 13-2-0 to 17-4-15, Interior(1) 17-4-15 to 27-2-8 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) All plates are MT20 plates unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.



Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek	144656082
AC1018-R	C03T	SPECIAL	3	1		

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:03 2021 Page 1
 ID:SPpPQnXRhh0KJETLEiz6Peyo_e3-MyuUPQM32QIPyEING76ledg4ZnOAW8mAxRti2kzostw



Scale = 1:62.5

Plate Offsets (X,Y)--	[9:0-3-0,Edge], [15:0-2-0,0-3-8]				
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 0.66	Vert(LL) -0.30 14-15 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.65 14-15 >480 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT) 0.11 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.09 14-15 >999 240	Weight: 177 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 15-16,5-13; 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 14-15.
WEBS 2x4 SP No.3 *Except* 2-17: 2x6 SP No.2	WEBS 1 Row at midpt 8-11

REACTIONS. (size) 17=0-5-8, 11=0-3-8
 Max Horz 17=-268(LC 10)
 Max Uplift 17=-72(LC 12), 11=-74(LC 13)
 Max Grav 17=1105(LC 1), 11=1099(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-17=-1116/205, 2-3=-2091/121, 3-5=-1124/215, 5-6=-649/223, 6-8=-1333/332,
 8-9=-487/252, 9-11=-463/234
 BOT CHORD 16-17=-288/402, 2-15=-18/1827, 14-15=-85/1264, 5-14=-22/617, 11-12=-38/1039
 WEBS 3-15=-12/819, 3-14=-553/197, 12-14=0/734, 6-12=-233/507, 8-12=-347/258,
 8-11=-952/0, 2-16=-452/241

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-2-0, Exterior(2) 13-2-0 to 17-4-15, Interior(1) 17-4-15 to 27-2-8 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 11. This connection is for uplift only and does not consider lateral forces.

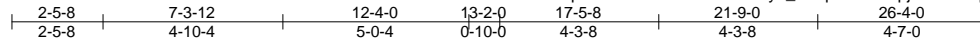


Job AC1018-R	Truss C04GRT	Truss Type SPECIAL	Qty 1	Ply 3	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656083
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:04 2021 Page 1

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Scale = 1:62.2

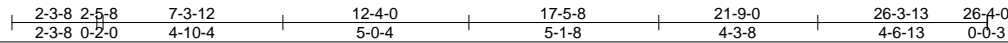
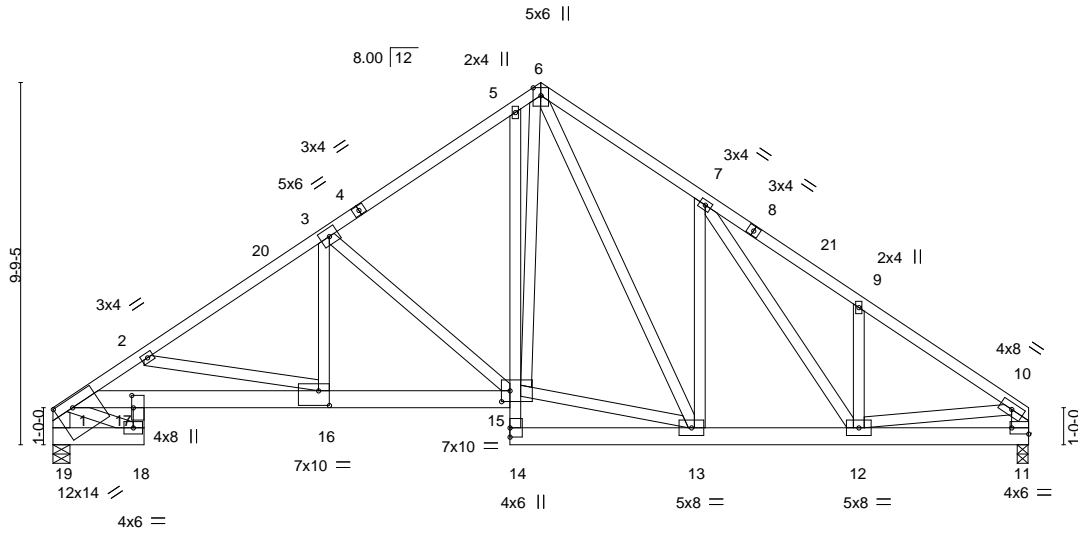


Plate Offsets (X, Y)-- [11:Edge,0-2-0], [15:0-2-12,0-3-8], [16:0-3-8,0-4-12], [17:0-4-0,0-0-8], [19:0-2-5,0-1-8], [19:0-5-8,0-3-0]

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 0.72	Vert(LL)	-0.16	16-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.32	16-17	>979		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.48	Horz(CT)	0.18	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.15	16-17	>999		
								Weight: 658 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2 *Except* 17-18,5-14: 2x4 SP No.2, 1-15: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-19,10-11: 2x6 SP No.2	

REACTIONS. (size) 19=0-5-8, 11=0-3-8
 Max Horz 19=244(LC 6)
 Max Uplift 19=1425(LC 8), 11=1172(LC 9)
 Max Grav 19=8738(LC 17), 11=7266(LC 17)

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

TOP CHORD 1-19=8397/1380, 1-2=13319/2280, 2-3=12567/2063, 3-5=7894/1310, 5-6=7393/1298, 6-7=8212/1447, 7-9=8921/1566, 9-10=8979/1442, 10-11=6107/1004

BOT CHORD 18-19=436/2151, 17-18=281/1469, 1-17=1887/10384, 16-17=2065/11365, 15-16=1707/10383, 14-15=140/1003, 5-15=78/602, 13-14=97/628, 12-13=1014/6853, 11-12=238/1264

WEBS 2-16=1178/369, 3-16=946/5741, 3-15=5127/972, 13-15=793/5456, 6-15=1094/6097, 6-13=510/2148, 7-13=740/261, 7-12=312/1035, 10-12=929/6236, 1-18=1417/304

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDD=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=1425.
 - Two RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
 - Double installations of RT7A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in angle plates.



Job AC1018-R	Truss C04GRT	Truss Type SPECIAL	Qty 1	Ply 3	McKee-PalazzoCOL;Lot 1018 AndersonCreek I44656083 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:04 2021 Page 2
ID:SPpPQnXRhh0KJETLElz6Peyo_e3-q9StcmNhpjtGZOKZqqeXArCELBn6FdeK95cFaAzostv

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-10=-60, 18-19=-640(F=-620), 15-17=-637(F=-617), 11-14=-423(F=-403)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

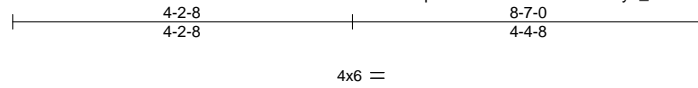
Job AC1018-R	Truss D04	Truss Type COMMON	Qty 2	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656084
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Builders FirstSource (Apex, NC),

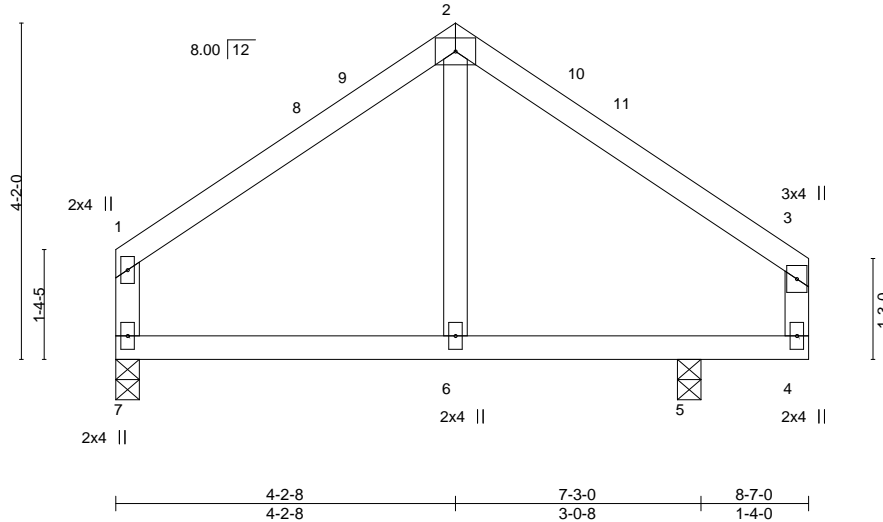
Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:05 2021 Page 1

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Scale = 1:28.5



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 0.42	Vert(LL)	-0.04 6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.07 6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	0.02 6-7	>999	240	Weight: 36 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.

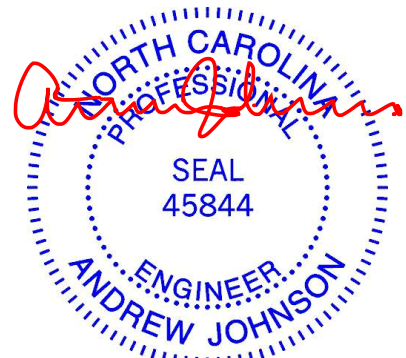
REACTIONS.

(size) 7=0-3-8, 5=0-3-8
 Max Horz 7=-110(LC 10)
 Max Uplift 7=-28(LC 12), 5=-37(LC 13)
 Max Grav 7=268(LC 1), 5=395(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=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-4 to 3-8-4, Interior(1) 3-8-4 to 4-9-0, Exterior(2) 4-9-0 to 8-11-12 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) 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 6) STC24 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



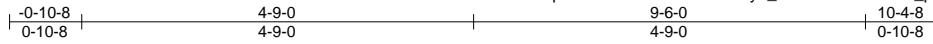
818 Soundside Road
 Edenton, NC 27932

Job AC1018-R	Truss D08G	Truss Type GABLE	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656085
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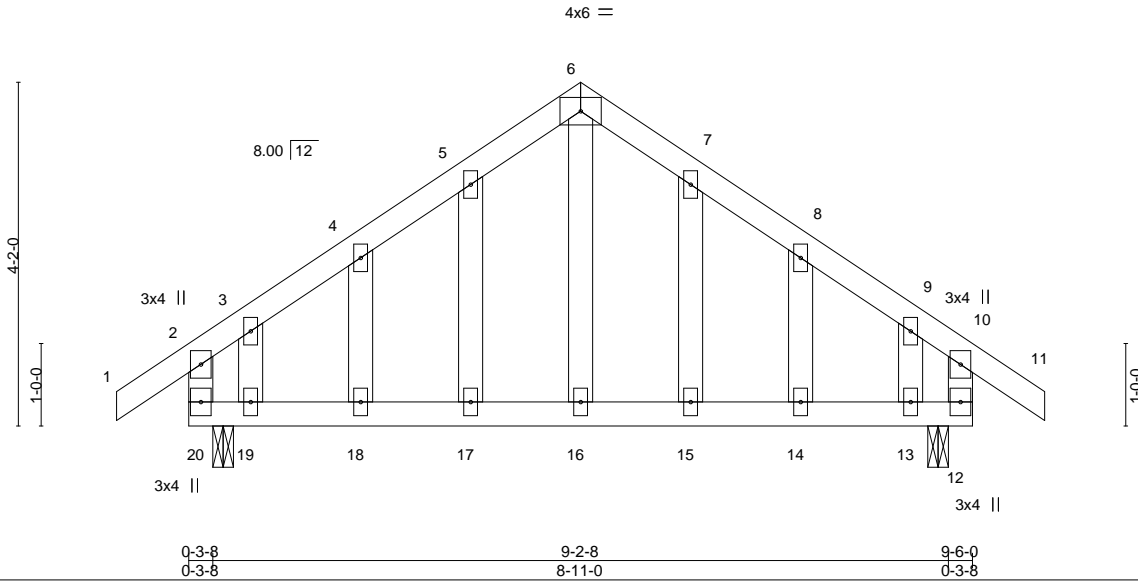
Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:06 2021 Page 1
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Scale = 1:27.9



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 0.38	Vert(LL)	-0.02 17-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.03 17-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R	Wind(LL)	0.02 18	>999	240	Weight: 58 lb	FT = 20%

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

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

REACTIONS. (size) 20=0-3-0, 12=0-3-0
Max Horz 20=-123(LC 10)
Max Uplift 20=-62(LC 12), 12=-62(LC 13)
Max Grav 20=430(LC 1), 12=430(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-357/57, 3-4=-329/70, 4-5=-298/103, 5-6=-311/140, 6-7=-311/140, 7-8=-298/103,
8-9=-329/70, 9-10=-357/57, 2-20=-356/120, 10-12=-356/120
BOT CHORD 19-20=0/250, 18-19=0/250, 17-18=0/250, 16-17=0/250, 15-16=0/250, 14-15=0/250,
13-14=0/250, 12-13=0/250

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-0, Exterior(2) 2-1-0 to 4-9-0, Corner(3) 4-9-0 to 7-9-0, Exterior(2) 7-9-0 to 10-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 1-4-0 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 12. This connection is for uplift only and does not consider lateral forces.



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
Edenton, NC 27932

Job AC1018-R	Truss D09	Truss Type COMMON	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek Job Reference (optional)	144656086
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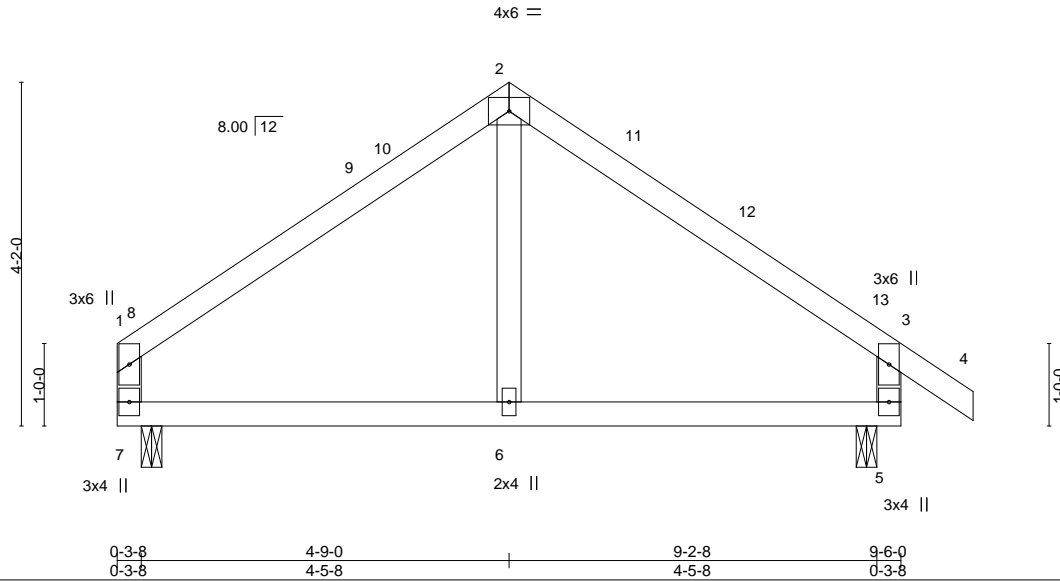
Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:07 2021 Page 1

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Scale = 1:27.9



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 0.45	Vert(LL)	-0.01 5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.03 5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	-0.01 6-7	>999	240	Weight: 40 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 7=0-3-0, 5=0-3-0
 Max Horz 7=-117(LC 8)
 Max Uplift 7=-34(LC 12), 5=-56(LC 13)
 Max Grav 7=365(LC 1), 5=433(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-7=-304/104, 1-2=-359/96, 2-3=-365/95, 3-5=-375/152

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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 3-1-12, Interior(1) 3-1-12 to 4-9-0, Exterior(2) 4-9-0 to 8-11-15, Interior(1) 8-11-15 to 10-4-8 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.

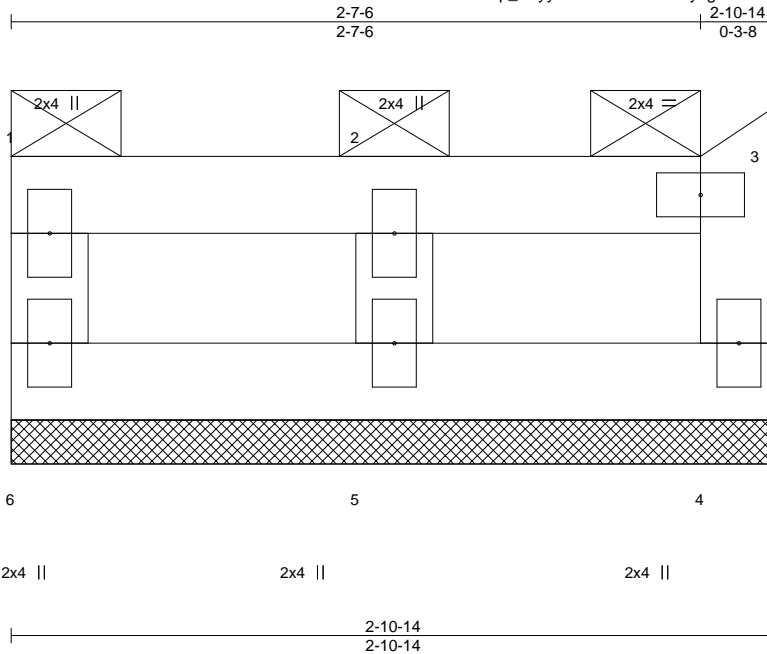


Job AC1018-R	Truss GBL01	Truss Type GABLE	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656087
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:08 2021 Page 1
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Scale = 1:8.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R					Weight: 11 lb	FT = 20%
	Code IRC2015/TPI2014							

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

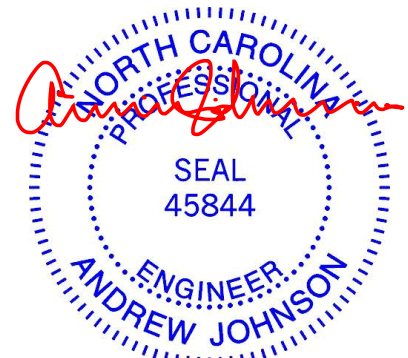
BRACING-
TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=2-10-14, 4=2-10-14, 5=2-10-14
Max Horz 6=-26(LC 8)
Max Uplift 6=-13(LC 8), 4=-12(LC 9), 5=-24(LC 9)
Max Grav 6=44(LC 1), 4=44(LC 1), 5=121(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) N/A
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

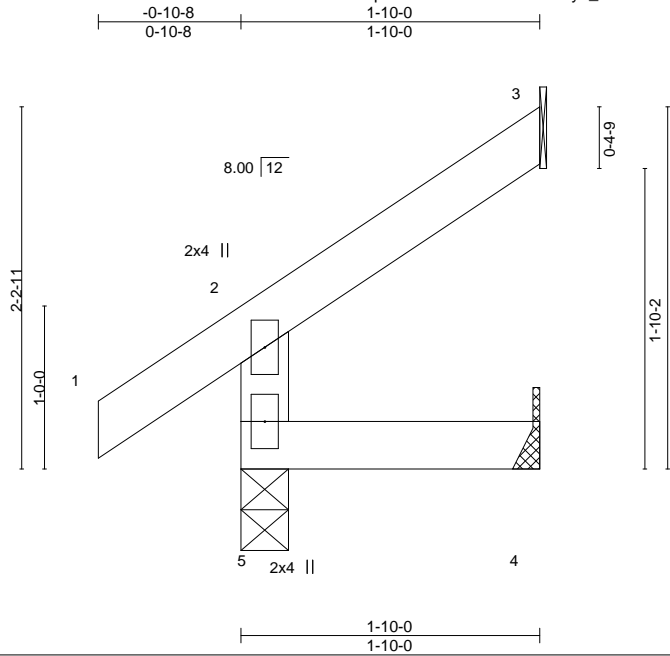
Job AC1018-R	Truss J01	Truss Type JACK	Qty 4	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656088
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:09 2021 Page 1

ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-A6FmTRpeGWYg9CXdnDituvF9Cgwx_P3JNK0FOzostq



Scale = 1:14.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL)	0.00	5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR					Weight: 9 lb	FT = 20%
	Code IRC2015/TPI2014							

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 1-10-0 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=57(LC 12)
 Max Uplift 5=3(LC 12), 3=40(LC 12), 4=5(LC 12)
 Max Grav 5=147(LC 1), 3=44(LC 19), 4=30(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

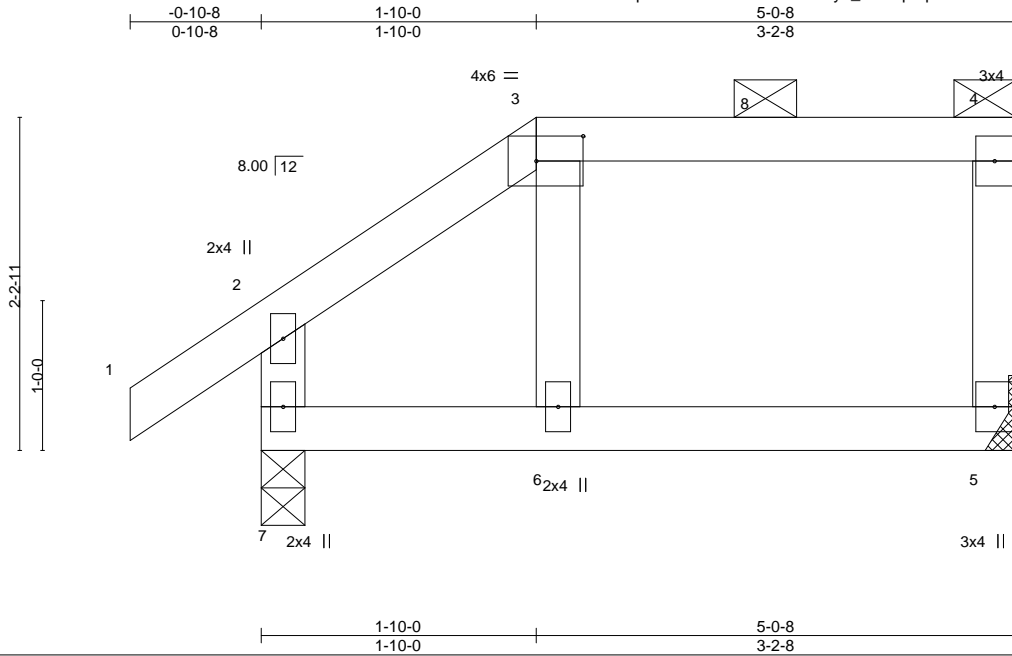
Job AC1018-R	Truss J02	Truss Type MONO HIP	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656089
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:10 2021 Page 1

ID:SPpPQnXRhh0KJETLElz6Peyo_e3-eJp8tpRSPZePHJnJB5kxQ6SLUcyPfROCY13aoqzostp



Scale = 1:15.4

Plate Offsets (X,Y)--	[3:0-3-12,0-2-0]				
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 0.42	Vert(LL) -0.02 6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.04 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR	Wind(LL) 0.02 6 >999 240	Weight: 23 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 7=0-3-8, 5=Mechanical
 Max Horz 7=84(LC 5)
 Max Uplift 7=-83(LC 8), 5=-71(LC 5)
 Max Grav 7=429(LC 1), 5=310(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-312/77

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=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) 5.
 - 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
 - 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=-96(F=-36), 2-3=-96(F=-36), 3-4=-96(F=-36), 5-7=-39(F=-19)



Job AC1018-R	Truss J03	Truss Type MONO HIP	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656090
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:10 2021 Page 1

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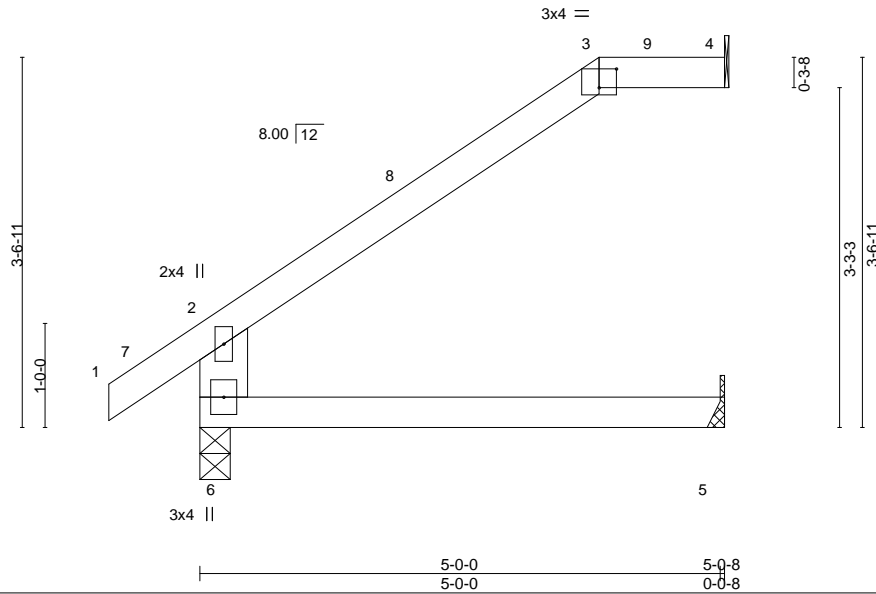


Plate Offsets (X,Y)-- [3:0-2-0,0-2-3]

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 0.34	Vert(LL)	-0.02	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.05	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.08	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	0.04	5-6	>999	Weight: 20 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x6 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-8 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) 6=0-3-8, 5=Mechanical, 4=Mechanical
 Max Horz 6=105(LC 12)
 Max Uplift 6=-21(LC 12), 4=-71(LC 12)
 Max Grav 6=265(LC 1), 5=89(LC 3), 4=127(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-0, Exterior(2) 3-10-0 to 5-0-4 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



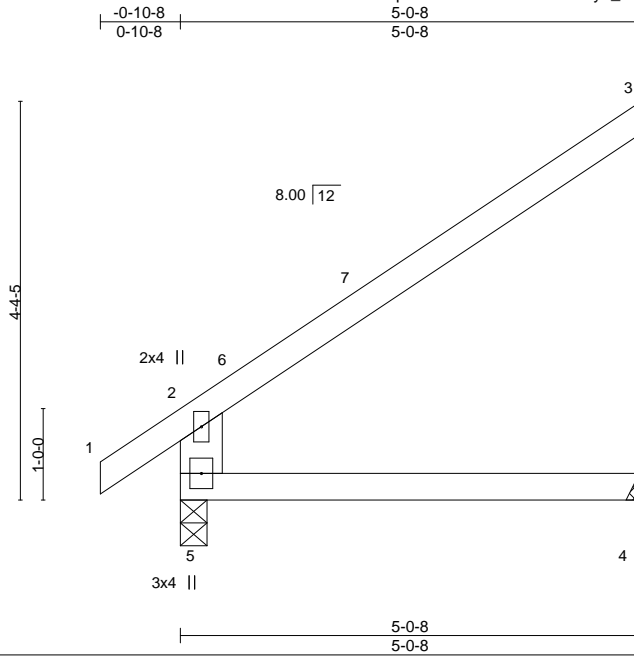
Job AC1018-R	Truss J05	Truss Type JACK	Qty 6	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656091
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:11 2021 Page 1

ID:SPpPQnXRhh0KJETLElz6Peyo_e3-7VNW49S4AtmGvTMvkoGAzJ?XF01Y0uulmhp7KGzosto



Scale = 1:25.2

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)	0.04 4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.05 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.04 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR					Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-8 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=139(LC 12)
 Max Uplift 3=100(LC 12)
 Max Grav 5=265(LC 1), 3=141(LC 19), 4=89(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-0-4 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
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.



February 3, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

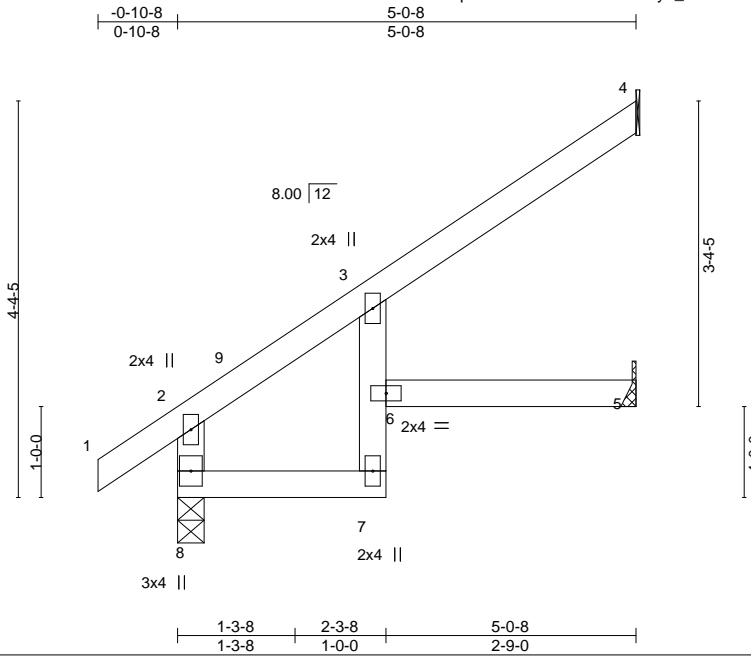
Job AC1018-R	Truss J06T	Truss Type MONO TRUSS	Qty 6	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656092
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:12 2021 Page 1

ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-bhxuVTixBu7Xdx5IWnPVXXf2PgJ7LXV?KYgsjzostn



Scale = 1:25.3

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 0.54	Vert(LL)	0.14	7	>412	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.13	7	>436		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.09	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 22 lb	FT = 20%

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

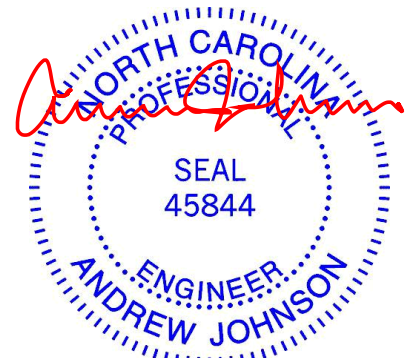
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 8=0-3-8, 5=Mechanical
 Max Horz 8=140(LC 12)
 Max Uplift 4=-117(LC 12)
 Max Grav 4=180(LC 19), 8=262(LC 1), 5=56(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-254/83

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 5-0-4 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
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=117.



February 3, 2021

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

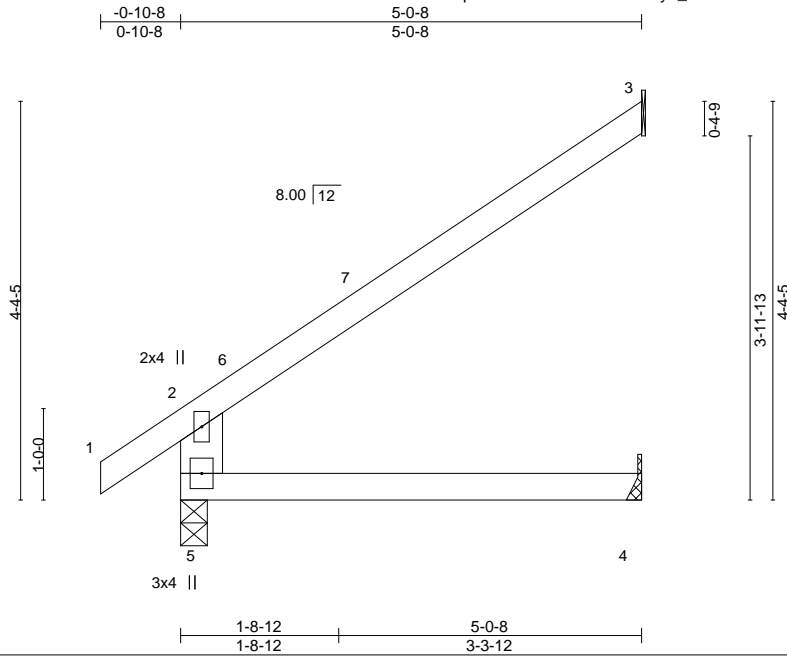
Job AC1018-R	Truss J08	Truss Type COMMON	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656093
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:13 2021 Page 1

ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-3tVGVrUKIU0_8nWisDle2k4tlpz0soeE_IEO9zostm



Scale = 1:25.2

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)	0.04 4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.05 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.04 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR					Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

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

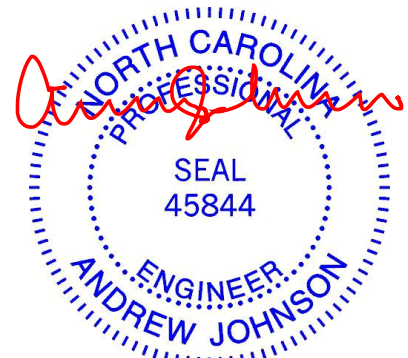
REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=139(LC 12)
 Max Uplift 3=-100(LC 12)
 Max Grav 5=265(LC 1), 3=141(LC 19), 4=89(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-0-4 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
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.



February 3, 2021

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Job AC1018-R	Truss J09G	Truss Type GABLE	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656094
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Builders FirstSource (Apex, NC),

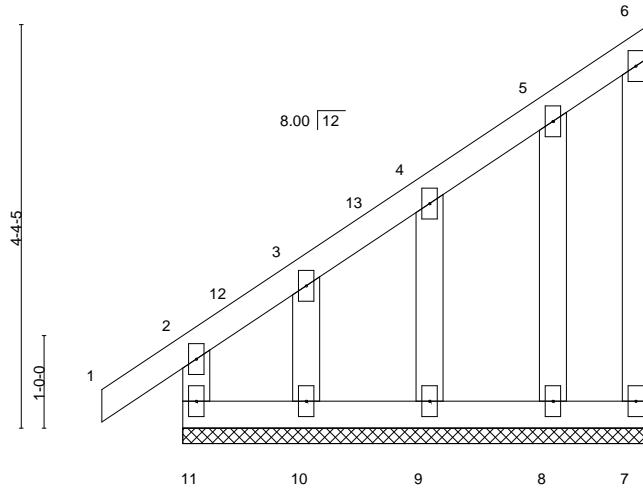
Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:14 2021 Page 1

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Scale = 1:24.9



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)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 35 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

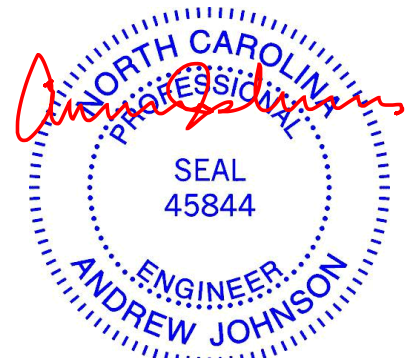
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-0-8.
 (lb) - Max Horz 11=137(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 11, 7, 9, 8 except 10=-159(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 11, 7, 10, 9, 8

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=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-10-12 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) 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 1-4-0 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.



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



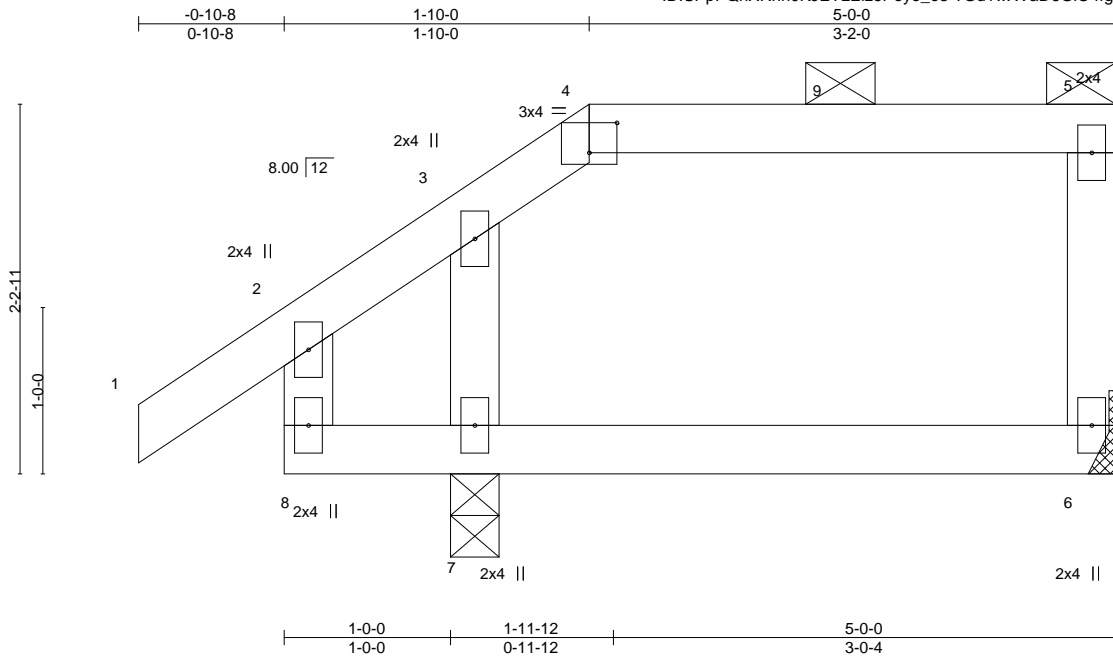
818 Soundside Road
 Edenton, NC 27932

Job AC1018-R	Truss J10	Truss Type MONO HIP	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656095
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:15 2021 Page 1
ID:SPpPQnXRhh0KJETLElz6Peyo_e3-?Gd1wXVaD6GiO4fgzeK6799FndhuKiyxhInLTzostk



Scale = 1:13.9

Plate Offsets (X,Y)--	[4:0-2-0,0-2-3]				
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 0.26	Vert(LL) -0.01 6-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.01 6-7 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.06	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR	Wind(LL) 0.00 6-7 >999 240	Weight: 22 lb	FT = 20%

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

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

REACTIONS. (size) 6=Mechanical, 7=0-3-8
Max Horz 7=84(LC 9)
Max Uplift 6=-56(LC 9), 7=-80(LC 12)
Max Grav 6=182(LC 24), 7=412(LC 1)

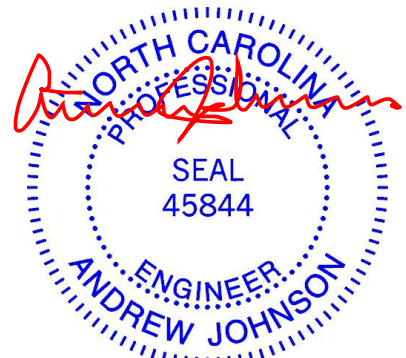
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-277/205

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=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) 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) 6.
- 8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 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: 6-8=-29(F=-9), 1-2=-60, 2-4=-80(F=-20), 4-5=-80(F=-20)



February 3, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

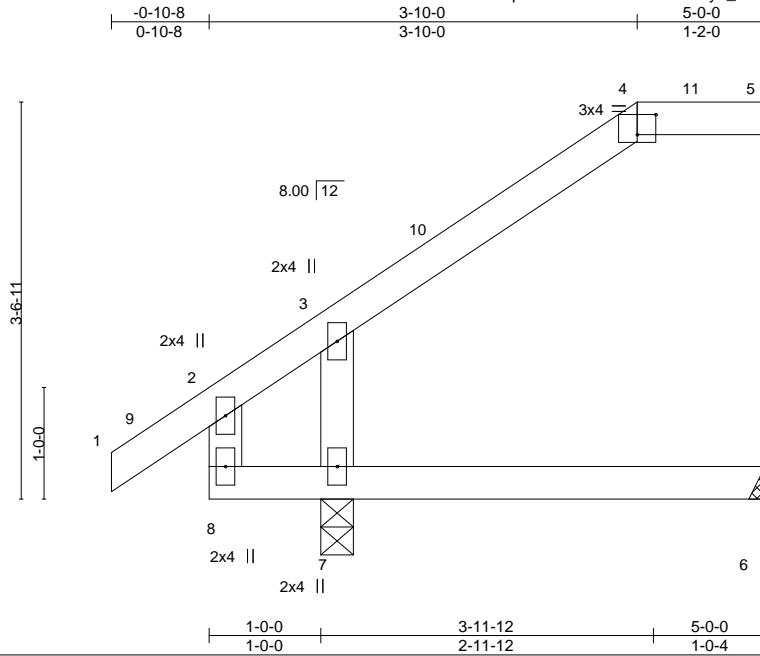
Job AC1018-R	Truss J11	Truss Type MONO HIP	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656096
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:15 2021 Page 1

ID:SPpPQnXRhh0KJETLElz6Peyo_e3-?Gd1wXVaD6GiO4fgzeK6799FMdg6Ki0xhInLTzostk



Scale = 1:20.6

Plate Offsets (X,Y)--	[4:0-2-0,0-2-3]				
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 0.22	Vert(LL) -0.01 6-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.02 6-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) -0.08 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.02 6-7 >999 240	Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 6=Mechanical, 5=Mechanical, 7=0-3-8
 Max Horz 7=110(LC 12)
 Max Uplift 6=-4(LC 12), 5=-60(LC 12), 7=-24(LC 12)
 Max Grav 6=64(LC 3), 5=89(LC 1), 7=329(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-0, Exterior(2) 3-10-0 to 4-11-12 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job AC1018-R	Truss J12	Truss Type JACK	Qty 8	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656097
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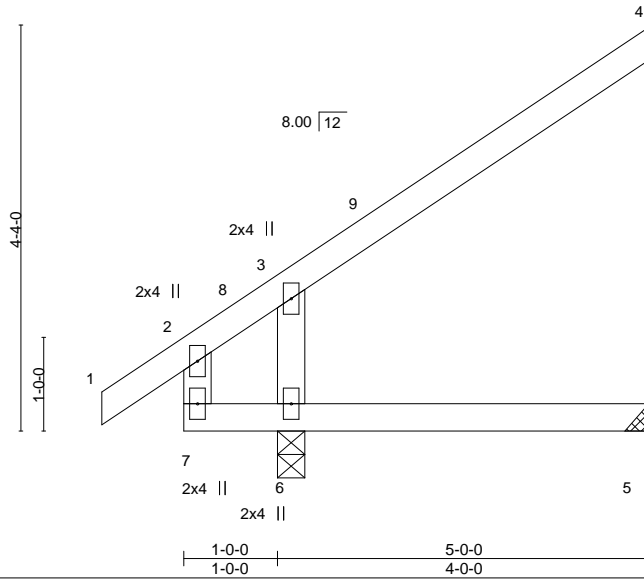
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:16 2021 Page 1

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Scale = 1:24.6



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)	0.02 5-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.01 5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.07 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 3-6: 2x4 SP No.3

BRACING-

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

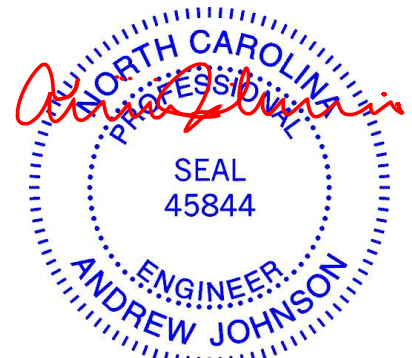
REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 6=0-3-8
 Max Horz 6=139(LC 12)
 Max Uplift 4=-91(LC 12), 5=-10(LC 12)
 Max Grav 4=107(LC 19), 5=63(LC 3), 6=328(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-11-12 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
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.



February 3, 2021

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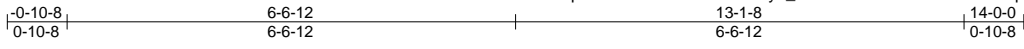
818 Soundside Road
 Edenton, NC 27932

Job AC1018-R	Truss SP01G	Truss Type GABLE	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek Job Reference (optional)	144656099
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

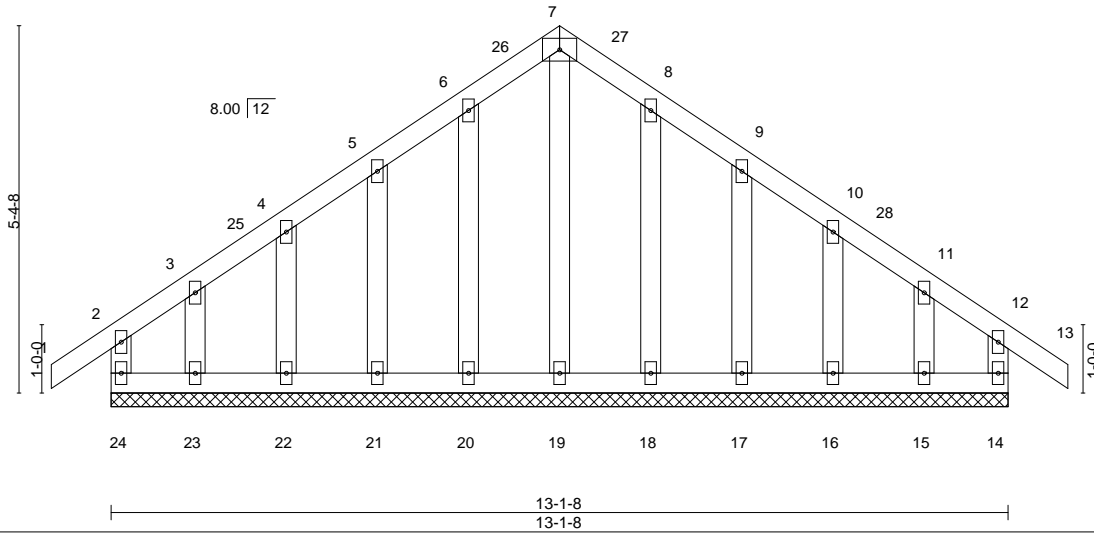
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:18 2021 Page 1

ID:SPpPQnXRhh0KJETLElz6Peyo_e3-QrI9YYTWT1eHFYOFmuplonntqIAX3iNNG??74Mzosth



4x6 =

Scale = 1:33.7



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	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 86 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 13-1-8.
 (lb) - Max Horz 24=154(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15
 Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-6-12, Exterior(2) 6-6-12 to 10-6-12, Interior(1) 10-6-12 to 14-0-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.



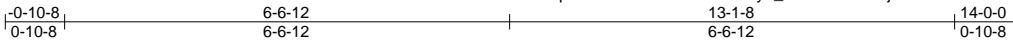
Job	Truss	Truss Type	Qty	Ply	McKee-PalazzoCOL;Lot 1018 AndersonCreek	144656100
AC1018-R	SP02	COMMON	4	1		

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:20 2021 Page 1

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4x6 =

Scale = 1:34.0

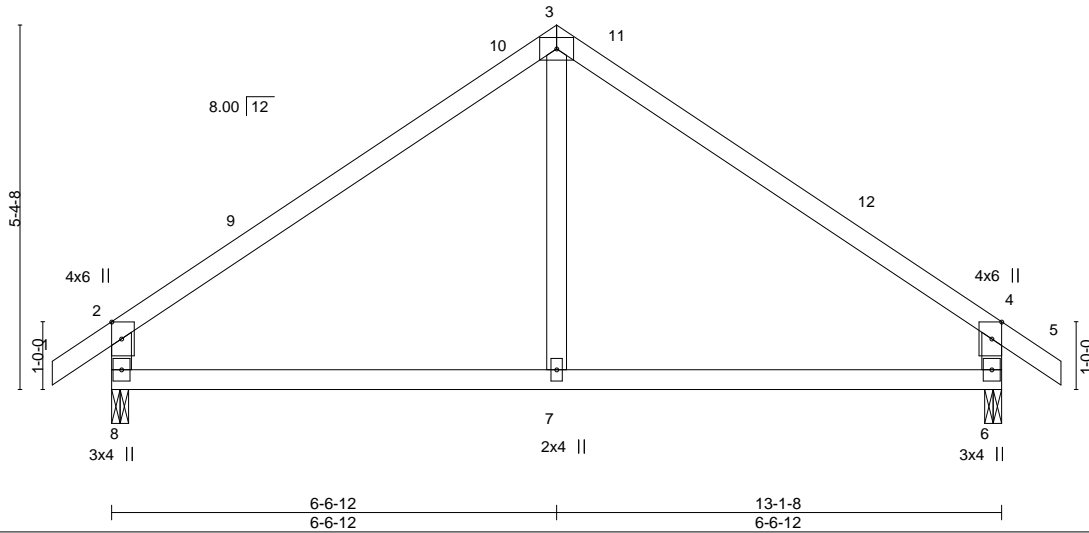


Plate Offsets (X,Y)--	[2:0-3-0,Edge], [4:0-3-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.80	Vert(LL) -0.04 7-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.08 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR	Wind(LL) -0.03 7-8 >999 240	Weight: 55 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 8=0-3-0, 6=0-3-0
 Max Horz 8=-154(LC 10)
 Max Uplift 8=-63(LC 12), 6=-63(LC 13)
 Max Grav 8=575(LC 1), 6=575(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-511/173, 2-3=-543/116, 3-4=-543/117, 4-6=-511/174
 BOT CHORD 7-8=0/368, 6-7=0/368
 WEBS 3-7=0/270

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-6-12, Exterior(2) 6-6-12 to 10-9-11, Interior(1) 10-9-11 to 14-0-0 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.

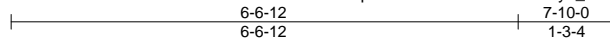


Job AC1018-R	Truss V01	Truss Type GABLE	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656101
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

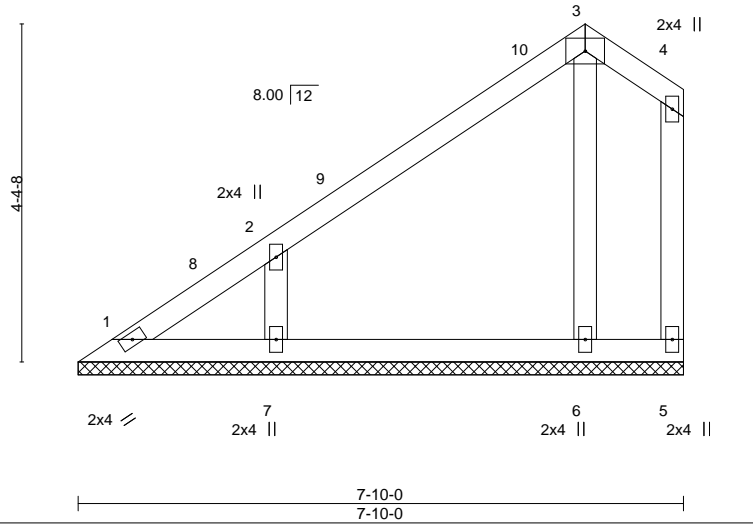
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:20 2021 Page 1

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4x6 =

Scale = 1:29.8



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 0.30	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 37 lb	FT = 20%

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

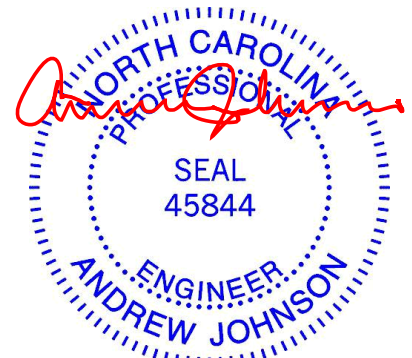
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-10-0.
(lb) - Max Horz 1=146(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6 except 7=-128(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=268(LC 19), 7=323(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-261/175

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-6-12, Exterior(2) 6-6-12 to 7-8-4 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) 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.
- 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 6, and 7. This connection is for uplift only and does not consider lateral forces.



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job AC1018-R	Truss V02	Truss Type GABLE	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656102
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Builders FirstSource (Apex, NC),

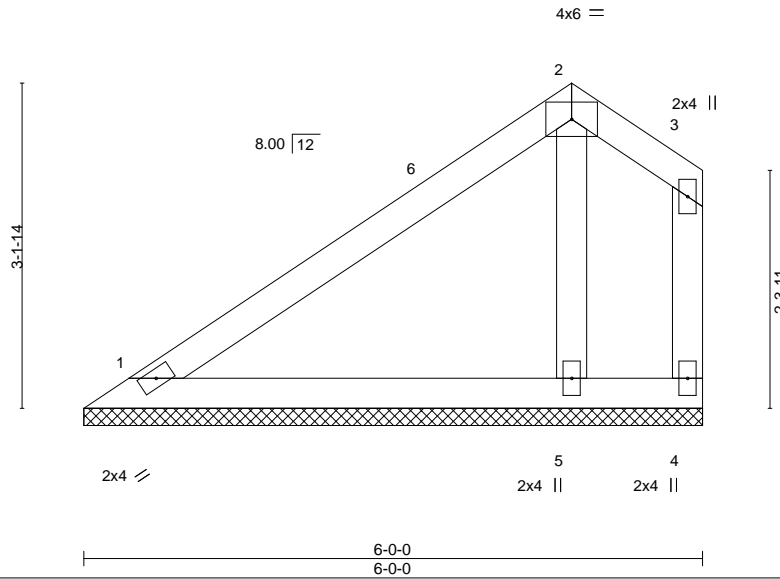
Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:21 2021 Page 1

ID:SPpQnXRhh0KJETLEz6Peyo_e3-qQ_IBaaLpy0r6?7qKvRXMQPAY2jpkQnq3EEfghzoste



Scale = 1:22.3



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 0.60	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	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-P						Weight: 26 lb	FT = 20%

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

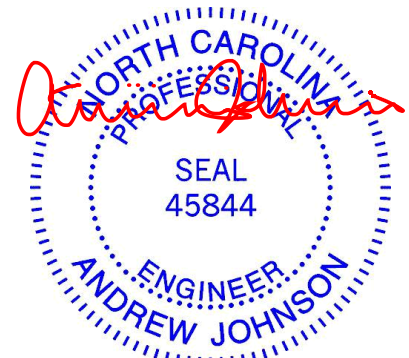
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-0-0, 4=6-0-0, 5=6-0-0
 Max Horz 1=99(LC 9)
 Max Uplift 1=-25(LC 12), 4=-39(LC 8), 5=-2(LC 9)
 Max Grav 1=161(LC 1), 4=30(LC 20), 5=273(LC 19)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-8-12, Exterior(2) 4-8-12 to 5-10-4 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



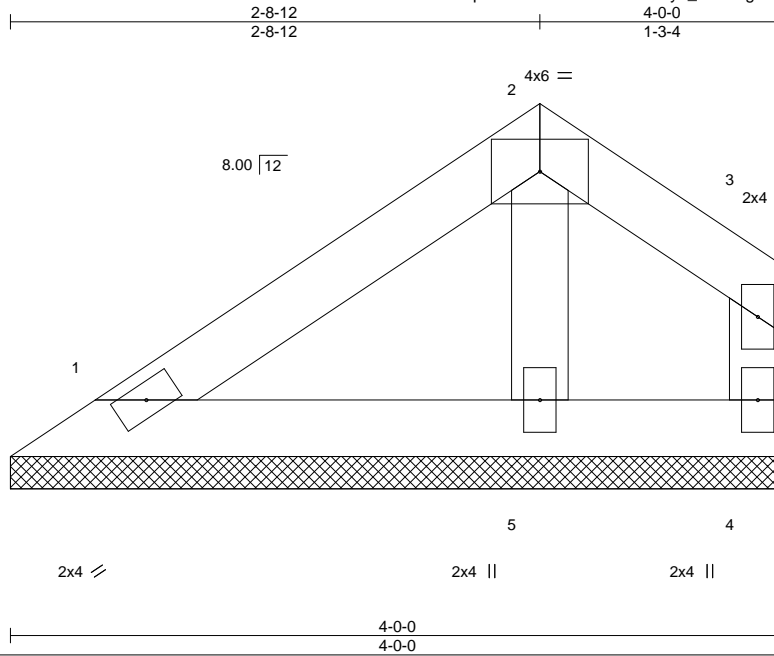
818 Soundside Road
 Edenton, NC 27932

Job AC1018-R	Truss V03	Truss Type GABLE	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656103
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:22 2021 Page 1
ID:SPpPQnXRhh0KJETLElz6Peyo_e3-lcYgOwbzaF9ij9i0ucymveySfR6wTtJzIuzCD8zostd



Scale: 1"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 15 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. (size) 1=4-0-0, 4=4-0-0, 5=4-0-0
Max Horz 1=48(LC 9)
Max Uplift 1=-16(LC 12), 4=-20(LC 13), 5=-2(LC 12)
Max Grav 1=86(LC 1), 4=45(LC 20), 5=153(LC 19)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

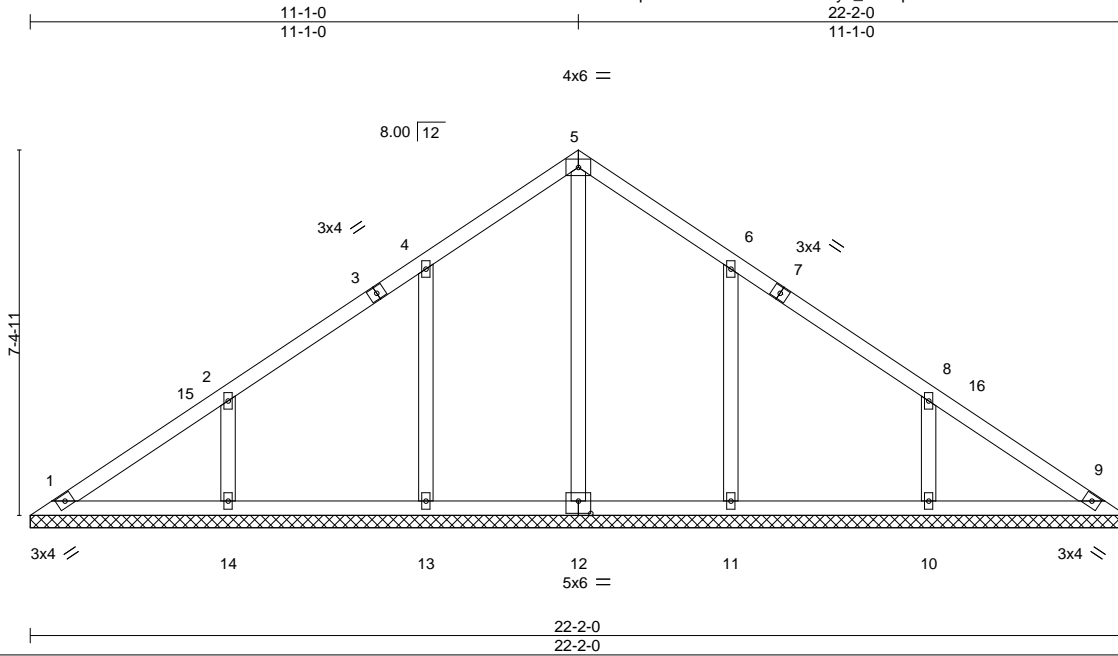


818 Soundside Road
Edenton, NC 27932

Job AC1018-R	Truss V29	Truss Type VALLEY	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656104
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:23 2021 Page 1
ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-mp62cGbcLZHZLJHJRJT?SrValrP?CIZ7XYjmlazostc



Scale = 1:46.6

Plate Offsets (X,Y)--	[12:0-3-0,0-3-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	n/a	-	n/a 999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.00	9	n/a n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 102 lb
							FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 22-2-0.
 (lb) - Max Horz 1=178(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 10=140(LC 13), 11=124(LC 13), 14=140(LC 12), 13=124(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 12=318(LC 22), 10=361(LC 20), 11=358(LC 20), 14=360(LC 19), 13=359(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 8-10=273/185, 2-14=272/185

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; TCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 11-1-0, Exterior(2) 11-1-0 to 14-2-0, Interior(1) 14-2-0 to 21-8-4 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
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.



February 3, 2021

Job AC1018-R	Truss V30	Truss Type VALLEY	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656105
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:25 2021 Page 1

ID:SPpQnXRhh0KJETLEIz6Peyo_e3-iBDp0ydstAXHadQbZkWTXGawuf5UgDkP_sCsqTzosta



4x6 =

Scale = 1:39.5

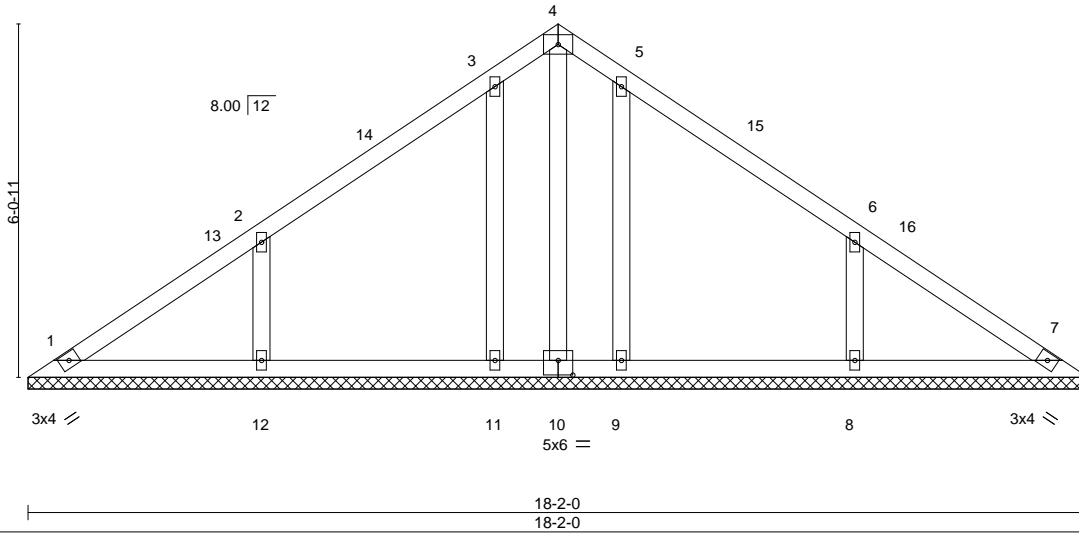


Plate Offsets (X,Y)--	[10:0-3-0,0-3-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL) n/a	- n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT) n/a	- n/a 999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT) 0.00	7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S			Weight: 87 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 18-2-0.
 (lb) - Max Horz 1=-144(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 9, 11 except 8=-145(LC 13), 12=-144(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10 except 8=370(LC 20), 9=286(LC 20), 12=370(LC 19), 11=289(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 6-8=-278/190, 2-12=-278/189

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-1-0, Exterior(2) 9-1-0 to 12-1-0, Interior(1) 12-1-0 to 17-8-4 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
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.



Job AC1018-R	Truss V31	Truss Type VALLEY	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656106
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:26 2021 Page 1

ID:SPpPQnXRhh0KJETLEiz6Peyo_e3-BOnBEHeUeUf8Cn?o7S1i3U76Y3RFPhpZDWxQMvzostZ



4x6 =

Scale = 1:30.8

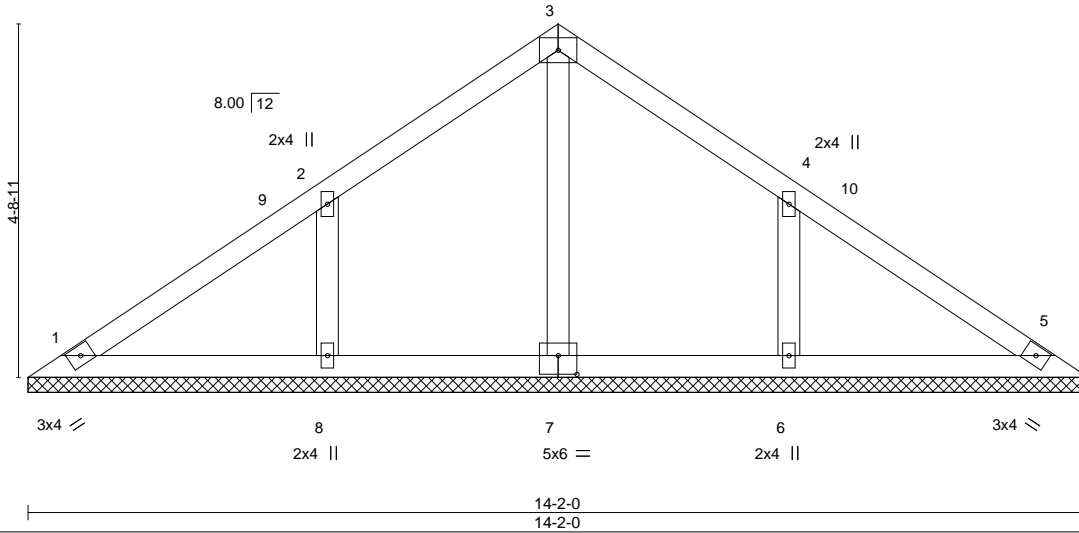


Plate Offsets (X,Y)--	[7:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 57 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 14-2-0.
 (lb) - Max Horz 1=111(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 6=-134(LC 13), 8=-134(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 6=340(LC 20), 8=341(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-6=-256/172, 2-8=-256/172

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-1-0, Exterior(2) 7-1-0 to 10-2-0, Interior(1) 10-2-0 to 13-8-4 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.



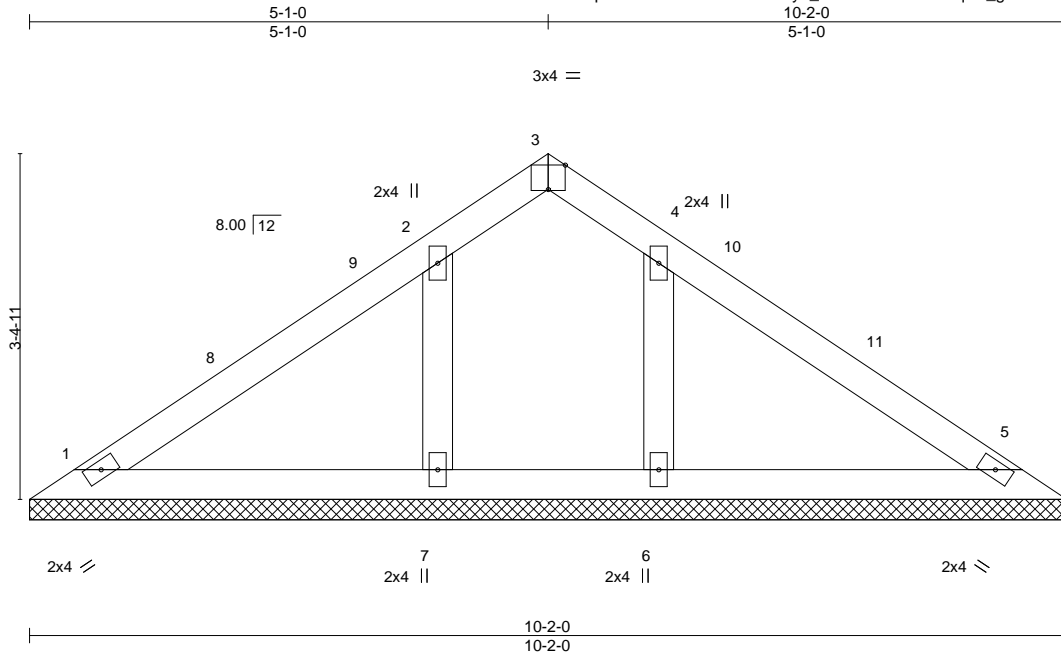
Job AC1018-R	Truss V32	Truss Type GABLE	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656107
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:27 2021 Page 1

ID:SPpPQnXRhh0KJETLEIz6Peyo_e3-faLZRde6Pon?qwa_g9YxchfHLsnW888iSAhzuLzostY



Scale = 1:22.6

Plate Offsets (X,Y)--	[3:0-2-0,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	n/a	-	n/a	999
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 0.05	Horz(CT)	0.00	5	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					
							PLATES	GRIP
							MT20	244/190
							Weight: 38 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 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-2-0.
 (lb) - Max Horz 1=-77(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 6=-108(LC 13), 7=-112(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=298(LC 20), 7=302(LC 19)

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=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 5-1-0, Exterior(2) 5-1-0 to 8-1-0, Interior(1) 8-1-0 to 9-8-4 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) 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.



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job AC1018-R	Truss V33	Truss Type VALLEY	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656108
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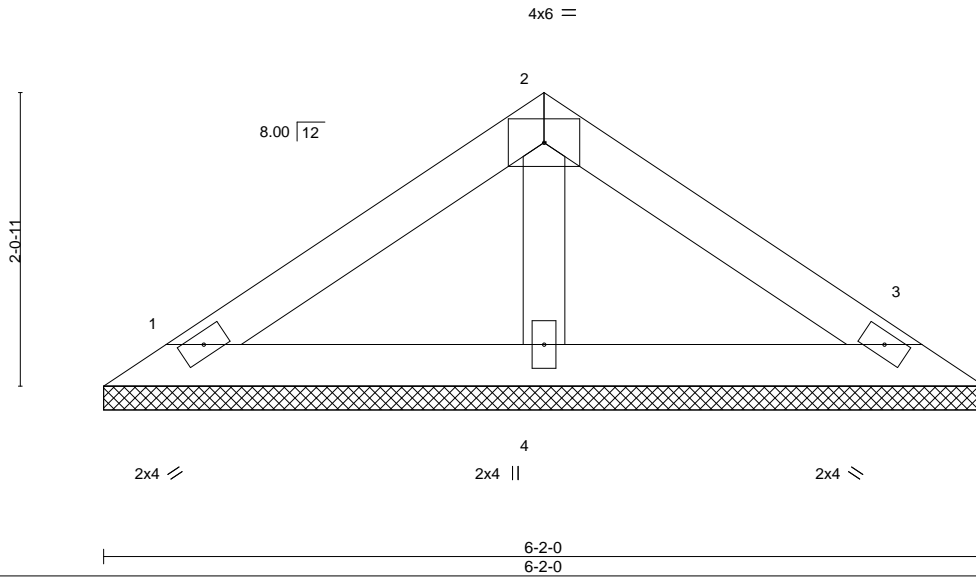
Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:28 2021 Page 1
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Scale: 3/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 21 lb	FT = 20%

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

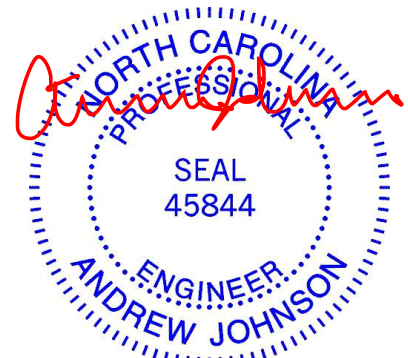
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-2-0, 3=6-2-0, 4=6-2-0
Max Horz 1=44(LC 10)
Max Uplift 1=26(LC 12), 3=32(LC 13)
Max Grav 1=111(LC 1), 3=111(LC 1), 4=193(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=130mph (3-second gust) Vasd=103mph; TC DL=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 26 lb uplift at joint 1 and 32 lb uplift at joint 3.



February 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

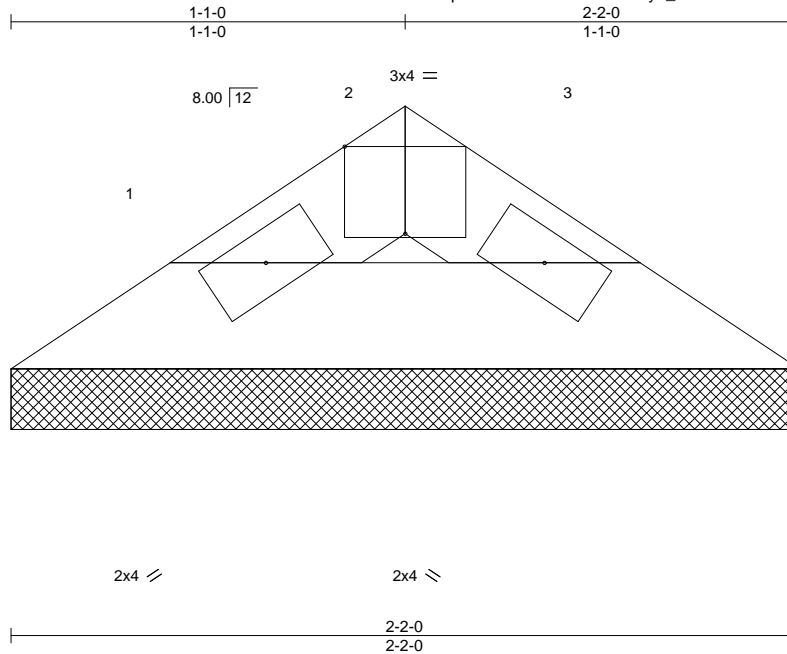
Job AC1018-R	Truss V34	Truss Type VALLEY	Qty 1	Ply 1	McKee-PalazzoCOL;Lot 1018 AndersonCreek 144656109
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 11:04:28 2021 Page 1

ID:SPpQnXRhh0KJETLEz6Peyo_e3-7mvxfzk95vsR49AEt3A9vCWKs9uta6sgqXQzostX



Scale = 1:6.3

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 0.01	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 6 lb	FT = 20%

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

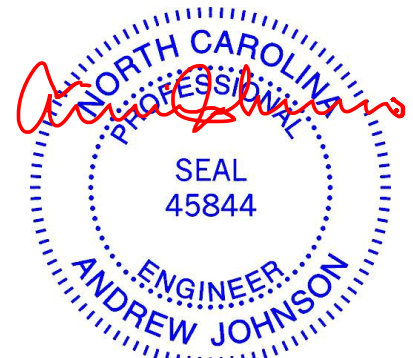
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-2-0, 3=2-2-0
Max Horz 1=10(LC 11)
Max Uplift 1=6(LC 12), 3=6(LC 13)
Max Grav 1=48(LC 1), 3=48(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=130mph (3-second gust) Vasd=103mph; 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 6 lb uplift at joint 1 and 6 lb uplift at joint 3.



February 3, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

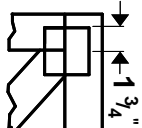
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



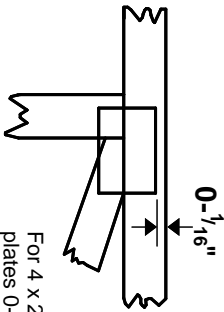
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

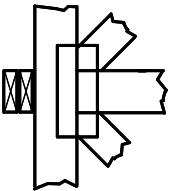
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



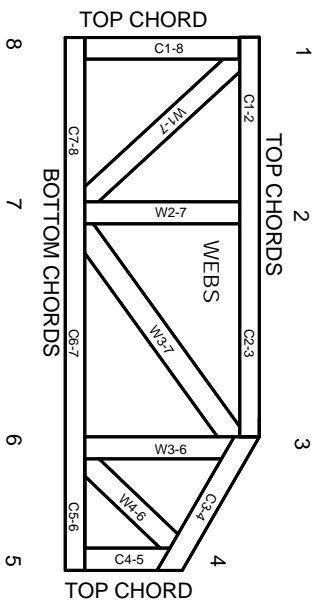
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: Mill-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.