

## RE: AC1071

MCKEEHOMES/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY

Trenco 818 Soundside Rd Edenton, NC 27932

## Site Information:

Customer: Project Name: AC1071 Lot/Block: Address: City:

Model: Subdivision: State:

## General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Wind Code: N/A Roof Load: N/A psf

Design Program: MiTek 20/20 8.2 Wind Speed: N/A mph Floor Load: 55.0 psf

This package includes 4 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	144764707	F01	2/11/2021
2	144764708	F02GR	2/11/2021
3	144764709	F03	2/11/2021
4	I44764710	F04	2/11/2021

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Builders FirstSource-Apex,NC.

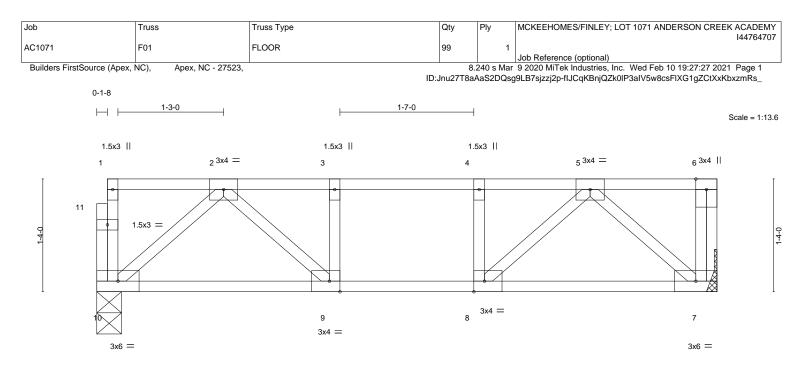
Truss Design Engineer's Name: Sevier, Scott

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.





			7-4-0 7-4-0			
Plate Offsets (X,Y)	[8:0-1-8,Edge], [9:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.23	Vert(LL) -0.0		MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.23	Vert(CT) -0.0	03 9-10 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.0	.00 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 41 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat)		BRACING- TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.			
WEBS 2x4 SP No.3(flat)			BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
REACTIONS. (siz Max G	e) 10=0-3-8, 7=Mechanical Grav 10=383(LC 1), 7=390(LC 1)					
( )	Comp./Max. Ten All forces 250 (lb) or -556/0. 3-4=-556/0. 4-5=-556/0	less except when shown.				

TOP CHORD 2-3=-556/0, 3-4=-556/0, 4-5=-556/

 BOT CHORD
 9-10=0/364, 8-9=0/556, 7-8=0/365

 WEBS
 5-7=-486/0, 2-10=-481/0, 5-8=0/297, 2-9=0/298

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.

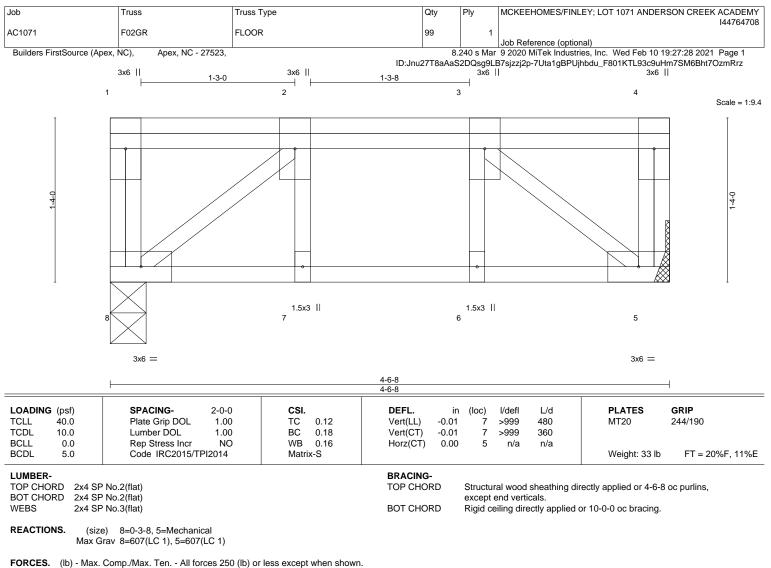
Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) 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





TOP CHORD 2-3=-542/0

BOT CHORD 7-8=0/542, 6-7=0/542, 5-6=0/542 WEBS 3-5=-694/0, 2-8=-694/0

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): 8-7-0 from 0-0-0 to 4-6-8

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

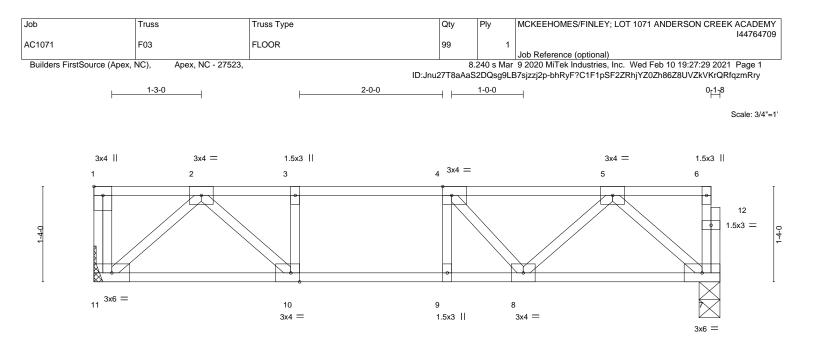
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf) Vert: 5-8=-10. 1-4=-273



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			<u>8-9-0</u> 8-9-0				
Plate Offsets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,Edge], [10:0-1-8	3,Edge]					
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	<b>CSI.</b> TC 0.46 BC 0.56 WB 0.23	<b>DEFL.</b> ir Vert(LL) -0.06 Vert(CT) -0.07 Horz(CT) 0.01	9 >999 480 9 >999 360	<b>PLATES</b> MT20	<b>GRIP</b> 244/190	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	- (- )		Weight: 47 lb	FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat)			BRACING- TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.			
WEBS 2x4 SP No.3(flat)			BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.			
REACTIONS. (size Max G	e) 11=Mechanical, 7=0-3-8 rav 11=467(LC 1), 7=461(LC 1)						
FORCES. (lb) - Max.	Comp./Max. Ten All forces 250 (lb) or	less except when shown.					

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TOP CHORD 2-3=-787/0, 3-4=-787/0, 4-5=-677/0

BOT CHORD 10-11=0/457, 9-10=0/787, 8-9=0/787, 7-8=0/479

WEBS 2-11=-608/0, 2-10=0/474, 5-7=-635/0, 5-8=0/276

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.

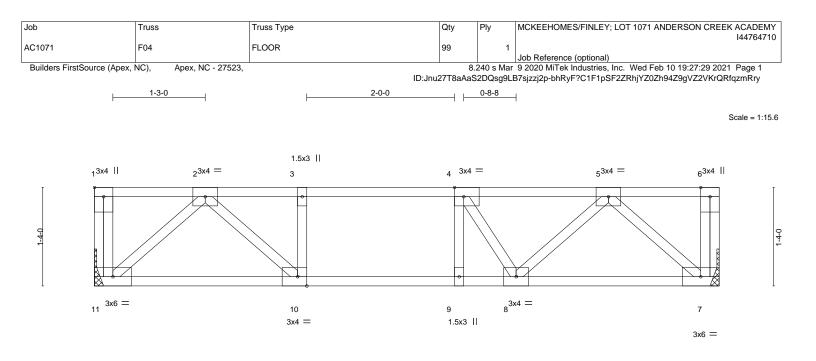
Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.



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F			<u>8-5-8</u> 8-5-8			
Plate Offsets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,Edge], [10:0-1-4	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	<b>CSI.</b> TC 0.40 BC 0.49 WB 0.21 Matrix-S	DEFL.         ir           Vert(LL)         -0.05           Vert(CT)         -0.06           Horz(CT)         0.01	9 >999 480 9 >999 360	<b>PLATES</b> MT20 Weight: 47 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat)		BRACING- TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.			
WEBS 2x4 SP No.3(flat)		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.			
REACTIONS. (size Max G	e) 11=Mechanical, 7=Mechanical Srav 11=451(LC 1), 7=451(LC 1)					

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

TOP CHORD 2-3=-735/0, 3-4=-735/0, 4-5=-652/0

BOT CHORD 10-11=0/437, 9-10=0/735, 8-9=0/735, 7-8=0/451

WEBS 2-11=-582/0, 2-10=0/432, 5-7=-600/0, 5-8=0/282

NOTES-

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