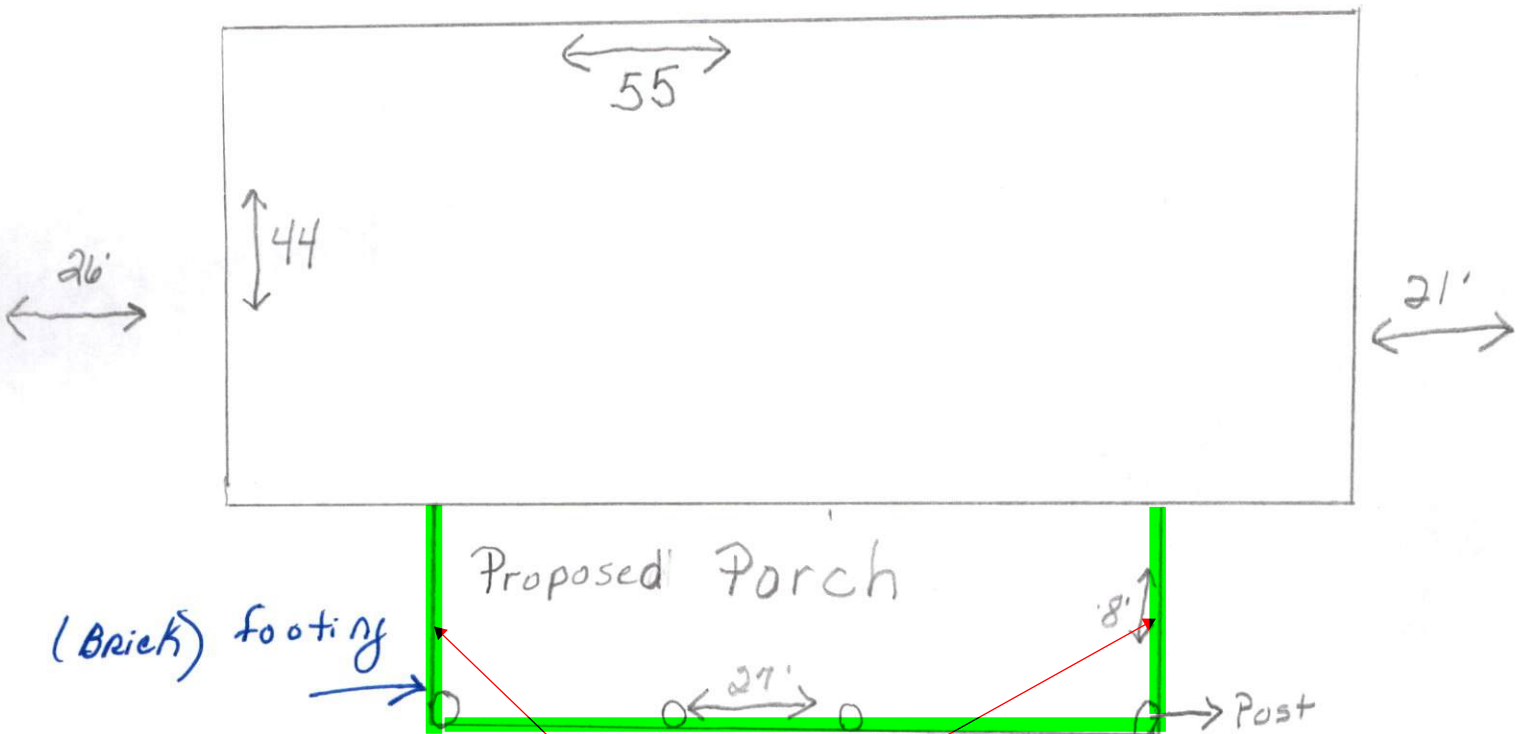


Client Name: Karen Faircloth  
111 W Stewart St  
Coats, NC 27521  
910-890-6842

220'



12x16 footing minimum with 6 inches of concrete.

Minimum 2-2x10 headers supported at both ends.

71'

Adding Front Porch

111 West Stewart St.

Karen Faircloth  
111 W Stewart St  
Coats, NC  
910 890 6842

**Trenco**  
818 Soundside Rd  
Edenton, NC 27932

Re: P-9334-1  
Faircloth Parents-Roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Peak Truss Builders, LLC.

Pages or sheets covered by this seal: I55968174 thru I55968175

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



January 4, 2023

Gilbert, Eric

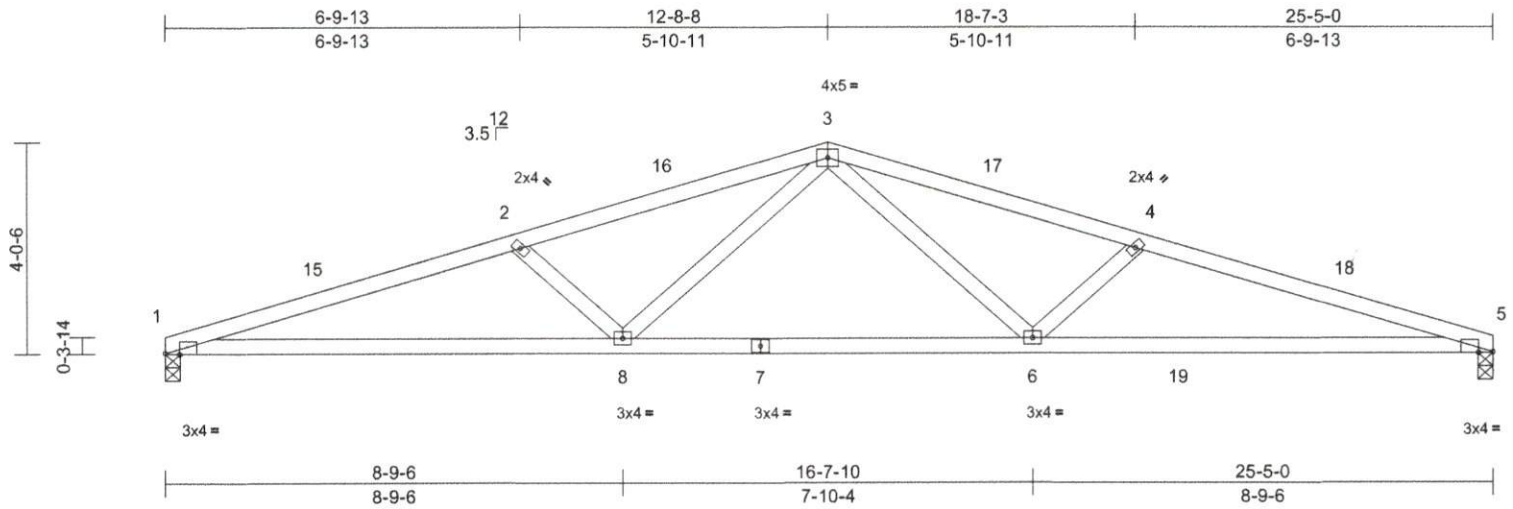
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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	Faircloth Parents-Roof	155968174
P-9334-1	T1	Common	6	1	Job Reference (optional)	

Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue Jan 03 16:12:01  
 ID:7FS8xslNquDC9bbPPZ9AYOyJ\_hA-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:44.3

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	-0.19	6-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.33	6-14	>924	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 101 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-11-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	
(size)	1=0-3-8, 5=0-3-8
Max Horiz	1=-23 (LC 9)
Max Uplift	1=-83 (LC 11), 5=-83 (LC 11)
Max Grav	1=697 (LC 1), 5=739 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-1898/256, 2-3=-1680/211, 3-4=-1770/211, 4-5=-1996/256
BOT CHORD	1-8=-216/1807, 6-8=-113/1232, 5-6=-216/1903
WEBS	3-6=-25/607, 4-6=-339/116, 3-8=-25/487, 2-8=-326/116

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-8-8, Exterior (2) 12-8-8 to 15-8-8, Interior (1) 15-8-8 to 25-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 1 and 83 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down at 19-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (lb/ft)  
 Vert: 1-3=-40, 3-5=-40, 9-12=-13  
 Concentrated Loads (lb)  
 Vert: 19=-80 (F)

*Karen Faircloth  
 111 W Stewart St  
 Coats NC  
 910 890 6842*



**WARNING - Verify design parameters and READ NOTES ON THIS AND IN ENCLOSED MITEK REFERENCE PAGE MI-77-119v, 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



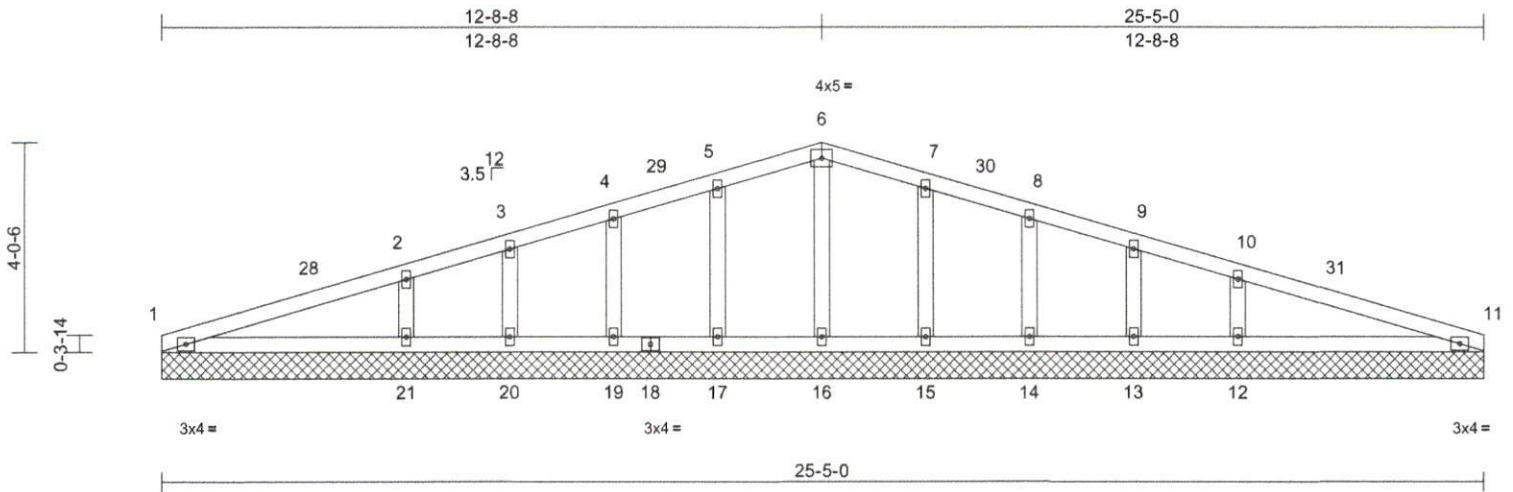
818 Soundside Road  
 Edenton, NC 27932

Job P-9334-1	Truss T1GE	Truss Type Common Supported Gable	Qty 1	Ply 1	Faircloth Parents-Roof Job Reference (optional)	155968175
-----------------	---------------	--------------------------------------	----------	----------	--	-----------

Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MITek Industries, Inc. Tue Jan 03 16:12:03  
ID:7FS8xslNquDC9bbPPZ9AYOyJ\_hA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:44.5

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
										Weight: 107 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 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=25-5-0, 11=25-5-0, 12=25-5-0,  
 13=25-5-0, 14=25-5-0, 15=25-5-0,  
 16=25-5-0, 17=25-5-0, 19=25-5-0,  
 20=25-5-0, 21=25-5-0, 22=25-5-0,  
 25=25-5-0  
 Max Horiz 1=23 (LC 10), 22=23 (LC 10)  
 Max Uplift 1=9 (LC 11), 11=9 (LC 11),  
 12=42 (LC 11), 13=5 (LC 11),  
 14=20 (LC 11), 15=17 (LC 11),  
 17=17 (LC 11), 19=20 (LC 11),  
 20=5 (LC 11), 21=42 (LC 11),  
 22=9 (LC 11), 25=9 (LC 11)  
 Max Grav 1=105 (LC 1), 11=105 (LC 1),  
 12=261 (LC 21), 13=34 (LC 21),  
 14=124 (LC 1), 15=108 (LC 21),  
 16=97 (LC 1), 17=108 (LC 20),  
 19=124 (LC 1), 20=34 (LC 20),  
 21=261 (LC 20), 22=105 (LC 1),  
 25=105 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=74/27, 2-3=31/34, 3-4=18/43,  
 4-5=24/59, 5-6=30/73, 6-7=30/73,  
 7-8=24/59, 8-9=17/43, 9-10=29/34,  
 10-11=74/24  
 BOT CHORD 1-21=-21/66, 20-21=-4/27, 19-20=-4/27,  
 17-19=-4/27, 16-17=-4/27, 15-16=-4/27,  
 14-15=-4/27, 13-14=-4/27, 12-13=-4/27,  
 11-12=-21/66

**WEBS**  
 6-16=-69/6, 5-17=-84/67, 4-19=-89/42,  
 3-20=-40/24, 2-21=-170/86, 7-15=-84/67,  
 8-14=-89/42, 9-13=-40/24, 10-12=-170/86

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=25ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-0 to 3-0-0, Exterior (2) 3-0-0 to 12-8-8, Corner (3) 12-8-8 to 15-8-8, Exterior (2) 15-8-8 to 25-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 9 lb uplift at joint 11, 17 lb uplift at joint 17, 20 lb uplift at joint 19, 5 lb uplift at joint 20, 42 lb uplift at joint 21, 17 lb uplift at joint 15, 20 lb uplift at joint 14, 5 lb uplift at joint 13, 42 lb uplift at joint 12, 9 lb uplift at joint 1 and 9 lb uplift at joint 11.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

*Karen Faircloth  
 111 W Stewart St  
 Coats NC  
 910 890 6842*



January 4, 2023

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7173 (rev. 5/19/2020) BEFORE USE.**

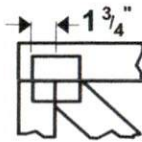
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



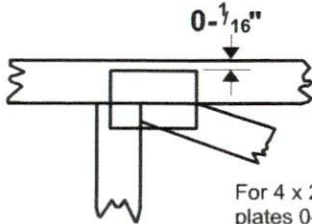
818 Soundside Road  
 Edenton, NC 27932

# 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- $\frac{1}{16}$ " from outside edge of truss.



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

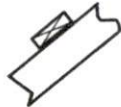
\* Plate location details available in MiTek 20/20 software or upon request.

## PLATE SIZE

4 x 4

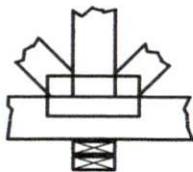
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

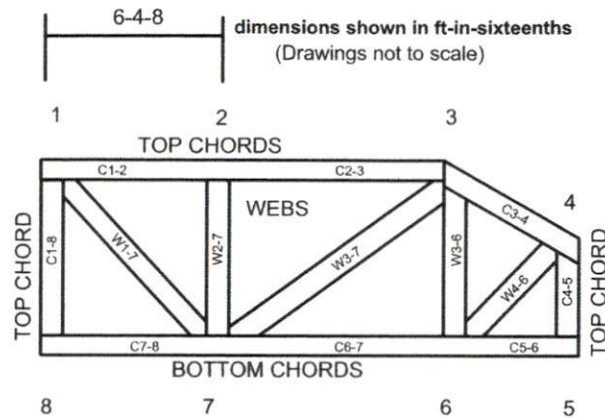


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

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

# Numbering System



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved



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



# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

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

*Karen Faircloth  
111 W Stewart St  
Coats, NC  
910 890 6842*

THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE  
PLEASE REFER TO BUILDING PLANS FOR BUILDING CONSTRUCTION  
SUCH AS PLUMBING OR DUCT DROPS.

Karen Faircloth  
111 W Stewart St  
Coats, NC  
910 890 6842

60lb per LF per customer



Fair  
R  
c