

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: I44626659 thru I44626680

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	Truss	Truss Type	Qty	Ply	MCKEEHOMES/FINL	EY; LOT 1129 ANDEF	RSON CREEK ACADEMY
AC1129	F01G	GABLE	99	1	Job Reference (optiona	al)	144626659
Builders FirstSource (Apex,	NC), Apex, NC - 27523,		ID:Jnu27T8aAa	8.240 s Ma S2DQsq9LB	ar 9 2020 MiTek Industri	es, Inc. Mon Feb 1 2 DUoVOHL7La5Ee8mr	0:48:16 2021 Page 1
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27 26	25 24	23 22	21	20 19	18 1	7 16	15
3x4 3x4 =				3x8 F	=P =		3x6 =
1-4-0 -4-0 Plate Offsets (X,Y) [26	2-8-0 4-0-0 1-4-0 1-4-0 :0-1-8,Edge], [27:Edge,0-1-8]	5-4-0 6-8-0 1-4-0 1-4-0	8-0-0 9-4-0 1-4-0 1-4-0	10 1-	-8-0 <u>12-0-0</u> 4-0 1-4-0	+ 13-4-0 + 1-4-0	<u>14-8-0 15-1-8</u> 1-4-0 0-5-8
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL 40.0 TCDL 10.0	Plate Grip DOL 1.00 Lumber DOL 1.00	TC 0.10 BC 0.02	Vert(LL) r Vert(CT) r	n/a - n/a -	n/a 999 n/a 999	MT20	244/190
BCDL 0.0 BCDL 5.0	Rep Stress Incr NC Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.	00 15	n/a n/a	Weight: 67 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No BOT CHORD 2x4 SP No WEBS 2x4 SP No	0.2(flat) 0.2(flat) 0.3(flat)	· · · · ·	BRACING- TOP CHORD BOT CHORD	Structur except e Rigid ce	al wood sheathing dire end verticals. illing directly applied or	ctly applied or 6-0-0 10-0-0 oc bracing.	oc purlins,

REACTIONS. All bearings 15-1-8.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 15, 27, 26, 25, 24, 23, 22, 21, 20, 18, 17, 16

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

NOTES-

OTHERS

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.







				15-1-8					
				15-1-8					
Plate Offsets (X	,Y)	[1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,	,Edge]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0		SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.47 BC 0.79 WB 0.41 Matrix-S	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0.	in (loc) 16 15-16 22 15-16 04 10	l/defl >999 >804 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 76 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) *Except* 12-18: 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)				BRACING- TOP CHORD BOT CHORD	Structu except Rigid c	ral wood end verti eiling dire	sheathing dir cals. ectly applied c	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
REACTIONS.	(size Max Gi	e) 10=0-3-8, 18=0-3-8 rav 10=812(LC 1), 18=818(LC 1)							
FORCES. (Ib) TOP CHORD BOT CHORD WEBS	- Max. 2-3=- 17-18 10-1 2-18= 8-11=	Comp./Max. Ten All forces 250 (lb) or 1668/0, 3-5=-2599/0, 5-6=-2890/0, 6-7= =0/1007, 16-17=0/2294, 15-16=0/2890 1=0/1008 1264/0, 2-17=0/859, 3-17=-815/0, 3-11 0/857, 7-11=-810/0, 7-13=0/470, 6-13=	 less except when shown. -2602/0, 7-8=-1666/0 , 14-15=0/2890, 13-14=0/2 6=0/454, 5-16=-559/0, 8-10 -569/0 	2890, 11-13=0/2288, D=-1262/0,					

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.







			14-6-8					
Plate Offsets (X,	Y) [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,	Edge]	14-6-8					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.44 BC 0.73 WB 0.38 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.14 13-14 -0.19 12-13 0.04 9	l/defl >999 >912 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 74 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD BRACING- TOP CHORD BOT CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat) BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-00 oc bracing.								
REACTIONS.	(size) 9=Mechanical, 16=Mechanical Max Grav 9=786(LC 1), 16=786(LC 1)							
FORCES. (Ib) - TOP CHORD BOT CHORD WEBS	Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-1585/0, 3-4=-2451/0, 4-5=-2661/0, 5-6= 15-16=0/968, 14-15=0/2168, 13-14=0/2661, 9-10=0/969 7-9=-1216/0, 7-10=0/800, 6-10=-754/0, 6-11= 2-15=0/803, 3-15=-759/0, 3-14=0/441, 4-14=	less except when shown. -2456/0, 6-7=-1584/0 12-13=0/2661, 11-12=0/266 =0/458, 5-11=-508/0, 2-16=- -492/0	31, 10-11=0/2163 1214/0,	3,				

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NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Refer to girder(s) for truss to truss connections.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.







			<u>13-1-0</u> 13-1-0			
Plate Offsets (X,Y)	[1:Edge,0-1-8], [5:0-1-8,Edge], [13:0-1-8	,Edge]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.60 BC 0.74 WB 0.32 Matrix-S	DEFL. in Vert(LL) -0.13 Vert(CT) -0.17 Horz(CT) 0.03	(loc) I/defi L/d 11-12 >999 480 11-12 >906 360 9 n/a n/a	PLATES MT20 Weight: 67 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	P No.2(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,
REACTIONS. (siz Max G	e) 9=Mechanical, 15=0-3-8 irav 9=706(LC 1), 15=706(LC 1)					

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

TOP CHORD 2-3=-1369/0, 3-4=-2112/0, 4-5=-2112/0, 5-6=-2055/0, 6-7=-1384/0

- BOT CHORD 14-15=0/863, 13-14=0/1876, 12-13=0/2112, 11-12=0/2112, 10-11=0/1877, 9-10=0/860 WEBS 7-9=-1079/0, 7-10=0/682, 6-10=-642/0, 6-11=0/335, 5-11=-308/94, 4-13=-316/0,
 - 2-15=-1082/0, 2-14=0/659, 3-14=-660/0, 3-13=0/579

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Refer to girder(s) for truss to truss connections.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







ŀ			13-4-8 13-4-8			
Plate Offsets (X,Y)	[1:Edge,0-1-8], [5:0-1-8,Edge], [13:0-1	-8,Edge]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.66 BC 0.80 WB 0.34 Matrix-S	DEFL.inVert(LL)-0.15Vert(CT)-0.20Horz(CT)0.03	(loc) l/defl L/d 11-12 >999 480 11-12 >799 360 9 n/a n/a	PLATES MT20 Weight: 68 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 3 BOT CHORD 2x4 3 WEBS 2x4 3	SP No.2(flat) SP No.1(flat) SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
REACTIONS. (s Max	ize) 15=0-3-8, 9=0-3-8 Grav 15=722(LC 1), 9=716(LC 1)					

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

TOP CHORD 2-3=-1406/0, 3-4=-2205/0, 4-5=-2205/0, 5-6=-2127/0, 6-7=-1426/0

 BOT CHORD
 14-15=0/883, 13-14=0/1940, 12-13=0/2205, 11-12=0/2205, 10-11=0/1947, 9-10=0/877

 WEBS
 2-15=-1108/0, 2-14=0/681, 3-14=-695/0, 3-13=0/626, 4-13=-337/0, 7-9=-1097/0,

7-10=0/714, 6-10=-678/0, 6-11=0/326, 5-11=-322/77

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type		Qty	Ply	MCKEEHOME	S/FINLEY; I	LOT 1129 ANDER	SON CREEK ACADEMY
AC1129	F07G	GABLE		99	1	Job Reference	(optional)		144626664
Builders FirstSource (Apex,	NC), Apex, NC - 27523,		ID:Jni	8. 127T8aAa	240 s Mar S2DQsg9L	9 2020 MiTek B7sjzzj2p-wTQ	Industries, I yAJOijtbXH	nc. Mon Feb 1 20 55Gd7Q3VQGwfl8	0:48:20 2021 Page 1 scRiczrnS01zpOW9
									0 ₁ 18
									Scale = 1:22.1
$1^{3x6} = 2$	3	4 5	6	7		8	9	10	11
	0	0	•	•		•	•	•	
5-0-									23 • 23

22 21	20	19 18	17	16		15	14	13	12
3x4 3x4 =									3x4 =
1-4-0	2-8-0 4-0-0	5-4-0 6	-8-0 8-0-)	9-4-0	10-8	3-0	12-0-0	13-4-8
Plate Offsets (X,Y) [21	<u>1-4-0</u> :0-1-8,Edge], [22:Edge,0-1-8	1-4-01	-4-0 1-4-0) .	1-4-0	· 1-4	-0	1-4-0	1-4-8
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl L/d		PLATES	GRIP
TCLL 40.0 TCDL 10.0	Plate Grip DOL 1.00 Lumber DOL 1.00	TC 0.10 BC 0.01	Vert(LL) Vert(CT)	n/a n/a	-	n/a 999 n/a 999		MT20	244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr NC Code IRC2015/TPI2014	WB 0.03 Matrix-S	Horz(CT	0.00	12	n/a n/a		Weight: 59 lb	FT = 20%F, 11%E
LUMBER-		I	BRACIN	G-			I		
TOP CHORD 2x4 SP No BOT CHORD 2x4 SP No	o.2(flat) o.2(flat)		TOP CH	ORD	Structura except er	l wood sheathi nd verticals.	ng directly	applied or 6-0-0	oc purlins,
WEBS 2x4 SP No OTHERS 2x4 SP No	0.3(flat) 0.3(flat)		BOT CH	ORD	Rigid ceil	ing directly app	olied or 10-	0-0 oc bracing.	

REACTIONS. All bearings 13-4-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.





Job		Truss	Truss Type		Qty	Ply	MCKEEHC	DMES/FINLEY; L	_OT 1129 ANDER	SON CREEK ACADE	٧Y
AC1120		E00C	GARLE		00	1				1446266	35
A01123		1050	GADLL		33	'	Job Refere	nce (optional)			
Builders FirstS	Source (Apex,	NC), Apex, NC - 2752	3,			8.240 s Ma	r 9 2020 Mi	Tek Industries, In	nc. Mon Feb 1 2	0:48:21 2021 Page 1	
					ID:Jnu27T8aAa	S2DQsg9LE	37sjzzj2p-Of	_KNfPKUBjOvFg	gSArxl2dp539U4l	uvICVW?YTzpOW8	
										Scale = 1:1	7.5
	246 -									3x4	
	1 3x0 -	2	3	4	5		6	7		8	
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	16	15	14	13	12		11	10		9	
	3x4	3x4 =								3x4	
										- •	
	1	4-0 2-8-0	4-0-0) 5-4	-0	6-8-0		8-0-0	9-6-8		
Plate Offsets	(X,Y) [15:	0-1-8,Edge], [16:Edge,0-1	-8]	/ 1-4	-0	1-4-0		1-4-0	1-0-0		
											—
LOADING (pr	sf)	SPACING- 2-			DEFL. i	n (loc)	l/defl L	_/d	PLATES	GRIP	
TCDI 10	0.0	Lumber DOL 1		0.12	Vert(LL) N/3	a -	n/a 9 n/a 9	99	IVI I 20	244/190	
BCLL 0	0.0	Rep Stress Incr	NO WB	0.04	Horz(CT) -0.00) 11	n/a r	n/a			
BCDL 5	5.0	Code IRC2015/TPI20	I4 Mat	rix-S	(-)				Weight: 44 lb	FT = 20%F, 11%	Ε

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TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 9-6-8 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-6-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.







					0 10 0						
					9-10-0						I
Plate Offsets (X	(,Y)	[1:Edge,0-1-8], [3:0-1-8,Ed	ge], [4:0-1-8,Edge]								
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0)))	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPl2	2-0-0 1.00 1.00 YES 2014	CSI. TC 0.37 BC 0.63 WB 0.21 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.08 0.01	(loc) 10-11 10-11 7	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 51 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP 2x4 SP 2x4 SP 2x4 SP	P No.2(flat) P No.2(flat) P No.3(flat)			BRACING- TOP CHOR BOT CHOR	D D	Structur except Rigid ce	ral wood a end vertic eiling dire	sheathing dire cals. ctly applied or	ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,
REACTIONS.	(size Max G	e) 12=0-3-8, 7=0-3-8 rav 12=527(LC 1), 7=527(I	LC 1)								

9-10-0

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

TOP CHORD 2-3=-930/0, 3-4=-1188/0, 4-5=-948/0

BOT CHORD 11-12=0/636, 10-11=0/1188, 9-10=0/1188, 8-9=0/1188, 7-8=0/614

WEBS 2-12=-797/0, 2-11=0/384, 3-11=-373/0, 5-7=-770/0, 5-8=0/435, 4-8=-419/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







1			7-6-0			1
Plate Offsets (X,Y)	[10:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.18 BC 0.47 WB 0.30 Matrix-S	DEFL. ir Vert(LL) -0.02 Vert(CT) -0.03 Horz(CT) 0.01	n (loc) l/defl L/d 8-9 >999 480 8-9 >999 360 7 n/a n/a	PLATES MT20 Weight: 52 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S	P No.2(flat) P No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

7-6-0

REACTIONS. (size) 11=0-3-8, 7=Mechanical Max Grav 11=526(LC 1), 7=506(LC 1)

3x6 =

Wax Grav 11=520(EC 1), 7=500(EC 1)

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

TOP CHORD 2-3=-1118/0, 3-4=-1118/0, 4-5=-910/0

BOT CHORD 10-11=0/625, 9-10=0/1118, 8-9=0/1118, 7-8=0/653

WEBS 5-7=-801/0, 2-11=-768/0, 5-8=0/327, 2-10=0/627, 4-8=-260/0, 3-10=-285/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Refer to girder(s) for truss to truss connections.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf) Vert: 7-11=-10, 1-6=-100 Concentrated Loads (lb) Vert: 4=-235



3x6 =





REACTIONS. (size) 8=0-3-8, 5=Mechanical Max Grav 8=234(LC 1), 5=234(LC 1)

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

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Refer to girder(s) for truss to truss connections.

3) Girder carries tie-in span(s): 3-8-0 from 0-0-0 to 3-5-0

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf) Vert: 5-8=-10, 1-4=-138







			6-2-8		1
Plate Offsets (X,Y)	[1:Edge,0-1-8], [2:0-1-8,Edge], [7:0-1-8,E	Edge]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.36 BC 0.35 WB 0.13 Matrix-S	DEFL. ir Vert(LL) -0.04 Vert(CT) -0.05 Horz(CT) 0.00	n (loc) l/defl L/d 4 6-7 >999 480 5 6-7 >999 360 0 6 n/a n/a	PLATES GRIP MT20 244/190 Weight: 34 lb FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	P No.2(flat) P No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathir except end verticals. Rigid ceiling directly app	g directly applied or 6-0-0 oc purlins, ied or 10-0-0 oc bracing.
REACTIONS. (size	e) 9=0-3-8, 6=0-3-8				

Max Grav 9=328(LC 1), 6=328(LC 1)

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

TOP CHORD 2-3=-430/0, 3-4=-430/0

BOT CHORD 8-9=0/430, 7-8=0/430, 6-7=0/339

WEBS 4-6=-425/0, 2-9=-531/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







REACTIONS. (size) 8=0-3-8, 5=0-3-8 Max Grav 8=199(LC 1), 5=199(LC 1)

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

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







BODL 5	.0	Code IRC2013/11/2014	Matrix-3			weight. 23 lb	FT = 2070F, T
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP 2x4 SP 2x4 SP	No.2(flat) No.2(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	rectly applied or 3-7-0 c or 10-0-0 oc bracing.	oc purlins,
						-	

REACTIONS. (size) 8=0-3-8, 5=Mechanical Max Grav 8=183(LC 1), 5=183(LC 1)

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

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Refer to girder(s) for truss to truss connections.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







10-7-0									
10-7-0 Plate Offsets (X,Y) [1:Edge,0-1-8], [10:0-1-8,Edge], [11:0-1-8,Edge]									
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.74 BC 0.78 WB 0.37 Matrix-S	DEFL. in Vert(LL) -0.13 Vert(CT) -0.17 Horz(CT) 0.02	(loc) l/defl L/d 9-10 >960 480 9-10 >735 360 8 n/a n/a	PLATES MT20 Weight: 53 lb	GRIP 244/190 FT = 20%F, 11%E			
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	P No.2(flat) P No.2(flat) P No.3(flat)	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.						
REACTIONS. (size) 8=0-3-8, 12=0-3-8 Max Grav 8=562(LC 1), 12=568(LC 1)									
FORCES. (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown.									

TOP CHORD 2-3=-1309/0, 3-4=-1309/0, 4-5=-1309/0, 5-6=-1051/0

BOT CHORD 11-12=0/660, 10-11=0/1309, 9-10=0/1345, 8-9=0/687

WEBS 6-8=-859/0, 6-9=0/474, 5-9=-383/0, 3-11=-323/0, 2-12=-828/0, 2-11=0/772

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

3) CAUTION, Do not erect truss backwards.



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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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14-6-8											
14-6-8											
Plate Offsets (X,Y) [1:Edge,0-1-8], [14:0-1-8,Edge], [15:0-1-8,Edge]											
LOADING (psf TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	f) O O O O	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC BC WB Matri	0.69 0.88 0.39 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.17 -0.23 0.04	(loc) 15 15 11	l/defl >999 >731 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 75 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) *Except* 13-19: 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat) REACTIONS. (size) 11=0-3-8, 19=0-3-8 Max Grav 11=780(LC 1), 19=786(LC 1)				BRACING- TOP CHOR BOT CHOR	D D	Structu except Rigid c	ral wood end verti eiling dire	sheathing dir cals. ectly applied c	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,	
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1587/0, 3-5=-2441/0, 5-6=-2597/0, 6-7=-2597/0, 7-8=-2597/0, 8-9=-1568/0 BOT CHORD 18-19=0/966, 17-18=0/2174, 16-17=0/2705, 15-16=0/2705, 14-15=0/2597, 12-14=0/2161, 11-12=0/969 WEBS 9-11=-1213/0, 9-12=0/780, 8-12=-772/0, 8-14=0/715, 7-14=-303/0, 2-19=-1212/0, 2-18=0/809, 3-18=-763/0, 3-17=0/349, 5-17=-337/0, 5-15=-523/336											

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.







15

4x6 =

14

13



ACTIONS. (size) 19=0-3-8, 12=0-3-8, 16=0-3-8 Max Grav 19=349(LC 10), 12=541(LC 7), 16=698(LC 1)

18

17

1.5x3 ||

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

I OF CHORD	2-3=-332/0, 3-4=-332/0, 4-3=-303/0, 5-0=-303/0, 0-7=-1192/0, 7-0=-1192/0,
	8-9=-1192/0, 9-10=-998/0
BOT CHORD	18-19=0/373, 17-18=0/532, 16-17=0/532, 15-16=0/862, 14-15=0/1192, 13-14=0/1266,
	12-13=0/658
WEBS	10-12=-823/0, 10-13=0/442, 9-13=-348/0, 7-15=-463/0, 6-16=-692/0, 6-15=0/675,
	2-19=-468/0, 4-16=-356/32

NOTES-

1g

3x6

=

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

ЧH

3x6 =

Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.



3x6 =



	-						
Job	Truss	Truss Type	Qty		ICKEEHOMES/FINLE	Y; LOT 1129 ANDER	IA4626675
AC1129	F19AG	GABLE	99	1 Jc	bb Reference (optional	I)	144020073
Builders FirstSource (Apex	, NC), Apex, NC - 27523,		ہ ID:Jnu27T8	8.240 s Mar 9 aAaS2DQsg9	9 2020 MiTek Industrie 9LB7sjzzj2p-h?v_r2Ujr	es, Inc. Mon Feb 1 2 KbOEKip5pZxq6blez	0:48:28 2021 Page 1 skU2hnp5jtIZzpOW1
							0 ₁ -8
							Scale = 1:17.0
1 3x6 =	2	3 4	5		6	7	8
16	15	14 13	12		11	10	9
3x4	3x4 =						3x4 =
Plate Offsets (X,Y) [1:	1-4-0 2-8-0 1-4-0 1-4-0 5:0-1-8,Edge], [16:Edge,0-1-8	+ <u>4-0-0</u> 1-4-0 +	5-4-0 1-4-0	6-8-0 1-4-0	8-0-0 1-4-0	9-3- 1-3-	B B
		-					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 DOD 50	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NC	CSI. D TC 0.10 D BC 0.01 D WB 0.03	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n (loc) I/d a - 1 a - 1) 9 1	defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/1PI2014	iviatrix-S				vveight: 43 lb	FI = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 9-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Gable requires continuous bottom chord bearing.

3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.







DODL J	.0	0000 11(02013/11/2014			Weight. 24 lb	11 - 20701,
LUMBER- TOP CHORD BOT CHORD	2x4 SP 2x4 SP	No.2(flat) No.2(flat)	BRACING- TOP CHORD	Structural wood sheathing dir except end verticals.	rectly applied or 3-11-0	oc purlins,
WEBS	2x4 SP	No.3(flat)	BOT CHORD	Rigid ceiling directly applied of	or 10-0-0 oc bracing.	

REACTIONS. (size) 8=Mechanical, 5=0-3-8 Max Grav 8=202(LC 1), 5=202(LC 1)

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

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Refer to girder(s) for truss to truss connections.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







REACTIONS. (size) 8=0-3-8, 5=0-3-8

Max Grav 8=218(LC 1), 5=218(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-256/0, 3-5=-256/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







				19-9-0					
I				19-9-0					I
Plate Offsets (X,	Y) [13:Edge,0-1-8], [18:0-1	I-8,Edge], [19:0-1	-8,Edge]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/7	2-0-0 1.00 1.00 YES FPI2014	CSI. TC 0.73 BC 0.84 WB 0.60 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.41 17-18 -0.57 17-18 0.09 13	l/defl >565 >411 n/a	L/d 480 360 n/a	PLATES MT20 MT20HS Weight: 101 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP SS(flat) *Except* 9-12: 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.1(flat) *Except* 13-21: 2x4 SP SS(flat) WEBS 2x4 SP No.3(flat)				BRACING- TOP CHOR BOT CHOR	BRACING- TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.				
REACTIONS. (size) 24=0-3-8, 13=0-3-8 Max Grav 24=1066(LC 1), 13=1072(LC 1)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2306/0, 3-4=-3842/0, 4-5=-4922/0, 5-6=-4922/0, 6-7=-4922/0, 7-8=-4770/0, 8-10=-3849/0, 10-11=-2304/0 POT CHORD 2-3 -4-04/230 -20 -22-0/4422 -10 -20-0/4422 -18 10=-0/4022 -17 18=-0/4022									
WEBS	D 23-24=0/1339, 22-23=0/3240, 20-22=0/4432, 19-20=0/4432, 18-19=0/4922, 17-18=0/4982, 16-17=0/4470, 15-16=0/4470, 14-15=0/3232, 13-14=0/1342 2-24=-1676/0, 2-23=0/1259, 3-23=-1216/0, 3-22=0/784, 4-22=-754/0, 4-19=0/954, 5-19=-359/0, 6-18=-317/278, 11-13=-1684/0, 11-14=0/1252, 10-14=-1208/0, 10-15=0/804, 8-15=-792/0, 8-17=0/408, 7-17=-433/0, 7-18=-490/460								

19-9-0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are MT20 plates unless otherwise indicated.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.







			10-8-8					
Plate Offsets (X,Y)	[1:Edge,0-1-8], [3:0-1-8,Edge], [10:0-1-8	3,Edge]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.42 BC 0.58 WB 0.23 Matrix-S	DEFL. in Vert(LL) -0.07 Vert(CT) -0.09 Horz(CT) 0.02	(loc) l/defl L/d 9-10 >999 480 9-10 >999 360 8 n/a n/a	PLATES MT20 Weight: 55 lb	GRIP 244/190 FT = 20%F, 11%E		
LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.				
REACTIONS. (size Max G	e) 13=0-3-8, 8=0-3-8 irav 13=575(LC 1), 8=575(LC 1)							
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. FOP CHORD 2-3=-1054/0. 3-4=-1411/0. 4-5=-1411/0. 5-6=-1054/0								

BOT CHORD 12-13=0/691, 11-12=0/1411, 10-11=0/1411, 9-10=0/1381, 8-9=0/693

 DOI GOURD
 12-13=0/091, 11-12=0/1411, 10-11=0/1411, 9-10=0/1381, 8-9=0/693

 WEBS
 2-13=-867/0, 2-12=0/473, 3-12=-480/0, 6-8=-869/0, 6-9=0/470, 5-9=-426/0, 5-10=-119/346

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







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