ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Master_RT130
MCKEE; NELSON

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: I44818016 thru I44818052

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

North Carolina COA: C-0844

February 15,2021

Sevier, Scott

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	
MASTER_RT130	AT05GR	ATTIC	1	1	Job Reference (optional)	I44818019

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:19:57 2021 Page 1
ID:f0X_NZYyOMto?npzE4iXPzyeg2c-3Xc9vQzA6gWp0WO3rBt5rTbYLGU9UJy8YlTaUyzksuG

5-0-0	8-0-0	12-7-10	13-5-4	17-4-0	21-8-12	25-1-8	34-8-0	35-6-8
5-0-0	3-0-0	4-7-10	0-9-10	3-10-12	4-4-12	3-4-12	9-6-8	0-10-8

Scale = 1:81.6

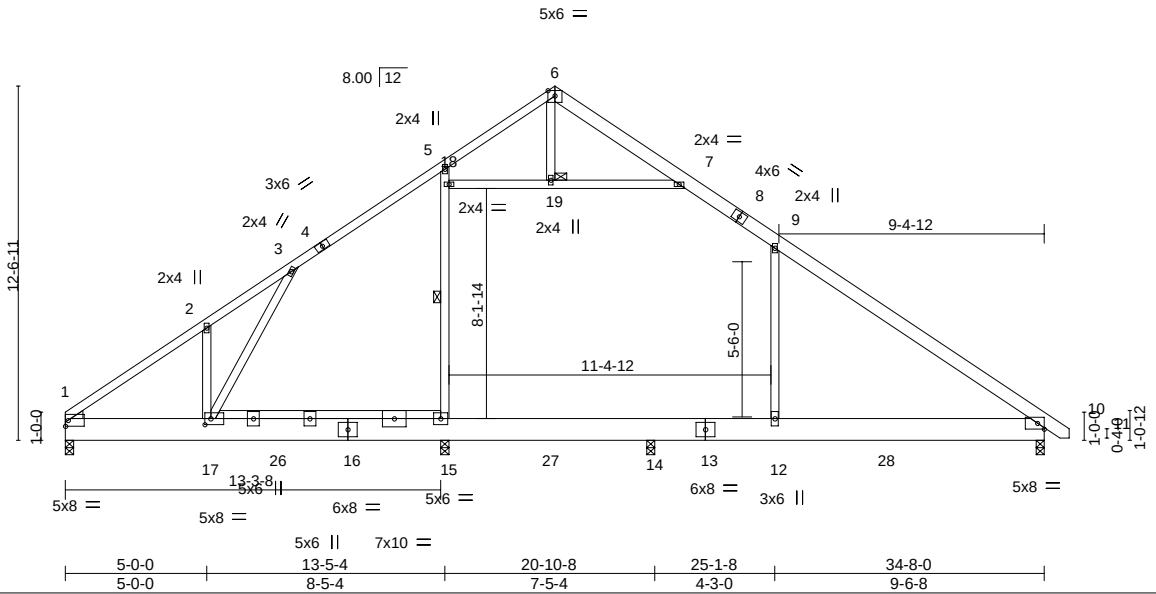

Plate Offsets (X,Y)-- [17:0-2-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.09	12-25	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.19	12-25	>899	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	17	>999	240	Weight: 285 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
6-8,8-11: 2x6 SP No.2
BOT CHORD 2x10 SP DSS *Except*
15-17: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-17,6-19,2-17: 2x4 SP No.3
WEDGE
Left: 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 8-3-4 oc bracing.
WEBS 1 Row at midpt 15-18
JOINTS 1 Brace at Jt(s): 19

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 1=-301(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 1, 10 except 15=-366(LC 8), 14=-181(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 1=749(LC 1), 15=2041(LC 16), 10=841(LC 1), 14=2228(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-626/105, 2-3=-595/73, 3-5=-645/138, 5-6=-356/91, 6-7=-323/48, 7-9=-671/102, 9-10=-718/0
BOT CHORD 1-17=0/407, 15-17=0/484, 14-15=0/493, 12-14=0/493, 10-12=0/493
WEBS 18-19=-268/120, 7-19=-272/120, 15-18=-387/230, 5-18=-303/240, 9-12=-567/258, 3-17=-273/199, 2-17=-335/231

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) 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) Ceiling dead load (5.0 psf) on member(s). 7-9, 18-19, 7-19; Wall dead load (5.0psf) on member(s).15-18, 9-12
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15, 12-14
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10 except (jt=lb) 15=366, 14=181.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1406 lb down and 154 lb up at 17-0-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) Attic room checked for L/360 deflection.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 15-20=-20, 12-15=-30, 12-23=-20, 1-6=-60, 6-7=-60, 7-9=-70, 9-11=-60, 7-18=-10
   Drag: 15-18=-10, 9-12=-10
   Concentrated Loads (lb)
   Vert: 27=-800(F)

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	
MASTER_RT130	AT07	ATTIC	1	1	Job Reference (optional)	I44818020

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:19:57 2021 Page 1
ID:f0X_NZYyOMto?npzE4iXPzyeg2c-3Xc9vQzA6gWp0WO3rBt5rTbaKGUrUFc8YlTaUyzksuG

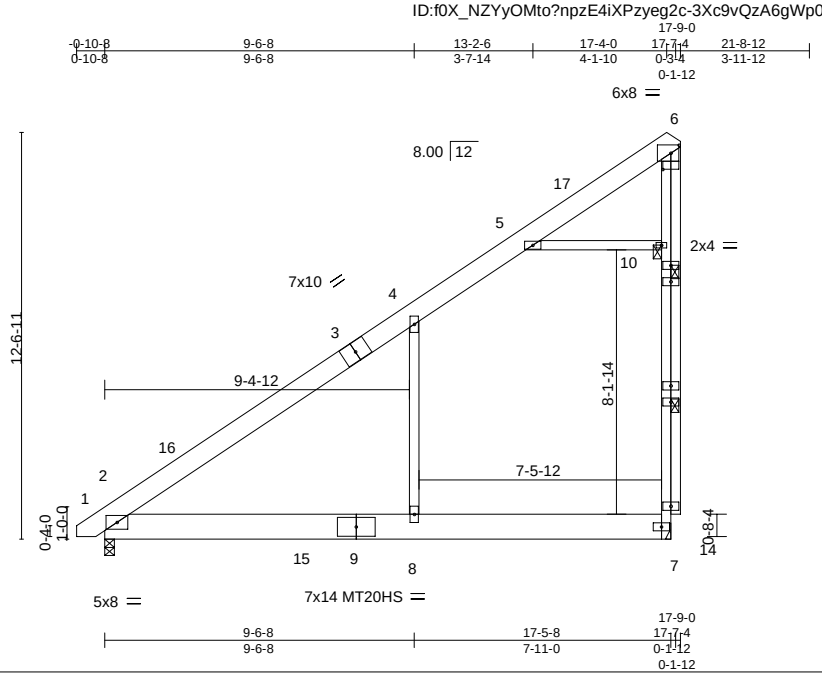

Plate Offsets (X,Y)-- [6:0-3-0,0-3-0], [10:0-0-8,2-4-1]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.39	8	>537	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.71	8	>293	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.33	8-13	>624	240	Weight: 186 lb	FT = 20%

LUMBER-

TOP CHORD	2x8 SP DSS
BOT CHORD	2x10 SP DSS
WEBS	2x4 SP No.2 *Except*
	6-7: 2x4 SP SS
OTHERS	2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-3-5 oc bracing.
WEBS	2 Rows at 1/3 pts 6-14
JOINTS	1 Brace at Jt(s): 10

REACTIONS. (size) 2=0-3-8, 14=Mechanical
Max Horz 2=380(LC 12)
Max Uplift 14=-80(LC 12)
Max Grav 2=735(LC 20), 14=1149(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-346/161, 5-6=-159/430
WEBS 5-10=-294/80, 7-10=0/682, 6-10=0/677, 6-14=-1149/80

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) -0-6-15 to 2-5-1, Interior(1) 2-5-1 to 17-7-4 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) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-10; Wall dead load (5.0psf) on member(s).4-8, 7-10
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 7-8
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14.
10) Attic room checked for L/360 deflection.

February 15,2021

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	
MASTER_RT130	AT08	ATTIC	1	1	Job Reference (optional)	I44818021

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:19:58 2021 Page 1
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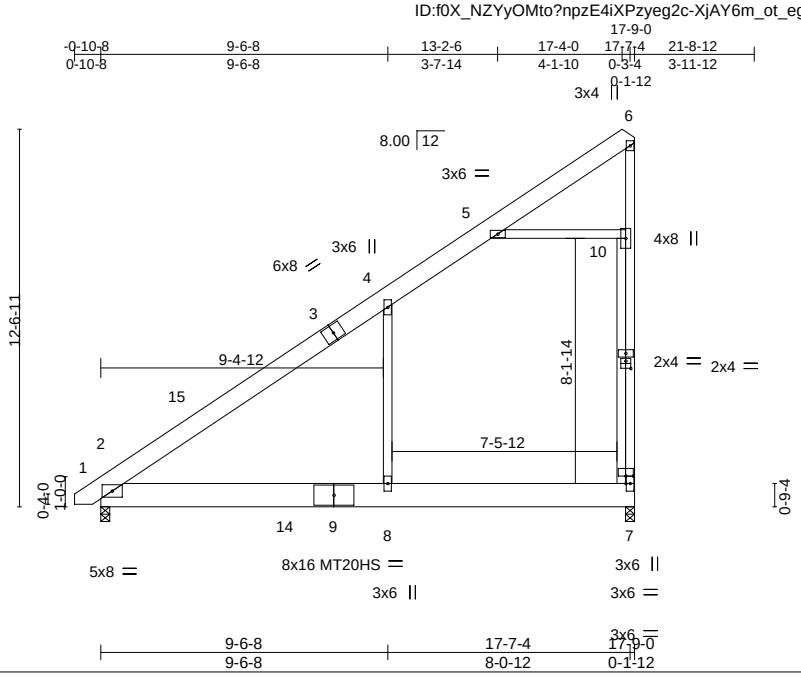

Plate Offsets (X,Y)-- [7:0-3-0,0-0-0], [10:0-0-0,4-0-15], [10:0-2-0,3-9-15], [10:0-0-0,4-0-15]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.38	8-13	>557	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.70	8-13	>303	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.30	8-13	>699	240	Weight: 183 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP DSS
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2 *Except*
6-7: 2x4 SP No.1

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

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=371(LC 11)
Max Uplift 2=-11(LC 12), 7=-85(LC 12)
Max Grav 2=736(LC 21), 7=1087(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-432/326, 5-6=-102/284, 7-10=-394/115, 6-10=-371/130
WEBS 5-10=-341/206, 4-8=-375/261

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) -0-6-15 to 2-5-1, Interior(1) 2-5-1 to 17-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
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) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-10; Wall dead load (5.0psf) on member(s).4-8
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 7-8
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
8) Attic room checked for L/360 deflection.

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TRENCO
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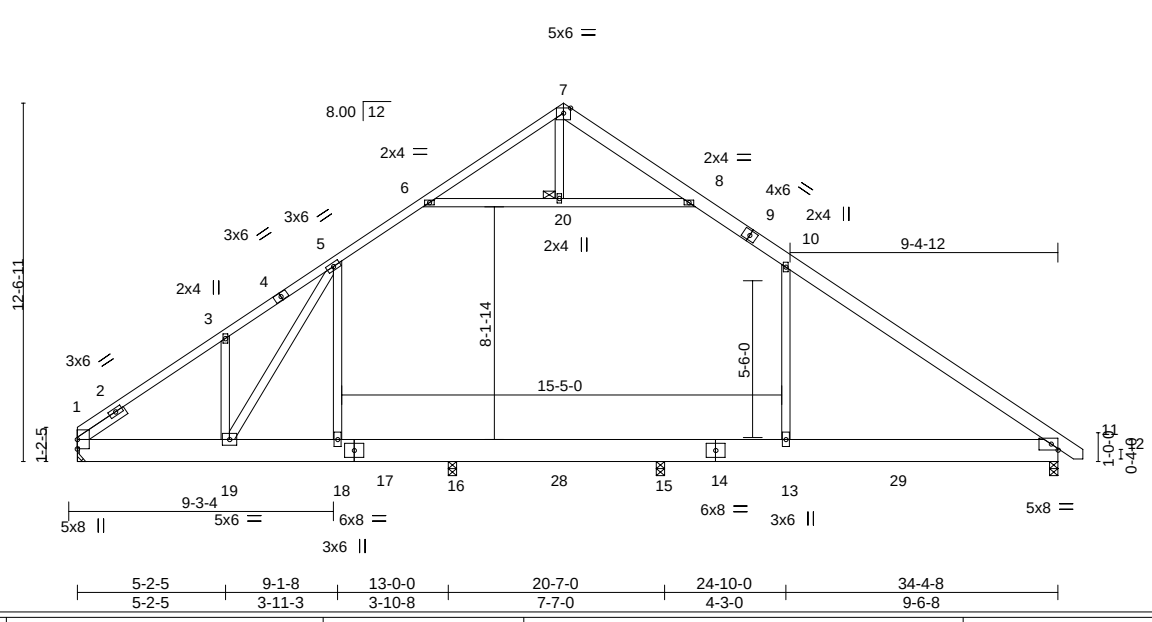
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	I44818022
MASTER_RT130	AT09GR	ATTIC	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:19:59 2021 Page 1
ID:f0X_NZYyOMto?npzE4iXPzyeg2c-?vkwK5_QeHmXFqYSycvZwuhuh4AgyEZR03ygYrzksuE

5-2-5	9-1-8	12-4-2	17-0-8	21-5-4	24-10-0	34-4-8	35-3-0
5-2-5	3-11-3	3-2-10	4-8-6	4-4-12	3-4-12	9-6-8	0-10-8

Scale = 1:80.8



5-2-5	9-1-8	13-0-0	20-7-0	24-10-0	34-4-8
5-2-5	3-11-3	3-10-8	7-7-0	4-3-0	9-6-8

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	0.48	Vert(LL)	-0.09	13-27	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.17	13-27	>959	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.11	13-27	>999	240	Weight: 273 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 7-9,9-12: 2x6 SP No.2
BOT CHORD	2x10 SP DSS
WEBS	2x4 SP No.2 *Except* 5-19,7-20,3-19: 2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-2-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 8-7-14 oc bracing.
JOINTS	1 Brace at Jt(s): 20

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical.
(lb) - Max Horz 1=-301(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 15=-213(LC 9), 16=-150(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 1=965(LC 1), 11=990(LC 1), 15=2196(LC 17), 16=1824(LC 16)

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

TOP CHORD	1-3=-1164/60, 3-5=-1175/188, 5-6=-887/158, 6-7=-364/78, 7-8=-374/84, 8-10=-898/210, 10-11=-1012/148
BOT CHORD	1-19=-138/1011, 18-19=-12/760, 16-18=-12/760, 15-16=-12/760, 13-15=-12/760, 11-13=-12/760
WEBS	6-20=-478/202, 8-20=-481/201, 5-18=-558/230, 10-13=-519/252, 5-19=-249/497, 3-19=-259/184

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) 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) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-10, 6-20, 8-20; Wall dead load (5.0psf) on member(s).5-18, 10-13
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-18, 15-16, 13-15
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 15=213, 16=150.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1406 lb down and 154 lb up at 17-0-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) Attic room checked for L/360 deflection.
11) 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

NORTH CAROLINA PROFESSIONAL SEAL 044925 ENGINEER SCOTT M. SEVIER

February 15,2021

Continued on page 2

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818 Soundside Road
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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: 18-21=-20, 13-18=-30, 13-25=-20, 1-5=-60, 5-6=-70, 6-7=-60, 7-8=-60, 8-10=-70, 10-12=-60, 6-8=-10
   Drag: 5-18=-10, 10-13=-10
   Concentrated Loads (lb)
   Vert: 28=-800(F)

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	I44818023
MASTER_RT130	AT10	ATTIC	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:00 2021 Page 1
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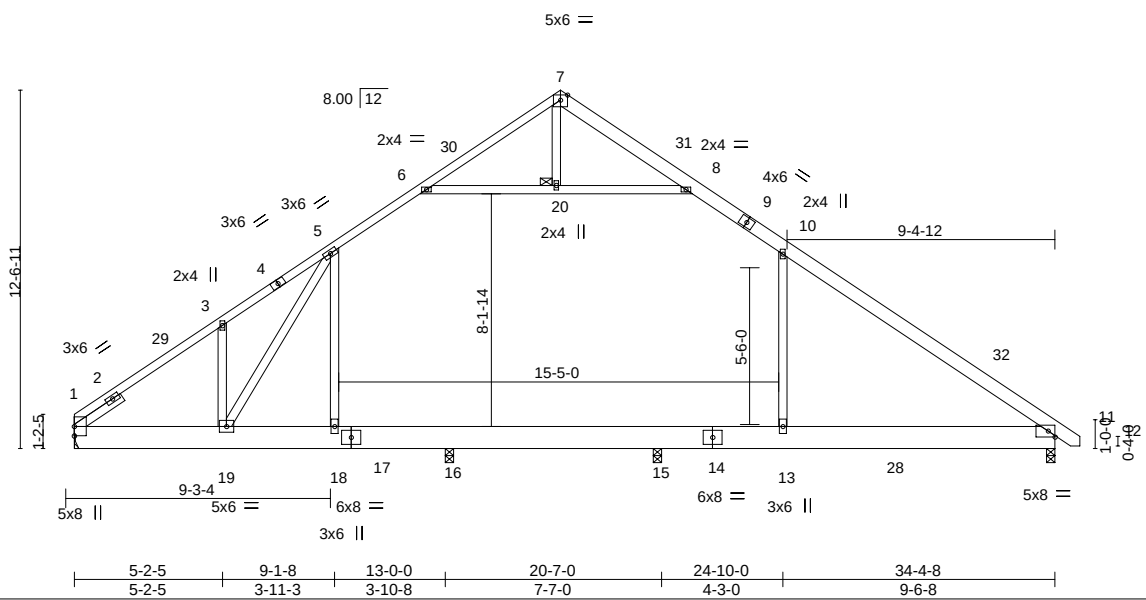
5-2-5	9-1-8	12-4-2	17-0-8	21-5-4	24-10-0	34-4-8	35-3-0
5-2-5	3-11-3	3-2-10	4-8-6	4-4-12	3-4-12	9-6-8	0-10-8

Scale = 1:80.8



5-2-5	9-1-8	13-0-0	20-7-0	24-10-0	34-4-8
5-2-5	3-11-3	3-10-8	7-7-0	4-3-0	9-6-8

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	0.50	Vert(LL)	-0.12	13-27	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.22	13-27	>760	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	13-27	>999	240	Weight: 273 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 7-9,9-12: 2x6 SP No.2
BOT CHORD	2x10 SP DSS
WEBS	2x4 SP No.2 *Except* 5-19,7-20,3-19: 2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-11-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 20

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical.
(lb) - Max Horz 1=-301(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 16 except 15=-131(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 1=1012(LC 1), 11=1031(LC 1), 15=1441(LC 21), 16=1019(LC 20)

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

TOP CHORD	1-3=-1236/101, 3-5=-1252/212, 5-6=-899/188, 6-7=-356/77, 7-8=-366/82, 8-10=-921/214, 10-11=-1076/155
BOT CHORD	1-19=-150/1117, 18-19=-17/809, 16-18=-17/809, 15-16=-17/809, 13-15=-17/809, 11-13=-17/809
WEBS	6-20=-568/209, 8-20=-572/208, 5-18=-570/231, 10-13=-496/248, 5-19=-262/611, 3-19=-289/185

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) 0-3-8 to 3-9-2, Interior(1) 3-9-2 to 17-4-0, Exterior(2) 17-4-0 to 20-9-10, Interior(1) 20-9-10 to 35-4-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-10, 6-20, 8-20; Wall dead load (5.0psf) on member(s).5-18, 10-13
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-18, 15-16, 13-15
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 16 except (jt=lb) 15=131.
9) Attic room checked for L/360 deflection.

February 15,2021

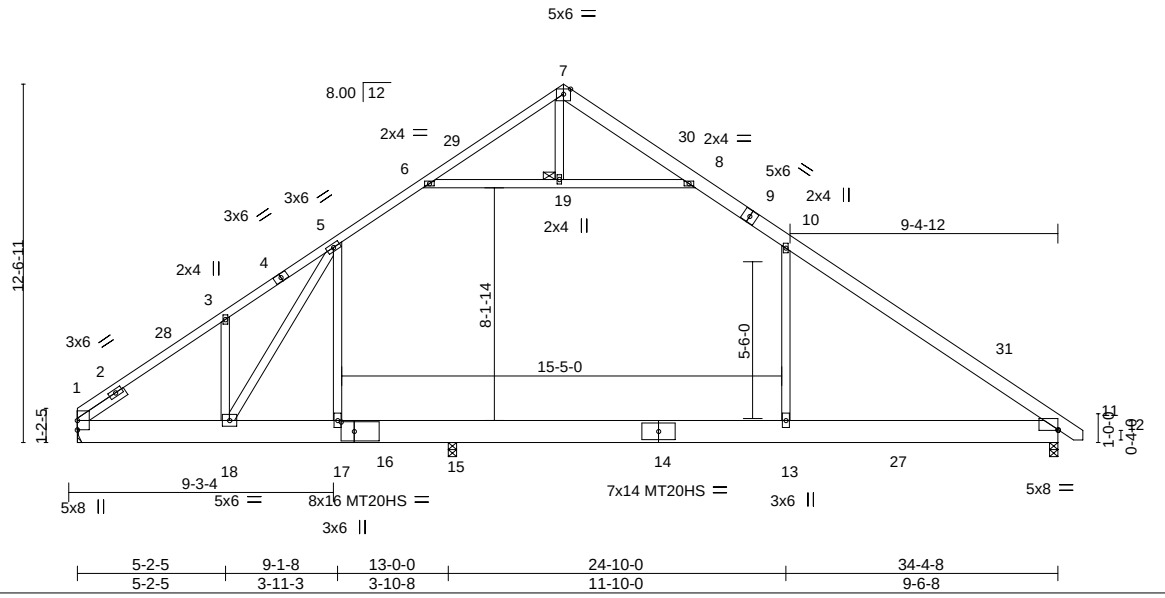
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	I44818024
MASTER_RT130	AT12	ATTIC	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:01 2021 Page 1
ID:f0X_NZYyOMto?npzE4iXPzyeg2c-xIsgkn0hAv0EV7iq41x1?Jm94uprQ7ZkTNRndjzksuC

5-2-5	9-1-8	12-4-2	17-0-8	21-5-4	24-10-0	34-4-8	35-3-0
5-2-5	3-11-3	3-2-10	4-8-6	4-4-12	3-4-12	9-6-8	0-10-8

Scale = 1:80.8



5-2-5	9-1-8	13-0-0	24-10-0	34-4-8
5-2-5	3-11-3	3-10-8	11-10-0	9-6-8

Plate Offsets (X,Y)-- [11:0-0-0,0-0-5], [16:0-5-8,0-4-0]

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	0.81	Vert(LL)	-0.59	13-15	>432	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.94	13-15	>271	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(CT)	-0.04	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.34	13	>744	240	Weight: 273 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP SS *Except*
	7-9: 2x6 SP No.2, 1-4: 2x4 SP No.2, 9-12: 2x6 SP DSS
BOT CHORD	2x10 SP DSS
WEBS	2x4 SP No.2 *Except*
	5-18,7-19,3-18: 2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-5-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-3-5 oc bracing.
JOINTS	1 Brace at Jt(s): 19

REACTIONS. (size) 1=Mechanical, 11=0-3-8, 15=0-3-8
Max Horz 1=-301(LC 8)
Max Uplift 1=-39(LC 12), 11=-80(LC 13)
Max Grav 1=1057(LC 1), 11=1515(LC 21), 15=1593(LC 20)

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

TOP CHORD	1-3=-1263/102, 3-5=-1312/211, 5-6=-1223/201, 6-7=-323/75, 7-8=-310/102,
	8-10=-1136/185, 10-11=-1515/55
BOT CHORD	1-18=-143/1151, 17-18=0/1130, 15-17=0/1130, 13-15=0/1130, 11-13=0/1130
WEBS	6-19=-1029/204, 8-19=-1033/203, 5-17=-395/552, 10-13=-196/275, 5-18=-473/358,
	3-18=-359/164

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) 0-3-8 to 3-9-2, Interior(1) 3-9-2 to 17-4-0, Exterior(2) 17-4-0 to 20-9-10, Interior(1) 20-9-10 to 35-4-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-10, 6-19, 8-19; Wall dead load (5.0psf) on member(s).5-17, 10-13
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17, 13-15
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.
10) Attic room checked for L/360 deflection.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	I44818026
MASTER_RT130	AT15G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:05 2021 Page 1
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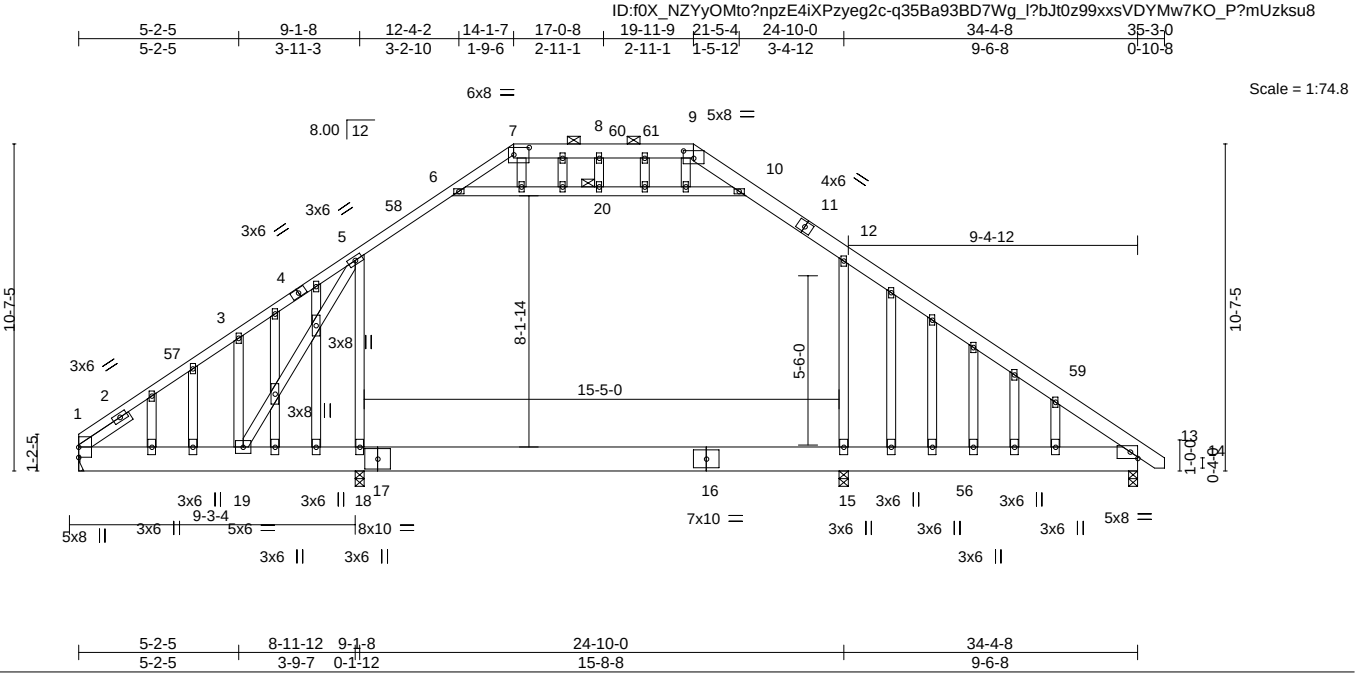

Plate Offsets (X,Y)-- [7:0-0-0,0-2-2], [7:0-6-0,0-2-14], [9:0-0-0,0-2-12], [9:0-4-0,0-2-13], [24:0-1-12,0-0-0], [38:0-1-12,0-0-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15	TC	0.44	Vert(LL)	-0.21	15-18	>895	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC	0.49	Vert(CT)	-0.28	15-18	>680	240		
BCLL 0.0	*	Rep Stress Incr NO	WB	0.53	Horz(CT)	0.01	13	n/a	n/a		
BCDL 10.0		Code IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.02	15-55	>999	240	Weight: 322 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 4-7,1-4: 2x4 SP No.2
BOT CHORD	2x10 SP DSS
WEBS	2x4 SP No.2 *Except* 5-19,8-20,3-19: 2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD	Rigid ceiling directly applied or 9-8-12 oc bracing.
JOINTS	1 Brace at Jt(s): 20

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical.
(lb) - Max Horz 1=-253(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 18, 13 except 15=-108(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 1=698(LC 1), 18=1532(LC 20), 15=1662(LC 21), 13=732(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-686/121, 3-5=-743/227, 5-6=-765/179, 6-7=-553/150, 9-10=-563/153, 10-12=-778/197, 12-13=-831/185, 7-8=-459/143, 8-9=-460/142
BOT CHORD 1-19=-202/571, 18-19=-131/605, 15-18=-131/605, 13-15=-131/605
WEBS 5-18=-445/266, 12-15=-588/269, 5-19=-495/156, 3-19=-258/184

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) 0-3-8 to 3-9-2, Interior(1) 3-9-2 to 14-4-15, Exterior(2) 14-4-15 to 17-10-9, Interior(1) 17-10-9 to 20-3-1, Exterior(2) 20-3-1 to 23-8-10, Interior(1) 23-8-10 to 35-4-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 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, with BCDL = 10.0psf.
9) Ceiling dead load (5.0 psf) on member(s). 5-6, 10-12, 6-20, 10-20; Wall dead load (5.0psf) on member(s).5-18, 12-15
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-18
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 18, 13 except (jt=lb) 15=108.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	AT16G	GABLE	1	1	I45243763
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 17 15:39:13 2021 Page 1
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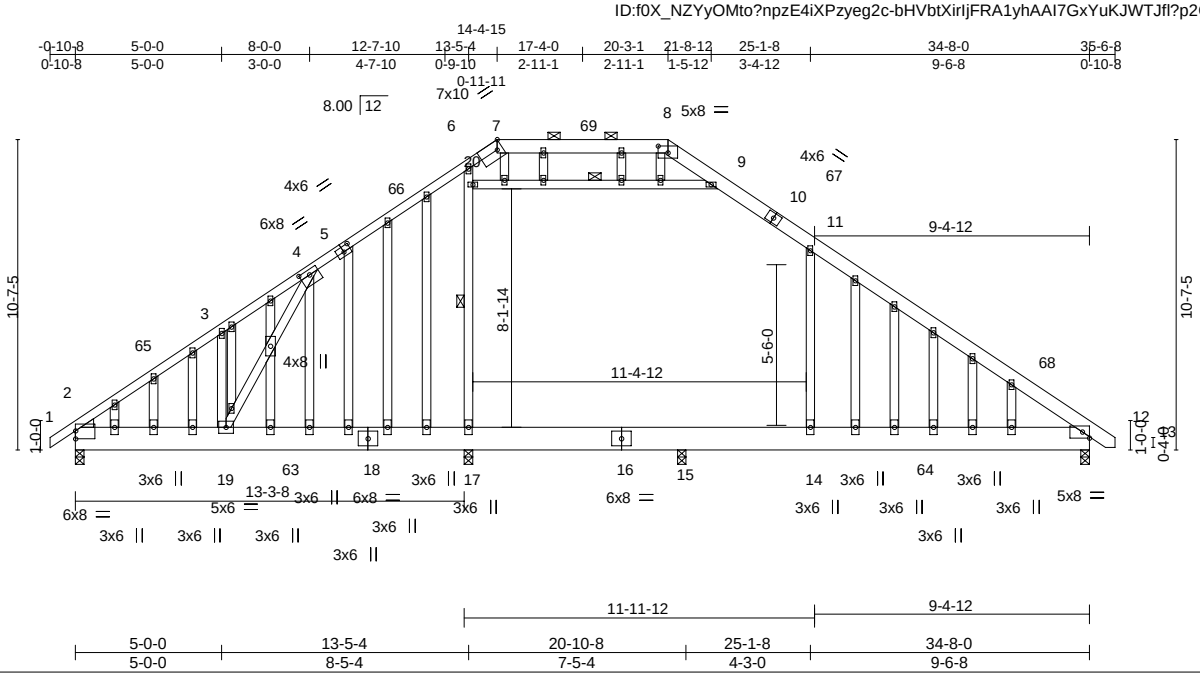

Plate Offsets (X,Y)-- [2:0-0-0,0-3-4], [4:0-4-0,0-2-0], [5:0-3-0,0-2-4], [7:0-2-5,Edge], [8:0-4-0,0-2-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.12	14-62	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.23	14-62	>726	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.16	17-19	>984	240	Weight: 359 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except* 5-7,1-5: 2x4 SP No.1
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.2 *Except* 4-19,3-19: 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.
WEBS 1 Row at midpt 9-20, 17-20

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-257(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 15 except 17=-238(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=880(LC 1), 17=1208(LC 20), 12=913(LC 1), 15=1437(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-730/236, 3-4=-656/201, 4-6=-671/208, 6-7=-445/190, 8-9=-486/200, 9-11=-753/163, 11-12=-817/59, 7-8=-406/182
BOT CHORD 2-19=0/507, 17-19=-34/561, 15-17=-30/572, 14-15=-30/572, 12-14=-30/572
WEBS 17-20=-325/182, 11-14=-499/227, 3-19=-359/235

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 14-4-15, Exterior(2) 14-4-15 to 17-4-15, Interior(1) 17-4-15 to 20-3-1, Exterior(2) 20-3-1 to 23-3-1, Interior(1) 23-3-1 to 35-4-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 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, with BCDL = 10.0psf.
9) Ceiling dead load (5.0 psf) on member(s). 9-11, 9-20; Wall dead load (5.0psf) on member(s).17-20, 11-14
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17, 14-15
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 15 except (jt=lb) 17=238.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

March 19,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	AT17	ATTIC	1	1	I45243764
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 17 15:39:15 2021 Page 1
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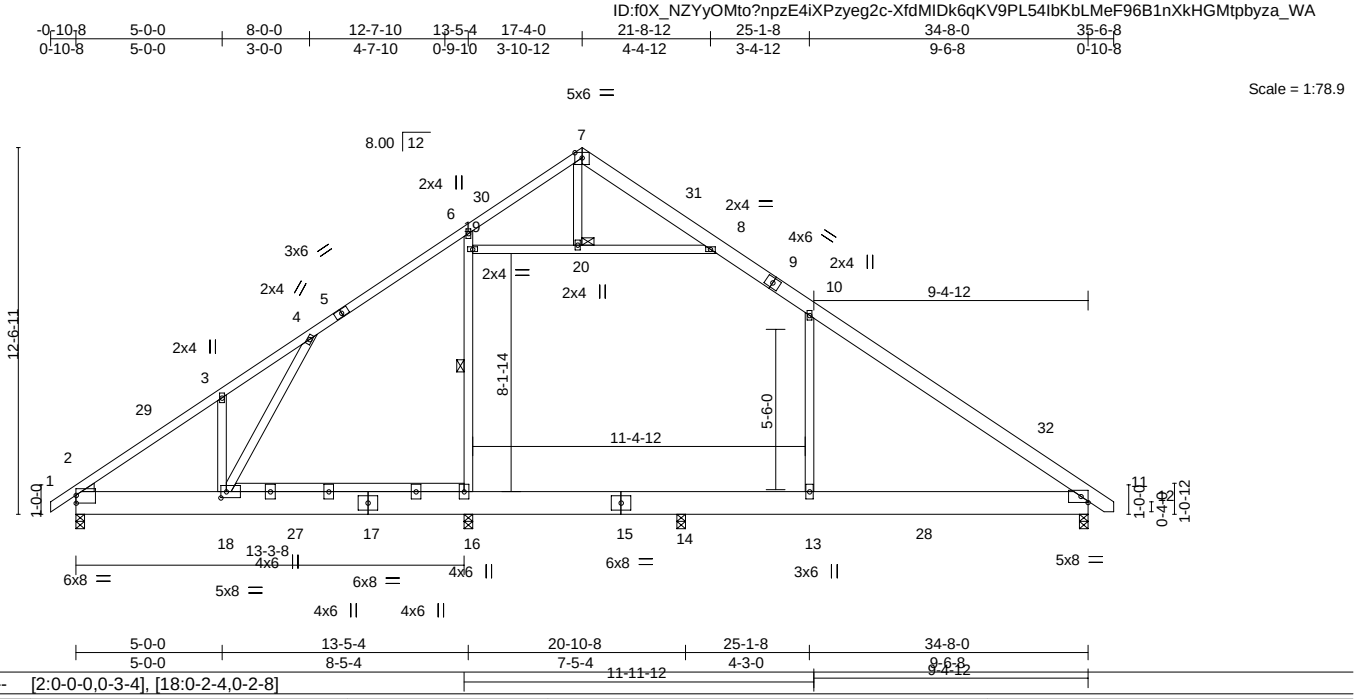

Plate Offsets (X,Y)-- [2:0-0-0,0-3-4], [18:0-2-4,0-2-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.12	13-26	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.23	13-26	>721	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.14	16-18	>999	240	Weight: 287 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except* 7-9,9-12: 2x6 SP No.2
BOT CHORD 2x10 SP DSS *Except* 16-18: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 4-18,7-20,3-18: 2x4 SP No.3
WEDGE
Left: 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, Except: 7-4-3 oc bracing: 16-18.
WEBS 1 Row at midpt 16-19
JOINTS 1 Brace at Jt(s): 20

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=306(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 14 except 16=-277(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=850(LC 1), 16=1227(LC 20), 11=896(LC 21), 14=1484(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-700/105, 3-4=-679/73, 4-6=-689/143, 6-7=-353/91, 7-8=-337/58, 8-10=-693/106, 10-11=-751/0
BOT CHORD 2-18=0/467, 16-18=0/523, 14-16=0/536, 13-14=0/536, 11-13=0/536
WEBS 19-20=-325/126, 8-20=-329/125, 16-19=-378/228, 6-19=-295/239, 10-13=-530/253, 3-18=-351/233

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 17-4-0, Exterior(2) 17-4-0 to 20-4-0, Interior(1) 20-4-0 to 35-4-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (5.0 psf) on member(s). 8-10, 19-20, 8-20; Wall dead load (5.0psf) on member(s).16-19, 10-13
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16, 13-14
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 14 except (jt=lb) 16=277.
8) Attic room checked for L/360 deflection.

March 19,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	AT18	ATTIC	2	1	I45243765
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 17 15:39:16 2021 Page 1
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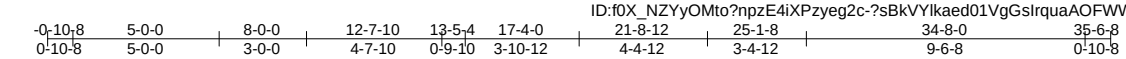

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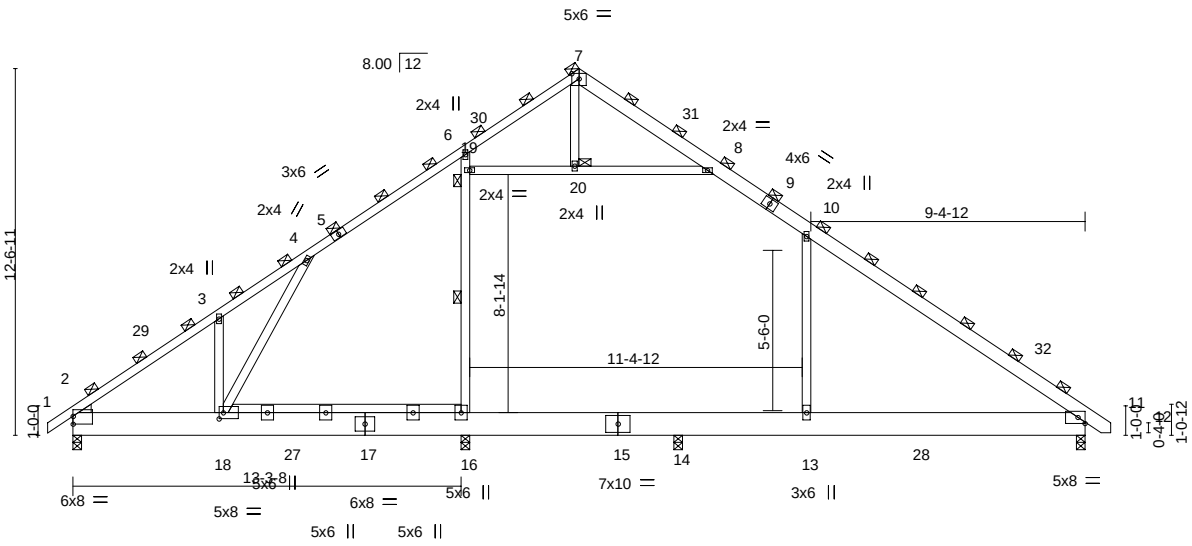

Plate Offsets (X,Y)-- [2:0-0-0,0-3-4], [18:0-1-12,0-2-8]

LOADING (psf)		SPACING- 2-4-8		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.14	13-26	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.28	13-26	>607	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.17	16-18	>952	240	Weight: 287 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except* 7-9,9-12: 2x6 SP No.2
BOT CHORD 2x10 SP DSS *Except* 16-18: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 4-18,7-20,3-18: 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 6-1-15 oc bracing.
WEBS 1 Row at midpt 16-19
JOINTS 1 Brace at Jt(s): 7, 19, 20

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=364(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 11 except 16=-329(LC 12), 14=-118(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=1009(LC 1), 16=1456(LC 20), 11=1064(LC 21), 14=1762(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-832/124, 3-4=-806/86, 4-6=-818/170, 6-7=-419/108, 7-8=-400/68, 8-10=-823/126, 10-11=-892/0
BOT CHORD 2-18=0/555, 16-18=0/621, 14-16=0/637, 13-14=0/637, 11-13=0/637
WEBS 19-20=-386/150, 8-20=-391/149, 16-19=-449/271, 6-19=-350/284, 10-13=-629/301, 4-18=-276/231, 3-18=-417/276

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 17-4-0, Exterior(2) 17-4-0 to 20-4-0, Interior(1) 20-4-0 to 35-4-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (5.0 psf) on member(s). 8-10, 19-20, 8-20; Wall dead load (5.0psf) on member(s).16-19, 10-13
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-16, 13-14
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11 except (jt=lb) 16=329, 14=118.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Attic room checked for L/360 deflection.

March 19,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	I45243766
MASTER_RT130	AT20	ATTIC	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523 — 8.420 s Oct 9 2020 MiTek Industries, Inc. Thu Mar 18 09:35:30 2021 Page 1

ID:f0X_NZYyOMto?npzE4iXPzyeg2c-?Nz4OvWPxqWJcGqEKDiwIQQ4uVRkUmKVRODOJXzZvIB

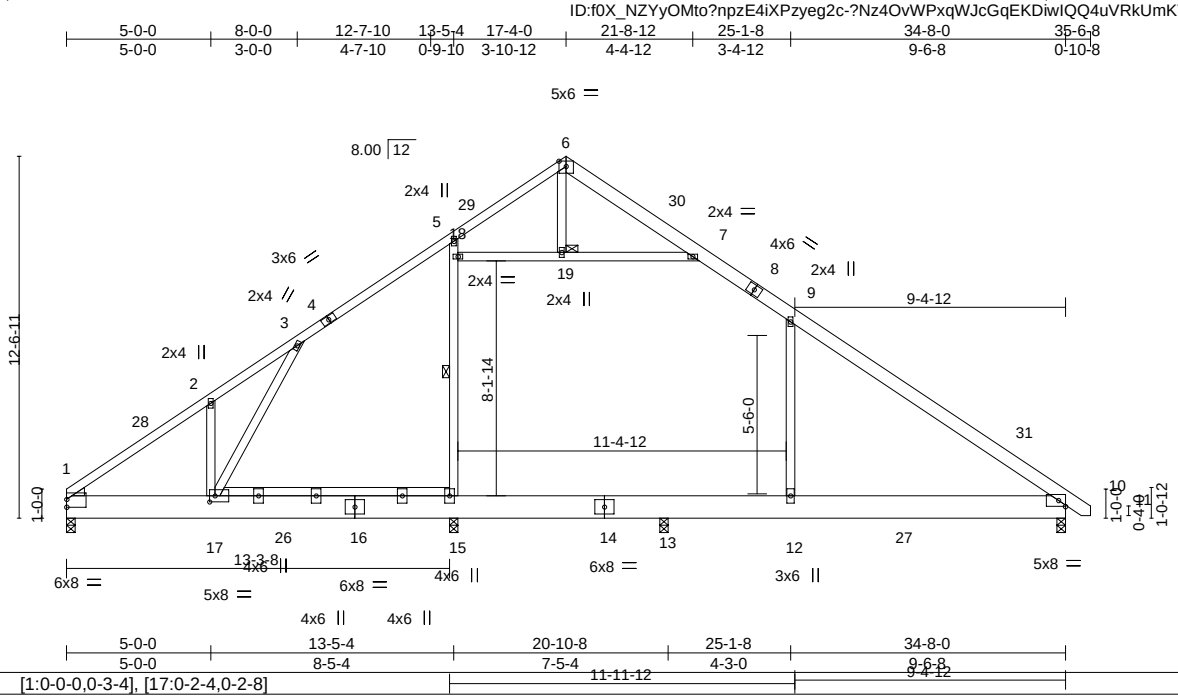

Plate Offsets (X,Y)-- [1:0-0-0,0-3-4], [17:0-2-4,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.12	12-25	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.23	12-25	>721	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.14	15-17	>999	240	Weight: 285 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except* 6-8,8-11: 2x6 SP No.2
BOT CHORD 2x10 SP DSS *Except* 15-17: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 3-17,6-19,2-17: 2x4 SP No.3
WEDGE
Left: 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, Except: 7-3-12 oc bracing: 15-17.
WEBS 1 Row at midpt 15-18
JOINTS 1 Brace at Jt(s): 19

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 1=-301(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 13 except 15=-278(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 1=795(LC 1), 15=1229(LC 20), 10=896(LC 21), 13=1483(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-28=-701/86, 2-28=-623/104, 2-3=-680/72, 3-4=-689/114, 4-5=-662/143, 5-29=-353/67, 6-29=-323/91, 6-30=-259/58, 7-30=-337/37, 7-8=-644/106, 8-9=-693/82, 9-31=-596/0, 10-31=-752/0
BOT CHORD 1-17=0/468, 17-26=0/523, 16-26=0/523, 15-16=0/523, 14-15=0/536, 13-14=0/536, 12-13=0/536, 12-27=0/536, 10-27=0/536
WEBS 18-19=-325/126, 7-19=-329/125, 15-18=-379/228, 5-18=-295/239, 9-12=-530/253, 2-17=-352/233

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 17-4-0, Exterior(2) 17-4-0 to 20-4-0, Interior(1) 20-4-0 to 35-4-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (5.0 psf) on member(s). 7-9, 18-19, 7-19; Wall dead load (5.0psf) on member(s).15-18, 9-12
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15, 12-13
7) All bearings are assumed to be User Defined .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 13 except (jt=lb) 15=278.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Attic room checked for L/360 deflection.

March 19,2021

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	AT20	ATTIC	1	1	I45243766 Job Reference (optional)

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	B02G	GABLE	1	1	I44818027
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:28:07 2021 Page 1

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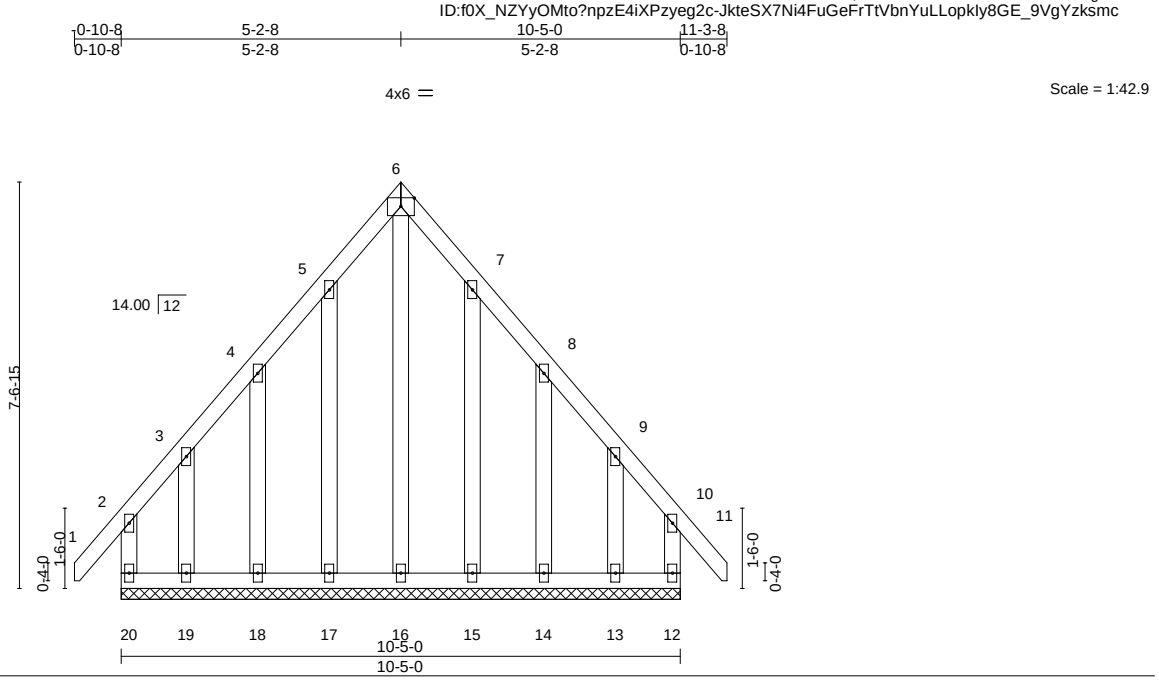

Plate Offsets (X,Y)-- [6:Edge,0-1-14]

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	0.24	Vert(LL)	-0.00	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(CT)	-0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-R							Weight: 92 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 10-5-0.

(lb) - Max Horz 20=233(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 17, 18, 15, 14 except 20=-209(LC 8), 12=-193(LC 9), 19=-209(LC 9), 13=-199(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 12, 17, 18, 15, 14 except 20=250(LC 20), 16=311(LC 13), 19=263(LC 10), 13=252(LC 11)

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

TOP CHORD 4-5=-172/263, 5-6=-229/333, 6-7=-229/333, 7-8=-172/263

WEBS 6-16=-429/249

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 Corner(3) -0-9-15 to 2-2-1, Exterior(2) 2-2-1 to 5-2-8, Corner(3) 5-2-8 to 8-2-8, Exterior(2) 8-2-8 to 11-2-15 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
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.
10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 18, 15, 14 except (jt=lb) 20=209, 12=193, 19=209, 13=199.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	D07G	GABLE	1	1	I44818028
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:07 2021 Page 1
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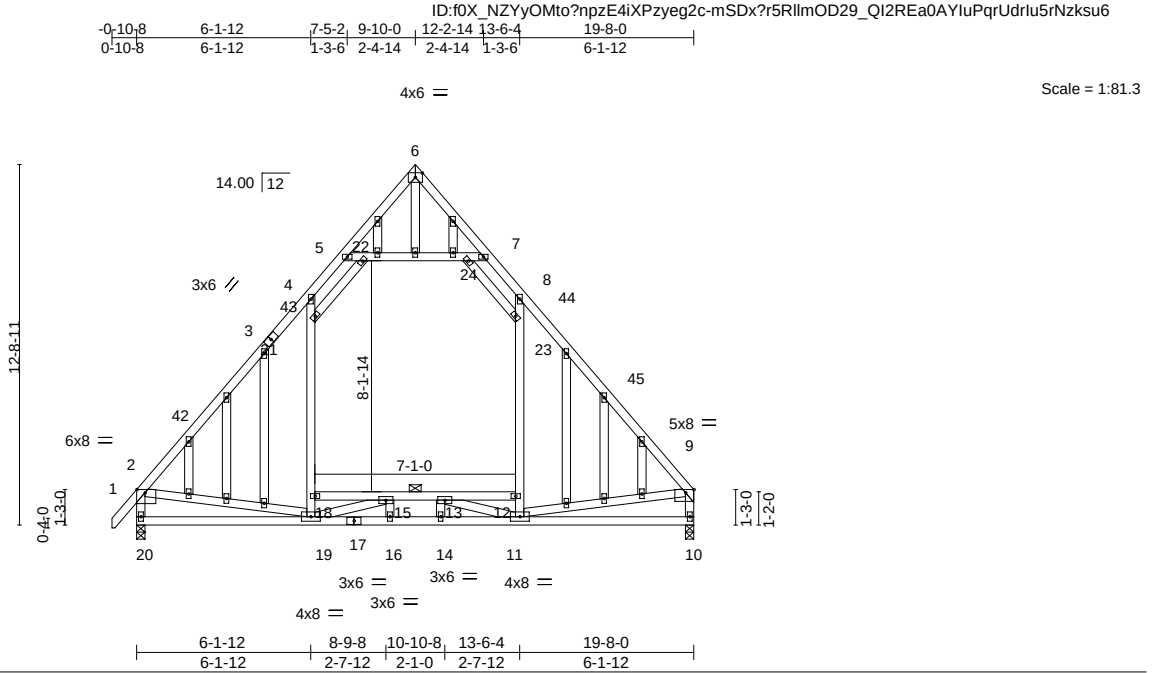

Plate Offsets (X,Y)-- [2:Edge,0-1-5], [6:Edge,0-1-14], [9:Edge,0-1-5]

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	0.88	Vert(LL)	-0.12	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.22	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.16	12	>999	240	Weight: 197 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1 *Except* 1-3: 2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 13-14,15-16,15-19,11-13,2-19,9-11: 2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-10-3 oc bracing: 19-20. 6-0-0 oc bracing: 12-18

REACTIONS. (size) 20=0-3-8, 10=0-3-8
Max Horz 20=355(LC 9)
Max Grav 20=1203(LC 21), 10=1164(LC 20)

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

TOP CHORD	2-4=-1258/0, 4-5=-780/191, 7-8=-800/202, 8-9=-1251/0, 2-20=-1147/34, 9-10=-1109/0
BOT CHORD	19-20=-422/613, 16-19=0/1557, 14-16=0/1557, 11-14=0/1557, 10-11=-144/276, 15-18=-286/157, 13-15=-913/0, 12-13=-299/160
WEBS	5-22=-961/240, 22-24=-865/208, 7-24=-976/245, 18-19=0/365, 18-21=0/538, 4-21=-65/634, 11-12=0/355, 12-23=0/527, 8-23=-74/609, 15-19=-841/66, 11-13=-818/49, 21-22=-273/272, 23-24=-275/283, 2-19=-37/607, 9-11=0/618

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) -0-9-15 to 2-2-1, Interior(1) 2-2-1 to 9-10-0, Exterior(2) 9-10-0 to 14-0-15, Interior(1) 14-0-15 to 19-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-22, 22-24, 7-24; Wall dead load (5.0psf) on member(s).18-21, 4-21, 12-23, 8-23
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-18, 13-15, 12-13
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Attic room checked for L/360 deflection.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	D08	ATTIC	1	1	I44818029
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:08 2021 Page 1
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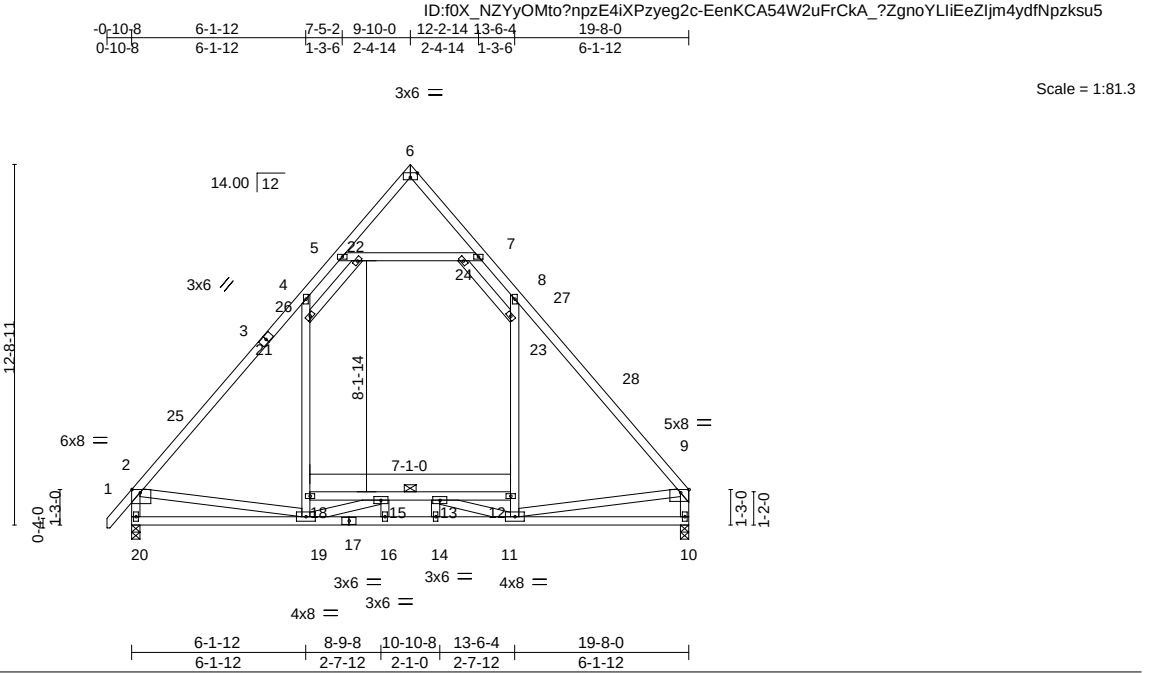

Plate Offsets (X,Y)-- [2:Edge,0-1-5], [6:Edge,0-1-14], [9:Edge,0-1-5]

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	0.88	Vert(LL)	-0.12	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.22	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.16	12	>999	240	Weight: 156 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
1-3: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
13-14,15-16,15-19,11-13,2-19,9-11: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-10-3 oc bracing: 19-20.
6-0-0 oc bracing: 12-18

REACTIONS. (size) 20=0-3-8, 10=0-3-8
Max Horz 20=355(LC 9)
Max Grav 20=1203(LC 21), 10=1164(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1258/0, 4-5=-780/191, 7-8=-800/202, 8-9=-1251/0, 2-20=-1147/34, 9-10=-1109/0
BOT CHORD 19-20=-422/613, 16-19=0/1557, 14-16=0/1557, 11-14=0/1557, 10-11=-144/276, 15-18=-286/157, 13-15=-913/0, 12-13=-299/160
WEBS 5-22=-961/240, 22-24=-865/208, 7-24=-976/245, 18-19=0/365, 18-21=0/538, 4-21=-65/634, 11-12=0/355, 12-23=0/527, 8-23=-74/609, 15-19=-841/66, 11-13=-818/49, 21-22=-273/272, 23-24=-275/283, 2-19=-37/607, 9-11=0/618

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) -0-9-15 to 2-2-1, Interior(1) 2-2-1 to 9-10-0, Exterior(2) 9-10-0 to 14-0-15, Interior(1) 14-0-15 to 19-6-4 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) All plates are 2x4 MT20 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.
6) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-22, 22-24, 7-24; Wall dead load (5.0psf) on member(s).18-21, 4-21, 12-23, 8-23
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-18, 13-15, 12-13
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) Attic room checked for L/360 deflection.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	D09GR	ATTIC	1	2	I44818030

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:10 2021 Page 1

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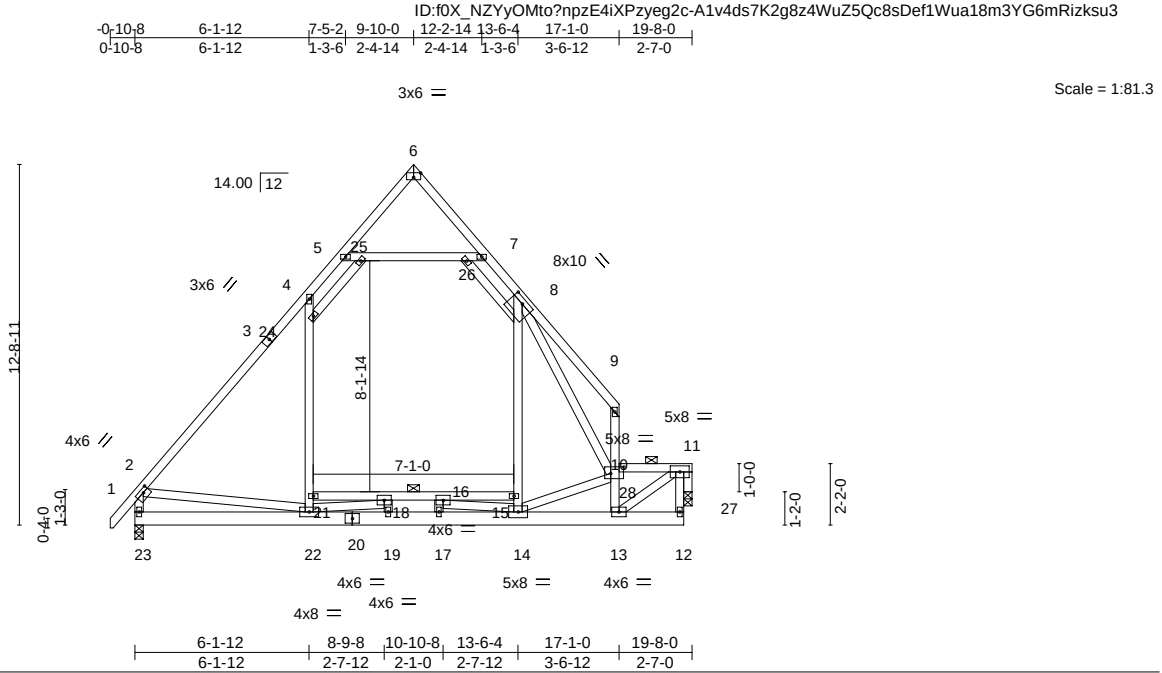

Plate Offsets (X,Y)-- [2:0-2-8,0-1-8], [6:Edge,0-1-14], [8:0-5-0,0-2-0], [10:0-5-8,0-2-12]

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	0.92	Vert(LL)	-0.14	14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.24	14	>983	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	-0.02	27	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.07	15	>999	240	Weight: 372 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except*
15-21,11-27: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*
5-7,4-22,8-14,24-25,8-26,9-13: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-1 max.): 10-11.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 15-21

REACTIONS. (size) 23=0-3-8, 27=0-3-8
Max Horz 23=336(LC 5)
Max Grav 23=1335(LC 17), 27=2487(LC 16)

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

TOP CHORD 2-4=-1484/0, 4-5=-764/148, 8-9=-256/68, 2-23=-1343/0, 10-11=-3545/0

BOT CHORD 22-23=-525/603, 19-22=0/1866, 17-19=0/1866, 14-17=0/1866, 13-14=0/3291, 16-18=-1059/0, 11-27=-2487/0

WEBS 5-25=-1052/161, 25-26=-997/70, 7-26=-509/106, 21-22=0/541, 21-24=0/702, 4-24=-26/830, 14-15=-6/1246, 8-15=0/1443, 18-22=-1264/0, 14-16=-958/0, 8-26=-835/88, 2-22=-36/777, 10-14=-2642/0, 10-13=-2316/38, 9-10=-309/59, 8-10=-1798/0, 11-13=0/3894

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-2-0 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.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
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) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-25, 25-26, 7-26; Wall dead load (5.0psf) on member(s).21-24, 4-24, 8-15
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-21, 16-18, 15-16
11) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) N/A

Continued on page 2

NORTH CAROLINA PROFESSIONAL SEAL 044925 ENGINEER SCOTT M. SEVIER

February 15,2021

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

NOTES-

13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1317 lb down and 134 lb up at 17-5-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 12-23=-20, 1-2=-60, 2-4=-60, 4-5=-70, 5-6=-60, 6-7=-60, 7-8=-70, 8-9=-60, 5-7=-10, 15-21=-30, 10-28=-60, 11-28=-80(F=-20)
   Drag: 4-21=-10, 8-15=-10
   Concentrated Loads (lb)
   Vert: 28=-700(F)
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 12-23=-20, 1-2=-50, 2-4=-50, 4-5=-60, 5-6=-50, 6-7=-50, 7-8=-60, 8-9=-50, 5-7=-10, 15-21=-90, 10-28=-50, 11-28=-130(F=-80)
   Drag: 4-21=-10, 8-15=-10
   Concentrated Loads (lb)
   Vert: 28=-1138(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 12-23=-40, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-20, 7-8=-30, 8-9=-20, 5-7=-10, 15-21=-30, 10-28=-20, 11-28=-120(F=-100)
   Drag: 4-21=-10, 8-15=-10
   Concentrated Loads (lb)
   Vert: 28=-525(F)
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 12-23=-12, 1-2=-3, 2-4=-16, 4-5=-22, 5-6=-16, 6-7=10, 7-8=4, 8-9=10, 5-7=-6, 15-21=-18, 10-28=10, 11-28=-10(F=-20)
   Horz: 1-2=-9, 2-6=4, 6-9=22, 2-23=16, 10-11=-22
   Drag: 4-21=-10, 8-15=-10
   Concentrated Loads (lb)
   Vert: 28=-14(F)
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 12-23=-12, 1-2=5, 2-4=10, 4-5=4, 5-6=10, 6-7=-16, 7-8=-22, 8-9=-16, 5-7=-6, 15-21=-18, 10-28=27, 11-28=7(F=-20)
   Horz: 1-2=-17, 2-6=-22, 6-9=-4, 2-23=-21, 10-11=-39
   Drag: 4-21=-10, 8-15=-10
   Concentrated Loads (lb)
   Vert: 28=134(F)
6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 12-23=-20, 1-2=-30, 2-4=-35, 4-5=-45, 5-6=-35, 6-7=-9, 7-8=-19, 8-9=-9, 5-7=-10, 15-21=-30, 10-28=-9, 11-28=-29(F=-20)
   Horz: 1-2=10, 2-6=15, 6-9=11, 2-23=27, 10-11=-11
   Drag: 4-21=-10, 8-15=-10
   Concentrated Loads (lb)
   Vert: 28=-590(F)
7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 12-23=-20, 1-2=-3, 2-4=-9, 4-5=-19, 5-6=-9, 6-7=-35, 7-8=-45, 8-9=-35, 5-7=-10, 15-21=-30, 10-28=8, 11-28=-12(F=-20)
   Horz: 1-2=-17, 2-6=-11, 6-9=-15, 2-23=-9, 10-11=-28
   Drag: 4-21=-10, 8-15=-10
   Concentrated Loads (lb)
   Vert: 28=-485(F)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 12-23=-12, 1-2=22, 2-4=27, 4-5=9, 5-6=15, 6-7=5, 7-8=-1, 8-9=5, 5-7=-6, 15-21=-18, 10-28=5, 11-28=-15(F=-20)
   Horz: 1-2=-34, 2-4=-39, 4-6=-27, 6-9=17, 2-23=14, 10-11=-17
   Drag: 4-21=-10, 8-15=-10
   Concentrated Loads (lb)
   Vert: 28=134(F)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 12-23=-12, 1-2=-0, 2-4=5, 4-5=-1, 5-6=5, 6-7=15, 7-8=9, 8-9=15, 5-7=-6, 15-21=-18, 10-28=15, 11-28=-5(F=-20)
   Horz: 1-2=-12, 2-6=-17, 6-9=27, 2-23=-15, 10-11=-27
   Drag: 4-21=-10, 8-15=-10
   Concentrated Loads (lb)
   Vert: 28=30(F)
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 12-23=-12, 1-2=10, 2-4=15, 4-5=9, 5-6=15, 6-7=5, 7-8=-1, 8-9=5, 5-7=-6, 15-21=-18, 10-28=5, 11-28=-15(F=-20)
   Horz: 1-2=-22, 2-6=-27, 6-9=17, 2-23=7, 10-11=-17
   Drag: 4-21=-10, 8-15=-10
   Concentrated Loads (lb)
   Vert: 28=30(F)
11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 12-23=-12, 1-2=-0, 2-4=5, 4-5=-1, 5-6=5, 6-7=15, 7-8=9, 8-9=15, 5-7=-6, 15-21=-18, 10-28=15, 11-28=-5(F=-20)
Horz: 1-2=-12, 2-6=-17, 6-9=27, 2-23=-15, 10-11=-27
Drag: 4-21=-10, 8-15=-10
Concentrated Loads (lb)
Vert: 28=30(F)

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 12-23=-20, 1-2=14, 2-4=8, 4-5=-14, 5-6=-4, 6-7=-14, 7-8=-24, 8-9=-14, 5-7=-10, 15-21=-30, 10-28=-14, 11-28=-34(F=-20)
Horz: 1-2=-34, 2-4=-28, 4-6=-16, 6-9=6, 2-23=25, 10-11=-6
Drag: 4-21=-10, 8-15=-10
Concentrated Loads (lb)
Vert: 28=-568(F)

13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 12-23=-20, 1-2=-8, 2-4=-14, 4-5=-24, 5-6=-14, 6-7=-4, 7-8=-14, 8-9=-4, 5-7=-10, 15-21=-30, 10-28=-4, 11-28=-24(F=-20)
Horz: 1-2=-12, 2-6=-6, 6-9=16, 2-23=-3, 10-11=-16
Drag: 4-21=-10, 8-15=-10
Concentrated Loads (lb)
Vert: 28=-400(F)

14) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-20, 7-8=-30, 8-9=-20, 5-7=-10, 15-21=-110, 10-28=-20, 11-28=-120(F=-100)
Drag: 4-21=-10, 8-15=-10
Concentrated Loads (lb)
Vert: 28=-1050(F)

15) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-20, 7-8=-30, 8-9=-20, 5-7=-10, 15-21=-110, 10-28=-20, 11-28=-120(F=-100)
Drag: 4-21=-10, 8-15=-10
Concentrated Loads (lb)
Vert: 28=-1050(F)

16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 12-23=-20, 1-2=-57, 2-4=-62, 4-5=-72, 5-6=-62, 6-7=-42, 7-8=-52, 8-9=-42, 5-7=-10, 15-21=-90, 10-28=-42, 11-28=-122(F=-80)
Horz: 1-2=7, 2-6=12, 6-9=8, 2-23=21, 10-11=-8
Drag: 4-21=-10, 8-15=-10
Concentrated Loads (lb)
Vert: 28=-1317(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 12-23=-20, 1-2=-38, 2-4=-42, 4-5=-52, 5-6=-42, 6-7=-62, 7-8=-72, 8-9=-62, 5-7=-10, 15-21=-90, 10-28=-29, 11-28=-109(F=-80)
Horz: 1-2=-12, 2-6=-8, 6-9=-12, 2-23=-7, 10-11=-21
Drag: 4-21=-10, 8-15=-10
Concentrated Loads (lb)
Vert: 28=-1239(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 12-23=-20, 1-2=-25, 2-4=-29, 4-5=-48, 5-6=-38, 6-7=-46, 7-8=-56, 8-9=-46, 5-7=-10, 15-21=-90, 10-28=-46, 11-28=-126(F=-80)
Horz: 1-2=-25, 2-4=-21, 4-6=-12, 6-9=4, 2-23=19, 10-11=-4
Drag: 4-21=-10, 8-15=-10
Concentrated Loads (lb)
Vert: 28=-1301(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 12-23=-20, 1-2=-41, 2-4=-46, 4-5=-56, 5-6=-46, 6-7=-38, 7-8=-48, 8-9=-38, 5-7=-10, 15-21=-90, 10-28=-38, 11-28=-118(F=-80)
Horz: 1-2=-9, 2-6=-4, 6-9=12, 2-23=-3, 10-11=-12
Drag: 4-21=-10, 8-15=-10
Concentrated Loads (lb)
Vert: 28=-1175(F)

20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 12-23=-20, 1-2=-60, 2-4=-60, 4-5=-70, 5-6=-60, 6-7=-20, 7-8=-30, 8-9=-20, 5-7=-10, 15-21=-30, 10-28=-20, 11-28=-40(F=-20)
Drag: 4-21=-10, 8-15=-10
Concentrated Loads (lb)
Vert: 28=-700(F)

21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 4

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 12-23=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-60, 7-8=-70, 8-9=-60, 5-7=-10, 15-21=-30, 10-28=-60, 11-28=-80(F=-20)

Drag: 4-21=-10, 8-15=-10

Concentrated Loads (lb)

Vert: 28=-700(F)

22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 12-23=-20, 1-2=-50, 2-4=-50, 4-5=-60, 5-6=-50, 6-7=-20, 7-8=-30, 8-9=-20, 5-7=-10, 15-21=-90, 10-28=-20, 11-28=-100(F=-80)

Drag: 4-21=-10, 8-15=-10

Concentrated Loads (lb)

Vert: 28=-1138(F)

23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 12-23=-20, 1-2=-20, 2-4=-20, 4-5=-30, 5-6=-20, 6-7=-50, 7-8=-60, 8-9=-50, 5-7=-10, 15-21=-90, 10-28=-50, 11-28=-130(F=-80)

Drag: 4-21=-10, 8-15=-10

Concentrated Loads (lb)

Vert: 28=-1138(F)

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	
MASTER_RT130	E03	MONO TRUSS	1	1	Job Reference (optional)	I44818031

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:11 2021 Page 1
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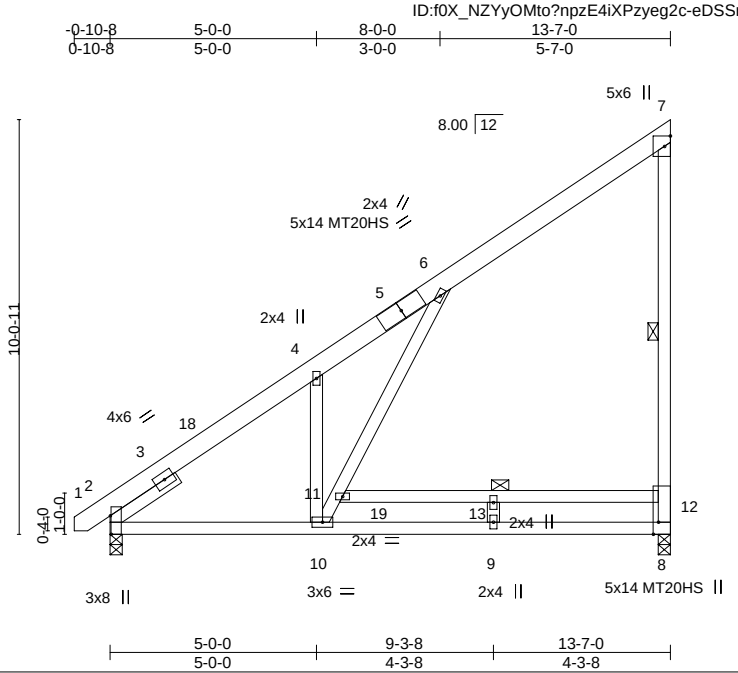

Plate Offsets (X,Y)-- [2:0-5-6,Edge], [8:0-3-8,Edge], [8:0-0-0,0-1-12], [12:0-1-12,0-0-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.35	9-10	>467	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.57	9-10	>284	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.05	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.35	9-10	>465	240	Weight: 105 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP DSS *Except*
	1-5: 2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except*
	4-10: 2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-6-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 7-8, 11-12

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=368(LC 11)
Max Uplift 8=-171(LC 12), 2=-51(LC 12)
Max Grav 8=755(LC 19), 2=594(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-712/113, 4-6=-993/312, 6-7=-249/355, 8-12=-600/244, 7-12=-535/258
BOT CHORD 2-10=-279/668
WEBS 4-10=-964/498, 10-11=-435/1096, 6-11=-426/1176, 11-13=-346/238, 12-13=-346/238

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) -0-8-9 to 2-3-7, Interior(1) 2-3-7 to 13-5-4 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
2) All plates are MT20 plates unless otherwise indicated.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=171.
6) N/A

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

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60, 8-14=-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: 1-7=-50, 8-14=-20, 12-19=-30(F)

February 15,2021

Continued on page 2

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

LOAD CASE(S) Standard

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-20, 8-14=-40, 12-19=-40(F)

18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-7=-20, 8-14=-20, 12-19=-40(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-56, 2-7=-61, 8-14=-20, 12-19=-30(F)
Horz: 1-2=6, 2-7=11, 7-8=7

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, 2-7=-42, 8-14=-20, 12-19=-30(F)
Horz: 1-2=-13, 2-7=-8, 7-8=-21

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, 2-7=-29, 8-14=-20, 12-19=-30(F)
Horz: 1-2=-25, 2-7=-21, 7-8=6

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, 2-7=-42, 8-14=-20, 12-19=-30(F)
Horz: 1-2=-13, 2-7=-8, 7-8=-19

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	E03A	MONO TRUSS	1	1	I44818032

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:11 2021 Page 1

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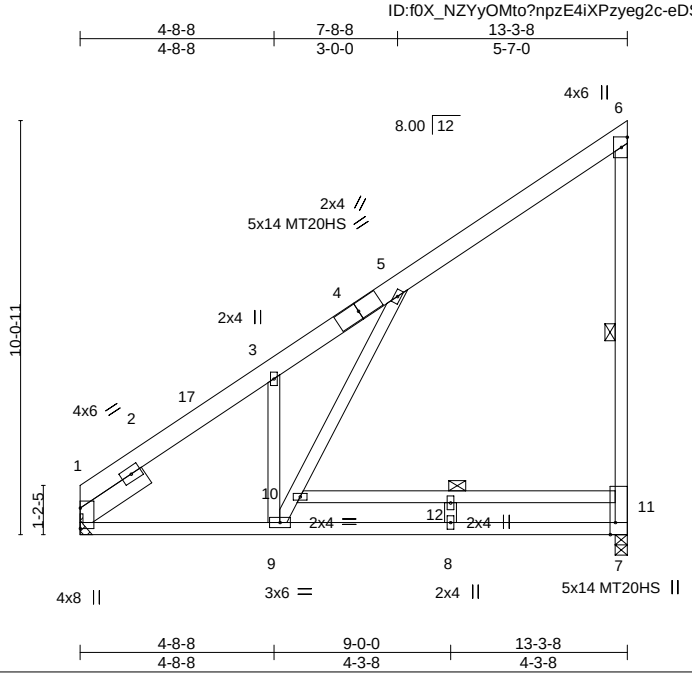

Plate Offsets (X,Y)-- [7:0-0-0,0-1-12], [7:0-3-8,Edge], [11:0-1-12,0-0-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.23	8-9	>672	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.45	8-9	>348	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.07	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.33	8-9	>477	240	Weight: 103 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
1-4: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-9: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-7, 10-11

REACTIONS. (size) 7=0-3-8, 1=Mechanical
Max Horz 1=358(LC 11)
Max Uplift 7=-170(LC 12), 1=-32(LC 12)
Max Grav 7=591(LC 19), 1=526(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-580/141, 3-5=-881/306, 5-6=-251/353, 7-11=-545/248, 6-11=-529/261
BOT CHORD 1-9=-287/651
WEBS 3-9=-940/493, 9-10=-451/1060, 5-10=-418/1074, 10-12=-346/239, 11-12=-346/239

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) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 13-5-4 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
2) All plates are MT20 plates unless otherwise indicated.
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) 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) 1 except (jt=lb) 7=170.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	E05	MONO TRUSS	1	1	I44818033
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:12 2021 Page 1
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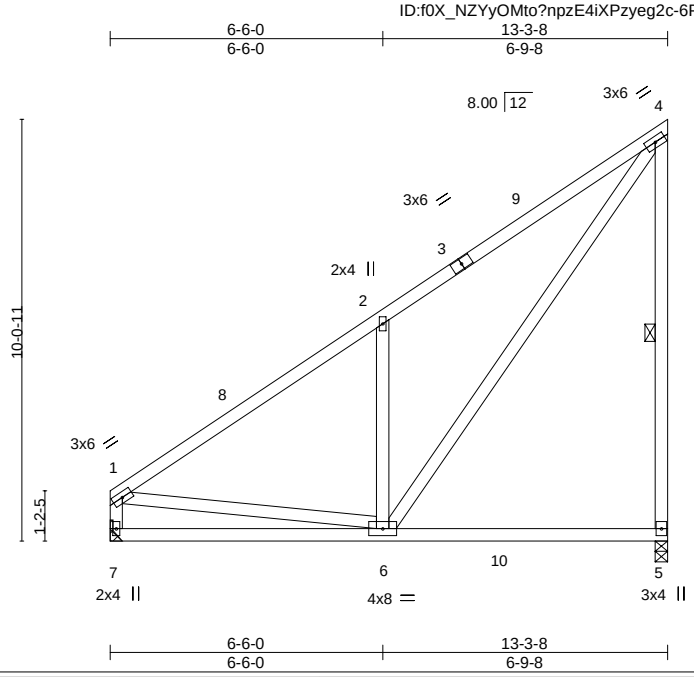

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.09	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.14	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.05	5-6	>999	240	Weight: 92 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-5: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-9 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS. (size) 7=Mechanical, 5=0-3-8
Max Horz 7=369(LC 9)
Max Uplift 7=-30(LC 12), 5=-170(LC 12)
Max Grav 7=522(LC 20), 5=687(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-476/122, 1-2=-622/119, 2-4=-659/293, 4-5=-593/288
BOT CHORD 6-7=-531/642
WEBS 2-6=-511/323, 4-6=-314/783, 1-6=-65/384

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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 13-5-4 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
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, with BCDL = 10.0psf.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 5=170.

February 15,2021

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Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	L01SG	FINK	1	1	I44818034
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:13 2021 Page 1
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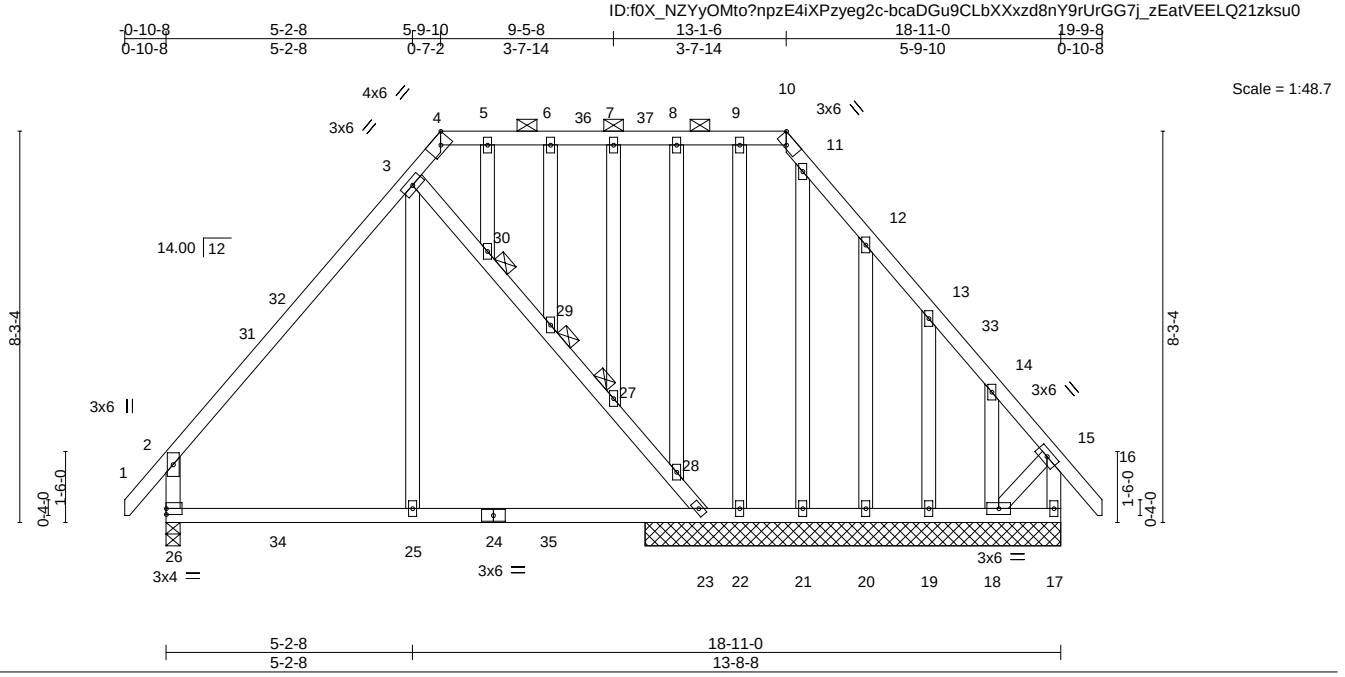

Plate Offsets (X,Y)-- [4:0-2-11,Edge], [10:0-2-11,Edge]

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	0.55	Vert(LL)	-0.03	23-25	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.06	23-25	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(CT)	-0.01	17	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	-0.03	23-25	>999	240	Weight: 169 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 25-26,23-25.
JOINTS 1 Brace at Jt(s): 27, 29, 30

REACTIONS. All bearings 8-9-8 except (jt=length) 26=0-3-8.
(lb) - Max Horz 26=-254(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 26, 19 except 22=-110(LC 9), 20=-109(LC 13), 18=-219(LC 13), 17=-294(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 22, 21, 20, 19, 17 except 26=480(LC 19), 23=676(LC 25), 18=296(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-385/157, 14-15=-140/255, 2-26=-418/202, 15-17=-197/299
BOT CHORD 25-26=-170/298, 23-25=-170/298
WEBS 3-30=-430/135, 29-30=-408/53, 27-29=-435/85, 27-28=-421/99, 23-28=-472/93, 3-25=0/287, 15-18=-260/199

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) -0-9-15 to 2-2-1, Interior(1) 2-2-1 to 5-9-10, Exterior(2) 5-9-10 to 8-9-10, Interior(1) 8-9-10 to 13-1-6, Exterior(2) 13-1-6 to 16-1-8, Interior(1) 16-1-8 to 19-8-15 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
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 19 except (jt=lb) 22=110, 20=109, 18=219, 17=294.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 15,2021

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	L02GR	HIP	1	2	I44818035

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:14 2021 Page 1

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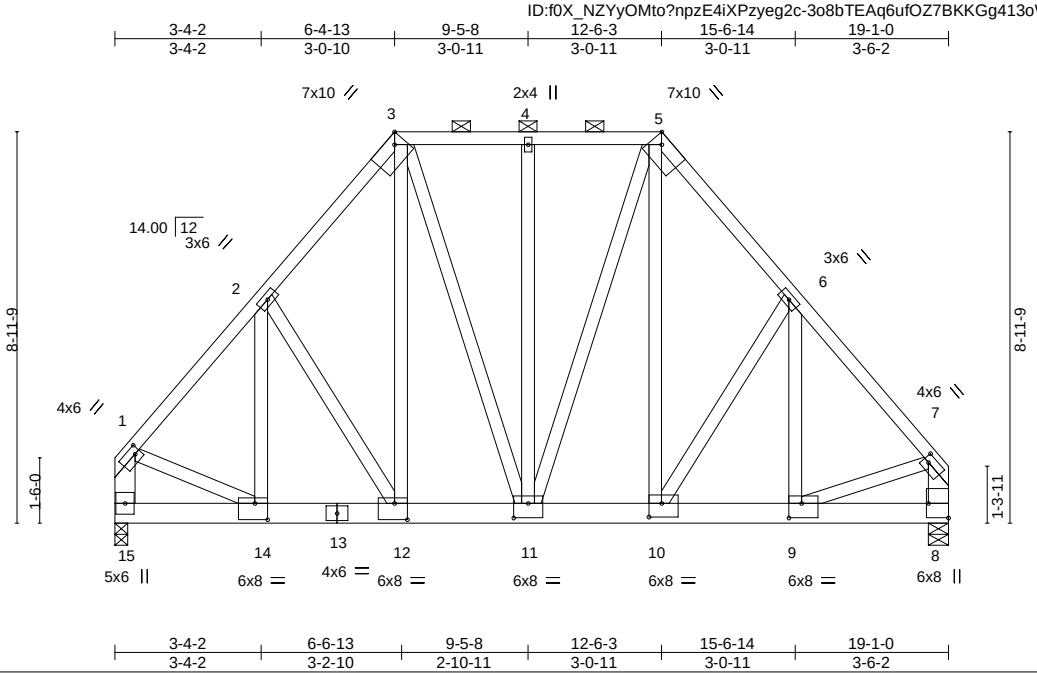

Plate Offsets (X,Y)-- [1:0-1-8,0-2-0], [3:0-2-11,Edge], [5:0-2-11,Edge], [7:0-1-8,0-2-0], [8:Edge,0-5-8], [9:0-3-8,0-4-0], [10:0-3-8,0-3-12], [11:0-4-0,0-4-0], [12:0-3-8,0-4-8], [14:0-3-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.04	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.08	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.04	9-10	>999	240	Weight: 381 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2 *Except*
1-15,7-8: 2x6 SP No.2

BRACING-

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

REACTIONS. (size) 15=0-3-8 (req. 0-3-13), 8=0-5-8
Max Horz 15=-240(LC 4)
Max Uplift 15=-1073(LC 8), 8=-1074(LC 9)
Max Grav 15=6501(LC 15), 8=6499(LC 15)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-5473/919, 1-2=-5404/921, 2-3=-4930/947, 3-4=-3574/720, 4-5=-3574/720, 5-6=-4957/959, 6-7=-5630/955, 7-8=-5401/909
BOT CHORD 14-15=-276/488, 12-14=-699/3606, 11-12=-607/3268, 10-11=-556/3266, 9-10=-570/3637, 8-9=-103/429
WEBS 1-14=-540/3384, 2-14=-121/733, 2-12=-701/267, 3-12=-498/2512, 3-11=-297/1214, 5-11=-280/1124, 5-10=-527/2563, 6-10=-824/303, 6-9=-162/992, 7-9=-536/3390

NOTES-

1) 2-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 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=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
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=1073, 8=1074.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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LOAD CASE(S) Standard

Continued on page 2

ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-5=-60, 5-7=-60, 8-15=-580(F=-560)

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	I44818036
MASTER_RT130	P06	JACK	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:15 2021 Page 1
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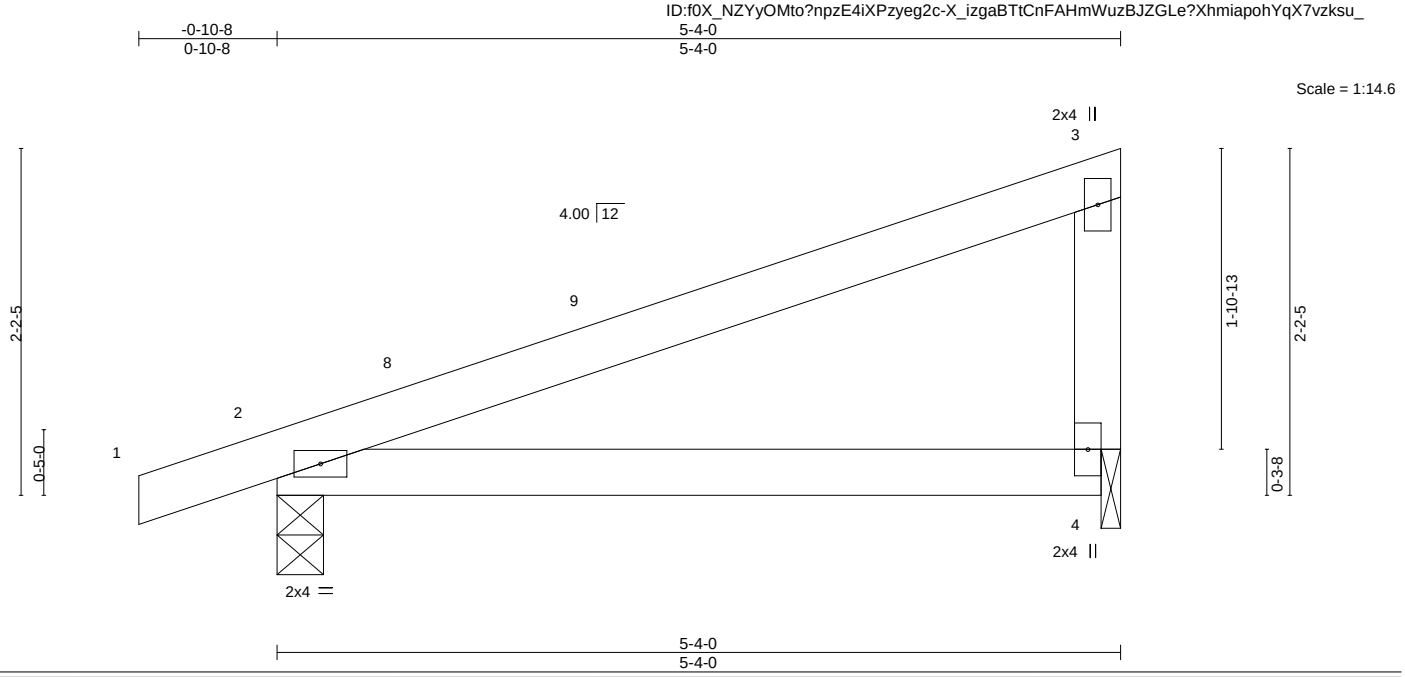

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.03	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	4-7	>851	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.04	4-7	>999	240	Weight: 20 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 5-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-1-8
Max Horz 2=84(LC 11)
Max Uplift 2=-72(LC 8), 4=-45(LC 12)
Max Grav 2=264(LC 1), 4=203(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 5-2-4 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

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Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON	
MASTER_RT130	P06A	JACK	1	1	Job Reference (optional)	I44818037

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:15 2021 Page 1
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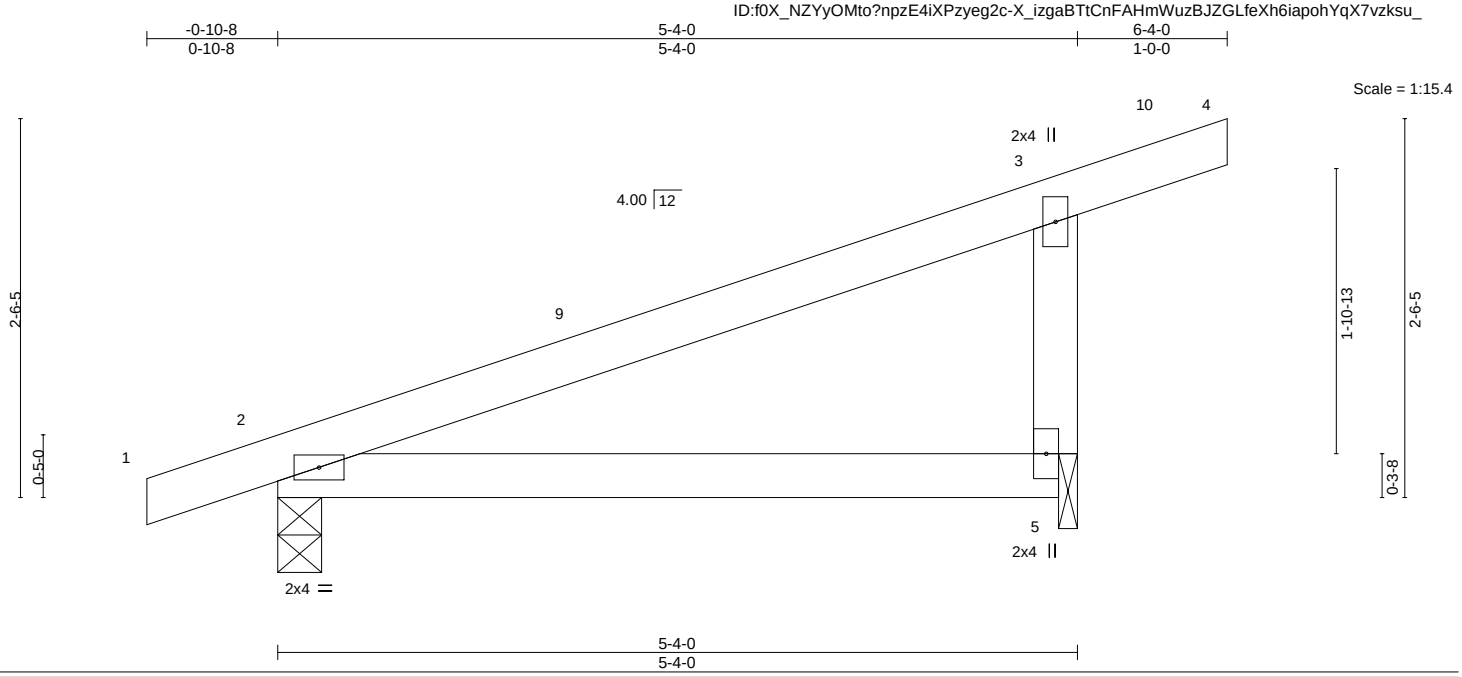

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.03	5-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.07	5-8	>908	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.03	5-8	>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 5-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=0-1-8
Max Horz 2=98(LC 9)
Max Uplift 2=-64(LC 8), 5=-75(LC 8)
Max Grav 2=257(LC 1), 5=279(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 6-4-0 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
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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.

February 15,2021

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Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	P07	JACK	1	1	I44818038
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:16 2021 Page 1
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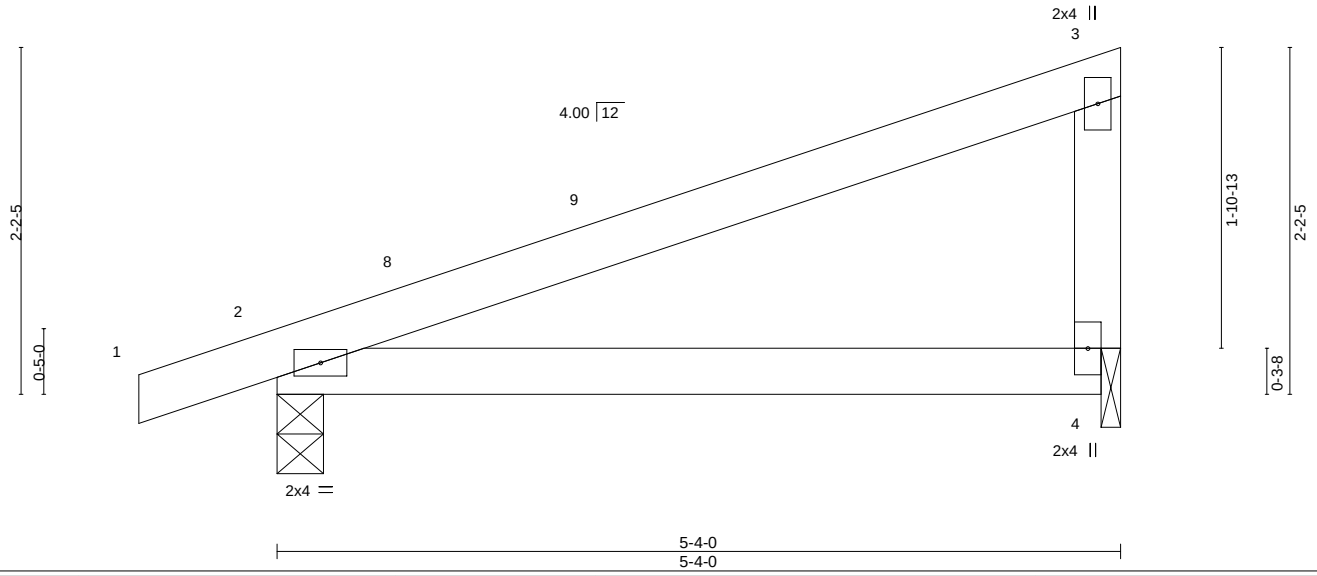

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.03	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	4-7	>851	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.04	4-7	>999	240	Weight: 20 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 5-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-1-8
Max Horz 2=84(LC 11)
Max Uplift 2=-72(LC 8), 4=-45(LC 12)
Max Grav 2=264(LC 1), 4=203(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 5-2-4 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	P08	MONO HIP	1	1	I44818039
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:17 2021 Page 1
ID:f0X_NZYyOMto?npzE4iXPzyeg2c-TNqj5FCjPp1zQbwv0OEoehQ__KNRATJ59sJdAozksty

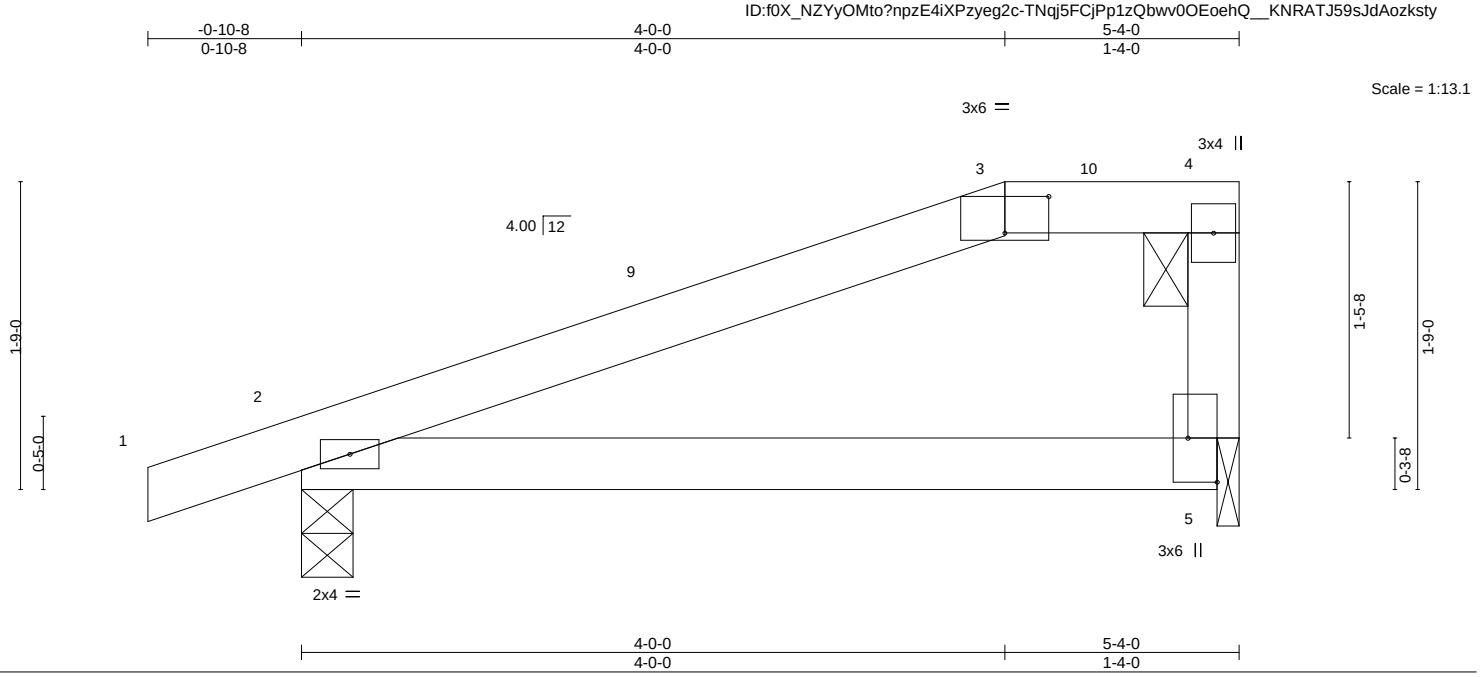

Plate Offsets (X,Y)-- [3:0-3-0,0-2-8], [5:Edge,0-2-0]

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	0.43	Vert(LL)	-0.01	5-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.03	5-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.01	5-8	>999	240	Weight: 19 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 5-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=0-1-8
Max Horz 2=67(LC 11)
Max Uplift 2=-75(LC 8), 5=-41(LC 8)
Max Grav 2=264(LC 1), 5=203(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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2) 4-0-0 to 5-2-4 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) 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	P09	MONO HIP	1	1	I44818040
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:17 2021 Page 1
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0-10-8 2-0-0 3-4-0

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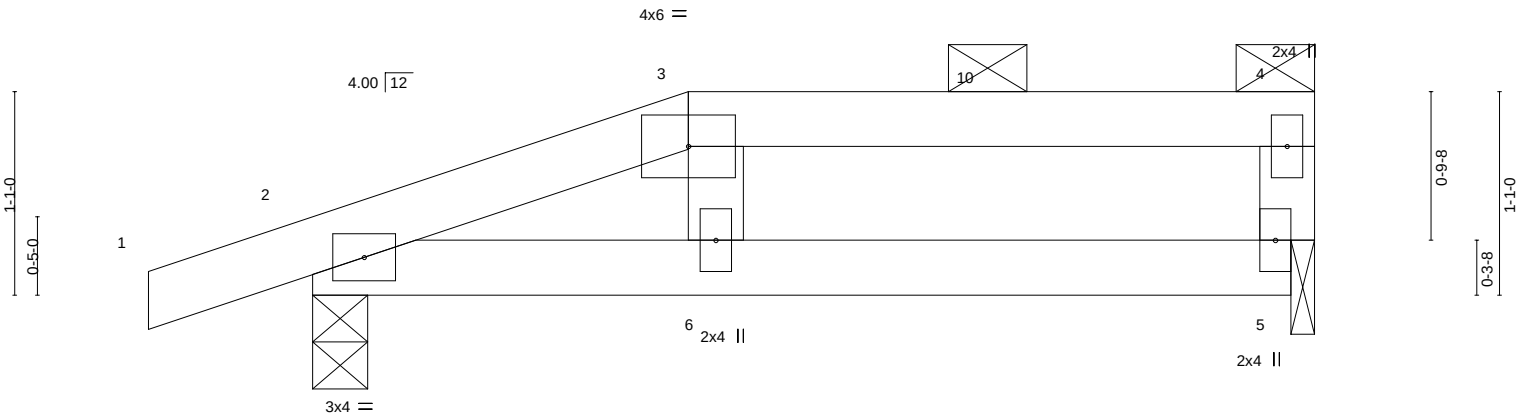


2-0-0 5-4-0
2-0-0 3-4-0

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	0.21	Vert(LL)	-0.05	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.12	5-6	>517	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.05	5-6	>999	240	Weight: 19 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 5-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=0-1-8
Max Horz 2=38(LC 7)
Max Uplift 2=-77(LC 4), 5=-38(LC 4)
Max Grav 2=264(LC 1), 5=203(LC 1)

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

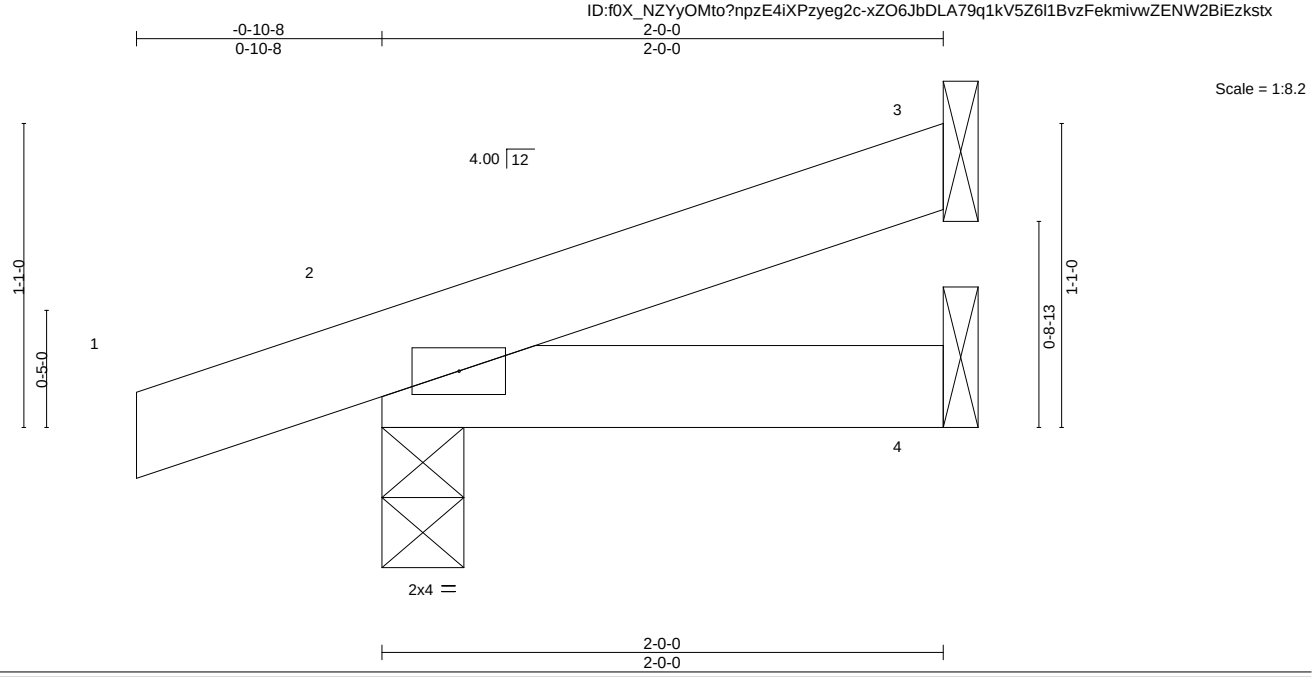
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	P10	JACK	1	1	I44818041
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:18 2021 Page 1
ID:f0X_NZYyOMto?npzE4iXPzyeg2c-xZO6JbDLA79q1kV5Z6l1BvzFekmivwZENW2BiEzkstx



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	0.05	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	7	>999	240	Weight: 8 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=41(LC 8)
Max Uplift 3=-21(LC 12), 2=-53(LC 8)
Max Grav 3=45(LC 1), 2=144(LC 1), 4=34(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	SP01G	GABLE	1	1	I44818042
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:20 2021 Page 1
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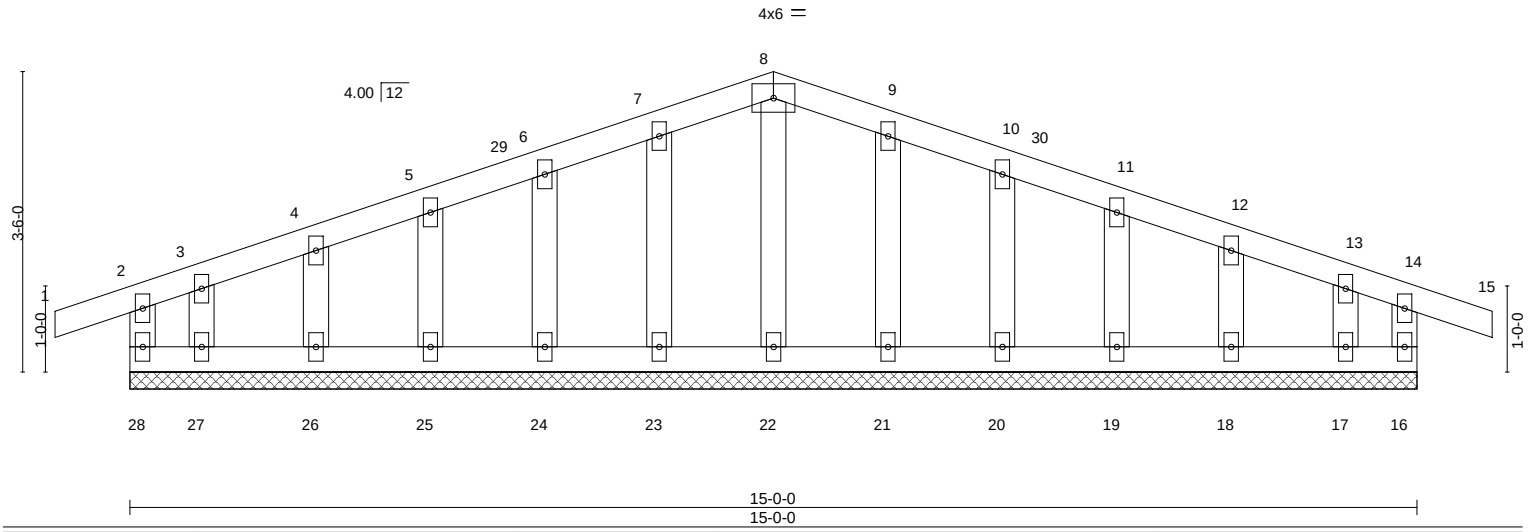
Scale = 1:26.9



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	0.08	Vert(LL)	-0.00	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 79 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 15-0-0.
(lb) - Max Horz 28=23(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 28, 16, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 28, 16, 22, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17

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 Corner(3) -0-10-8 to 2-2-0, Exterior(2) 2-2-0 to 7-6-0, Corner(3) 7-6-0 to 10-6-0, Exterior(2) 10-6-0 to 15-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 16, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17.

February 15,2021

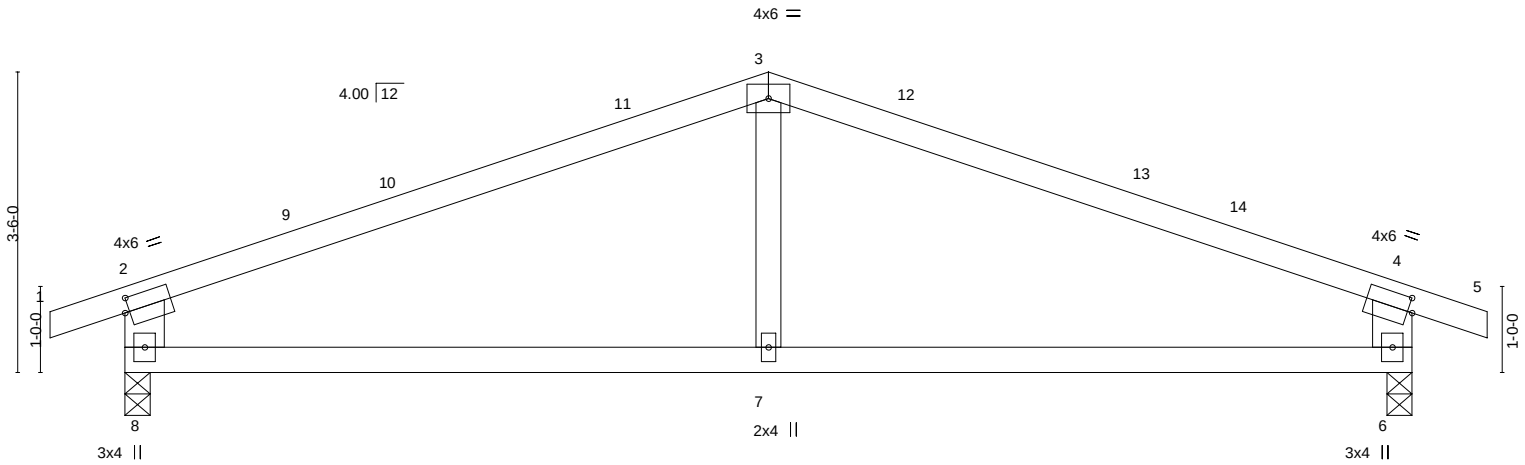
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	SP02	COMMON	1	1	I44818043
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:21 2021 Page 1
ID:f0X_NZYyOMto?npzE4iXPzyeg2c-M83ExdGDS2XPuCEgFElkpXbYKyhZ6Geh4UHrJZzkstu

-0-10-8 0-10-8 | 7-6-0 7-6-0 | 15-0-0 7-6-0 | 15-10-8 0-10-8

Scale = 1:26.9



7-6-0 7-6-0 | 15-0-0 7-6-0

Plate Offsets (X,Y)-- [2:0-0-11,0-2-0], [4:0-0-11,0-2-0]

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	0.92	Vert(LL)	-0.08	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.18	6-7	>953	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.03	7-8	>999	240	Weight: 56 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
3-7: 2x4 SP No.3

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=34(LC 16)
Max Uplift 8=-131(LC 8), 6=-131(LC 9)
Max Grav 8=648(LC 1), 6=648(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-806/159, 3-4=-806/159, 2-8=-562/208, 4-6=-562/208
BOT CHORD 7-8=-80/685, 6-7=-80/685
WEBS 3-7=0/280

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 7-6-0, Exterior(2) 7-6-0 to 11-8-15, Interior(1) 11-8-15 to 15-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=131, 6=131.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	SP03	COMMON	1	1	I44818044
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:23 2021 Page 1
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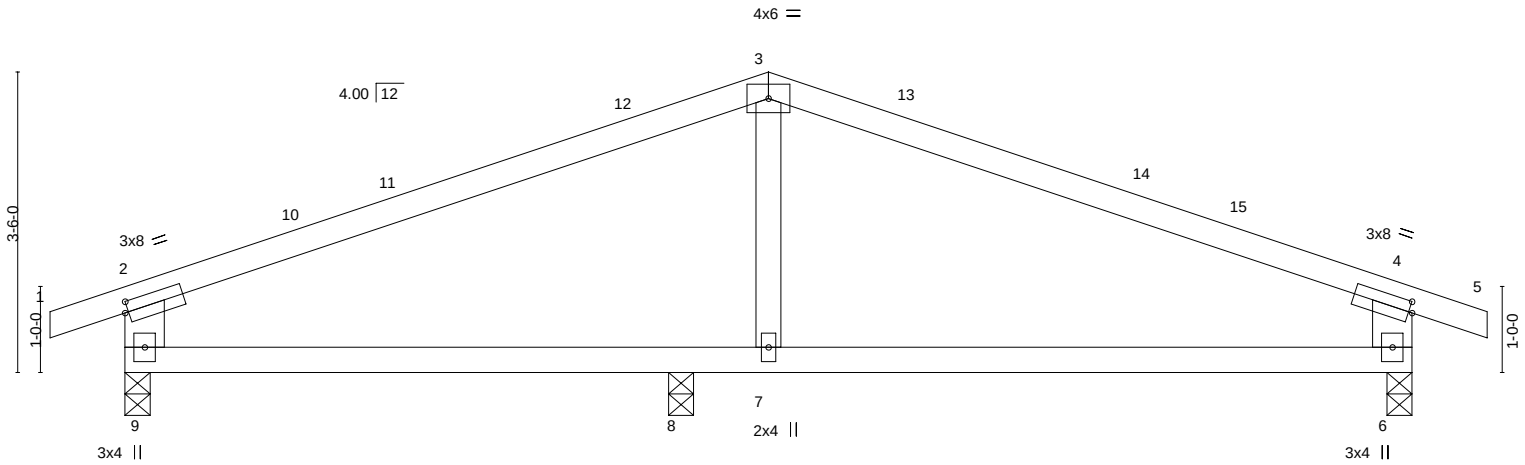
Scale = 1:26.9



6-4-0 6-4-0 | 7-6-0 1-2-0 | 15-0-0 7-6-0

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

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	0.74	Vert(LL)	-0.09	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.19	6-7	>529	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	0.03	6-7	>999	240	Weight: 56 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
3-7: 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) 9=0-3-8, 6=0-3-8, 8=0-3-8
Max Horz 9=34(LC 16)
Max Uplift 9=-155(LC 8), 6=-157(LC 9)
Max Grav 9=513(LC 1), 6=546(LC 1), 8=258(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-560/210, 3-4=-558/196, 2-9=-468/228, 4-6=-463/222
BOT CHORD 8-9=-113/456, 7-8=-113/456, 6-7=-113/456

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 7-6-0, Exterior(2) 7-6-0 to 11-8-15, Interior(1) 11-8-15 to 15-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=155, 6=157.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	V10	VALLEY	1	1	I44818045
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:25 2021 Page 1
ID:f0X_NZYyOMto?npzE4iXPzyeg2c-EwJln_JkWG1qNpXRU4NgzNmNPZ6?235G_6F2SKzkstq

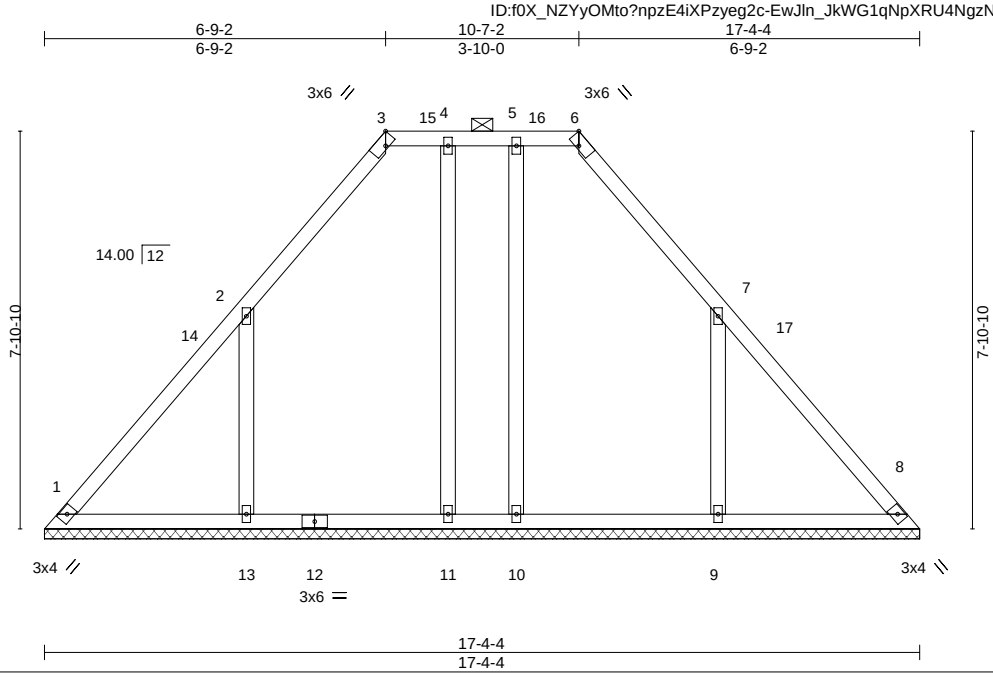


Plate Offsets (X,Y)-- [3:0-2-11,Edge], [6:0-2-11,Edge]

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	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 95 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, except 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-4-4.
(lb) - Max Horz 1=-200(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 10, 11 except 9=-272(LC 13), 13=-273(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 8, 10, 11 except 9=471(LC 20), 13=473(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-269/148, 7-8=-267/134
WEBS 7-9=-364/310, 2-13=-364/312

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) 0-3-13 to 3-3-13, Interior(1) 3-3-13 to 6-9-2, Exterior(2) 6-9-2 to 9-9-2, Interior(1) 9-9-2 to 10-7-2, Exterior(2) 10-7-2 to 13-4-4, Interior(1) 13-4-4 to 17-0-7 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 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 10, 11 except (jt=lb) 9=272, 13=273.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	V11	VALLEY	1	1	I44818046

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:27 2021 Page 1
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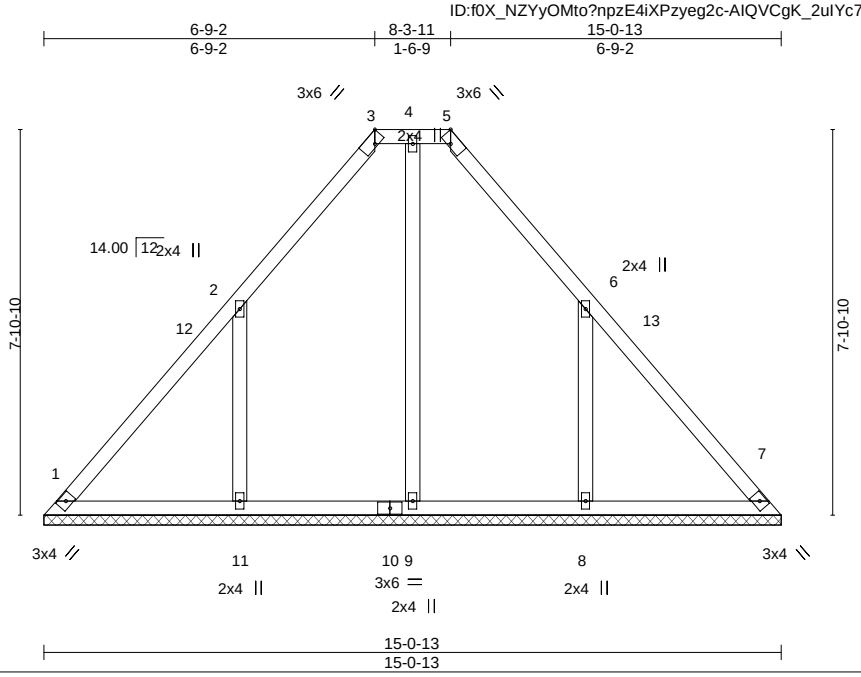

Plate Offsets (X,Y)-- [3:0-2-11,Edge], [5:0-2-11,Edge]

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	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 77 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, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-0-13.
(lb) - Max Horz 1=-200(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 8=-282(LC 13), 11=-282(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=307(LC 22), 8=454(LC 20), 11=454(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 6-8=-371/316, 2-11=-371/316

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) 0-3-13 to 3-3-13, Interior(1) 3-3-13 to 6-9-2, Exterior(2) 6-9-2 to 11-0-13, Interior(1) 11-0-13 to 14-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 8=282, 11=282.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 15,2021

ENGINEERING BY
TRENCO
A MiTek Affiliate
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	V12	VALLEY	1	1	I44818047

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:28 2021 Page 1
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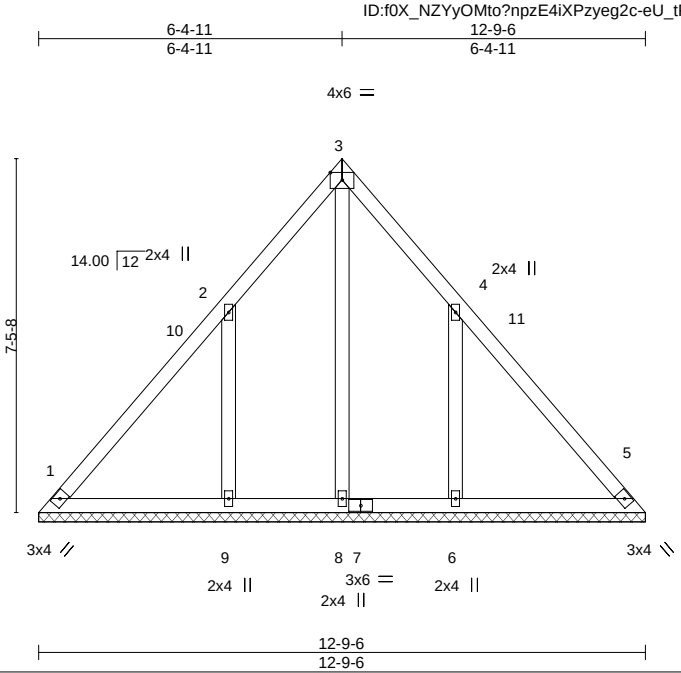

Plate Offsets (X,Y)-- [3:Edge,0-1-14]

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	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 69 lb	FT = 20%

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

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

REACTIONS. All bearings 12-9-6.
(lb) - Max Horz 1=187(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 6=-267(LC 13), 9=-268(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8 except 6=411(LC 20), 9=412(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-6=-360/294, 2-9=-360/294

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) 0-3-13 to 3-3-13, Interior(1) 3-3-13 to 6-4-11, Exterior(2) 6-4-11 to 9-4-11, Interior(1) 9-4-11 to 12-5-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=267, 9=268.

February 15,2021

ENGINEERING BY
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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	V13	VALLEY	1	1	I44818048
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:30 2021 Page 1
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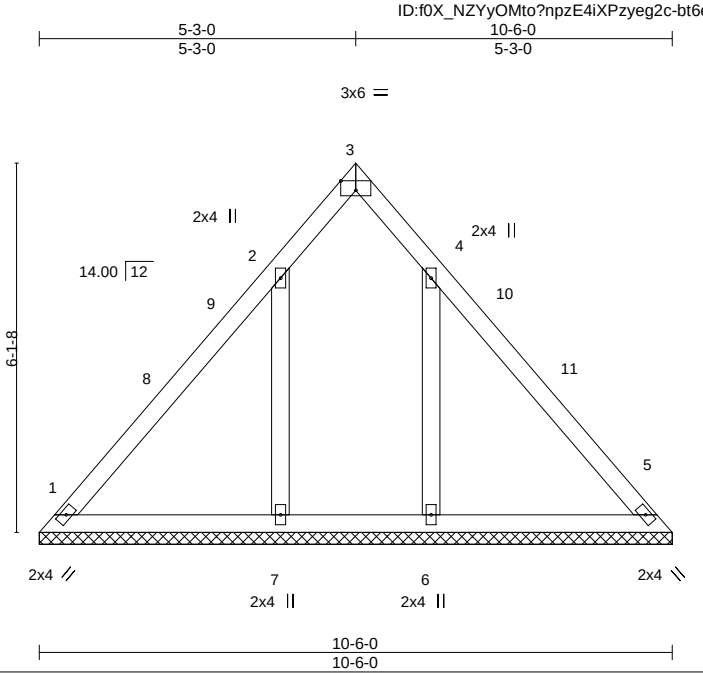

Plate Offsets (X,Y)-- [3:Edge,0-1-14]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 51 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 6-0-0 oc bracing.

REACTIONS. All bearings 10-6-0.
(lb) - Max Horz 1=-151(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 6=-247(LC 13), 7=-250(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=399(LC 20), 7=403(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-278/259, 4-5=-278/259
WEBS 4-6=-350/291, 2-7=-350/291

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) 0-3-13 to 3-3-13, Interior(1) 3-3-13 to 5-3-0, Exterior(2) 5-3-0 to 8-3-0, Interior(1) 8-3-0 to 10-2-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 6 and 250 lb uplift at joint 7.

February 15,2021

ENGINEERING BY
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	V14	VALLEY	1	1	I44818049

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:31 2021 Page 1
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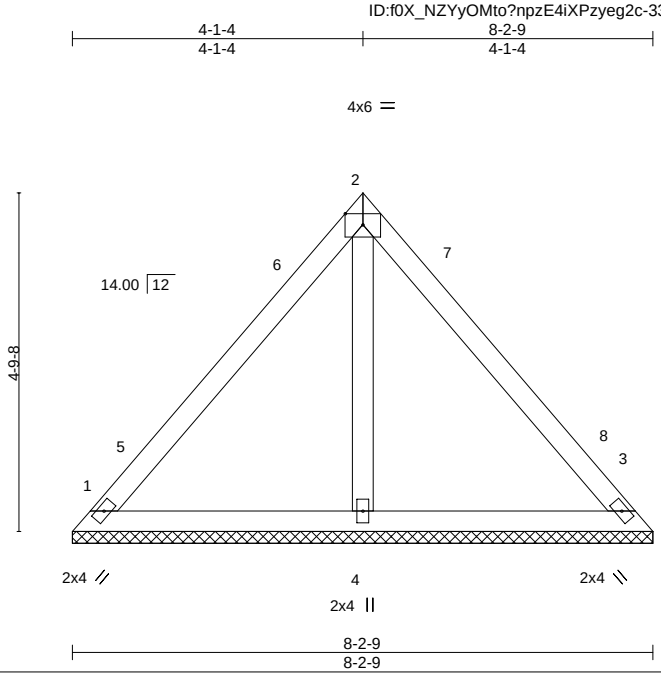

Plate Offsets (X,Y)-- [2:Edge,0-1-14]

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)	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	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 36 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=8-2-9, 3=8-2-9, 4=8-2-9
Max Horz 1=116(LC 11)
Max Uplift 1=-40(LC 13), 3=-29(LC 12), 4=-6(LC 12)
Max Grav 1=176(LC 1), 3=176(LC 1), 4=255(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) 0-3-13 to 3-3-13, Interior(1) 3-3-13 to 4-1-4, Exterior(2) 4-1-4 to 7-1-4, Interior(1) 7-1-4 to 7-10-12 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) 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 40 lb uplift at joint 1, 29 lb uplift at joint 3 and 6 lb uplift at joint 4.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	V15	VALLEY	1	1	I44818050

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:33 2021 Page 1
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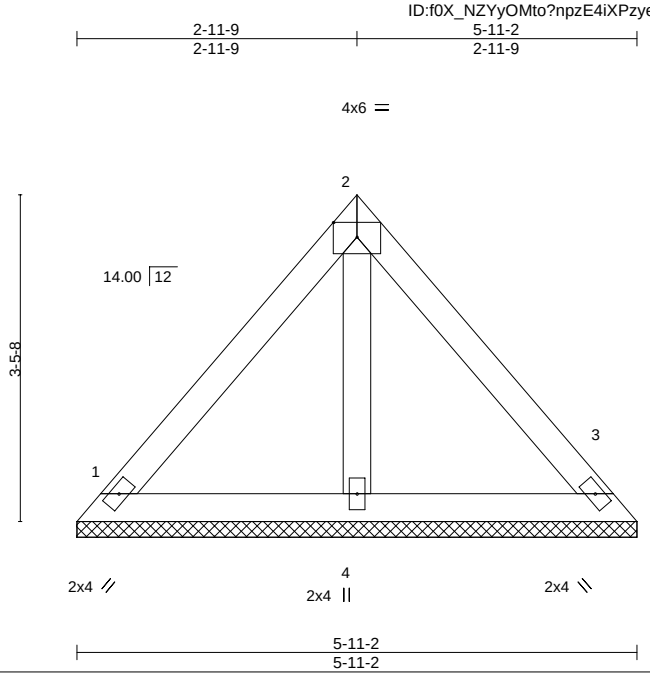

Plate Offsets (X,Y)-- [2:Edge,0-1-14]

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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 25 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 5-11-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-11-2, 3=5-11-2, 4=5-11-2
Max Horz 1=-81(LC 8)
Max Uplift 1=-38(LC 13), 3=-30(LC 12)
Max Grav 1=132(LC 1), 3=132(LC 1), 4=164(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=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 38 lb uplift at joint 1 and 30 lb uplift at joint 3.

February 15,2021

ENGINEERING BY
TRENCO
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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	V16	VALLEY	1	1	I44818051
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:34 2021 Page 1
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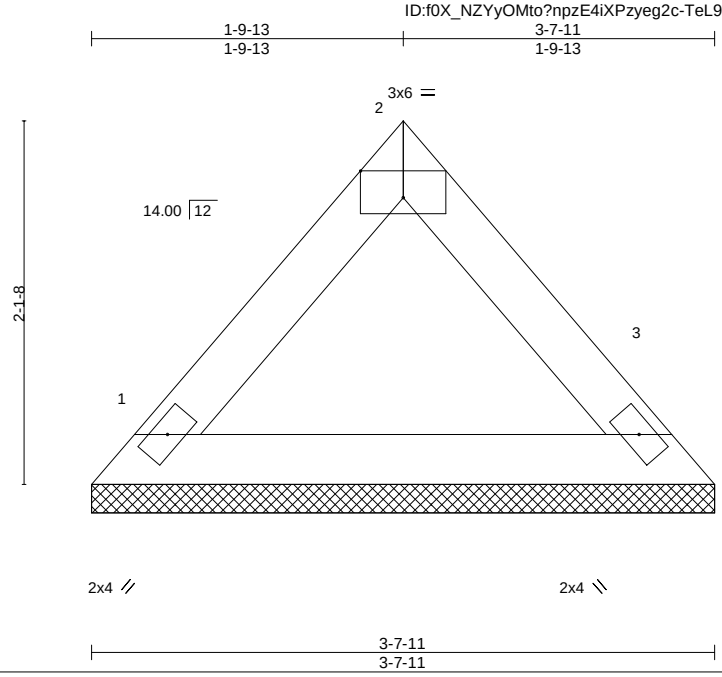

Plate Offsets (X,Y)-- [2:Edge,0-1-14]

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-7-11, 3=3-7-11
Max Horz 1=-46(LC 8)
Max Uplift 1=-13(LC 13), 3=-13(LC 12)
Max Grav 1=120(LC 1), 3=120(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 13 lb uplift at joint 1 and 13 lb uplift at joint 3.

February 15,2021

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

Job	Truss	Truss Type	Qty	Ply	MCKEE; NELSON
MASTER_RT130	V17	VALLEY	1	1	I44818052
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Feb 15 14:20:35 2021 Page 1
ID:f0X_NZYyOMto?npzE4iXPzyeg2c-xrvXtPQ?9LIQaMIM3AY0NUA86bX7OcmkIfgaplzkstg

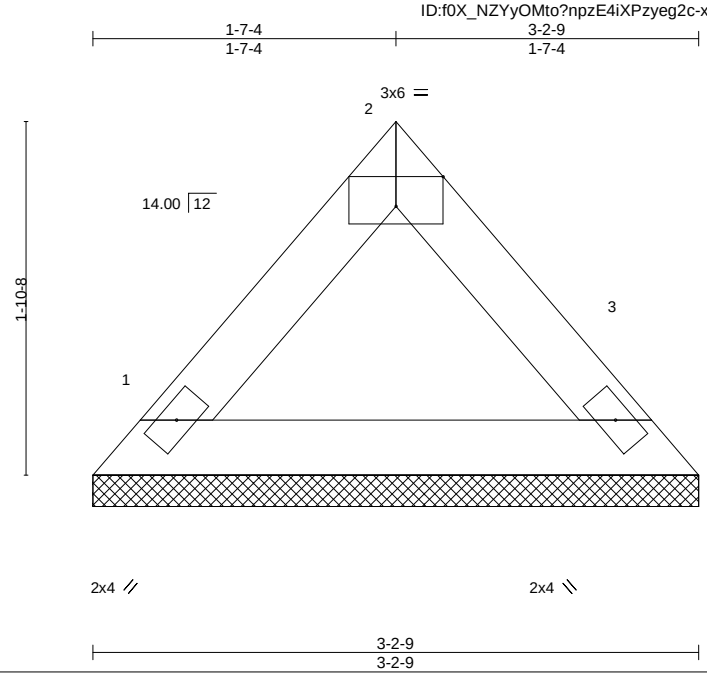

Plate Offsets (X,Y)-- [2:Edge,0-1-14]

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 11 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 3-2-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-2-9, 3=3-2-9
Max Horz 1=-40(LC 8)
Max Uplift 1=-11(LC 13), 3=-11(LC 12)
Max Grav 1=103(LC 1), 3=103(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 11 lb uplift at joint 1 and 11 lb uplift at joint 3.

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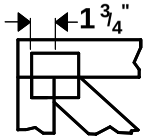
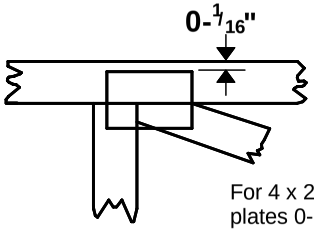
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

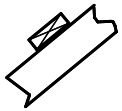
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

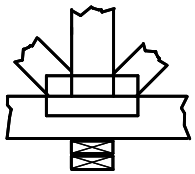
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

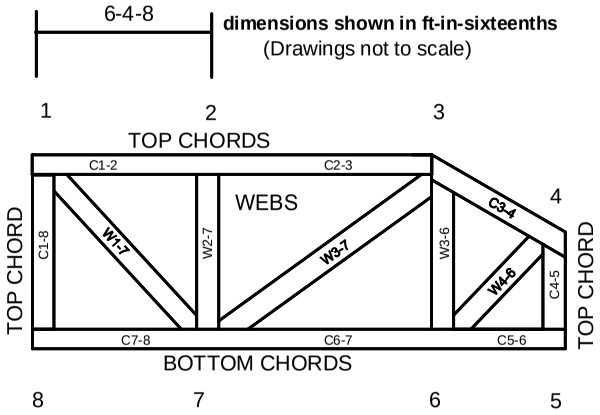


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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