

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: AC1129
MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY

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: I44632120 thru I44632148

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

North Carolina COA: C-0844



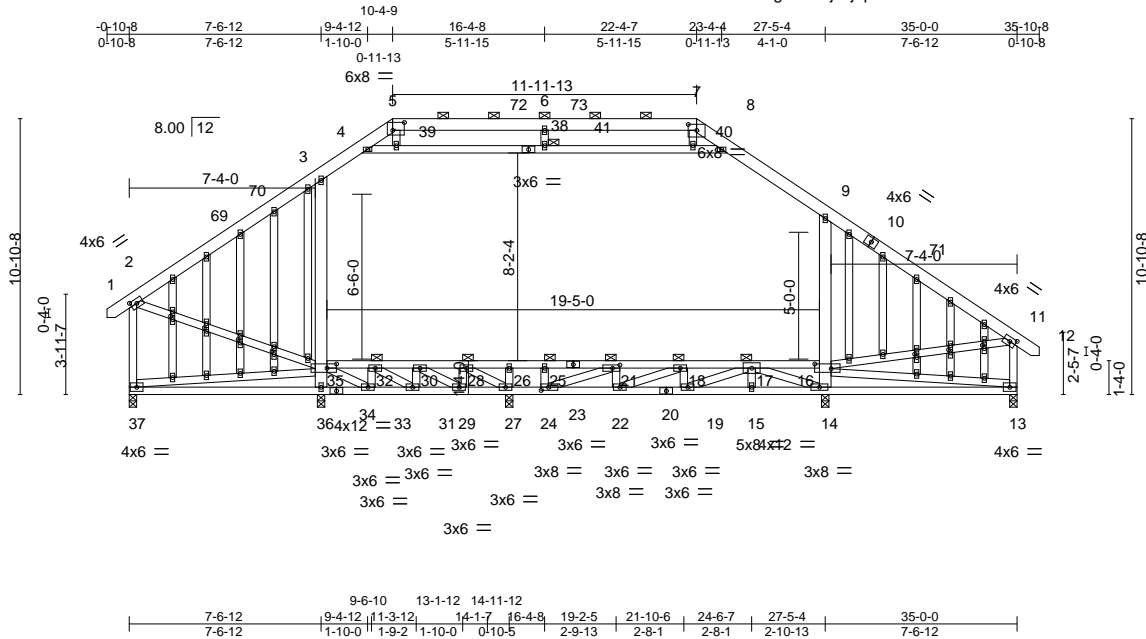
February 2, 2021

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 AC1129	Truss A01G	Truss Type GABLE	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632120
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:35 2021 Page 1
 ID:Jnu27T8aAas2DQsg9LB7sjzj2p-7FnXc2LxE2hutbrOioISk7cld7wkNY7wYoETnyzpDU_



Scale = 1:90.8

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [5:0-5-8,0-3-12], [7:0-4-0,0-2-13], [11:0-2-14,0-2-0], [16:0-7-12,0-2-4], [21:0-3-8,0-1-8], [24:0-3-8,0-1-8], [35:0-4-8,0-2-0], [44:0-1-11,0-1-0], [47:0-1-11,0-1-0], [50:0-1-11,0-1-0], [53:0-1-11,0-1-0], [62:0-1-9,0-1-0], [65:0-1-9,0-1-0], [68:0-1-9,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) -0.09	21-25	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.15	36-37	>590	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.02	14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) -0.01	36-37	>999	240	Weight: 389 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-6 max.): 5-7.
BOT CHORD 2x4 SP No.2 *Except* 16-23,23-35: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-38,2-37,11-13,4-38: 2x4 SP No.2 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 25, 18, 21, 17, 32, 28, 41

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 37=324(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 14 except 37=174(LC 8), 36=111(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 13=888(LC 25), 37=1077(LC 1), 27=1420(LC 18), 36=778(LC 20), 14=1369(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1029/292, 3-4=-977/258, 4-5=-1383/385, 7-8=-1352/377, 8-9=-1055/239, 9-11=-1031/195, 2-37=-1009/194, 11-13=-853/142, 5-6=-1269/365, 6-7=-1269/365
 BOT CHORD 31-33=-97/413, 29-31=-75/450, 24-27=-318/285, 22-24=0/1359, 19-22=0/1508, 15-19=0/875, 14-15=0/875, 13-14=-644/0, 32-35=-121/551, 30-32=-100/422, 28-30=0/650, 26-28=0/698, 25-26=0/698, 21-25=0/698, 18-21=-1015/0, 17-18=-1163/0, 16-17=-18/1187
 WEBS 4-39=-225/537, 39-41=-228/576, 40-41=-228/576, 8-40=-224/542, 35-36=-621/217, 3-35=-494/264, 14-16=-724/253, 9-16=-594/299, 21-24=-1789/0, 17-19=0/680, 14-17=-1645/0, 5-39=-32/250, 2-35=-278/782, 13-16=0/675, 11-16=-183/714, 26-27=-761/0, 33-35=-21/346, 29-30=-639/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-9 to 4-1-1, Interior(1) 4-1-1 to 10-4-9, Exterior(2) 10-4-9 to 15-2-3, Interior(1) 15-2-3 to 22-4-7, Exterior(2) 22-4-7 to 27-5-4, Interior(1) 27-5-4 to 35-8-9 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide



Job AC1129	Truss A01G	Truss Type GABLE	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632120 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:36 2021 Page 2
ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-bRLvpOMa?LpIUIEaF5GhGL9TyXGz6?M3nSz1IPzpDTz

- NOTES-**
- 9) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-39, 39-41, 40-41, 8-40; Wall dead load (5.0psf) on member(s).3-35, 9-16
 - 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 32-35, 30-32, 28-30, 26-28, 25-26, 21-25, 18-21, 17-18, 16-17
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14 except (jt=lb) 37=174, 36=111.
 - 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.

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

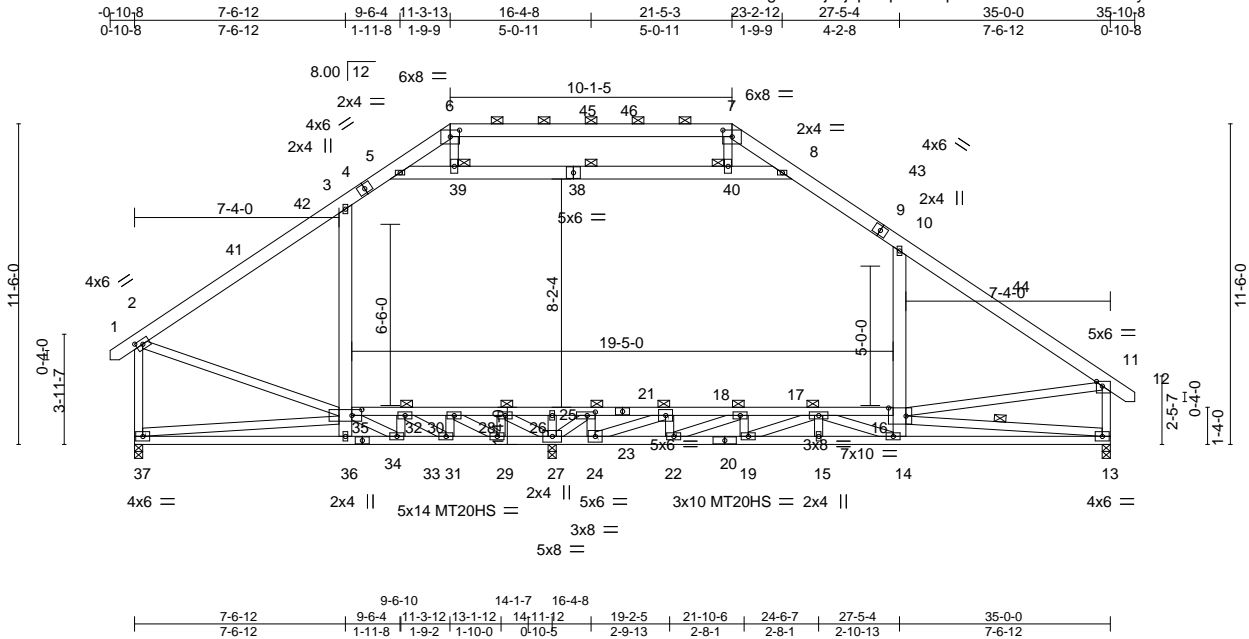
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss A03	Truss Type ATTIC	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632121
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:38 2021 Page 1
 ID: Jnu27T8aAaS2DQsg9LB7sjzzj2p-XqTIE4NqXz3Tk3OzNWl9LmEoDKyFavHmEmS8NHZpDTx



Scale = 1:82.6

Plate Offsets (X,Y)--	[2:0-2-14,0-2-0], [6:0-4-0,0-2-13], [7:0-4-0,0-2-13], [11:0-2-8,0-2-0], [16:0-7-8,0-3-8], [25:0-3-8,0-1-8], [35:0-4-4,0-2-8]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) -0.26 14-15 >926 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.71	Vert(CT) -0.47 16-17 >509 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.17 14 >999 240	Weight: 339 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x4 SP No.2 *Except* 16-23,23-35: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 4-7-6 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-38,3-36,10-14,5-38: 2x6 SP No.2, 2-37,11-13: 2x4 SP No.2	WEBS 1 Row at midpt 39-40, 13-16
	JOINTS 1 Brace at Jt(s): 25, 18, 21, 17, 39, 40, 32, 28

REACTIONS. (size) 13=0-3-8, 37=0-3-8, 27=0-3-8
 Max Horz 37=-339(LC 10)
 Max Uplift 13=-11(LC 13)
 Max Grav 13=1548(LC 2), 37=1377(LC 1), 27=1957(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1396/113, 3-5=-1225/232, 5-6=-845/310, 7-8=-817/314, 8-10=-1293/217,
 10-11=-1496/45, 2-37=-1322/163, 11-13=-1197/114, 6-7=-679/304
 BOT CHORD 36-37=-846/804, 33-36=-1017/875, 31-33=-900/574, 29-31=-1020/245, 27-29=-1527/19,
 24-27=-1055/106, 22-24=-60/1310, 19-22=0/2517, 15-19=-23/3042, 14-15=-23/3042,
 13-14=-283/2528, 32-35=-374/1767, 30-32=-45/1869, 28-30=0/2376, 26-28=0/3298,
 25-26=0/3298, 21-25=0/2060, 18-21=-414/482, 17-18=-1668/79, 16-17=-2029/580
 WEBS 5-39=-787/84, 39-40=-775/86, 8-40=-780/77, 35-36=0/330, 3-35=-324/281,
 14-16=-39/271, 10-16=-288/306, 24-25=0/810, 18-19=-37/266, 21-22=0/546,
 21-24=-2260/0, 18-22=-1412/0, 17-19=-563/216, 14-17=-604/267, 35-37=-488/755,
 2-35=-112/1083, 13-16=-2396/246, 11-16=-14/984, 33-35=-417/212, 30-31=-61/336,
 28-29=-22/471, 31-32=-539/193, 29-30=-995/68, 27-28=-1214/0, 25-27=-1768/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-9 to 4-1-1, Interior(1) 4-1-1 to 11-3-13, Exterior(2) 11-3-13 to 16-1-7, Interior(1) 16-1-7 to 21-5-3, Exterior(2) 21-5-3 to 26-2-12, Interior(1) 26-2-12 to 35-8-9 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-5, 8-10, 5-39, 39-40, 8-40; Wall dead load (5.0psf) on member(s).3-35, 10-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 32-35, 30-32, 28-30, 26-28, 25-26, 21-25, 18-21, 17-18, 16-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.
- Our graphic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 2, 2021

Job AC1129	Truss A03	Truss Type ATTIC	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632121 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:38 2021 Page 2
ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-XqTfE4NqXz3Tk3OzNWl9LmEoDKyFavHMEms8NHZpDTx

NOTES-

12) Attic room checked for L/360 deflection.

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

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



818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss A05	Truss Type MONO TRUSS	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632122
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:39 2021 Page 1

ID: Jnu27T8aAaS2DQsg9LB7sjzj2p-0012SQOSIGBKLCy9xDpOuzmyskGXJJ8VTQChvkzpDTw

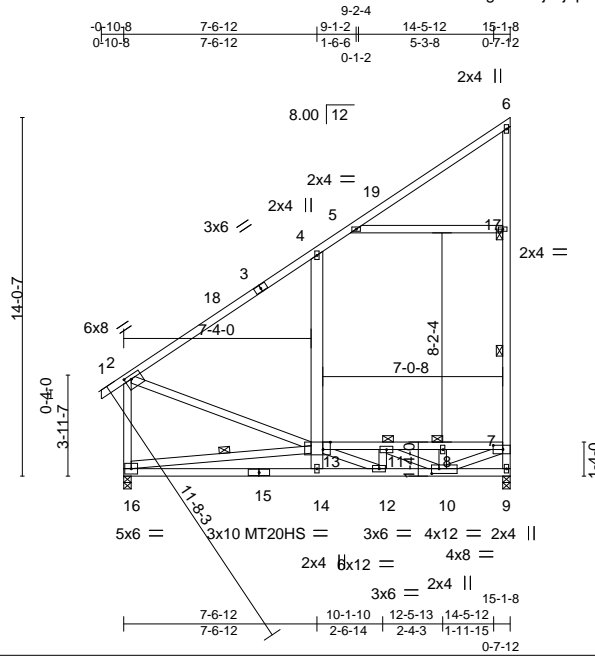


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [7:0-4-8,0-2-0], [10:0-3-8,0-2-4], [13:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.18	14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.40	14-16	>440	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.93	Horz(CT) 0.06	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.23	14	>783	240		
							Weight: 150 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 4-14: 2x6 SP No.2, 5-17,6-9: 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 2-2-0 oc bracing.
 WEBS 1 Row at midpt 7-17, 13-16
 JOINTS 1 Brace at Jt(s): 17, 8, 11

REACTIONS.

(size) 16=0-3-8, 9=0-3-8
 Max Horz 16=361(LC 12)
 Max Uplift 9=85(LC 12)
 Max Grav 16=798(LC 20), 9=1337(LC 20)

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

TOP CHORD 2-16=-371/0, 2-4=-383/185
 BOT CHORD 14-16=-839/3323, 12-14=-961/3750, 10-12=-505/3023, 9-10=-277/63, 11-13=-2960/490,
 8-11=-1691/118, 7-8=-1691/118
 WEBS 4-13=-558/324, 7-9=-1303/96, 7-17=-351/118, 8-10=-290/0, 11-12=-219/474,
 12-13=-1063/500, 7-10=-212/2201, 10-11=-1389/407, 13-16=-3134/432, 2-13=-347/427

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-6 to 3-11-4, Interior(1) 3-11-4 to 14-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 5-17; Wall dead load (5.0psf) on member(s).4-13, 7-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-13, 8-11, 7-8
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
- Attic room checked for L/360 deflection.



February 2,2021

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

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

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



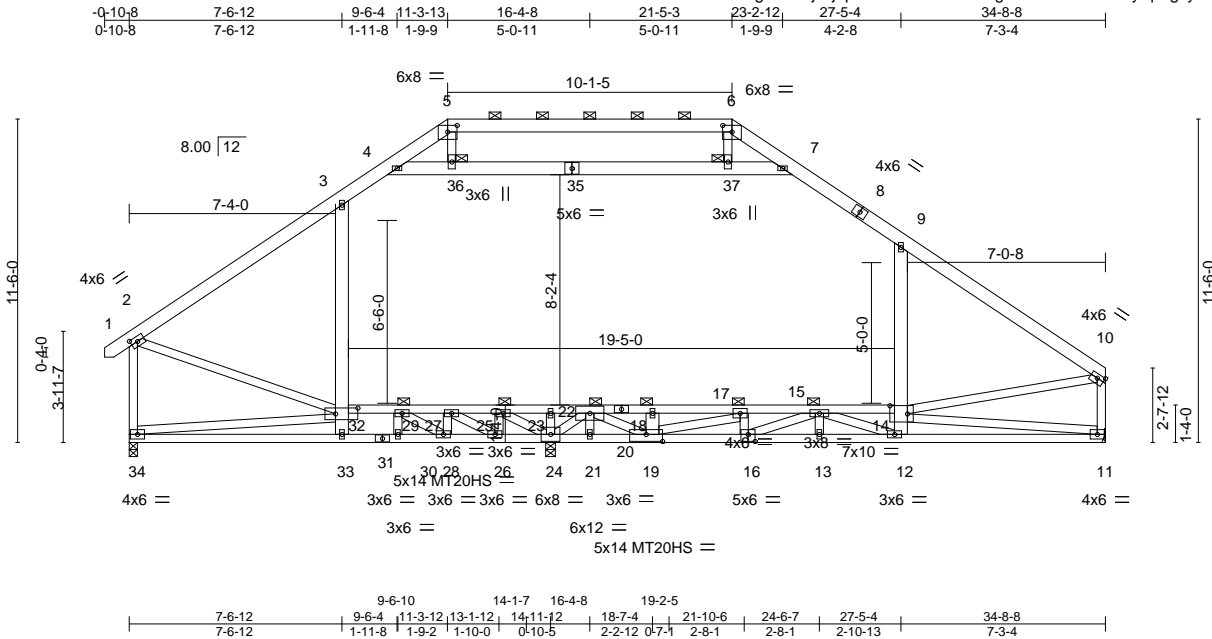
818 Soundside Road
 Edenton, NC 27932

Job AC1129	Truss A06AGR	Truss Type ATTIC	Qty 99	Ply 2	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632123
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:42 2021 Page 1

ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-QbiA4RQKbBZuCGhkcMN5WcOWQyIqWgxy9NQLW2zpdTt



Scale = 1:81.9

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [5:0-4-0,0-2-13], [6:0-4-0,0-2-13], [10:Edge,0-1-12], [14:0-7-8,0-3-8], [16:0-3-0,0-3-0], [19:0-7-0,0-3-0], [32:0-9-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.25	13	>942	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.92	Vert(CT) -0.40	13	>586	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.86	Horz(CT) -0.03	24	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.13	12-13	>999	240		
							Weight: 666 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	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.): 5-6.
BOT CHORD 2x4 SP No.2 *Except* 14-20,20-32: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 7-35,3-33,9-12,18-19,4-35: 2x6 SP No.2 2-34,10-11,19-22: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 22, 17, 15, 36, 37, 29, 25, 18

REACTIONS. (size) 11=Mechanical, 34=0-3-8, 24=0-4-2
 Max Horz 34=-329(LC 6)
 Max Uplift 11=-27(LC 9)
 Max Grav 11=1871(LC 2), 34=1316(LC 1), 24=4473(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1503/67, 3-4=-1307/131, 4-5=-792/323, 6-7=-753/293, 7-9=-1384/108,
 9-10=-1710/0, 2-34=-1391/40, 10-11=-1350/5, 5-6=-602/294
BOT CHORD 33-34=-2496/922, 30-33=-2899/1026, 28-30=-2899/1026, 26-28=-3401/569,
 24-26=-4164/330, 21-24=-793/0, 19-21=-793/0, 16-19=-195/6001, 13-16=-286/5367,
 12-13=-286/5367, 11-12=-429/3664, 29-32=-816/3916, 27-29=-359/4406,
 25-27=-174/5163, 23-25=0/6189, 22-23=0/6189, 18-22=-4558/694, 17-18=-4590/680,
 15-17=-4919/400, 14-15=-3102/700
WEBS 4-36=-1044/102, 36-37=-1029/103, 7-37=-1032/94, 32-33=-18/288, 3-32=-272/255,
 12-14=-29/605, 9-14=-204/338, 16-17=-260/168, 17-19=-710/15, 15-16=-365/936,
 12-15=-1698/195, 32-34=-612/2361, 2-32=-95/1212, 11-14=-3568/398, 10-14=-371/1170,
 23-24=-381/0, 27-28=-102/583, 25-26=-2/528, 28-29=-1264/381, 26-27=-1158/13,
 24-25=-1270/0, 22-24=-5438/215, 18-19=-258/0, 19-22=-296/6927

- NOTES-**
- 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: 2x4 - 2 rows staggered at 0-3-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.

Continued on page 2
 This design has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



Job AC1129	Truss A06AGR	Truss Type ATTIC	Qty 99	Ply 2	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632123 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:42 2021 Page 2
ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-QbiA4RQKbBZuCghkcMN5WcOWQylqWgxy9NQLW2zpDTt

- NOTES-**
- 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) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-9, 4-36, 36-37, 7-37; Wall dead load (5.0psf) on member(s).3-32, 9-14
 - 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 29-32, 27-29, 25-27, 23-25, 22-23, 18-22, 17-18, 15-17, 14-15
 - 12) Refer to girder(s) for truss to truss connections.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
 - 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) 2979 lb down and 304 lb up at 18-7-4 on bottom 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: 11-34=-20, 1-2=-60, 2-3=-60, 3-4=-70, 4-5=-60, 6-7=-60, 7-9=-70, 9-10=-60, 4-7=-10, 14-32=-30, 5-6=-60
 - Drag: 3-32=-10, 9-14=-10
 - Concentrated Loads (lb)
 - Vert: 19=-1583(F)

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

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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



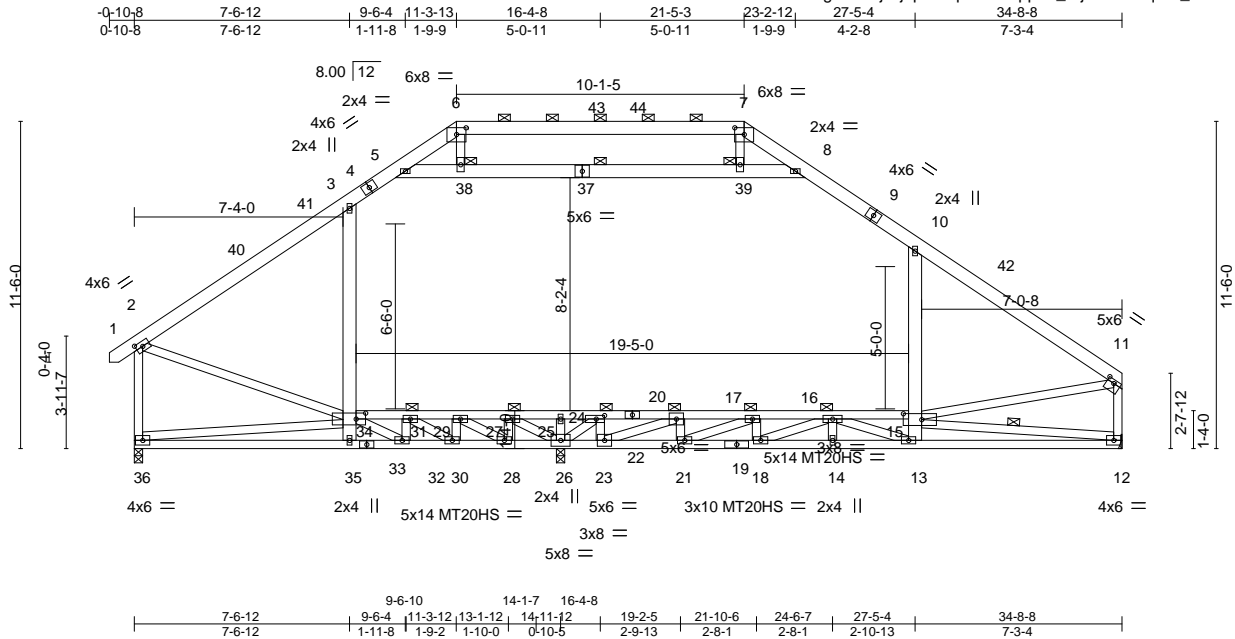
818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss A07A	Truss Type ATTIC	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632124
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:44 2021 Page 1

ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-Mzqxv7Sb6ppcS_r6jnPzB1Uqil0z_difdhvSbxzpDTr



Scale = 1:81.0

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [6:0-4-0,0-2-13], [7:0-4-0,0-2-13], [11:0-3-0,0-1-8], [15:0-7-12,0-2-8], [24:0-3-8,0-1-8], [34:0-4-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.68	Vert(LL)	-0.24	15-16	>979	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT)	-0.43	15-16	>543	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT)	0.05	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL)	0.16	13	>999		
							Weight: 335 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 15-22,22-34: 2x4 SP No.1
 WEBS 2x4 SP No.3 *Except*
 8-37,3-35,10-13,5-37: 2x6 SP No.2, 2-36,11-12: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing.
 WEBS 1 Row at midpt 38-39, 12-15
 JOINTS 1 Brace at Jt(s): 24, 17, 20, 16, 38, 39, 31, 27

REACTIONS.

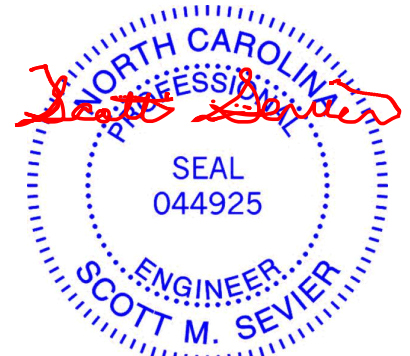
(size) 12=Mechanical, 36=0-3-8, 26=0-3-8
 Max Horz 36=329(LC 10)
 Max Grav 12=1508(LC 2), 36=1377(LC 1), 26=1937(LC 18)

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

TOP CHORD 2-3=-1385/113, 3-5=-1216/231, 5-6=-851/309, 7-8=-825/313, 8-10=-1283/217,
 10-11=-1466/42, 2-36=-1313/162, 11-12=-1153/74, 6-7=-686/303
 BOT CHORD 35-36=-776/801, 32-35=-937/873, 30-32=-813/571, 28-30=-926/241, 26-28=-1426/0,
 23-26=-1003/112, 21-23=-66/1324, 18-21=0/2477, 14-18=-22/2946, 13-14=-22/2946,
 12-13=-282/2402, 31-34=-383/1671, 29-31=-52/1768, 27-29=0/2268, 25-27=0/3204,
 24-25=0/3204, 20-24=0/1991, 17-20=-435/475, 16-17=-1635/74, 15-16=-1875/546
 WEBS 5-38=-771/85, 38-39=-758/87, 8-39=-763/78, 34-35=0/327, 3-34=-329/281,
 13-15=-17/292, 10-15=-303/304, 23-24=0/794, 20-21=0/524, 20-23=-2215/0,
 17-21=-1350/0, 16-18=-503/207, 13-16=-658/211, 34-36=-498/685, 2-34=-114/1075,
 12-15=-2329/254, 11-15=-3/1022, 29-30=-62/334, 27-28=-23/469, 32-34=-417/213,
 30-31=-536/194, 28-29=-991/70, 26-27=-1212/0, 24-26=-1741/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-9 to 4-1-1, Interior(1) 4-1-1 to 11-3-13, Exterior(2) 11-3-13 to 16-1-7, Interior(1) 16-1-7 to 21-5-3, Exterior(2) 21-5-3 to 26-2-12, Interior(1) 26-2-12 to 34-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-5, 8-10, 5-38, 38-39, 8-39; Wall dead load (5.0psf) on member(s).3-34, 10-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 31-34, 29-31, 27-29, 25-27, 24-25, 20-24, 17-20, 16-17, 15-16
- Refer to girder(s) for truss to truss connections.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



February 2, 2021

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

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

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

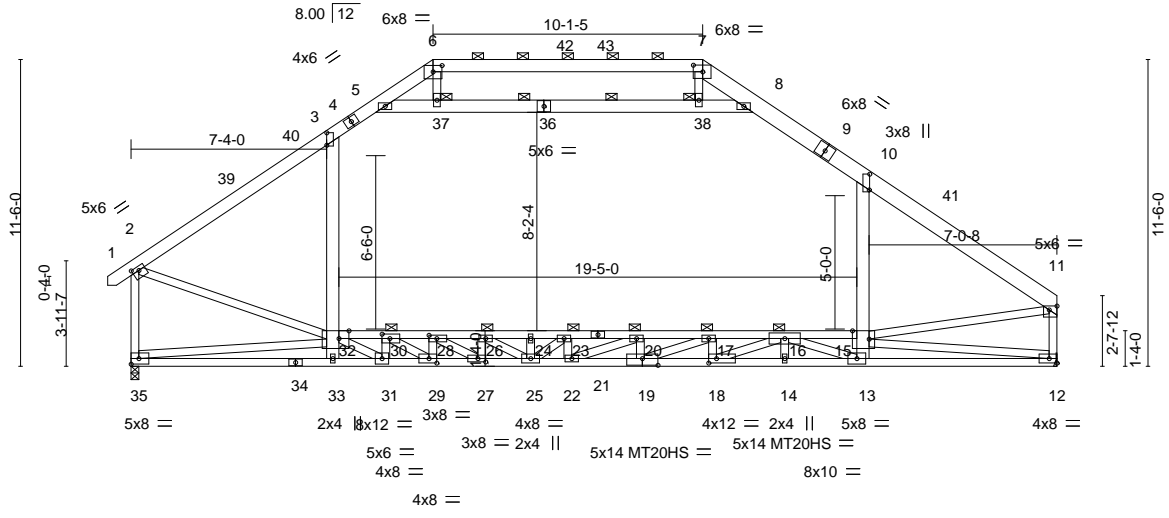
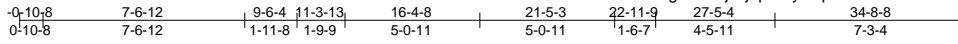
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job AC1129	Truss A08A	Truss Type ATTIC	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632125
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:46 2021 Page 1
 ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-IMyhwpTreQ3KHh?VrBR1gS27hZeiRS9X4?OZfzqzDTP



Scale = 1:86.4

Plate Offsets (X,Y)--	[2:0-3-0,0-1-12], [3:0-5-9,0-0-0], [6:0-4-0,0-2-13], [7:0-4-4,0-3-0], [10:0-7-1,0-0-4], [11:Edge,0-1-12], [15:0-7-8,Edge], [18:0-3-8,0-2-0], [19:0-7-0,0-3-0], [27:0-3-8,0-1-8], [28:0-3-8,0-1-8], [29:0-3-8,0-2-0], [30:0-3-8,0-2-0], [32:0-4-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.84	Vert(LL) -0.43	0-20-23	>967	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.99	Vert(CT) -0.73	20-23	>566	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.06	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.14	13-14	>999	240		Weight: 346 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP DSS *Except* 4-6: 2x6 SP DSS, 6-7,1-4: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x4 SP No.2 *Except* 12-19,19-34: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-36,3-33,10-13,5-36: 2x6 SP No.2, 2-35,11-12,31-32: 2x4 SP No.2	WEBS 2 Rows at 1/3 pts 37-38
	JOINTS 1 Brace at Jt(s): 23, 17, 20, 16, 37, 38, 30, 26

REACTIONS. (size) 12=Mechanical, 35=0-3-8
 Max Horz 35=330(LC 10)
 Max Grav 12=2249(LC 2), 35=2284(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2645/0, 3-5=-2048/57, 5-6=-575/540, 7-8=-611/428, 8-10=-2168/50,
 10-11=-2766/0, 2-35=-2372/0, 11-12=-2153/0, 6-7=-391/644
 BOT CHORD 33-35=-1554/500, 31-33=-1859/516, 29-31=-534/918, 27-29=-27/2241, 25-27=0/3365,
 22-25=0/4687, 19-22=0/4770, 18-19=0/3989, 14-18=-47/2612, 13-14=-47/2612,
 12-13=-622/1095, 30-32=-235/1976, 28-30=-477/903, 26-28=-1421/239, 24-26=-2310/0,
 23-24=-2310/0, 20-23=-2743/0, 17-20=-2808/0, 16-17=-2045/0, 15-16=-263/2589
 WEBS 5-37=-2588/0, 37-38=-2588/0, 8-38=-2613/0, 32-33=0/374, 3-32=0/1045, 13-15=0/1192,
 10-15=0/1081, 17-18=-596/0, 19-20=-267/31, 20-22=-296/208, 17-19=-4/821,
 16-18=0/1882, 13-16=-2879/0, 7-38=0/260, 32-35=-186/1448, 2-32=0/2149,
 12-15=-1008/665, 11-15=0/2019, 30-31=-1209/0, 28-29=-912/0, 26-27=-710/0,
 31-32=0/2266, 29-30=0/1895, 27-28=0/1481, 25-26=0/1035, 23-25=-601/28

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-9 to 4-1-1, Interior(1) 4-1-1 to 11-3-13, Exterior(2) 11-3-13 to 16-1-7, Interior(1) 16-1-7 to 21-5-3, Exterior(2) 21-5-3 to 26-2-12, Interior(1) 26-2-12 to 34-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-5, 8-10, 5-37, 37-38, 8-38; Wall dead load (5.0psf) on member(s).3-32, 10-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 28-30, 26-28, 24-26, 23-24, 20-23, 17-20, 16-17, 15-16

Continued on page 2 for truss to truss connections.



Job AC1129	Truss A08A	Truss Type ATTIC	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632125 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:46 2021 Page 2
ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-IMyhwpTreQ3KhH?VrBR1gSZ7hZeiRS9X4?OZfqzDTp

NOTES-

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

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

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

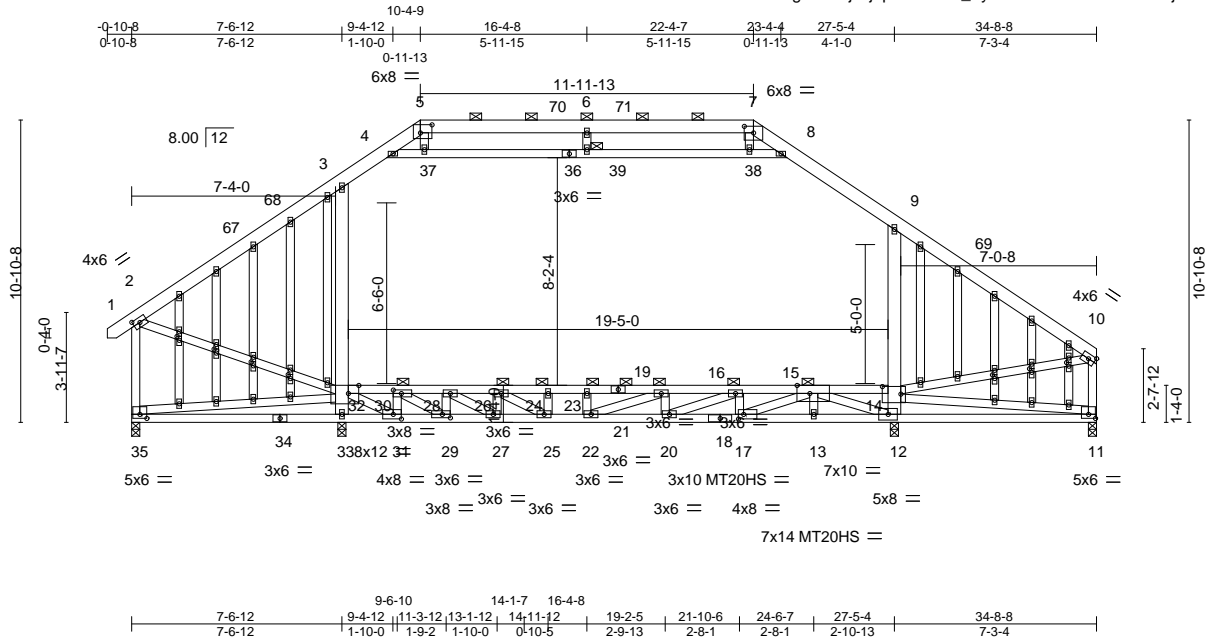


818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss A10AG	Truss Type GABLE	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632126
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:51 2021 Page 1
ID:Jnu27T8aAaS2DQsg9LB7sjzj2p-fklazWX_Tyidn2tSei1CNVG1GaMe6jFGEH6Kk1zpDTk



Scale = 1:82.9

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [5:0-5-0,0-3-8], [7:0-4-0,0-2-13], [11:0-3-0,0-1-12], [14:0-8-0,0-3-4], [15:0-5-8,Edge], [17:0-2-4,0-2-0], [29:0-3-8,0-1-8], [30:0-3-8,0-1-8], [31:0-3-8,0-2-0], [32:0-4-8,Edge], [35:0-3-0,0-1-12], [42:0-1-11,0-1-0], [45:0-1-11,0-1-0], [48:0-1-11,0-1-0], [51:0-1-11,0-1-0], [60:0-1-9,0-1-0], [63:0-1-9,0-1-0], [66:0-1-9,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.31	19-23	>762	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.49	19-23	>488	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.02	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) -0.01	25	>999	240		
							Weight: 385 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
18-34: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
8-36,2-35,10-11,4-36: 2x4 SP No.2, 3-33,9-12: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-8 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
2-8-0 oc bracing: 19-23
2-11-0 oc bracing: 16-19
3-1-0 oc bracing: 23-26
3-8-0 oc bracing: 15-16
3-10-0 oc bracing: 26-30
10-0-0 oc bracing: 30-32, 14-15
JOINTS
1 Brace at Jt(s): 23, 16, 19, 15, 30, 26, 39

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 35--314(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 35--217(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 11=819(LC 25), 35=1022(LC 1), 33=1700(LC 20), 12=1833(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3--1064/266, 3-4--1009/237, 4-5--1351/410, 7-8--1326/399, 8-9--1089/218, 9-10--1059/165, 2-35--1040/174, 10-11--841/79, 5-6--1231/395, 6-7--1231/395
BOT CHORD 33-35--1885/0, 31-33--1860/0, 27-29=0/1479, 25-27=0/2608, 22-25=0/3600, 20-22=0/3712, 17-20=0/2701, 13-17=0/815, 12-13=0/815, 11-12--1825/0, 30-32=0/740, 28-30--1010/81, 26-28--2140/0, 24-26--3131/0, 23-24--3131/0, 19-23--3131/0, 16-19--3243/0, 15-16--2233/0, 14-15=0/2499
WEBS 4-37--285/459, 37-39--288/498, 38-39--288/498, 8-38--284/463, 32-33--1453/12, 3-32--472/277, 12-14--739/240, 9-14--546/312, 16-17--662/0, 19-20--309/0, 16-20=0/1085, 15-17=0/2025, 12-15--3023/0, 5-37--31/251, 32-35=0/1912, 2-32--253/815, 11-14=0/1855, 10-14--159/768, 24-25--325/0, 30-31--1156/0, 28-29--837/0, 26-27--701/0, 31-32=0/2072, 29-30=0/1807, 27-28=0/1299, 25-26=0/1141

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-9 to 4-1-1, Interior(1) 4-1-1 to 10-4-9, Exterior(2) 10-4-9 to 15-2-3, Interior(1) 15-2-3 to 22-4-7, Exterior(2) 22-4-7 to 27-5-4, Interior(1) 27-5-4 to 34-6-12 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - Minimum 20 plates unless otherwise indicated.



February 2, 2021

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

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

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

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



818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss A10AG	Truss Type GABLE	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632126 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:51 2021 Page 2
ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-fKlazWX_Tyidn2tSei1CNVG1GaMe6jFGEH6KK1zpDTK

- NOTES-**
- 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 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) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-37, 37-39, 38-39, 8-38; Wall dead load (5.0psf) on member(s).3-32, 9-14
 - 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 28-30, 26-28, 24-26, 23-24, 19-23, 16-19, 15-16, 14-15
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 35=217.
 - 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.

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

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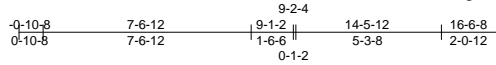
818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss A11A	Truss Type MONO TRUSS	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632127
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:52 2021 Page 1

ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-7WJyAsYcEGqTPCSfBSYRwjp8X_hUrBCQsXrttTzpDTj



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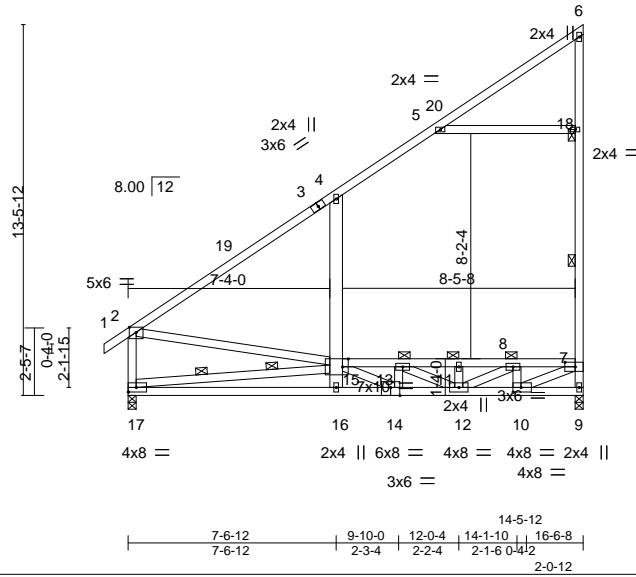


Plate Offsets (X,Y)-- [7:0-4-8,0-2-0], [10:0-3-8,0-2-0], [14:0-4-0,Edge], [15:0-2-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.88	Vert(LL) -0.23	16	>854	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.49	16-17	>401	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.94	Horz(CT) 0.06	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.23	16	>840	240		
							Weight: 151 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 14-17: 2x4 SP No.1
 WEBS 2x4 SP No.3 *Except*
 4-16: 2x6 SP No.2, 5-18: 2x4 SP No.2, 6-9: 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 7-18
 2 Rows at 1/3 pts 15-17
 JOINTS 1 Brace at Jt(s): 18, 11, 8, 13

REACTIONS.

(size) 9=0-3-8, 17=0-3-8
 Max Horz 17=449(LC 12)
 Max Uplift 9=62(LC 12)
 Max Grav 9=1455(LC 20), 17=921(LC 20)

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

TOP CHORD 2-4=-465/131, 4-5=-266/6, 5-6=-160/256
 BOT CHORD 2-17=-392/0, 16-17=-734/3698, 14-16=-846/4245, 12-14=-462/3818, 10-12=0/1566,
 9-10=-434/119, 13-15=-3785/489, 11-13=-2813/97, 8-11=-2813/97, 7-8=-1458/0
 WEBS 4-15=-542/333, 7-9=-1423/75, 7-18=-406/150, 6-18=-294/166, 15-17=-3464/243,
 2-15=-295/439, 8-10=-880/50, 13-14=-221/394, 14-15=-657/378, 12-13=-994/368,
 8-12=-213/1510, 7-10=-63/2202

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) -0-10-6 to 3-11-4, Interior(1) 3-11-4 to 16-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-18; Wall dead load (5.0psf) on member(s).4-15, 7-18
- 5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15, 11-13, 8-11, 7-8
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
- 7) Attic room checked for L/360 deflection.



February 2, 2021

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

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

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

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

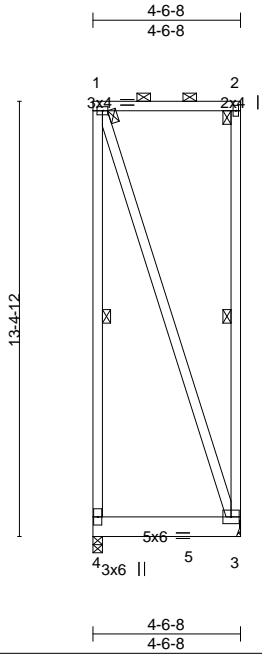


818 Soundside Road
 Edenton, NC 27932

Job AC1129	Truss A13GR	Truss Type FLAT	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632129
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:21:54 2021 Page 1
ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-4vRjbYasmt4BfWc1Jtav?8ubanVmJJPjwFK_xMzpDTh



Scale = 1:70.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.03 3-4 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.06 3-4 >918 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 3-4 >999 240	Weight: 77 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-14 oc bracing.
WEBS 1 Row at midpt 1-4, 2-3

REACTIONS.

(size) 4=0-3-8, 3=Mechanical
Max Uplift 4=-304(LC 4), 3=-304(LC 4)
Max Grav 4=1583(LC 1), 3=1583(LC 1)

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

NOTES-

- 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 ; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=304, 3=304.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-685(F=-665), 1-2=-60



February 2, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



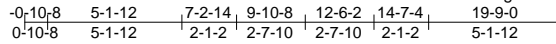
818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss B03	Truss Type ATTIC	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632132
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:00 2021 Page 1

ID:Jnu27T8aAaS2DQsg9LB7sjzj2p-u2o_sbedljqLNR3Bf8hJEP8YWCvqjtwbIBnI90zpDTb



4x6 =

Scale = 1:88.3

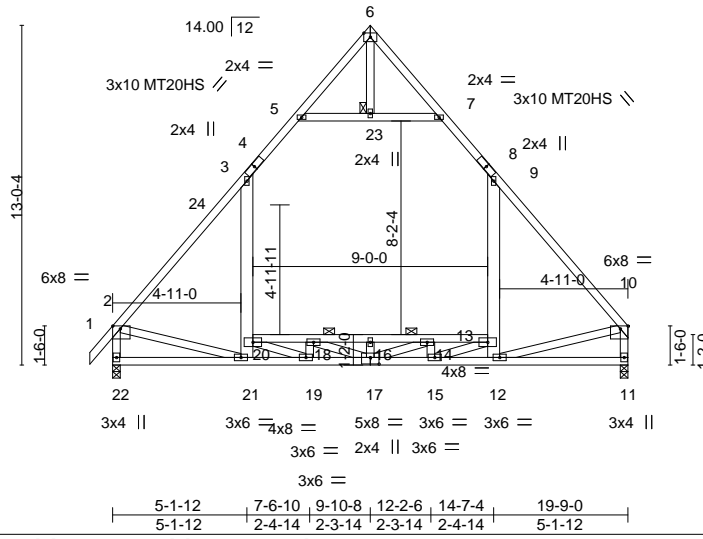


Plate Offsets (X,Y)--	[2:Edge,0-1-5], [6:Edge,0-1-14], [10:Edge,0-1-5], [17:0-4-0-0-3-0]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.20	16	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.40	16	>587	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.03	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.20	12	>999		
						Weight: 169 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-3-4 oc bracing. Except: 4-0-0 oc bracing: 13-20
WEBS 2x4 SP No.3 *Except* 5-7,2-22,10-11: 2x4 SP No.2, 3-21,9-12: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 23
REACTIONS. (size) 22=0-3-8, 11=0-3-8 Max Horz 22=366(LC 9) Max Grav 22=1307(LC 21), 11=1266(LC 20)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1298/0, 3-5=-676/123, 7-9=-681/128, 9-10=-1288/0, 2-22=-1258/14, 10-11=-1218/0
BOT CHORD 21-22=-372/534, 19-21=-371/1404, 17-19=0/2347, 15-17=0/2134, 12-15=-141/1196, 18-20=-1593/29, 16-18=-1933/0, 14-16=-1933/0, 13-14=-1642/49
WEBS 5-23=-788/195, 7-23=-788/195, 3-20=0/613, 9-13=0/592, 18-19=-433/33, 14-15=-426/36, 19-20=0/1341, 17-18=-191/588, 14-17=-209/577, 13-15=0/1330, 2-21=0/578, 10-12=0/632

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10: Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 9-10-8, Exterior(2) 9-10-8 to 14-7-4, Interior(1) 14-7-4 to 19-7-4 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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-5, 7-9, 5-23, 7-23; Wall dead load (5.0psf) on member(s).3-20, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-20, 16-18, 14-16, 13-14
 - Attic room checked for L/360 deflection.



February 2,2021

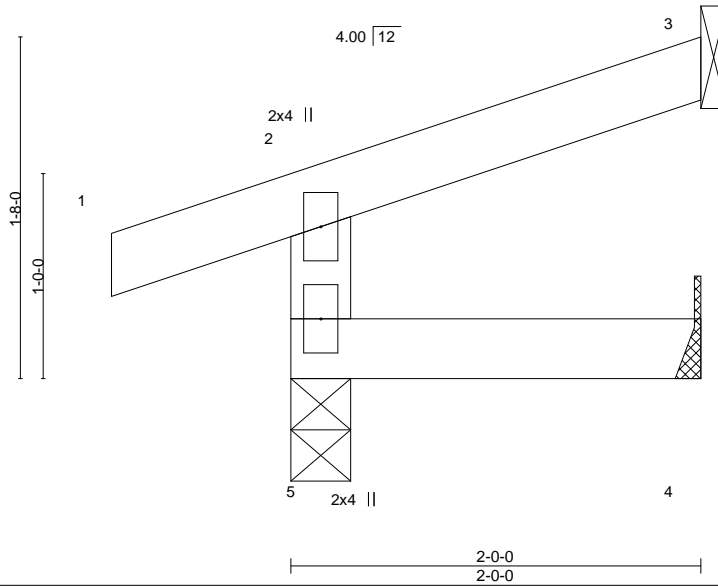
Job AC1129	Truss C01	Truss Type MONO TRUSS	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632134
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:02 2021 Page 1
ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-rRwkHHgttL43clDanZknKqD2F0L8BwNumVGPDUzpdTZ



Scale = 1:11.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R	Wind(LL)	0.00	5	>999		
								Weight: 8 lb	FT = 20%

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

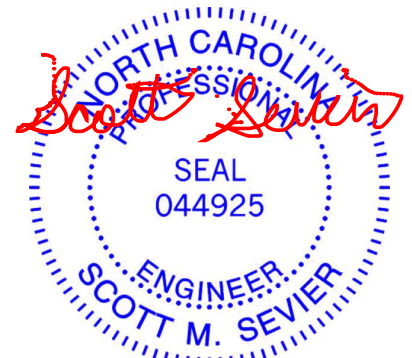
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 4=Mechanical, 3=Mechanical
Max Horz 5=39(LC 9)
Max Uplift 5=-50(LC 8), 3=-27(LC 12)
Max Grav 5=152(LC 1), 4=34(LC 3), 3=41(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) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.



February 2, 2021

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

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

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



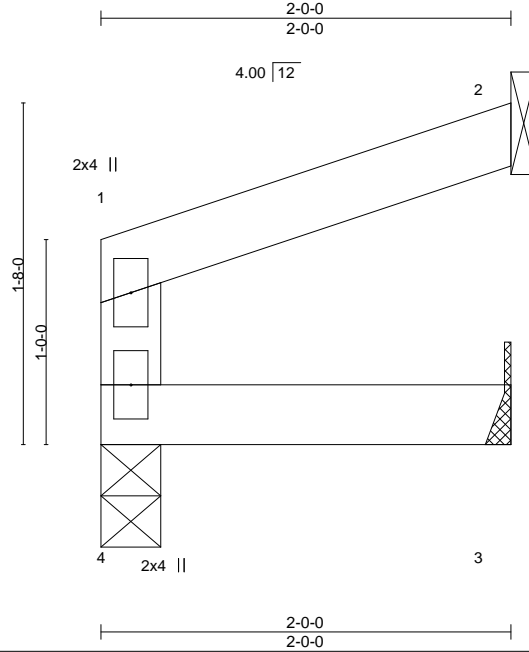
818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss C01A	Truss Type MONO TRUSS	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632135
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:03 2021 Page 1

ID: Jnu27T8aAaS2DQsg9LB7sjzzj2p-JdT6UdhWeeCwEvomLGF0s1mDAPHmWnD1_90yLzPDTY



Scale = 1:11.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	Vert(LL) -0.00	4	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT) -0.00	3-4	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	2	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Wind(LL) 0.00	3-4	>999	240		
	Code IRC2015/TP12014						Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=0-3-8, 3=Mechanical, 2=Mechanical
 Max Horz 4=32(LC 9)
 Max Uplift 4=-3(LC 8), 2=-30(LC 12)
 Max Grav 4=74(LC 1), 3=36(LC 3), 2=52(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) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



February 2, 2021

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

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

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

ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component

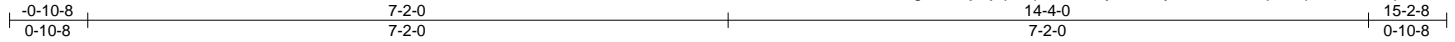


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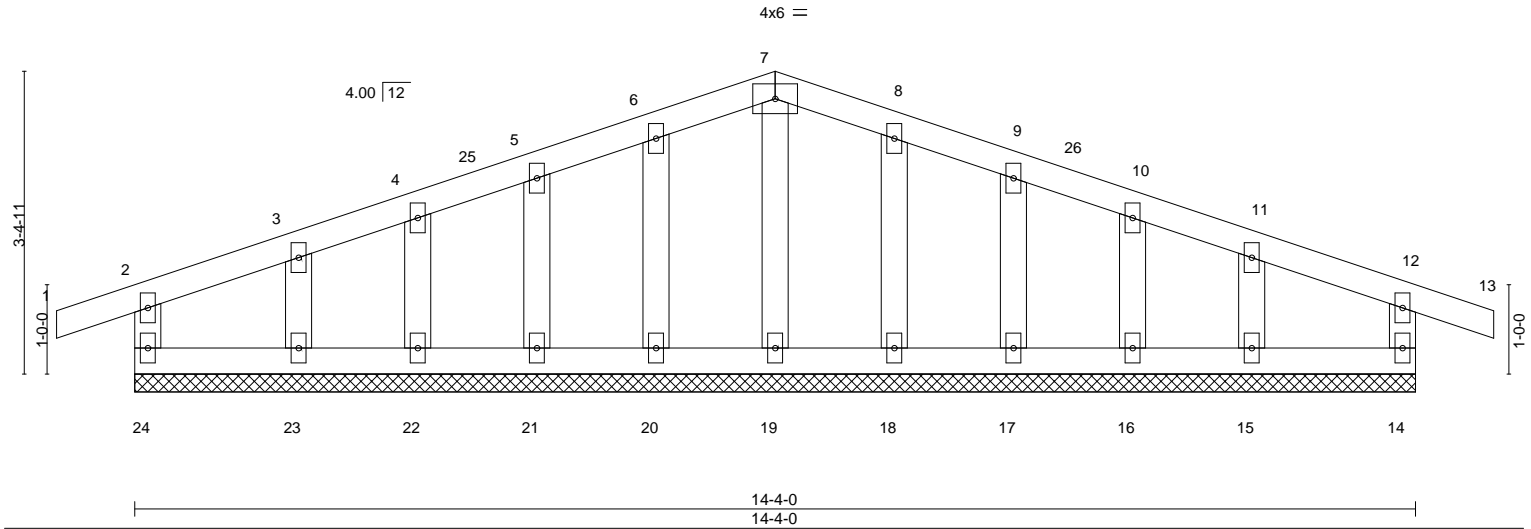
Job AC1129	Truss CP01G	Truss Type GABLE	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632136
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:04 2021 Page 1
ID:Jnu27T8aAs2DQsg9LB7sjzzj2p-nq1Vhzh8PyLmr2NyuzmFPFJO9p0_fqYBDolWInzpDTX



Scale = 1:25.8



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 0.07	Vert(LL)	-0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R					Weight: 73 lb	FT = 20%

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

REACTIONS. All bearings 14-4-0.
 (lb) - Max Horz 24=33(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15
 Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 3-11-2, Interior(1) 3-11-2 to 7-2-0, Exterior(2) 7-2-0 to 14-2-4, Interior(1) 14-2-4 to 15-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15.



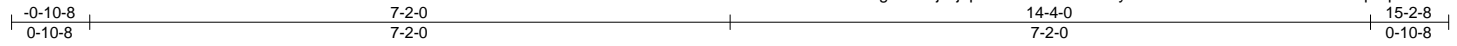
Job AC1129	Truss CP02	Truss Type QUEENPOST	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632137
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:05 2021 Page 1

ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-F0btvJimAGTdTcy9ShHUXSrMbDGMOGZKSSV3qDzpDTW

Job Reference (optional)



Scale = 1:25.8

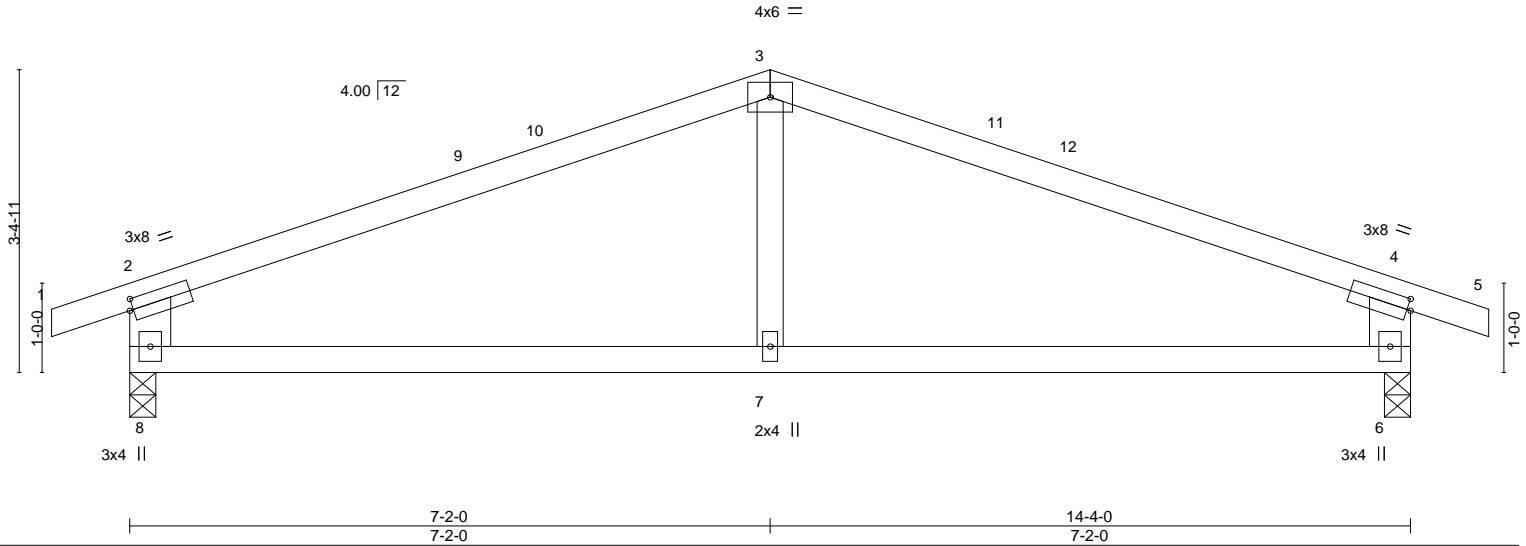


Plate Offsets (X,Y)-- [2:0-0-8,0-1-8], [4:0-0-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) -0.07	7-8	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.16	7-8	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.01	6	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Wind(LL) 0.03	7-8	>999	240			
								Weight: 54 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 3-9-12 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=33(LC 12)
 Max Uplift 8=-127(LC 8), 6=-127(LC 9)
 Max Grav 8=621(LC 1), 6=621(LC 1)

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

TOP CHORD 2-3=-757/185, 3-4=-757/185, 2-8=-537/232, 4-6=-537/232
 BOT CHORD 7-8=-102/641, 6-7=-102/641
 WEBS 3-7=0/264

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 7-2-0, Exterior(2) 7-2-0 to 14-1-4, Interior(1) 14-1-4 to 15-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=127, 6=127.



February 2, 2021

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

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



818 Soundside Road
 Edenton, NC 27932

Job AC1129	Truss CP03	Truss Type QUEENPOST	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632138
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:06 2021 Page 1
ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-jC9F6fjOxZbU5MXL0OojUgObUdYx7kbUg6EcmfzpdTV



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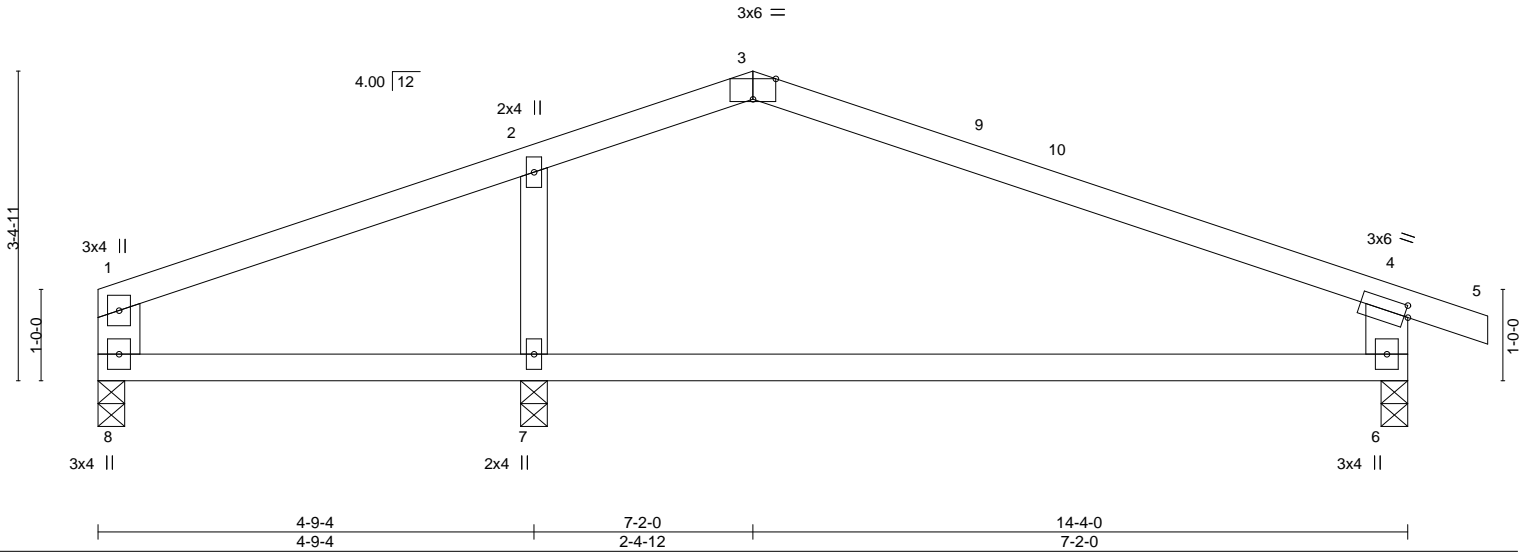


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-0-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.20	6-7	>570	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.40	6-7	>278	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Wind(LL) 0.03	6-7	>999	240		
							Weight: 51 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-7: 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) 8=0-3-8, 6=0-3-8, 7=0-3-8
Max Horz 8=-37(LC 17)
Max Uplift 8=-87(LC 9), 6=-148(LC 9), 7=-36(LC 12)
Max Grav 8=315(LC 1), 6=508(LC 1), 7=402(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-429/196, 2-3=-407/237, 3-4=-456/210, 1-8=-273/143, 4-6=-422/234
BOT CHORD 7-8=-92/361, 6-7=-92/361

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 4-9-4, Interior(1) 4-9-4 to 7-2-0, Exterior(2) 7-2-0 to 14-1-4, Interior(1) 14-1-4 to 15-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 7 except (jt=lb) 6=148.



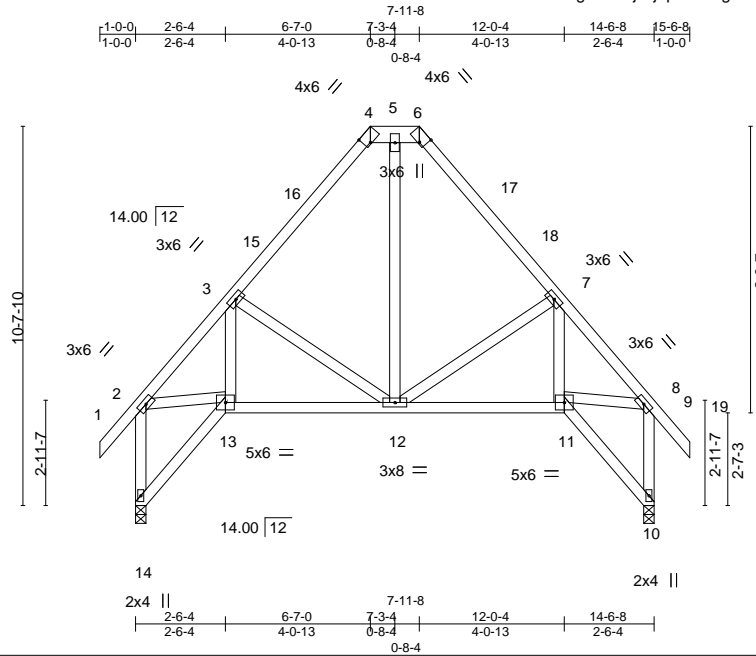
February 2, 2021

Job AC1129	Truss E02	Truss Type SPECIAL	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632140
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:09 2021 Page 1

ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-7nrNlglGEUz3yqFwhXMQ6i0D_qhWK2fwN4THz_zpDTS



Scale: 3/16"=1'

Plate Offsets (X,Y)-- [4:0-1-15,Edge], [6:0-1-15,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	-0.02 12-13	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	-0.04 12-13	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.22	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.01 13	>999	240		
	Code IRC2015/TPI2014						Weight: 115 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-6: 2x6 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.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 14=0-3-8, 10=0-3-8
Max Horz 14=-338(LC 10)
Max Uplift 14=-58(LC 13), 10=-58(LC 12)
Max Grav 14=639(LC 1), 10=639(LC 1)

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

TOP CHORD 2-14=-744/224, 2-3=-814/245, 3-4=-509/208, 4-5=-381/210, 5-6=-381/210,
6-7=-511/218, 7-8=-650/184, 8-10=-614/215
BOT CHORD 13-14=-496/467, 12-13=-348/666, 11-12=-44/487
WEBS 2-13=-83/462, 8-11=-23/450, 5-12=-157/487, 3-13=-292/378, 3-12=-383/281,
7-12=-293/193

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 3-9-10, Interior(1) 3-9-10 to 6-7-0, Exterior(2) 6-7-0 to 14-8-15, Interior(1) 14-8-15 to 15-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 2, 2021

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

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



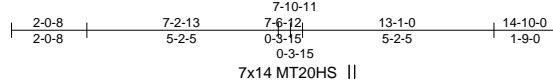
818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss E03GR	Truss Type CAL. POLYNESIAN	Qty 99	Ply 3	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632141
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:10 2021 Page 1

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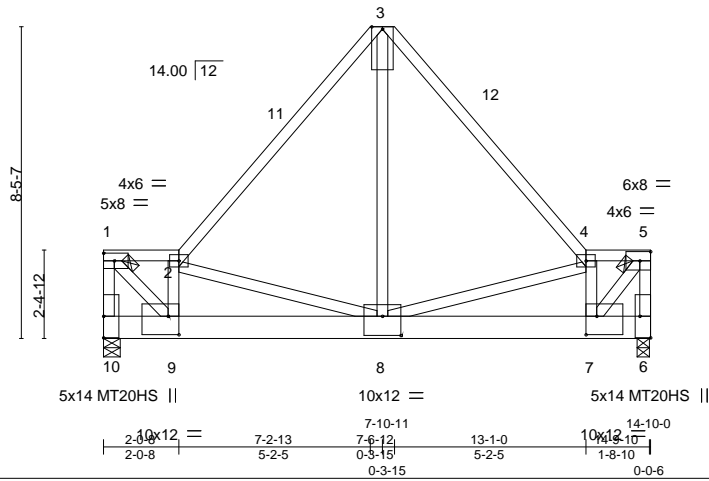


Plate Offsets (X,Y)-- [6:Edge,0-3-8], [7:0-3-8,0-6-0], [8:0-6-0,0-6-4], [9:0-3-8,0-6-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.95	Vert(LL) -0.07	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.15	8-9	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.85	Horz(CT) 0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.07	8-9	>999	240		
							Weight: 359 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 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 (6-0-0 max.): 1-2, 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 10=0-5-7, 6=0-4-0
Max Horz 10=-234(LC 6)
Max Uplift 10=-1970(LC 8), 6=-1609(LC 9)
Max Grav 10=11831(LC 15), 6=9787(LC 15)

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

TOP CHORD 1-10=-8748/1445, 1-2=-7978/1333, 2-3=-7323/1303, 3-4=-7404/1303, 4-5=-6906/1156, 5-6=-9129/1493
BOT CHORD 9-10=-236/334, 8-9=-1475/8435, 7-8=-1237/7267
WEBS 1-9=-1959/11643, 2-9=-4302/799, 4-7=-4652/866, 5-7=-1891/11203, 3-8=-1743/10541, 2-8=-3708/742, 4-8=-2476/562

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=1970, 6=1609.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2118 lb down and 359 lb up at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



February 2, 2021

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

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818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss E03GR	Truss Type CAL. POLYNESIAN	Qty 99	Ply 3	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632141 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:10 2021 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 6-10=-1145(F=-1125)
Concentrated Loads (lb)
Vert: 10=-1871(F)

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

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



818 Soundside Road
Edenton, NC 27932

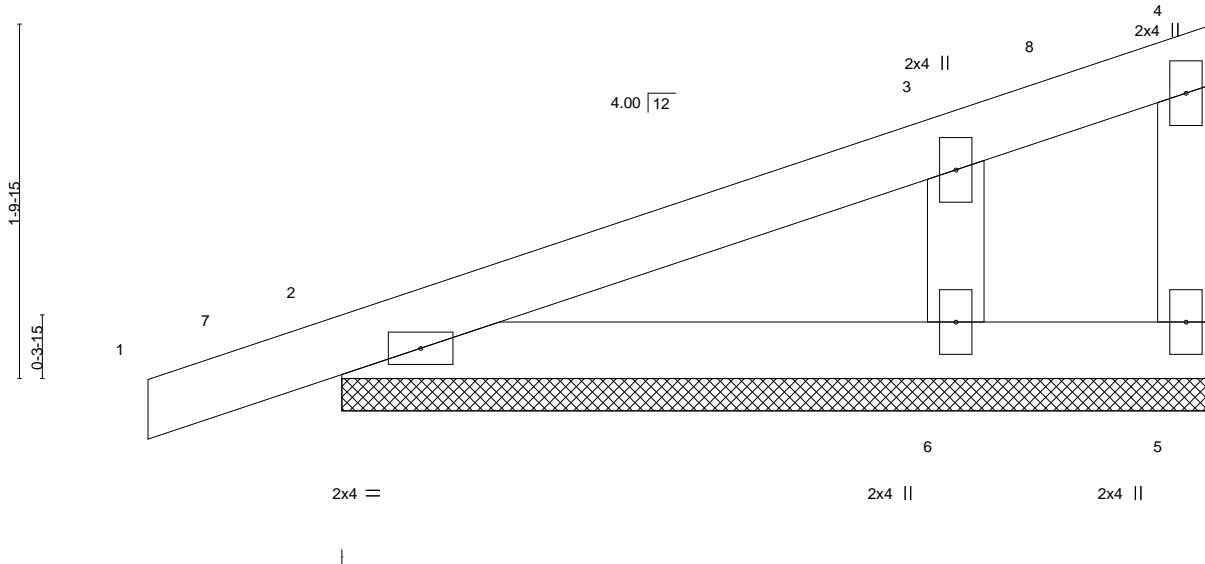
Job AC1129	Truss P01G	Truss Type GABLE	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632142
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:11 2021 Page 1
ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-4Ay89MnXi6DnB7PipyOuBj5apeOno_PDqOyN2tzpDTQ



Scale: 1"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) 0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 19 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 4-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-6-0, 5=4-6-0, 6=4-6-0
Max Horz 2=70(LC 9)
Max Uplift 2=61(LC 8), 5=12(LC 11), 6=56(LC 12)
Max Grav 2=176(LC 1), 5=5(LC 12), 6=240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=174/261

- 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 Corner(3) -1-0-0 to 3-9-10, Exterior(2) 3-9-10 to 4-4-4 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 6.



February 2, 2021

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Edenton, NC 27932

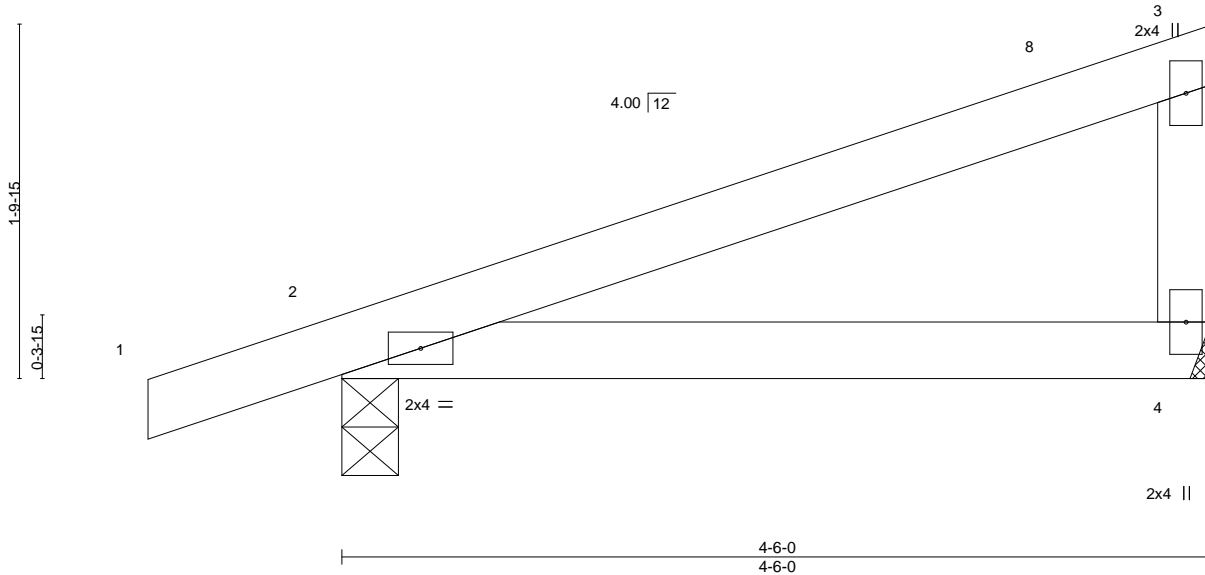
Job AC1129	Truss P02	Truss Type MONO TRUSS	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632143
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:12 2021 Page 1
ID: Jnu27T8aAaS2DQsg9LB7sjzzj2p-YMWWNin9WPLepH_VMfv7kxejL2iwXSsM32hxaJzpDTP



Scale: 1"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) -0.02 4-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.04 4-7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 2 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 4-7 >999 240	Weight: 17 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 4-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=Mechanical
Max Horz 2=70(LC 11)
Max Uplift 2=-74(LC 8), 4=-36(LC 12)
Max Grav 2=241(LC 1), 4=167(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) -1-0-0 to 3-9-10, Interior(1) 3-9-10 to 4-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



February 2, 2021

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



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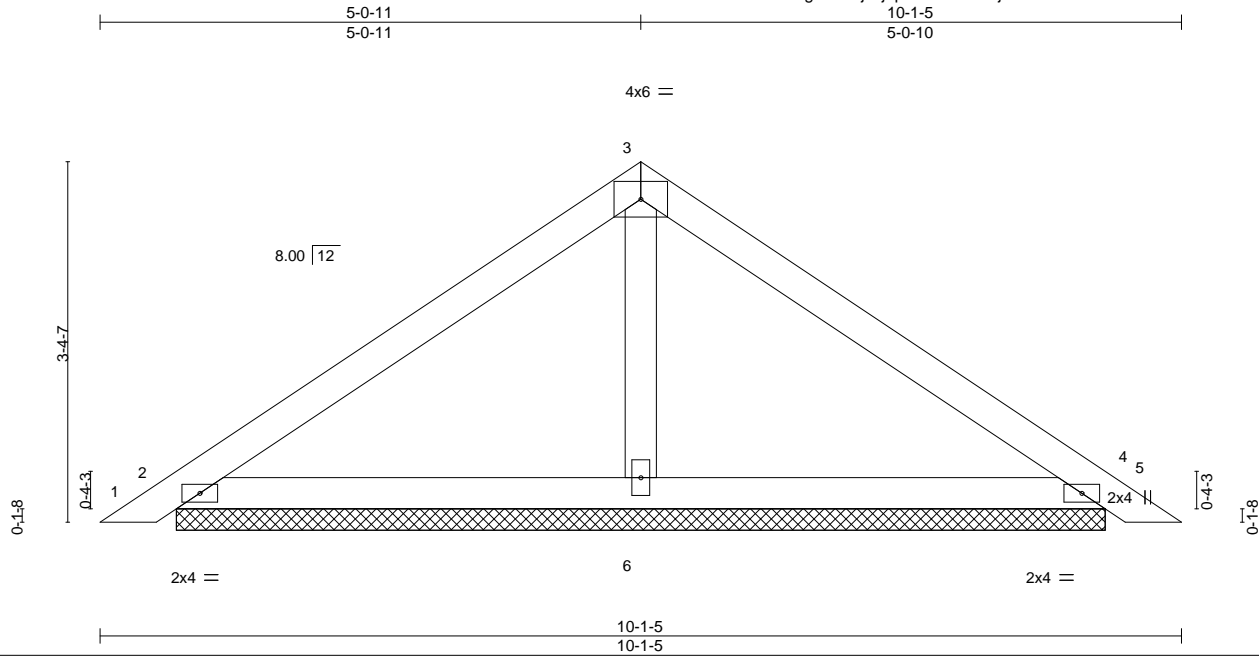
Job AC1129	Truss PB01	Truss Type GABLE	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632144
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:13 2021 Page 1

ID:Jnu27T8aAas2DQsg9LB7sjzj2p-0Y4ua2onHjTVQRZhwMQMG8BtVR2DGvHWHIRU6izpD10

Job Reference (optional)



Scale = 1:21.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) 0.01 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) 0.01 5 n/r 120		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 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) 2=8-8-3, 4=8-8-3, 6=8-8-3
 Max Horz 2=-80(LC 10)
 Max Uplift 2=-43(LC 12), 4=-54(LC 13), 6=-13(LC 12)
 Max Grav 2=198(LC 1), 4=198(LC 1), 6=352(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 2, 2021

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



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Job AC1129	Truss PB02	Truss Type GABLE	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632145
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

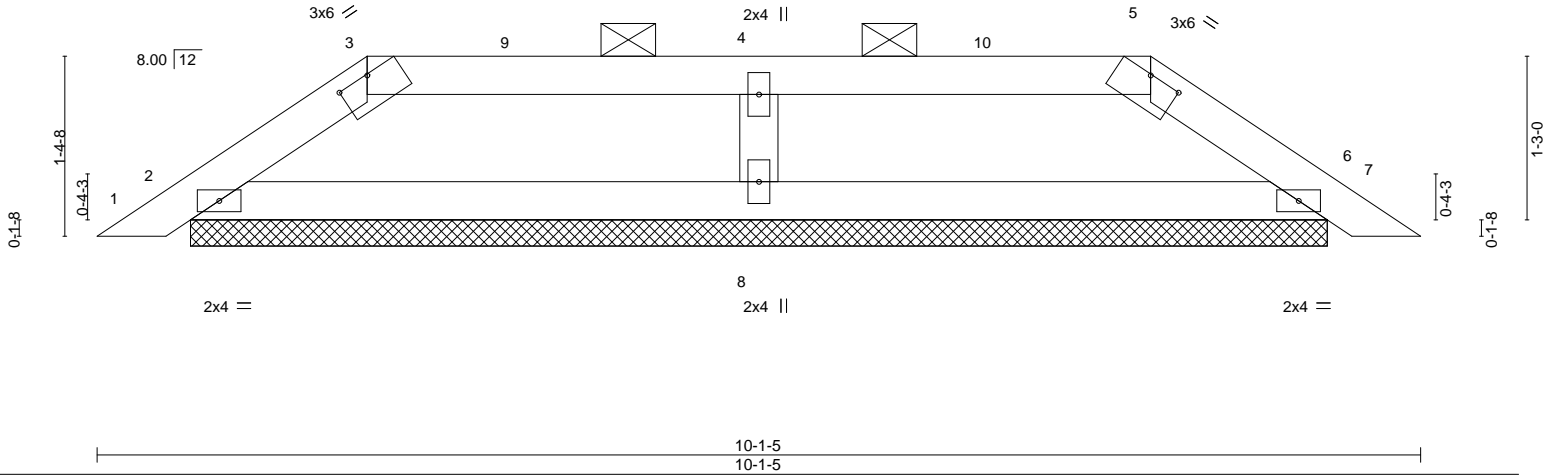
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:14 2021 Page 1

ID:Jnu27T8aAaS2DQsg9LB7sjzzj2p-UleGoOpP21bM2b8tU4xbpMj4BrOZ?MMfWMA1eCzpDTN

Job Reference (optional)

2-0-12 5-0-11 8-0-9 10-1-5
2-0-12 2-11-15 2-11-14 2-0-12

Scale = 1:17.6



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.16	Vert(LL)	in	(loc)	l/defl	L/d	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	0.00	7	n/r	120	Weight: 30 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S									

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
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. (size) 2=8-8-3, 6=8-8-3, 8=8-8-3
Max Horz 2=31(LC 10)
Max Uplift 2=34(LC 12), 6=34(LC 13), 8=40(LC 9)
Max Grav 2=214(LC 1), 6=214(LC 1), 8=321(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 Corner(3) 0-3-2 to 6-10-6, Exterior(2) 6-10-6 to 8-0-9, Corner(3) 8-0-9 to 9-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 8.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 2, 2021

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

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

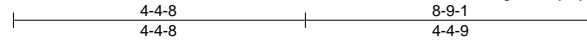


818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss V01	Truss Type VALLEY	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632146
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:15 2021 Page 1
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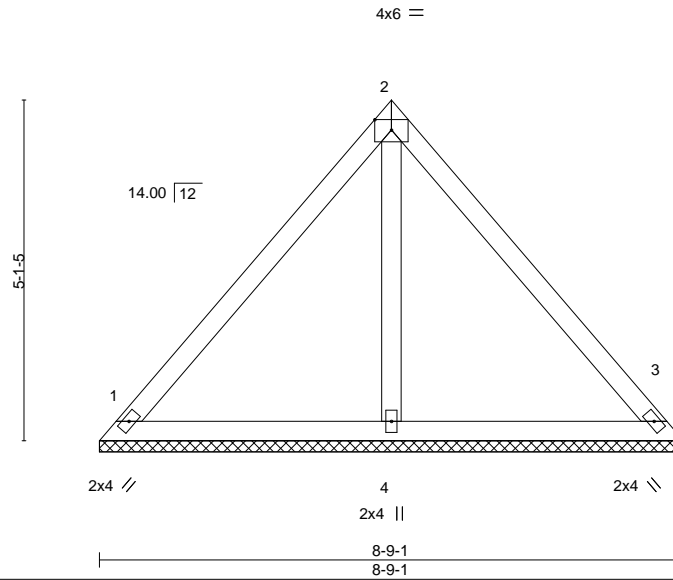


Plate Offsets (X,Y)-- [2:Edge,0-1-14]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	Vert(LL)	n/a	-	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.29	Vert(CT)	n/a	-	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 38 lb	FT = 20%
	Code IRC2015/TPI2014							

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=8-9-1, 3=8-9-1, 4=8-9-1
Max Horz 1=125(LC 10)
Max Uplift 1=43(LC 13), 3=31(LC 12), 4=6(LC 12)
Max Grav 1=188(LC 1), 3=188(LC 1), 4=273(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



February 2, 2021

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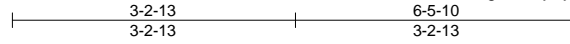


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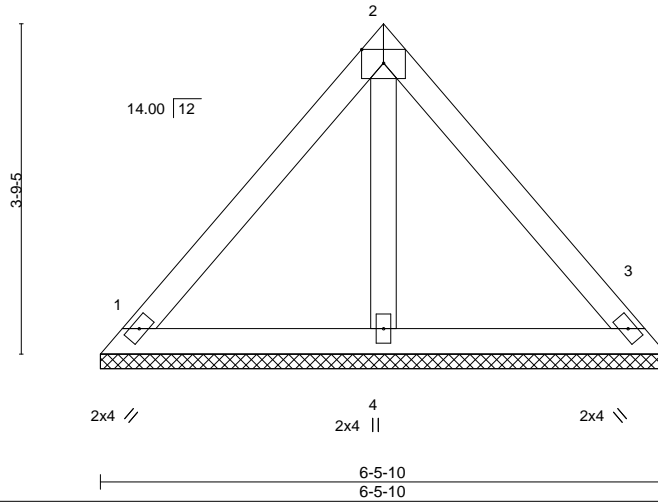
Job AC1129	Truss V02	Truss Type VALLEY	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632147
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Feb 2 09:22:16 2021 Page 1
ID:Jnu27T8aAaS2DQsg9LB7sjzj2p-Q7m1D3rfaer4HuiGbV_3unpNmif5rTGPY_gf8j4zpDTL



Scale = 1:26.3



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.35	in	(loc)	l/defl	L/d	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(LL)	n/a	-	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Vert(CT)	n/a	-	n/a		
BCDL	10.0	Code IRC2015/TPI2014	YES	Matrix-P		Horz(CT)	0.00	3	n/a		
										Weight: 28 lb	FT = 20%

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

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

REACTIONS. (size) 1=6-5-10, 3=6-5-10, 4=6-5-10
Max Horz 1=90(LC 8)
Max Uplift 1=42(LC 13), 3=34(LC 12)
Max Grav 1=145(LC 1), 3=145(LC 1), 4=180(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) 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) 1, 3.



February 2, 2021

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



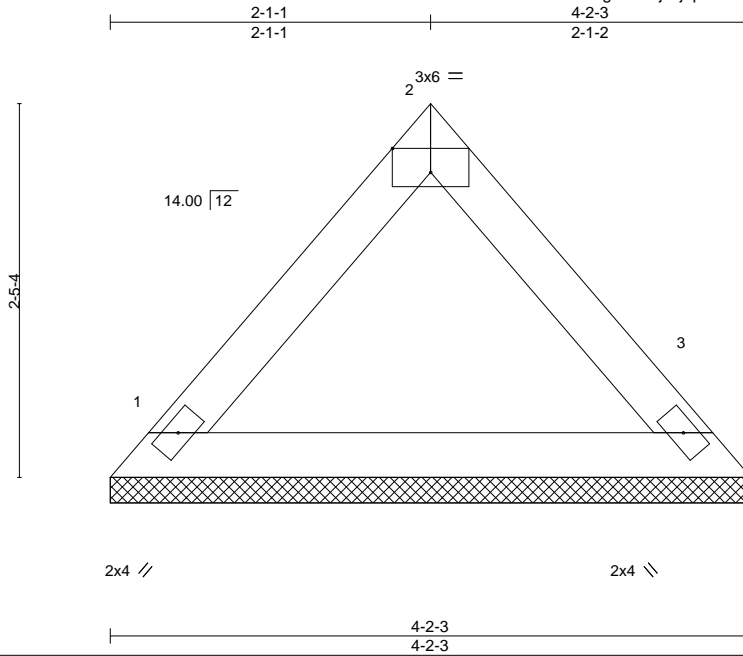
818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss V03	Truss Type VALLEY	Qty 99	Ply 1	MCKEEHOMES/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44632148
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Scale = 1:15.0

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 0.13	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.26	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: 15 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-2-3, 3=4-2-3
Max Horz 1=-54(LC 8)
Max Uplift 1=-15(LC 13), 3=-15(LC 12)
Max Grav 1=142(LC 1), 3=142(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



February 2, 2021

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



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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/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.