

TRUSS BRACING DETAILS

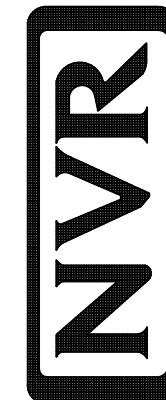
SCALE: 1/8" = 1'-0"

TRUSS BRACING NOTES:

- IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.
- 2X4 SFF#2 LATERAL BRACES SHALL BE NAILED TO MINIMUM (3) TRUSS MEMBERS WITH MINIMUM (2) 10D NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING.
- WEB 1" BRACE, DETAIL (3/RP-1c), IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS THREE (3) OR MORE TRUSSES AND MAY BE USED IN LIEU OF 2X4 LATERAL BRACING.
- DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (4/RP-1c)
- STUDDED GABLE BRACING DETAIL (1/RP-1c) TO BE UTILIZED FOR TRUSSES 6'-4" IN HEIGHT OR GREATER.
- PARTIALLY SHEATHED GABLES, SEE (5/RP-1c) FOR "L" BRACING WHEN REQUIRED.
- LATERAL BRACING CAN BE APPLIED TO EITHER SIDE OF THE WEB MEMBER IDENTIFIED IN THE DRAWING.
- SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.

SHEET NO.	MODEL	SET NO.	EDC00
S-4	EDEN CAY	VERSION	01
	DRAWING TITLE	RELEASE NO.	----
	TRUSS BRACING DETAILS	DRAWN BY	ARS
	OPTION DESCRIPTION	DATE:	
		OPTION	

22



NVR, Inc., Suite 100
5285 Westview Drive
Frederick, MD 21703

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DIV-COMM-LOT-UNIT

RLH-VK-0107

COMM-LOT

KIPFLING VILLAGE - 0107

STREET ADDRESS

27 ARTESA COURT

CITY

FUQUAY VARIANA

STATE

NC

ZIP

27526

NVR, Frederick, MD - 21703, 8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:14 2021 Page 1
ID:v6Z6pgbJ9MBbXVTJcHb?unyGd2m-pdTH53gv6durCw64m7kYi2txuudo6uUeX5SHATmygS23
3-0-0 6-0-0
3-0-0 3-0-0

Diagram illustrating the structural members and their specifications for a roof truss:

- Member 1:** Labeled "1" on the left side of the truss. Specification: $2 \times 4 \approx$.
- Member 2:** Labeled "2" at the peak of the truss. Specification: $3 \times 4 =$.
- Member 3:** Labeled "3" on the right side of the truss. Specification: $2 \times 4 \approx$.
- Dimensions:**
 - Vertical height: $1-0-0$.
 - Horizontal span: $6-0-0$.
 - Roof slope: $4.00 \over 12$.
- Foundation:** The truss is supported by a cross-hatched foundation.

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.3 or 2x4 SPF Stud	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.3 or 2x4 SPF Stud	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-287/114, 2-3=-287/114
 BOT CHORD 1-3=-93/252

A circular blue seal for the State of North Carolina Professional Engineer. The outer ring contains the text "NORTH CAROLINA" at the top and "PROFESSIONAL ENGINEER" at the bottom. In the center, the word "SEAL" is above the license number "45844". A red cursive signature, "Andrew Johnson", is written across the bottom of the seal.

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/TPH Quality Criteria, DSB-89 and BCSI Building Components**.

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

ENGINEERING BY
TRENCO
A MiTek Affiliat

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-95511	VCOM	1	1	Job Reference (optional)

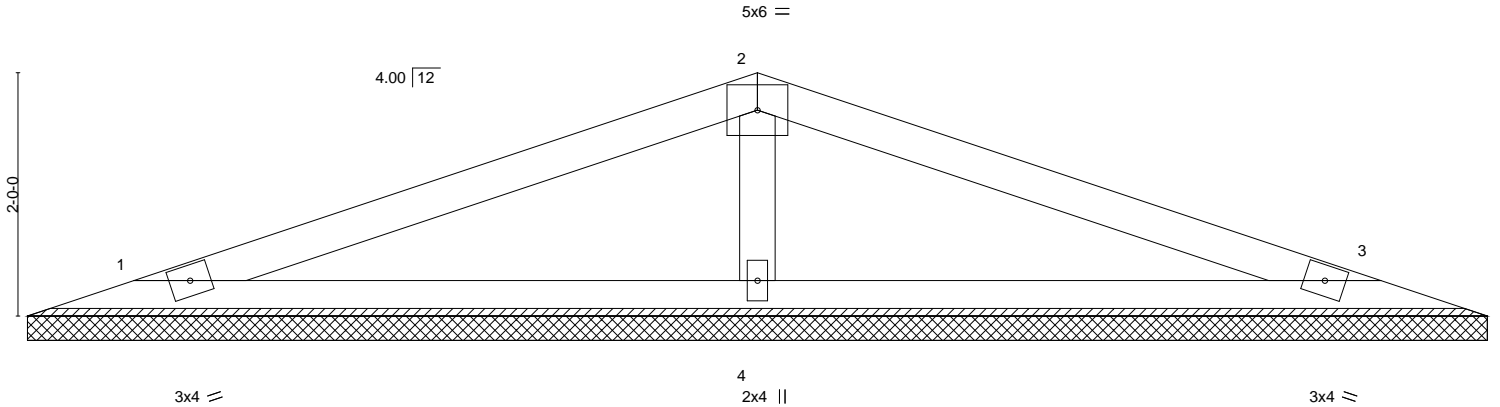
I47779322

NVR, Frederick, MD - 21703,

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:15 2021 Page 1
ID:v6Z6pgbJ9MBbXVTJcHb?unyGd2m-Hp0fIPgXt0iq4gGKrFnFFP_zlzLrKEoml0k?CygS22

6-0-0	12-0-0
6-0-0	6-0-0

Scale = 1:18.9



6-0-0		12-0-0	
6-0-0		6-0-0	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 30.0	2-0-0	TC 0.71	in (loc) l/defl L/d
(Roof Snow=30.0)	Plate Grip DOL 1.15	BC 0.43	Vert(LL) n/a - n/a 999
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Vert(CT) n/a - n/a 999
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a
BCDL 10.0	Code IBC2021/TPI2014		
			PLATES GRIP
			MT20 197/144
			Weight: 36 lb FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud
 WEBS 2x4 SP No.3 or 2x4 SPF Stud

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=12-0-0, 3=12-0-0, 4=12-0-0
 Max Horz 1=-39(LC 13)
 Max Uplift 1=-71(LC 8), 3=-76(LC 13), 4=-105(LC 8)
 Max Grav 1=310(LC 18), 3=310(LC 19), 4=580(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-426/162

NOTES- (7-8)

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3 except (jt=lb) 4=105.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.



September 16, 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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job ORDERS	Truss SE-18617- Cond1	Truss Type COMN	Qty 1	Ply 2	11_Southeast-Girder-Int Job Reference (optional)	I49194730
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:28 2021 Page 1
ID:JkAtAdo3eV1PB_YPPXGKuzpt0s-a4smtw6u8lm2mv0nly32enc9vrEHdeDlq4mOLDyAa4f

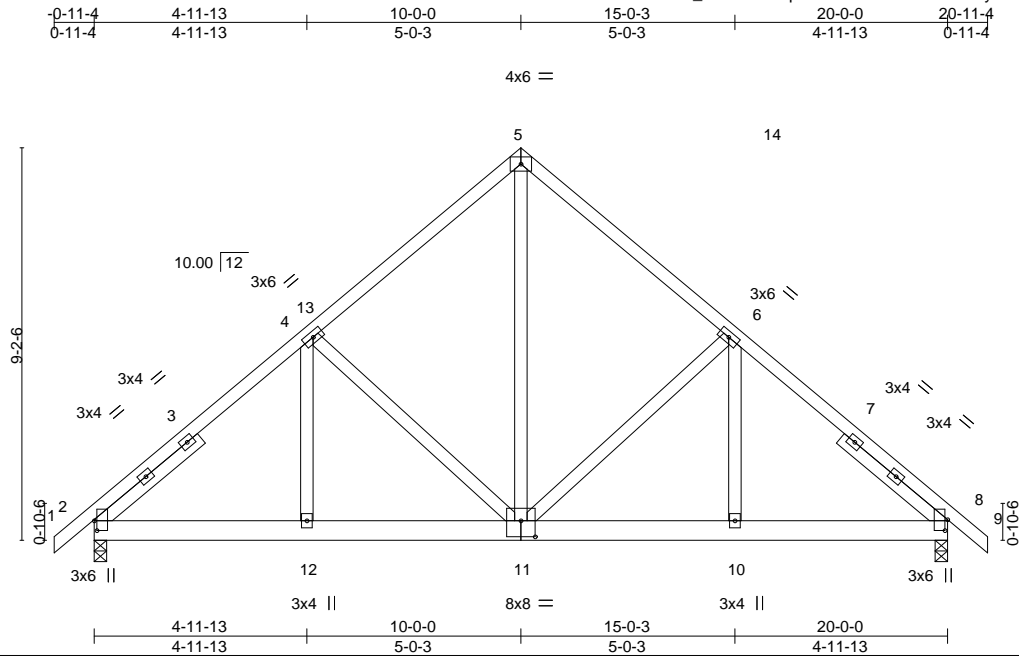


Plate Offsets (X,Y)-- [2:0-2-12,0-0-12], [8:0-3-1,0-0-12], [11:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.44 BC 0.19 WB 0.21 Matrix-S	Vert(LL) -0.02 Vert(CT) -0.04 Horz(CT) 0.01 Wind(LL) 0.01	10-11 10-11 8 11	>999 >999 n/a >999	360 240 n/a 240	MT20	197/144
TCDL 10.0	Rep Stress Incr NO						Weight: 287 lb	FT = 5%
BCLL 0.0 *	Code IBC2021/TPI2014							
BCDL 10.0								

LUMBER-	BRACING-	[MCT]
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.	
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS 2x4 SP No.3 or 2x4 SPF Stud		
SLIDER Left 2x4 SP or SPF No.3 or Stud 3-2-0, Right 2x4 SP or SPF No.3 or Stud 3-2-0		

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=232(LC 8)
Max Uplift 2=165(LC 10), 8=165(LC 11)
Max Grav 2=1529(LC 17), 8=1529(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1786/197, 4-5=-1278/239, 5-6=-1278/239, 6-8=-1786/197
BOT CHORD 2-12=-177/1247, 11-12=-177/1247, 10-11=-72/1247, 8-10=-72/1247
WEBS 4-12=0/314, 5-11=-173/971, 6-10=0/314, 4-11=-584/224, 6-11=-584/224

NOTES- (10-12)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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) 2=165, 8=165.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.

Continued on page 2

LOAD CASE(S) Standard

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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



January 12, 2022

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	11_Southeast-Girder-Int
ORDERS	SE-18617- Cond1	COMN	1	2	I49194730
Job Reference (optional)					

NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:28 2021 Page 2
ID:IJkAtAdo3eV1PB_YPPXGKuzpt0s-a4smtw6u8lm2mv0nly32enc9vrEHdeDIq4mOLDyAa4f

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-8=-60(B=-40), 1-5=-80, 5-9=-80

Job ORDERS	Truss SE-18617-	Truss Type COMN	Qty 1	Ply 2	11_Southeast-Girder-Int Job Reference (optional)	I49194730
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:28 2021 Page 1
ID:JkAtAdo3eV1PB_YPPXGKuzpt0s-a4smtw6u8lm2mv0nly32enc8rrD4de0lq4mOLDyAa4f

0-11-4 4-11-13 10-0-0 15-0-3 20-0-0 20-11-4
0-11-4 4-11-13 5-0-3 5-0-3 4-11-13 0-11-4

4x6 =

Scale = 1:55.1

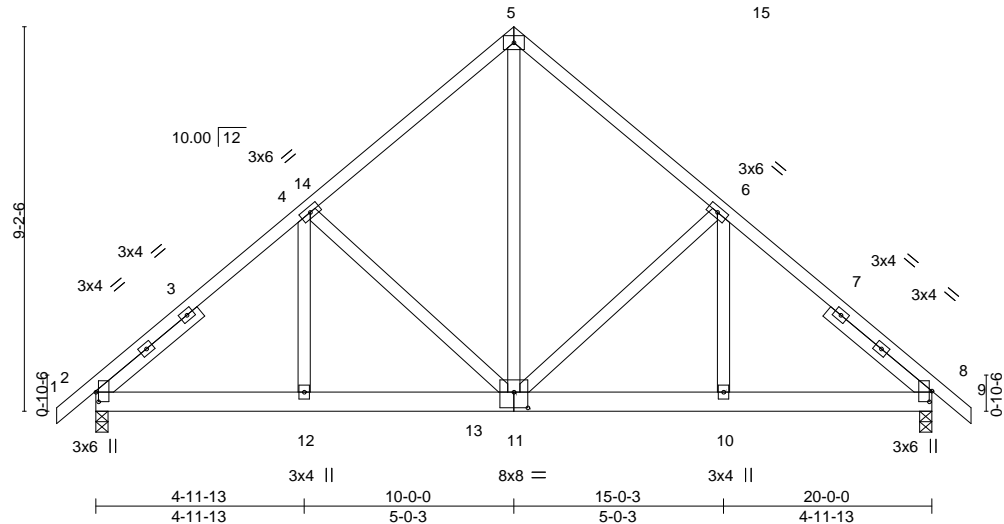


Plate Offsets (X,Y)-- [2:0-2-12,0-0-12], [8:0-3-1,0-0-12], [11:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.45 BC 0.20 WB 0.22 Matrix-S	Vert(LL) -0.02 10-11 Vert(CT) -0.04 10-11 Horz(CT) 0.01 8 Wind(LL) 0.01 11	>999 >999 n/a >999	360 240 n/a 240		MT20	197/144
TCDL 10.0	Rep Stress Incr NO							
BCLL 0.0 *	Code IBC2021/TPI2014							
BCDL 10.0							Weight: 287 lb	FT = 5%

LUMBER-	BRACING-	[MCT]
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.	
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS 2x4 SP No.3 or 2x4 SPF Stud		
SLIDER Left 2x4 SP or SPF No.3 or Stud 3-2-0, Right 2x4 SP or SPF No.3 or Stud 3-2-0		

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=232(LC 8)
Max Uplift 2=170(LC 10), 8=178(LC 11)
Max Grav 2=1559(LC 17), 8=1609(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1831/204, 4-5=-1324/246, 5-6=-1324/246, 6-8=-1875/210
BOT CHORD 2-12=-182/1279, 11-12=-182/1279, 10-11=-82/1311, 8-10=-82/1311
WEBS 4-12=0/311, 5-11=-182/1028, 6-10=0/346, 4-11=-579/223, 6-11=-622/230

NOTES- (10-12)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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) 2=170, 8=178.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.

Continued on page 2

LOAD CASE(S) Standard

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818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-18617- Cond2	Truss Type COMN	Qty 1	Ply 2	11_Southeast-Girder-Int Job Reference (optional)	I49194730
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:29 2021 Page 2
ID:UkAtAdo3eV1PB_YPPXGKuzpt0s-2GQ95G7Wv3uvO3bzsgaHB_8JbFZJM5Gu2kVxtgyAa4e

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 2-13=-60(B=-40), 8-13=-70(B=-50), 1-5=-80, 5-9=-80

Job ORDERS	Truss SE-18617-	Truss Type COMN	Qty 1	Ply 2	11_Southeast-Girder-Int Job Reference (optional)	I49194730
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:29 2021 Page 1

ID:UkAtAdo3eV1PB_YPXGKuzpt0s-2GQ95G7Wv3uvO3bzsgaHB_8JbFZJM5Gu2kVxtgyAa4e

0-11-4 4-11-13 10-0-0 15-0-3 20-0-0 20-11-4
0-11-4 4-11-13 5-0-3 5-0-3 4-11-13 0-11-4

4x6 =

Scale = 1:55.8

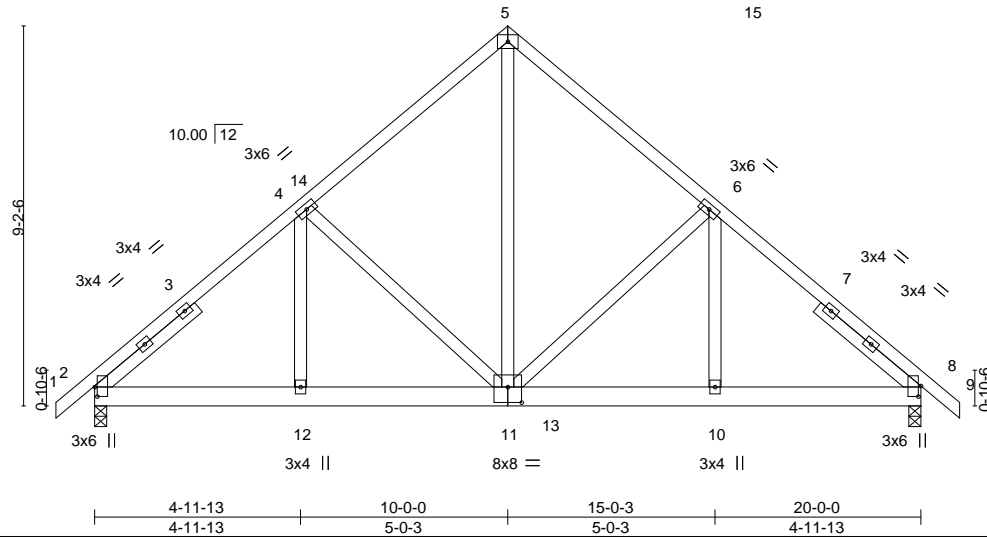


Plate Offsets (X,Y)-- [2:0-2-12,0-0-12], [8:0-3-1,0-0-12], [11:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.45 BC 0.20 WB 0.22 Matrix-S	Vert(LL) -0.02 Vert(CT) -0.04 Horz(CT) 0.01 Wind(LL) 0.01	11-12 11-12 8 11	>999 >999 n/a >999	360 240 n/a 240	MT20	197/144
TCDL 10.0	Rep Stress Incr NO						Weight: 287 lb	FT = 5%
BCLL 0.0 *	Code IBC2021/TPI2014							
BCDL 10.0								

LUMBER-	BRACING-	[MCT]
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.	
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS 2x4 SP No.3 or 2x4 SPF Stud		
SLIDER Left 2x4 SP or SPF No.3 or Stud 3-2-0, Right 2x4 SP or SPF No.3 or Stud 3-2-0		

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=232(LC 9)
Max Uplift 2=178(LC 10), 8=170(LC 11)
Max Grav 2=1609(LC 17), 8=1559(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1875/211, 4-5=-1324/246, 5-6=-1324/246, 6-8=-1831/203
BOT CHORD 2-12=-187/1311, 11-12=-187/1311, 10-11=-77/1279, 8-10=-77/1279
WEBS 4-12=0/346, 5-11=-182/1028, 6-10=0/311, 4-11=-622/229, 6-11=-579/224

NOTES- (10-12)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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) 2=178, 8=170.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.

Continued on page 2.

LOAD CASE(S) Standard

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-18617- Cond3	Truss Type COMN	Qty 1	Ply 2	11_Southeast-Girder-Int I49194730
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:30:29 2021 Page 2
ID:UkAtAdo3eV1PB_YPPXGKuzpt0s-2GQ95G7Wv3uvO3bzsgaHB_8JbFZJM5Gu2kVxtgyAa4e

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-13=-70(B=-50), 8-13=-60(B=-40), 1-5=-80, 5-9=-80

Job ORDERS	Truss SE-18618	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49194695
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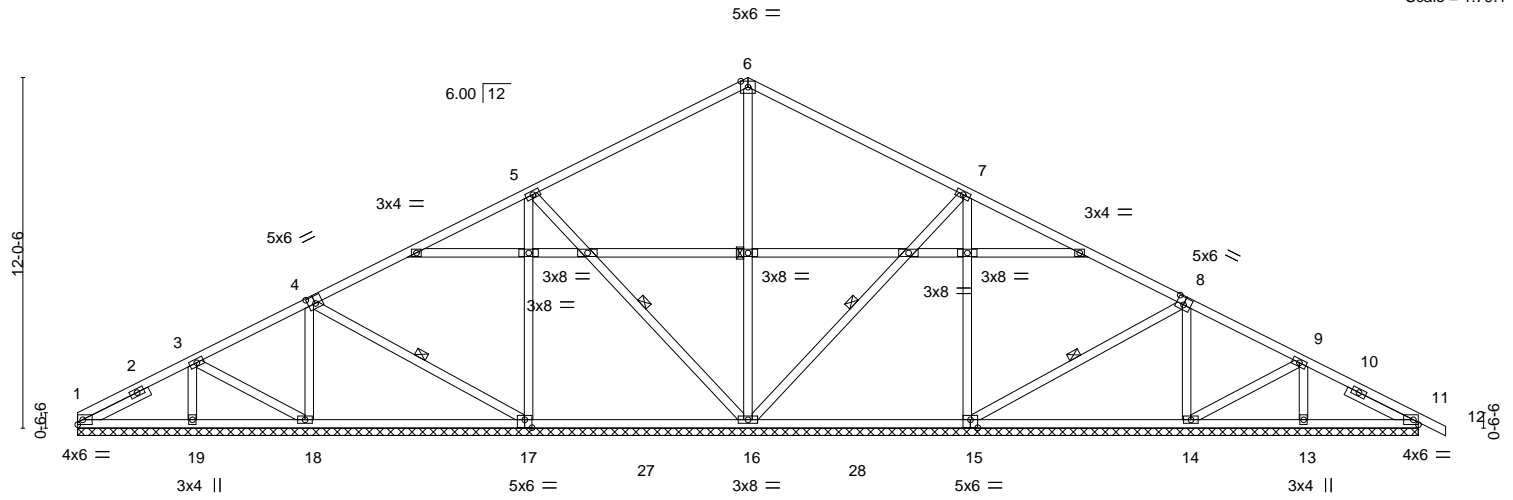
NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:04 2021 Page 1

ID:JkAtAdo3eV1PB_YPPXGKuzpt0s-1vn0FC5BwyBzh?beNJYLE37kG_Wzxa5OV0QxO5yAa5z

3-11-4	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0	46-11-4
3-11-4	4-0-2	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4	0-11-4

Scale = 1:79.1



	3-11-4	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0				
	3-11-4	4-0-2	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4				
Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [8:0-3-0,0-3-0], [15:0-3-0,0-3-4], [17:0-3-0,0-3-4]												
LOADING	(psf)	SPACING-	2-0-0	CSI.		in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.00	12	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IBC2021/TPI2014		Matrix-S							Weight: 313 lb	FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3 or 2x4 SPF Stud
SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,
Right 2x4 SP or SPF No.3 or Stud 2-6-0

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.
WEBS 1 Row at midpt 6-16, 7-16, 8-15, 5-16, 4-17

REACTIONS.

All bearings 46-0-0.

(lb) - Max Horz 1=209(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 14, 13, 19, 11 except 16=116(LC 10), 17=107(LC 10), 18=105(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 1 except 16=749(LC 1), 15=565(LC 26), 14=471(LC 1), 13=269(LC 24), 17=567(LC 25), 18=471(LC 1), 19=271(LC 23), 11=257(LC 1)

FORCES.

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

WEBS 6-16=411/49, 7-15=369/132, 8-14=345/122, 5-17=370/159, 4-18=344/150

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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 3x6 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 14, 13, 19, 11 except (it=lb) 16=116, 17=107, 18=105.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.
- Framing and bracing of the gable end frame shall be provided by the building designer.



January 12,2022

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

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Edenton, NC 27932

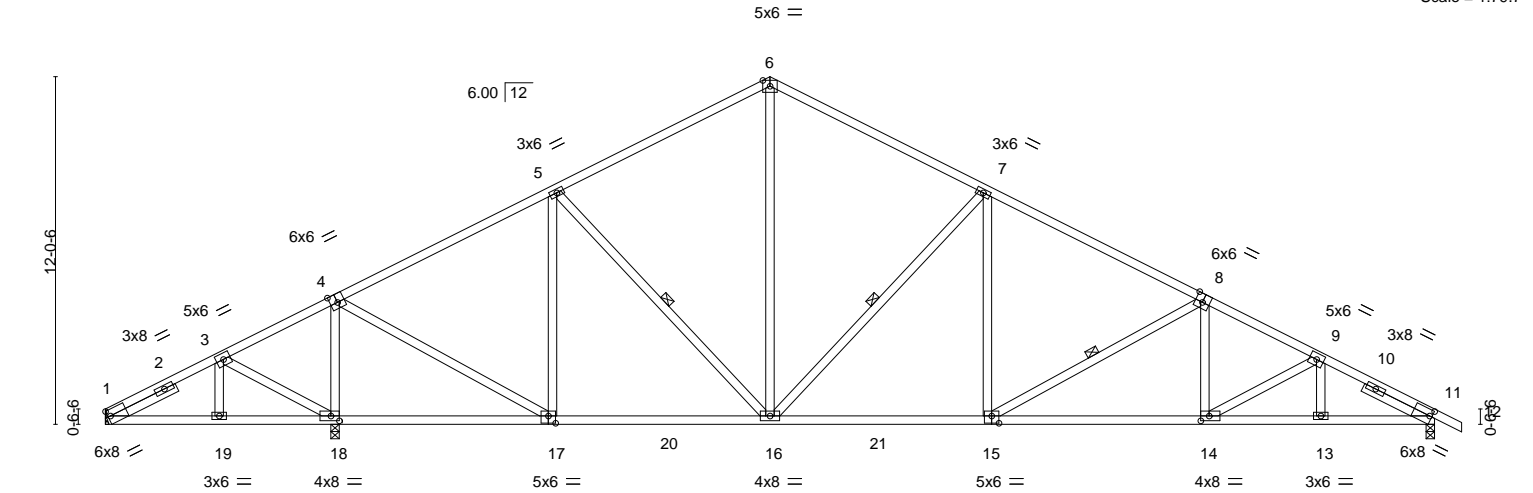
Job ORDERS	Truss SE-18619- Cond1	Truss Type COMN	Qty 1	Ply 1	10_Southeast	150924401
Job Reference (optional)						

NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:22:13 2022 Page 1
ID:JkAtAdo3eV1PB_YPPXGKuzpt0s-x6qJ40_Suhp_c5QXS9JfBvRGvzJ4fKXUV?E_ypzYLI8

3-11-4	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0	46-11-4
3-11-4	4-0-2	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4	0-11-4

Scale = 1:79.7



3-11-4	7-9-10	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0
3-11-4	3-10-6	0-1-12	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4
Plate Offsets (X,Y)-- [1:Edge,0-2-10], [4:0-3-0,Edge], [8:0-3-0,Edge], [11:0-1-0,0-2-10], [14:0-3-8,0-2-0], [15:0-3-0,0-3-0], [17:0-3-0,0-3-0], [18:0-3-8,0-2-0]								

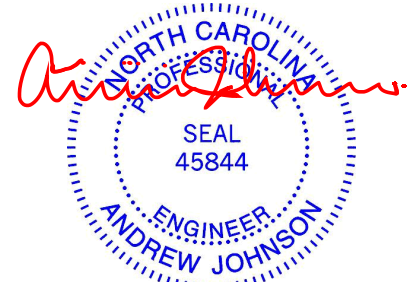
LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.15 15-16	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.28 15-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.07 11	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014		Matrix-S	Wind(LL)	0.10 14-15	>999	240	Weight: 280 lb	FT = 5%

LUMBER-	BRACING-	[MCT]
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins.	
BOT CHORD 2x4 SP No.2D	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS 2x4 SP No.3 or 2x4 SPF Stud	WEBS 1 Row at midpt 7-16, 8-15, 5-16	
SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0, Right 2x4 SP or SPF No.3 or Stud 2-6-0		

REACTIONS. (size) 1=Mechanical, 18=0-3-8, 11=0-3-8
Max Horz 1=209(LC 11)
Max Uplift 1=120(LC 26), 18=303(LC 10), 11=243(LC 11)
Max Grav 1=98(LC 23), 18=2218(LC 1), 11=1516(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-89/392, 3-4=-111/663, 4-5=-1151/224, 5-6=-1301/321, 6-7=-1301/292, 7-8=-1951/341, 8-9=-2442/393, 9-11=-2597/388
BOT CHORD 1-19=-323/207, 18-19=-323/207, 17-18=-530/220, 16-17=-82/972, 15-16=-42/1661, 14-15=-218/2171, 13-14=-270/2193, 11-13=-270/2193
WEBS 6-16=-130/712, 7-16=-883/299, 7-15=-5/528, 8-15=-589/201, 8-14=0/268, 5-16=-32/299, 5-17=-673/146, 4-17=-105/1682, 4-18=-1927/324, 3-18=-325/109

- NOTES-** (7-9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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, 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 120 lb uplift at joint 1, 303 lb uplift at joint 18 and 243 lb uplift at joint 11.
 - Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
 - Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
 - Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



March 23, 2022

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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Edenton, NC 27932

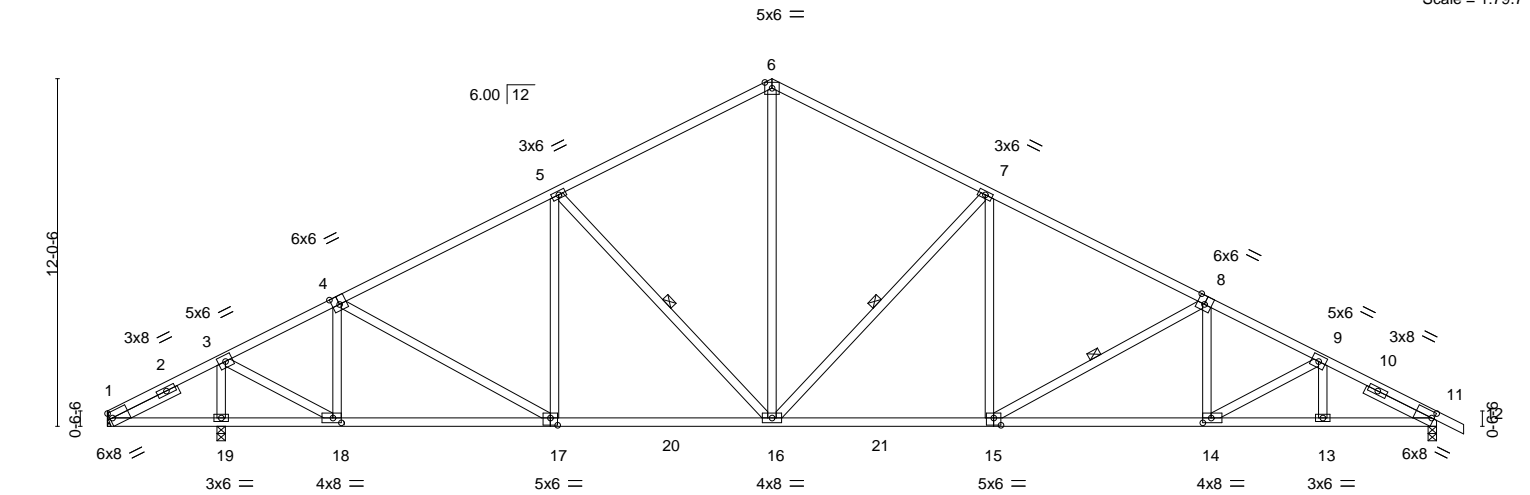
Job ORDERS	Truss SE-18619- Cond2	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I50924401
Job Reference (optional)						

NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:22:14 2022 Page 1
ID:JkAtAdo3eV1PB_YPXGKuzpt0s-QIOhIM_5f?xrDF?k?squk7_RTMeLOmodkfzXUGzYLI7

3-11-4	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0	46-11-4
3-11-4	4-0-2	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4	0-11-4

Scale = 1:79.7



3-11-4	7-9-10	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0
3-11-4	3-10-6	0-1-12	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4

Plate Offsets (X,Y)--	[1:Edge,0-2-10], [4:0-3-0,Edge], [8:0-3-0,Edge], [11:0-1-0,0-2-10], [14:0-3-8,0-2-0], [15:0-3-0,0-3-0], [17:0-3-0,0-3-0], [18:0-3-8,0-2-0]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.18	15-16	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.35	15-16	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.09	11	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.12	15	>999	240	Weight: 280 lb	FT = 5%

LUMBER-	BRACING-	[MCT]
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins.	
BOT CHORD 2x4 SP No.2D	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:	
WEBS 2x4 SP No.3 or 2x4 SPF Stud	6-0-0 oc bracing: 1-19,18-19.	
SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0, Right 2x4 SP or SPF No.3 or Stud 2-6-0	WEBS 1 Row at midpt 7-16, 8-15, 5-16	

REACTIONS. (size) 1=Mechanical, 19=0-3-8, 11=0-3-8
Max Horz 1=209(LC 11)
Max Uplift 1=402(LC 17), 19=340(LC 10), 11=253(LC 11)
Max Grav 1=75(LC 10), 19=2429(LC 1), 11=1692(LC 1)

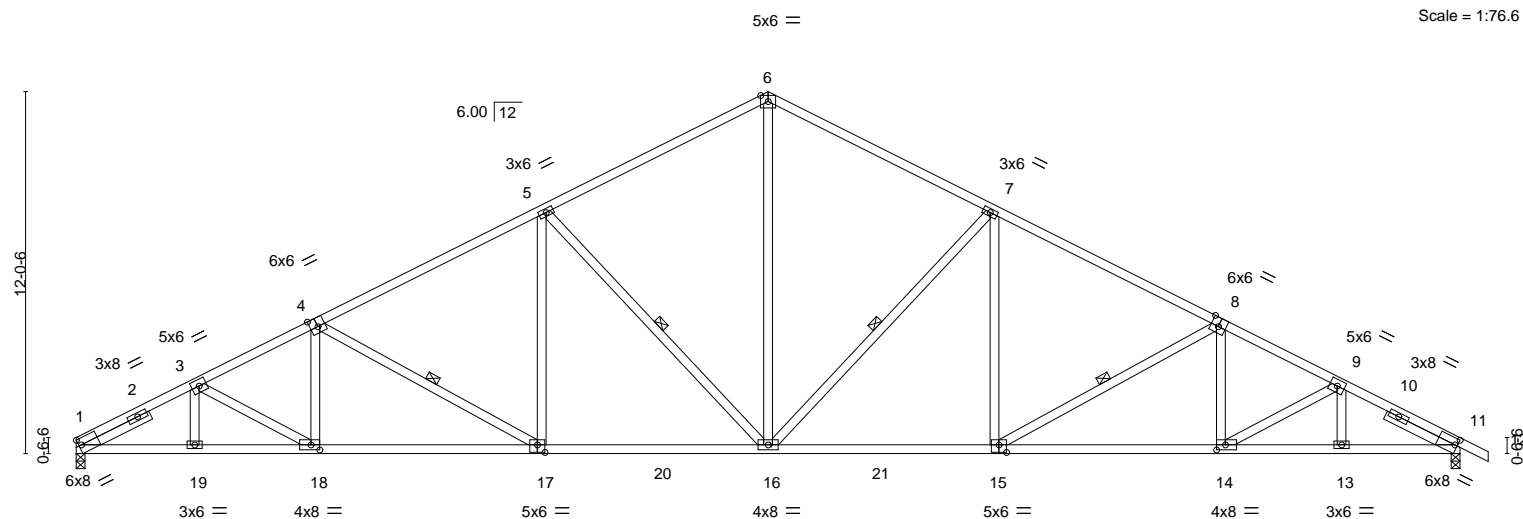
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-205/1075, 3-4=-1216/170, 4-5=-1904/265, 5-6=-1685/342, 6-7=-1685/313, 7-8=-2330/362, 8-9=-2807/413, 9-11=-2941/407
BOT CHORD 1-19=-883/196, 18-19=-883/196, 17-18=-199/1051, 16-17=-171/1621, 15-16=-60/2000, 14-15=-236/2499, 13-14=-286/2489, 11-13=-286/2489
WEBS 6-16=-148/1042, 7-16=-878/299, 7-15=-5/523, 8-15=-581/201, 8-14=0/255, 5-16=-421/223, 4-17=-9/687, 4-18=-951/195, 3-18=-243/2199, 3-19=-2316/370

- NOTES-** (7-9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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, 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 402 lb uplift at joint 1, 340 lb uplift at joint 19 and 253 lb uplift at joint 11.
 - Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
 - Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
 - Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.

Job	Truss	Truss Type	Qty	Ply	10_Southeast	I50924401
ORDERS	SE-18619- Cond4	COMN	1	1	Job Reference (optional)	

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 22 15:22:14 2022 Page 1

30-6-5	38-0-10	42-0-12	46-0-0	46-11
7-6-5	7-6-5	4-0-2	3-11-4	0-11



	3-11-4	7-9-10	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0	
	3-11-4	3-10-6	0-11-2	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4	
Plate Offsets (X,Y)--	[1:Edge,0-2-10], [4:0-3-0,Edge], [8:0-3-0,Edge], [11:0-1-0,0-2-10], [14:0-3-8,0-2-0], [15:0-3-0,0-3-0], [17:0-3-0,0-3-0], [18:0-3-8,0-2-0]									
LOADING (psf)	SPACING 2-0-0			CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15			TC 0.94		Vert(LL) -0.24 16-17 >999 360			MT20	197/144
TCDL 10.0	Lumber DOL 1.15			BC 0.83		Vert(CT) -0.48 16-17 >999 240				
BCLL 0.0 *	Rep Stress Incr YES			WB 0.61		Horz(CT) 0.18 11 n/a n/a				
BCDL 10.0	Code IBC2021/TPI2014			Matrix-S		Wind(LL) 0.18 16-17 >999 240			Weight: 280 lb	FT = 5%

LUMBER-		BRACING-		[MCT]
TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.	
BOT CHORD	2x4 SP No.2D	BOT CHORD	Rigid ceiling directly applied or 8-9-6 oc bracing.	
WEBS	2x4 SP No.3 or 2x4 SPF Stud	WEBS	1 Row at midpt	7-16, 8-15, 5-16, 4-17
SLIDER	Left 2x4 SP or SPF No.3 or Stud 2-6-0, Right 2x4 SP or SPF No.3 or Stud 2-6-0			

REACTIONS. (size) 1=0-3-8, 11=0-3-8
 Max Horz 1=209(LC 15)
 Max Uplift 1=235(LC 10), 11=259(LC 11)
 Max Grav 1=1828(LC 1), 11=1894(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-3348/424, 3-4=-3232/430, 4-5=-2767/377, 5-6=-2126/356, 6-7=-2126/356,
7-8=-2765/376, 8-9=-3226/427, 9-11=-3334/420
BOT CHORD 1-19=-508/2844, 18-19=-508/2844, 17-18=-456/2861, 16-17=-279/2391, 15-16=-105/2389,
14-15=-248/2876, 13-14=-298/2828, 11-13=-298/2829
WEBS 6-16=-162/1416, 7-16=-872/299, 7-15=-4/517, 8-15=-571/200, 5-16=-874/299,
5-17=-5/518, 4-17=-576/202

NOTES- (6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 1 and 259 lb uplift at joint 11.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.

Job ORDERS	Truss SE-18620- Cond1	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49194697
Job Reference (optional)						

NVR, Frederick, MD - 21703,

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ID:JkAtAdo3eV1PB_YPPXGKuzpt0s-krOoLdDTZORyUXMZzQkheAXQL0piH1UspZrTkWyAa5p

0-11-4	3-11-4	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0	46-11-4
0-11-4	3-11-4	4-0-2	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4	0-11-4

Scale = 1:79.6

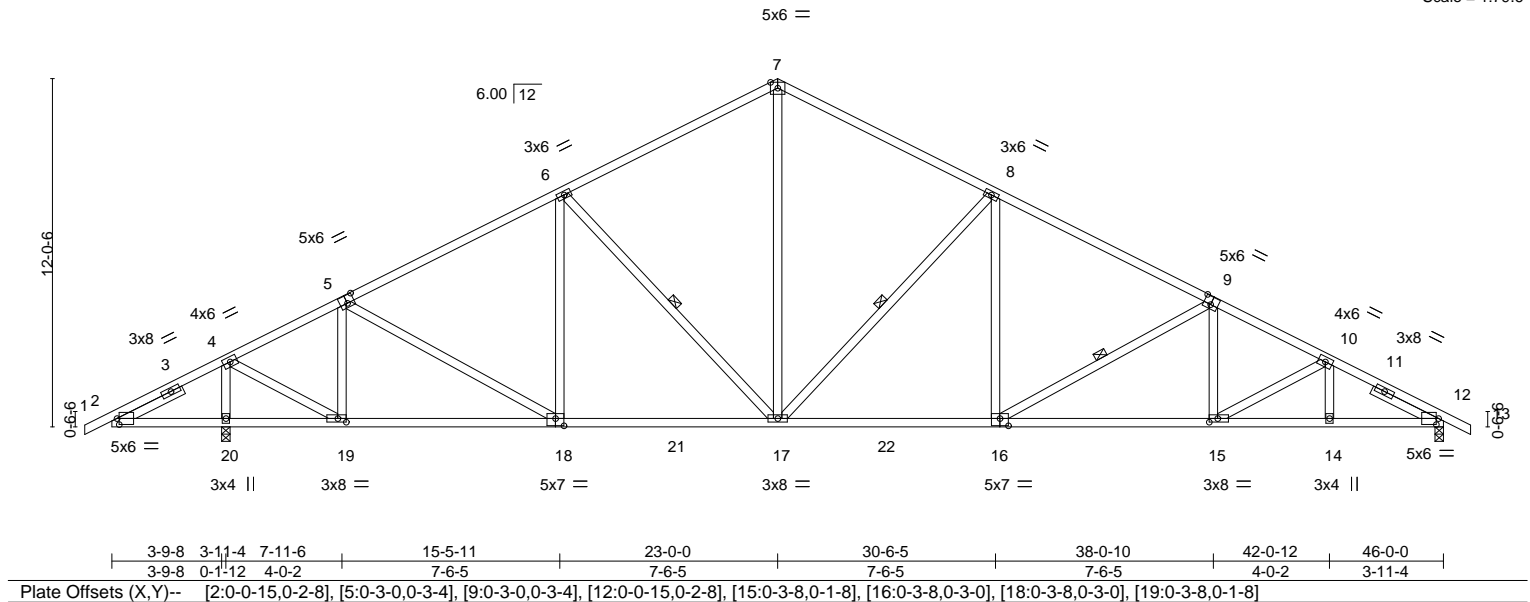


Plate Offsets (X,Y)--		[2:0-0-15,0-2-8], [5:0-3-0,0-3-4], [9:0-3-0,0-3-4], [12:0-0-15,0-2-8], [15:0-3-8,0-1-8], [16:0-3-8,0-3-0], [18:0-3-8,0-3-0], [19:0-3-8,0-1-8]									
LOADING (psf)	SPACING	2-0-0	CSI		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.78		Vert(LL)	-0.20 16-17	>999	360	MT20	197/144	
TCDL 10.0	Lumber DOL	1.15	BC 0.85		Vert(CT)	-0.38 16-17	>999	240			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81		Horz(CT)	0.12 12	n/a	n/a			
BCDL 10.0	Code IBC2021/TPI2014		Matrix-S		Wind(LL)	0.13 16	>999	240			
									Weight: 282 lb	FT = 5%	

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3 or 2x4 SPF Stud
 SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,
 Right 2x4 SP or SPF No.3 or Stud 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 2-20,19-20.
 WEBS 1 Row at midpt 8-17, 9-16, 6-17

[MCT]

REACTIONS.

(size) 20=0-3-8, 12=0-3-8
 Max Horz 20=-205(LC 15)
 Max Uplift 20=-282(LC 10), 12=-251(LC 11)
 Max Grav 20=2068(LC 1), 12=1722(LC 1)

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

TOP CHORD 2-4=-105/443, 4-5=-1516/192, 5-6=-2032/276, 6-7=-1750/337, 7-8=-1750/309,
 8-9=-2394/357, 9-10=-2869/409, 10-12=-3000/403
 BOT CHORD 2-20=-337/135, 19-20=-337/235, 18-19=-241/1341, 17-18=-189/1735, 16-17=-59/2058,
 15-16=-232/2554, 14-15=-283/2539, 12-14=-283/2539
 WEBS 7-17=-144/1104, 8-17=-877/299, 8-16=-5/522, 9-16=-578/201, 9-15=0/252,
 6-17=-465/235, 5-18=-22/498, 5-19=-794/171, 4-19=-194/1885, 4-20=-1971/314

NOTES- (6-8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 282 lb uplift at joint 20 and 251 lb uplift at joint 12.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



January 12,2022

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job ORDERS	Truss SE-18620- Cond2	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49194697
Job Reference (optional)						

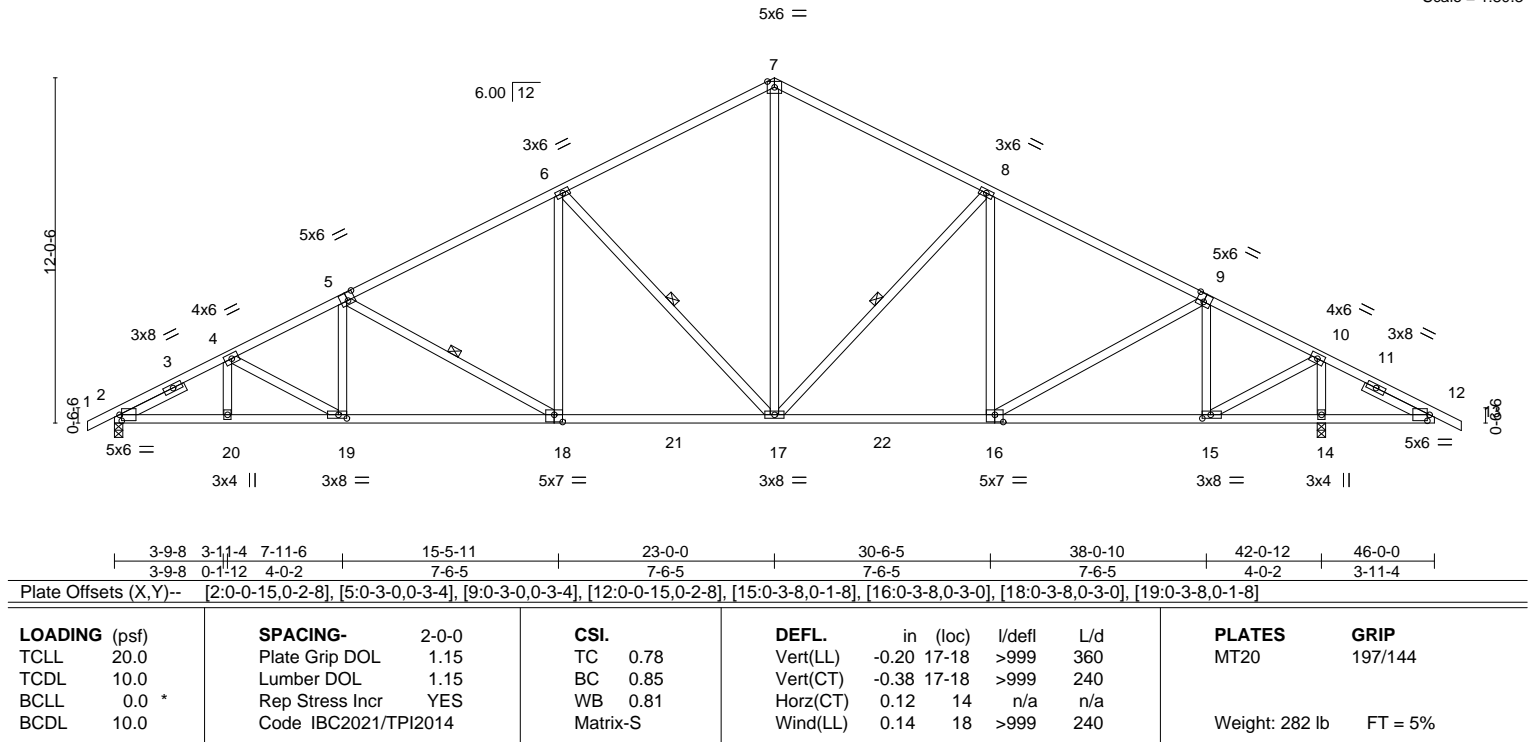
NVR, Frederick, MD - 21703,

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ID: iJkAtAdo3eV1PB_YPPXGKuzpt0s-krOoLdDTZ0RYuXMZzQkheAXQ00phH1VspZrTkWyAa5p

-0-11-4	3-11-4	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0	46-11-4
0-11-4	3-11-4	4-0-2	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4	0-11-4

Scale = 1:80.3



LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3 or 2x4 SPF Stud
 SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,
 Right 2x4 SP or SPF No.3 or Stud 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 8-17, 6-17, 5-18

[MCT]

REACTIONS.

(size) 2=0-3-8, 14=0-3-8
 Max Horz 2=205(LC 15)
 Max Uplift 2=251(LC 10), 14=282(LC 11)
 Max Grav 2=1722(LC 1), 14=2068(LC 1)

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

TOP CHORD 2-4=-2999/401, 4-5=-2870/409, 5-6=-2395/357, 6-7=-1750/309, 7-8=-1750/337,
 8-9=-2031/276, 9-10=-1515/192, 10-12=-104/443
 BOT CHORD 2-20=-486/2539, 19-20=-486/2539, 18-19=-437/2557, 17-18=-262/2058, 16-17=-71/1735,
 15-16=-53/1323, 14-15=-337/134, 12-14=-337/134
 WEBS 7-17=-145/1104, 8-17=-465/235, 9-16=-21/494, 9-15=-793/170, 10-15=-192/1883,
 10-14=-1971/314, 6-17=-877/299, 6-18=-4/522, 5-18=-580/201, 5-19=0/252

NOTES- (6-8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 2 and 282 lb uplift at joint 14.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.

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

ENGINEERING BY
TRENCO
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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	10_Southeast	149194698
ORDERS	SE-18621	COMN	1	1	Job Reference (optional)	

NVR. Frederick, MD - 21703.

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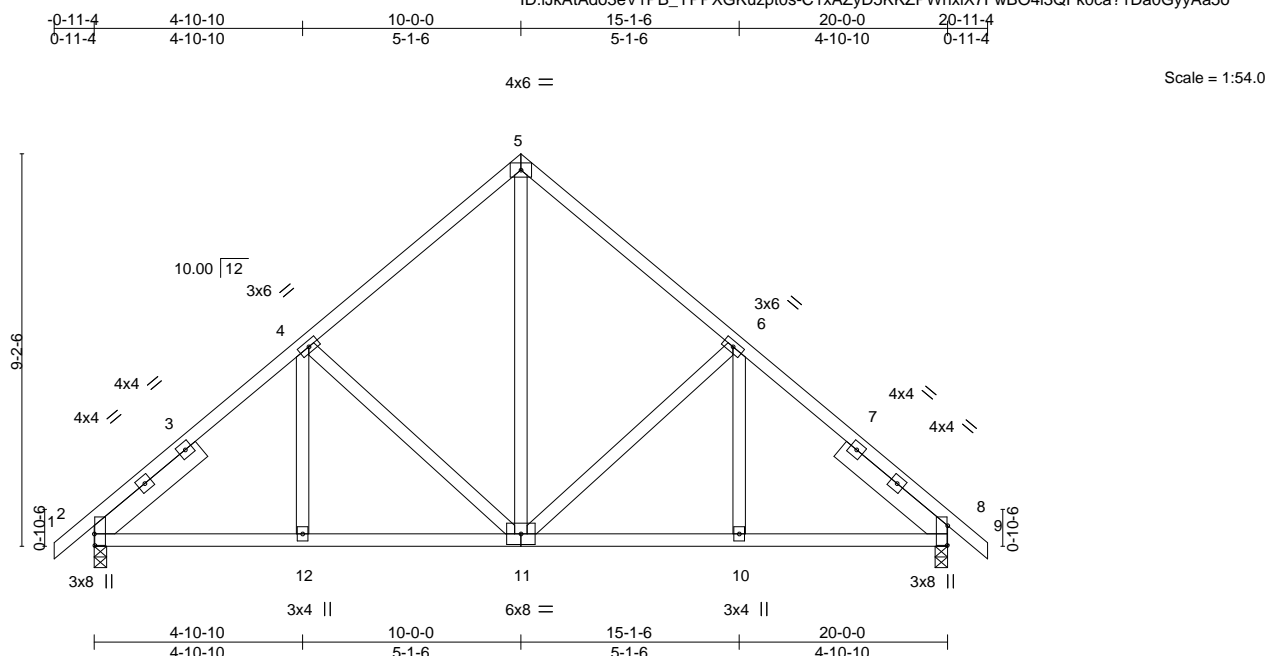


Plate Offsets (X,Y)-- [2:0-3-4,0-0-2], [8:0-5-9,0-0-2]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.02	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.06	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code IBC2021/TPI2014		Matrix-S		Wind(LL)	0.02	11	>999	240	Weight: 133 lb	FT = 5%

LUMBER-

TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD	2x4 SP No.3 or 2x4 SPF Stud
WEBS	2x4 SP No.3 or 2x4 SPF Stud
SLIDER	Left 2x6 SP No.2 3-2-8. Right 2x6 SP No.2 3-2-8

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=0-3-8, 8=0-3-8
Max Horz 2=-232(LC 8)
Max Uplift 2=-102(LC 10), 8=-102(LC 11)
Max Grav 2=856(LC 1), 8=856(LC 1)

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

TOP CHORD 2-4=-983/123, 4-5=-702/192, 5-6=-702/192, 6-8=-982/122
BOT CHORD 2-12=-125/736, 11-12=-125/736, 10-11=-19/664, 8-10=-19/664
WEBS 5-11=-112/482, 4-11=-323/201, 6-11=-324/202

NOTES- (6-8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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 102 lb uplift at joint 2 and 102 lb uplift at joint 8.
- 6) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 7) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 8) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



January 12, 2022



WARNING – Velly design parameters are listed below and included with the key reference to AISC M14-15 16f, 17f, 18f, 19f, 20f, 21f, 22f, 23f, 24f, 25f, 26f, 27f, 28f, 29f, 30f, 31f, 32f, 33f, 34f, 35f, 36f, 37f, 38f, 39f, 40f, 41f, 42f, 43f, 44f, 45f, 46f, 47f, 48f, 49f, 50f, 51f, 52f, 53f, 54f, 55f, 56f, 57f, 58f, 59f, 60f, 61f, 62f, 63f, 64f, 65f, 66f, 67f, 68f, 69f, 70f, 71f, 72f, 73f, 74f, 75f, 76f, 77f, 78f, 79f, 80f, 81f, 82f, 83f, 84f, 85f, 86f, 87f, 88f, 89f, 90f, 91f, 92f, 93f, 94f, 95f, 96f, 97f, 98f, 99f, 100f, 101f, 102f, 103f, 104f, 105f, 106f, 107f, 108f, 109f, 110f, 111f, 112f, 113f, 114f, 115f, 116f, 117f, 118f, 119f, 120f, 121f, 122f, 123f, 124f, 125f, 126f, 127f, 128f, 129f, 130f, 131f, 132f, 133f, 134f, 135f, 136f, 137f, 138f, 139f, 140f, 141f, 142f, 143f, 144f, 145f, 146f, 147f, 148f, 149f, 150f, 151f, 152f, 153f, 154f, 155f, 156f, 157f, 158f, 159f, 160f, 161f, 162f, 163f, 164f, 165f, 166f, 167f, 168f, 169f, 170f, 171f, 172f, 173f, 174f, 175f, 176f, 177f, 178f, 179f, 180f, 181f, 182f, 183f, 184f, 185f, 186f, 187f, 188f, 189f, 190f, 191f, 192f, 193f, 194f, 195f, 196f, 197f, 198f, 199f, 200f, 201f, 202f, 203f, 204f, 205f, 206f, 207f, 208f, 209f, 210f, 211f, 212f, 213f, 214f, 215f, 216f, 217f, 218f, 219f, 220f, 221f, 222f, 223f, 224f, 225f, 226f, 227f, 228f, 229f, 230f, 231f, 232f, 233f, 234f, 235f, 236f, 237f, 238f, 239f, 240f, 241f, 242f, 243f, 244f, 245f, 246f, 247f, 248f, 249f, 250f, 251f, 252f, 253f, 254f, 255f, 256f, 257f, 258f, 259f, 260f, 261f, 262f, 263f, 264f, 265f, 266f, 267f, 268f, 269f, 270f, 271f, 272f, 273f, 274f, 275f, 276f, 277f, 278f, 279f, 280f, 281f, 282f, 283f, 284f, 285f, 286f, 287f, 288f, 289f, 290f, 291f, 292f, 293f, 294f, 295f, 296f, 297f, 298f, 299f, 300f, 301f, 302f, 303f, 304f, 305f, 306f, 307f, 308f, 309f, 310f, 311f, 312f, 313f, 314f, 315f, 316f, 317f, 318f, 319f, 320f, 321f, 322f, 323f, 324f, 325f, 326f, 327f, 328f, 329f, 330f, 331f, 332f, 333f, 334f, 335f, 336f, 337f, 338f, 339f, 340f, 341f, 342f, 343f, 344f, 345f, 346f, 347f, 348f, 349f, 350f, 351f, 352f, 353f, 354f, 355f, 356f, 357f, 358f, 359f, 360f, 361f, 362f, 363f, 364f, 365f, 366f, 367f, 368f, 369f, 370f, 371f, 372f, 373f, 374f, 375f, 376f, 377f, 378f, 379f, 380f, 381f, 382f, 383f, 384f, 385f, 386f, 387f, 388f, 389f, 390f, 391f, 392f, 393f, 394f, 395f, 396f, 397f, 398f, 399f, 400f, 401f, 402f, 403f, 404f, 405f, 406f, 407f, 408f, 409f, 410f, 411f, 412f, 413f, 414f, 415f, 416f, 417f, 418f, 419f, 420f, 421f, 422f, 423f, 424f, 425f, 426f, 427f, 428f, 429f, 430f, 431f, 432f, 433f, 434f, 435f, 436f, 437f, 438f, 439f, 440f, 441f, 442f, 443f, 444f, 445f, 446f, 447f, 448f, 449f, 450f, 451f, 452f, 453f, 454f, 455f, 456f, 457f, 458f, 459f, 460f, 461f, 462f, 463f, 464f, 465f, 466f, 467f, 468f, 469f, 470f, 471f, 472f, 473f, 474f, 475f, 476f, 477f, 478f, 479f, 480f, 481f, 482f, 483f, 484f, 485f, 486f, 487f, 488f, 489f, 490f, 491f, 492f, 493f, 494f, 495f, 496f, 497f, 498f, 499f, 500f, 501f, 502f, 503f, 504f, 505f, 506f, 507f, 508f, 509f, 510f, 511f, 512f, 513f, 514f, 515f, 516f, 517f, 518f, 519f, 520f, 521f, 522f, 523f, 524f, 525f, 526f, 527f, 528f, 529f, 530f, 531f, 532f, 533f, 534f, 535f, 536f, 537f, 538f, 539f, 540f, 541f, 542f, 543f, 544f, 545f, 546f, 547f, 548f, 549f, 550f, 551f, 552f, 553f, 554f, 555f, 556f, 557f, 558f, 559f, 560f, 561f, 562f, 563f, 564f, 565f, 566f, 567f, 568f, 569f, 570f, 571f, 572f, 573f, 574f, 575f, 576f, 577f, 578f, 579f, 580f, 581f, 582f, 583f, 584f, 585f, 586f, 587f, 588f, 589f, 590f, 591f, 592f, 593f, 594f, 595f, 596f, 597f, 598f, 599f, 600f, 601f, 602f, 603f, 604f, 605f, 606f, 607f, 608f, 609f, 610f, 611f, 612f, 613f, 614f, 615f, 616f, 617f, 618f, 619f, 620f, 621f, 622f, 623f, 624f, 625f, 626f, 627f, 628f, 629f, 630f, 631f, 632f, 633f, 634f, 635f, 636f, 637f, 638f, 639f, 640f, 641f, 642f, 643f, 644f, 645f, 646f, 647f, 648f, 649f, 650f, 651f, 652f, 653f, 654f, 655f, 656f, 657f, 658f, 659f, 660f, 661f, 662f, 663f, 664f, 665f, 666f, 667f, 668f, 669f, 670f, 671f, 672f, 673f, 674f, 675f, 676f, 677f, 678f, 679f, 680f, 681f, 682f, 683f, 684f, 685f, 686f, 687f, 688f, 689f, 690f, 691f, 692f, 693f, 694f, 695f, 696f, 697f, 698f, 699f, 700f, 701f, 702f, 703f, 704f, 705f, 706f, 707f,

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

ENGINEERING BY
TRENCO
A MiTek Affiliat

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	10_Southeast
ORDERS	SE-18622	COMN	1	1	
Job Reference (optional)					

I49194699

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0-11-4 10-0-0 20-0-0 20-11-4
0-11-4 10-0-0 10-0-0 0-11-4

4x6 =

Scale = 1:57.3

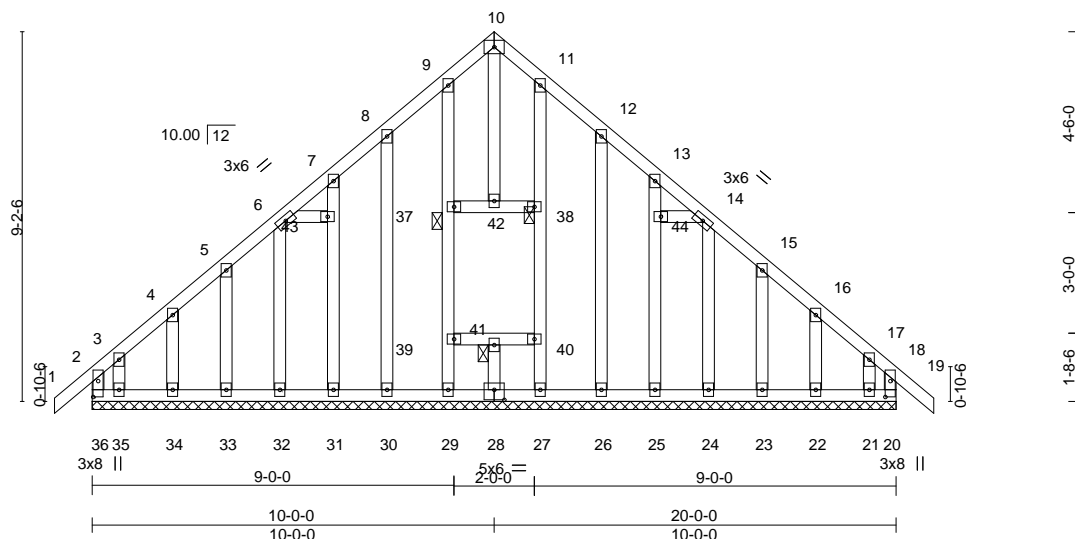


Plate Offsets (X,Y)-- [20:0-4-12,0-1-8], [28:0-3-0,0-3-0], [36:0-4-12,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.00	19	n/r	120		MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.00	19	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.01	20	n/a	n/a			
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S						Weight: 178 lb	FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud
WEBS 2x4 SP No.3 or 2x4 SPF Stud
OTHERS 2x4 SP No.3 or 2x4 SPF Stud

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.
JOINTS 1 Brace at Jt(s): 37, 38, 41

REACTIONS.

All bearings 20-0-0.

(lb) - Max Horz 36=-232(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 30, 31, 32, 33, 34, 26, 25, 24, 23, 22 except 36=-201(LC 8), 20=-134(LC 9), 35=-304(LC 10), 21=-275(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 29, 27, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21, 28 except 36=380(LC 10), 20=335(LC 11)

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

TOP CHORD 2-3=-309/194, 17-18=-274/142

NOTES- (11-13)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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 3x4 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) 30, 31, 32, 33, 34, 26, 25, 24, 23, 22 except (jt=lb) 36=201, 20=134, 35=304, 21=275.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



January 12, 2022

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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

ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	10_Southeast	I49194700
ORDERS	SE-18623	COMN	1	1	Job Reference (optional)	

8.530 s Dec: 6 2021 MiTek Industries, Inc. Thu Dec: 9 21:29:19 2021 Page 1

Scale = 1:79.2

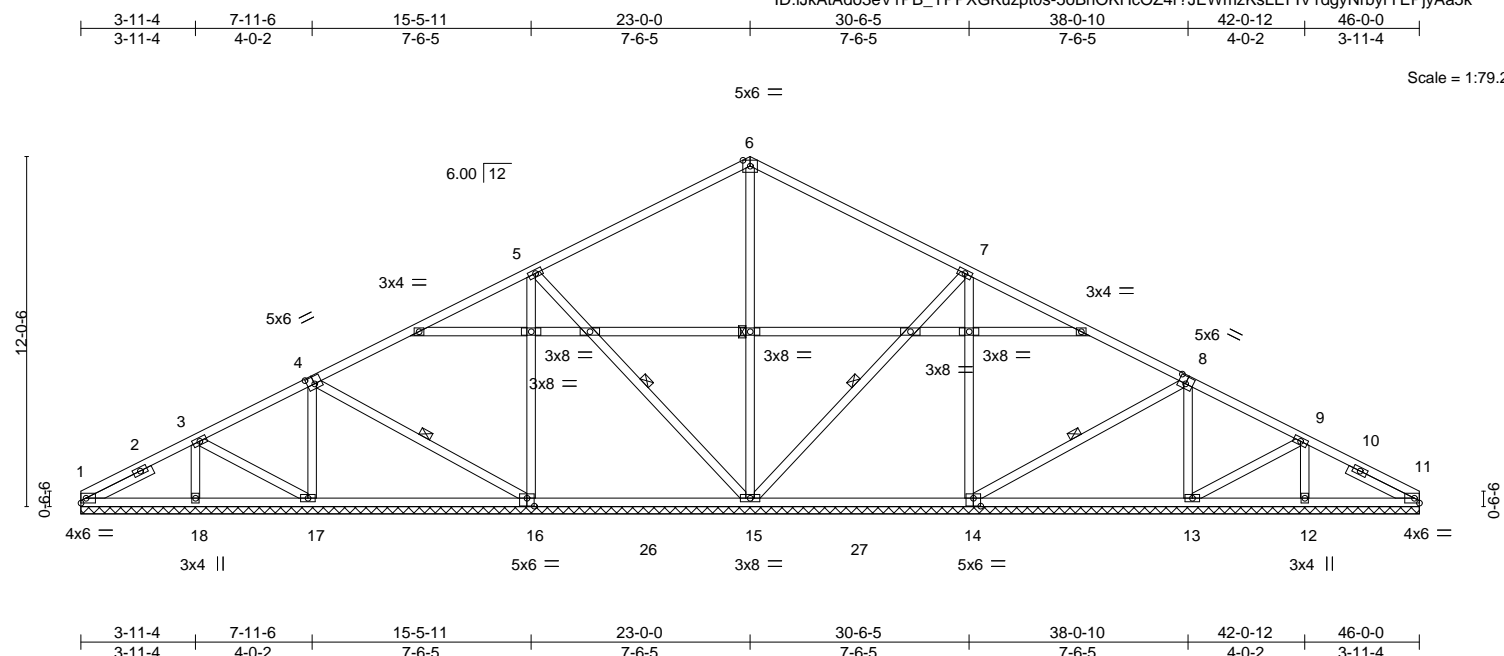


Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [8:0-3-0,0-3-0], [14:0-3-0,0-3-4], [16:0-3-0,0-3-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IBC2021/TPI2014		Matrix-S							Weight: 312 lb	FT = 5%

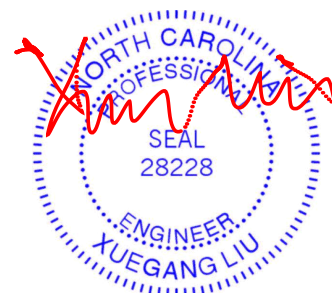
TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2
WEBS	2x4 SP No.3 or 2x4 SPF Stud
SLIDER	Left 2x4 SP or SPF No.3 or Stud 2-6-0, Right 2x4 SP or SPF No.3 or Stud 2-6-0

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.
WEBS	1 Row at midpt 6-15. 7-15. 8-14. 5-15. 4-16

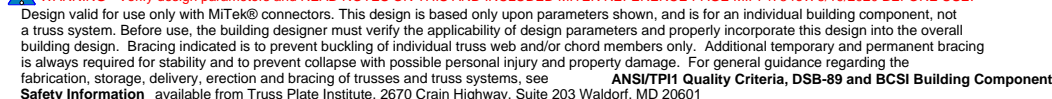
(lb) - Max Horz 1=201(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 14, 13, 12, 18, 11 except 16=106(LC 10), 15=118(LC 10), 17=105(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=562(LC 25), 15=744(LC 1), 14=562(LC 26), 13=476(LC 1), 12=271(LC 24), 17=476(LC 1), 18=271(LC 23)

WEBS 6-15=-412/50. 7-14=-369/134. 8-13=-346/124. 5-16=-369/160. 4-17=-346/152

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; $V_{ult}=130\text{mph}$ (3-second gust) $V_{asd}=103\text{mph}$; $TCDL=6.0\text{psf}$; $BCDL=6.0\text{psf}$; $h=33\text{ft}$; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with $BCDL = 10.0\text{psf}$.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 13, 12, 18, 11 except (jt=lb) 16=106, 15=118, 17=105.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- 10) Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.
- 11) Framing and bracing of the gable end frame shall be provided by the building designer.



January 12, 2022



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Edenton, NC 27932

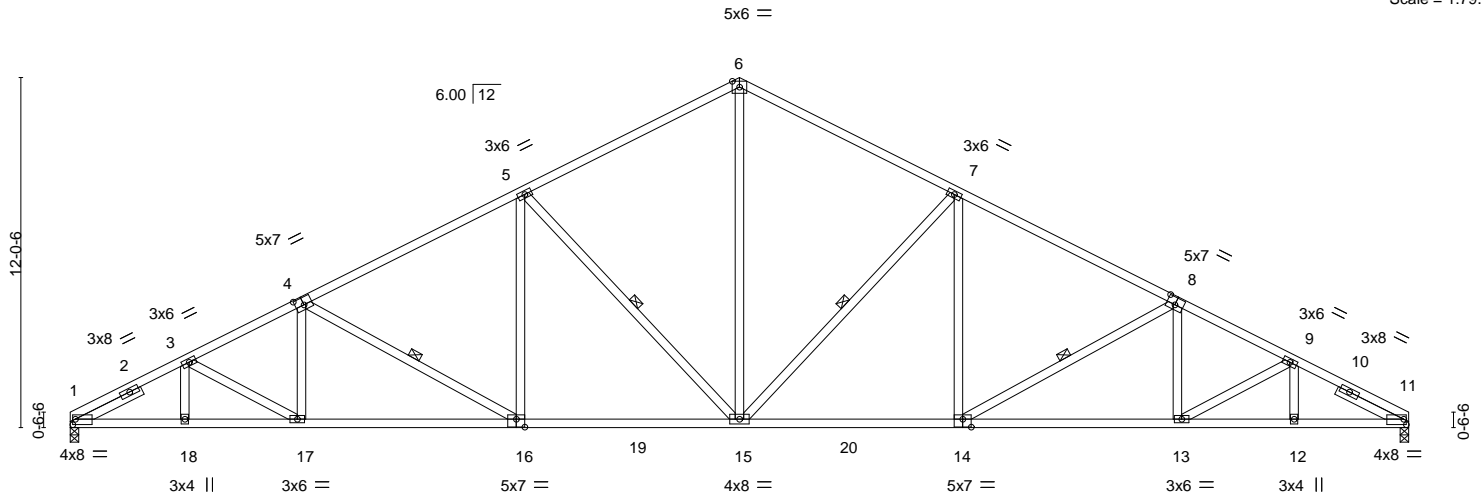
Job ORDERS	Truss SE-18624	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49194701
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:20 2021 Page 1
ID:UkAtAdo3eV1PB_YPPXGKuzpt0s-Z_I3cgHE8sCicTpiJgr5uRnQFRr4ho6kBVInyAyAa5j

3-11-4	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0
3-11-4	4-0-2	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4

Scale = 1:79.2



	3-11-4	7-11-6	15-5-11	23-0-0	30-6-5	38-0-10	42-0-12	46-0-0			
	3-11-4	4-0-2	7-6-5	7-6-5	7-6-5	7-6-5	4-0-2	3-11-4			
Plate Offsets (X,Y)-- [1:0-1-1,0-2-4], [4:0-3-8,0-3-0], [8:0-3-8,0-3-0], [11:0-1-1,0-2-4], [14:0-3-8,0-3-4], [16:0-3-8,0-3-4]											
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	0.94	Vert(LL)	-0.26 14-15 >999	360	MT20	197/144
	TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.52 14-15 >999	240		
	BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.20 11 n/a	n/a		
	BCDL	10.0	Code IBC2021/TPI2014		Matrix-S		Wind(LL)	0.19 15-16 >999	240	Weight: 279 lb	FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3 or 2x4 SPF Stud
SLIDER Left 2x4 SP or SPF No.3 or Stud 2-6-0,
Right 2x4 SP or SPF No.3 or Stud 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 8-2-5 oc bracing.
WEBS 1 Row at midpt 7-15, 8-14, 5-15, 4-16

REACTIONS.

(size) 1=0-3-8, 11=0-3-8
Max Horz 1=201(LC 15)
Max Uplift 1=235(LC 10), 11=235(LC 11)
Max Grav 1=1828(LC 1), 11=1828(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-3350/424, 3-4=-3234/430, 4-5=-2769/377, 5-6=-2127/357, 6-7=-2127/357,
7-8=-2769/377, 8-9=-3233/430, 9-11=-3351/425
BOT CHORD 1-18=-512/2845, 17-18=-512/2845, 16-17=-460/2883, 15-16=-284/2392, 14-15=-109/2392,
13-14=-259/2882, 12-13=-312/2846, 11-12=-312/2846
WEBS 6-15=-162/1417, 7-15=-874/299, 7-14=-5/518, 8-14=-575/202, 5-15=-874/299,
5-16=-5/518, 4-16=-576/202

NOTES- (6-8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=235, 11=235.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



January 12, 2022

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818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-18625	Truss Type COMN	Qty 1	Ply 1	10_Southeast	149194702
Job Reference (optional)						

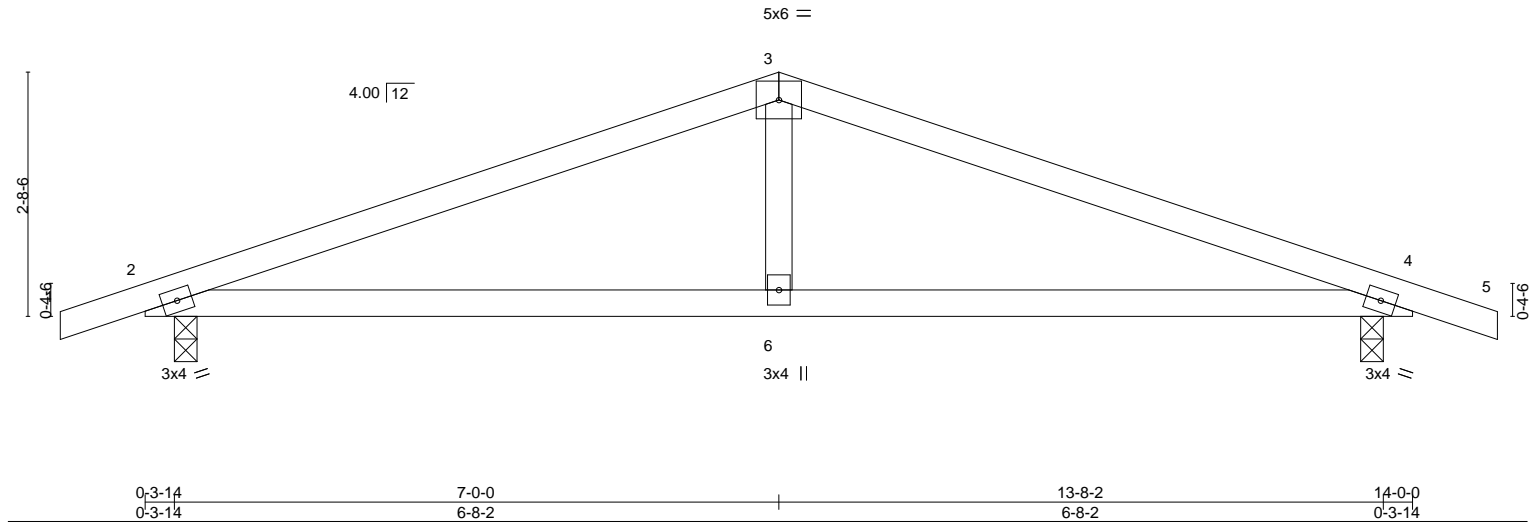
NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:21 2021 Page 1

ID:JkAtAdo3eV1PB_YPXGKuzpt0s-1BJRp0IsvAKZEcOvtOMKQfKdrqHfQMquQ91LUcyAa5i

-0-11-4	7-0-0	14-0-0	14-11-4
0-11-4	7-0-0	7-0-0	0-11-4

Scale = 1:25.5



0-3-14	7-0-0	13-8-2	14-0-0
0-3-14	6-8-2	6-8-2	0-3-14

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.06	2-6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.14	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.02	4	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.05	2-6	>999	240	Weight: 49 lb	FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3 or 2x4 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-0, 4=0-3-0
Max Horz 2=45(LC 11)
Max Uplift 2=129(LC 6), 4=129(LC 7)
Max Grav 2=614(LC 1), 4=614(LC 1)

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

TOP CHORD 2-3=-1018/122, 3-4=-1018/121
BOT CHORD 2-6=-65/899, 4-6=-65/899
WEBS 3-6=0/332

NOTES- (6-8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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) 2=129, 4=129.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
- Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



January 12, 2022

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

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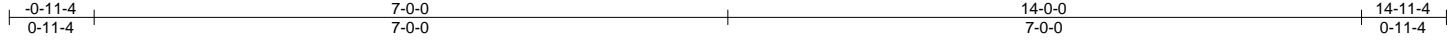
818 Soundside Road
Edenton, NC 27932

Job ORDERS	Truss SE-18626	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49194703
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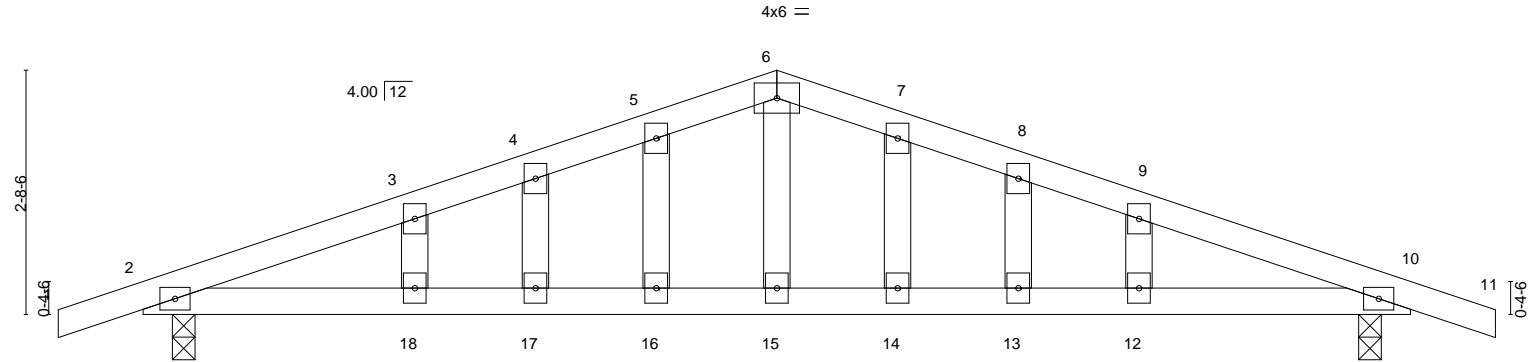
NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 9 21:29:22 2021 Page 1

ID:JkAtAdo3eV1PB_YPXGKuzpt0s-VNsp1MJUgUSPsmz5R5tZzspLEaE9oW1epnu02yAa5h



Scale = 1:25.5



0-3-14 0-3-14	7-0-0 6-8-2	13-8-2 6-8-2	14-0-0 0-3-14
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.11 12-13 >999 360
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.18 12-13 >916 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.02 10 n/a n/a
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.10 17-18 >999 240
			PLATES MT20
			GRIP 197/144
			Weight: 60 lb FT = 5%

LUMBER-
TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3 or 2x4 SPF Stud
OTHERS 2x4 SP No.3 or 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 10=0-3-0
Max Horz 2=45(LC 15)
Max Uplift 2=129(LC 6), 10=129(LC 7)
Max Grav 2=614(LC 1), 10=614(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1034/115, 3-4=-985/132, 4-5=-967/141, 5-6=-965/155, 6-7=-965/155,
7-8=-967/140, 8-9=-985/132, 9-10=-1034/114
BOT CHORD 2-18=-81/928, 17-18=-81/928, 16-17=-81/928, 15-16=-81/928, 14-15=-81/928,
13-14=-81/928, 12-13=-81/928, 10-12=-81/928
WEBS 6-15=-46/390

- NOTES-** (9-11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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 3x4 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 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) 2=129, 10=129.
 - Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
 - Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.
 - Metal hangers, of any seat size, can be used in place of wood bearing, of any seat size, provided the hanger has been sized for the required maximum reaction.



January 12, 2022

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

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-95514	VCOM	1	1	Job Reference (optional)

I47779325

NVR, Frederick, MD - 21703,

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:18 2021 Page 1

ID:k1_gI8vEn3N?Iqk4KcCp_5yUXze-hOinwQjQAsOHhXPr?zpUUs1WiV2g2eqESiFOcXygS2?

0-11-4 7-0-0 14-0-0 14-11-4
0-11-4 7-0-0 7-0-0 0-11-4

4x6 =

Scale = 1:44.2

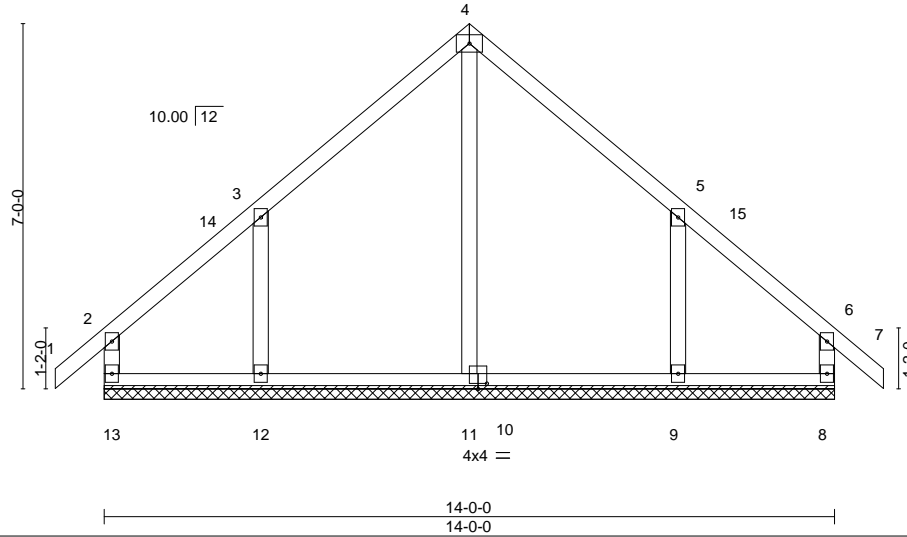


Plate Offsets (X,Y)-- [10:0-2-0,0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.00	6	n/r	120	MT20
(Roof Snow=30.0)	Lumber DOL	1.15	BC 0.20	Vert(CT)	0.00	6	n/r	120	197/144
TCDL 10.0	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.00	8	n/a	n/a	
BCLL 0.0	Code IBC2021/TPI2014		Matrix-R						
BCDL 10.0									
								Weight: 73 lb	FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud
BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud
WEBS 2x4 SP No.3 or 2x4 SPF Stud
OTHERS 2x4 SP No.3 or 2x4 SPF Stud

REACTIONS.

All bearings 14-0-0.

(lb) - Max Horz 13=-224(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 13=-124(LC 13), 12=-305(LC 12), 9=-301(LC 13),

8=-115(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 13, 8 except 11=409(LC 20), 12=555(LC 19), 9=555(LC 20)

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

TOP CHORD 3-4=-200/264, 4-5=-200/255

WEBS 4-11=-325/27, 3-12=-487/328, 5-9=-487/326

NOTES- (9-10)

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are 3x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 13, 305 lb uplift at joint 12, 301 lb uplift at joint 9 and 115 lb uplift at joint 8.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.



September 16, 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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-95515	VCOM	1	1	Job Reference (optional)

I47779326

NVR, Frederick, MD - 21703,

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:19 2021 Page 1

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0-11-4 7-0-0 7-0-1 0-11-4

4x6 =

Scale = 1:50.1

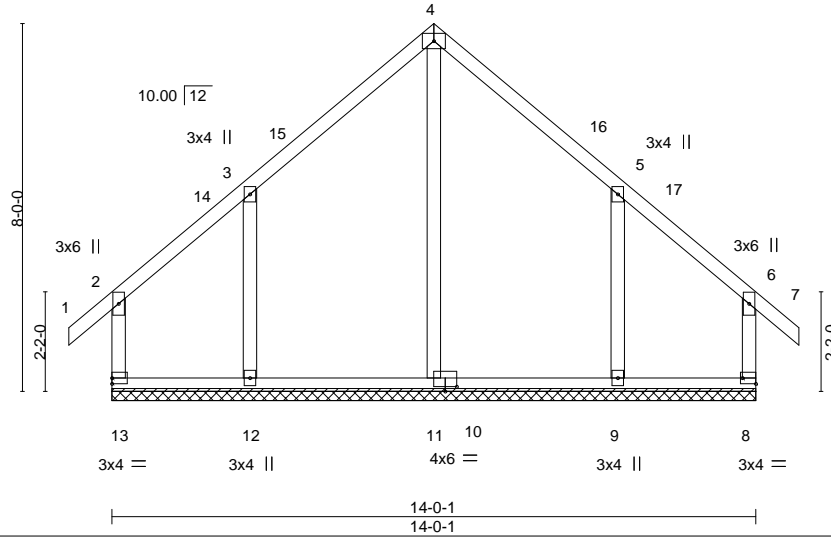


Plate Offsets (X,Y)-- [8:Edge,0-1-8], [10:0-3-0,0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	0.00	6	n/r	MT20	197/144
(Roof Snow=30.0)	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.00	6	n/r		
TCDL 10.0	Rep Stress Incr	YES	WB 0.40	Horz(CT)	-0.00	8	n/a		
BCLL 0.0	Code IBC2021/TPI2014		Matrix-R						
BCDL 10.0								Weight: 81 lb	FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud
 BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud
 WEBS 2x4 SP No.3 or 2x4 SPF Stud
 OTHERS 2x4 SP No.3 or 2x4 SPF Stud

BRACING-

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

REACTIONS.

All bearings 14-0-1.

(lb) - Max Horz 13=-320(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 13=-171(LC 8), 12=-312(LC 12), 8=-165(LC 9), 9=-312(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 13=281(LC 23), 11=415(LC 20), 12=557(LC 19), 8=277(LC 22), 9=557(LC 20)

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

TOP CHORD 3-4=-241/409, 4-5=-241/409

WEBS 4-11=-332/79, 3-12=-486/332, 5-9=-486/332

NOTES- (8-9)

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-7-15 to 4-7-15, Interior(1) 4-7-15 to 6-7-3, Exterior(2R) 6-7-3 to 12-7-3, Interior(1) 12-7-3 to 14-6-8, Exterior(2E) 14-6-8 to 17-6-8 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
- 2) TCCL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 13, 312 lb uplift at joint 12, 165 lb uplift at joint 8 and 312 lb uplift at joint 9.
- 8) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.



September 16, 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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-95516	VCOM	1	1	Job Reference (optional)

I47779327

NVR, Frederick, MD - 21703,

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Sep 6 05:29:21 2021 Page 1

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4x6 =

Scale = 1:54.5

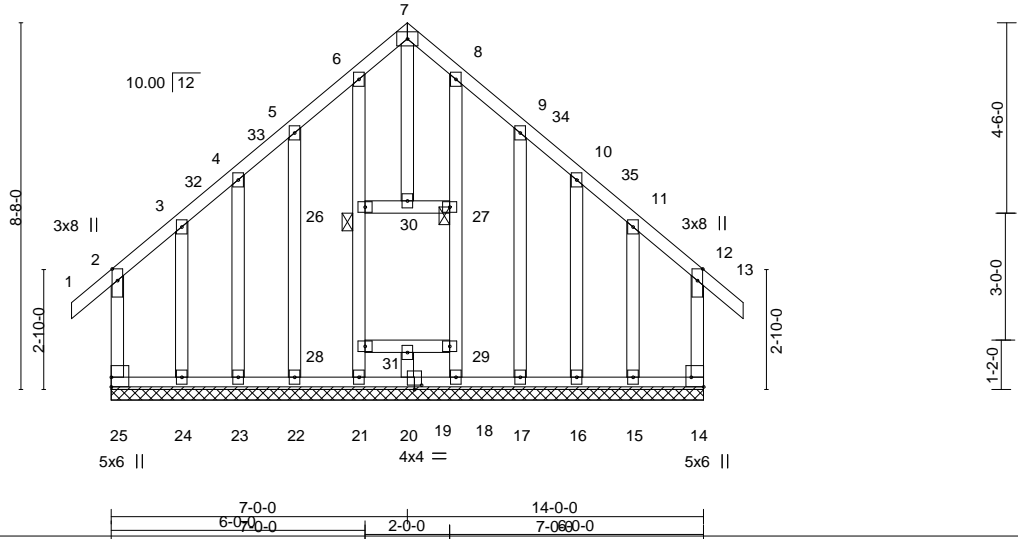


Plate Offsets (X,Y)-- [14:Edge,0-3-8], [19:0-2-0,0-1-4], [25:Edge,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.15		TC 0.67	Vert(LL)	0.00	12	n/r	MT20	197/144
(Roof Snow=30.0)	Lumber DOL 1.15		BC 0.57	Vert(CT)	-0.00	12	n/r		
TCDL 10.0	Rep Stress Incr YES		WB 0.48	Horz(CT)	-0.00	14	n/a		
BCLL 0.0	Code IBC2021/TPI2014		Matrix-S						
BCDL 10.0								Weight: 136 lb	FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud
 BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud
 WEBS 2x4 SP No.3 or 2x4 SPF Stud
 OTHERS 2x4 SP No.3 or 2x4 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 26, 27

REACTIONS.

All bearings 14-0-0.

(lb) - Max Horz 25=-353(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 23, 16 except 25=-361(LC 8), 22=-141(LC 12), 14=-354(LC 9),

24=-412(LC 9), 17=-141(LC 13), 15=-405(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 22, 23, 17, 16, 20 except 25=410(LC 23), 21=265(LC 19),

18=265(LC 20), 14=404(LC 22), 24=497(LC 10), 15=490(LC 11)

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

TOP CHORD 3-4=-130/260, 4-5=-170/329, 5-6=-241/454, 6-7=-222/405, 7-8=-222/405, 8-9=-241/454,

9-10=-170/329, 10-11=-130/260, 2-25=-279/238, 12-14=-275/238

WEBS 7-30=-289/137

NOTES- (9-10)

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 2-5-9 to 5-5-9, Interior(1) 5-5-9 to 7-4-13, Exterior(2R) 7-4-13 to 13-4-13, Interior(1) 13-4-13 to 15-4-1, Exterior(2E) 15-4-1 to 18-4-1 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) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are 3x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 16 except (jt=lb) 25=361, 22=141, 14=354, 24=412, 17=141, 15=405.
- 9) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust), wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 115 mph.
- 10) Design checked for ASCE 7-16 ultimate wind speed at 130 mph (3-second gust) meets or exceeds IRC2012 nominal wind speed of 100 mph, wind reaction x 0.78 will adjust wind uplift reaction to a wind speed of 90 mph.



September 16, 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

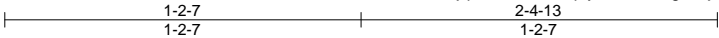
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-01061	VCOM	1	1	162714984
Job Reference (optional)					

NVR, Frederick, MD - 21703,

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:50 2023 Page 1
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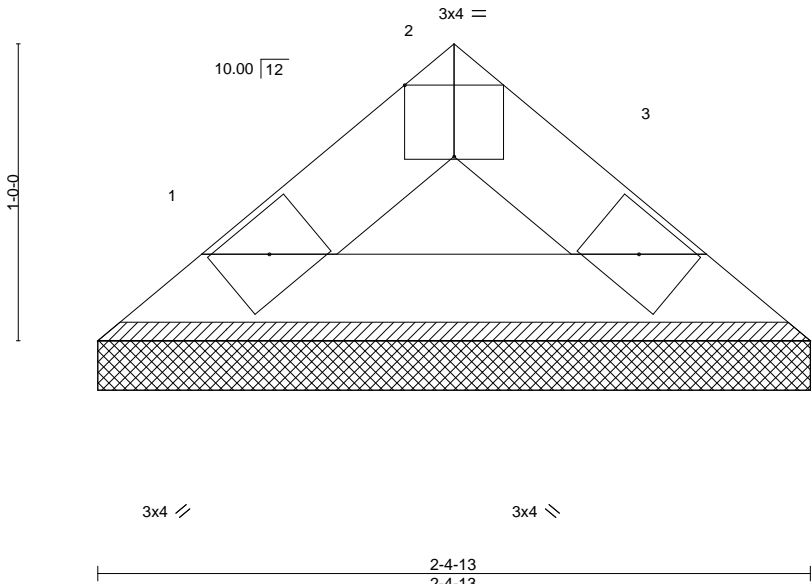


Plate Offsets (X,Y)--		[2:0-2-0,Edge]											
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	30.0	Plate Grip DOL	1.15	TC	0.06	in	(loc)	l/defl	L/d	MT20		197/144	
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.05	n/a	-	n/a	999				
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	n/a	-	n/a	999				
BCLL	0.0	Code IBC2021/TPI2014		Matrix-P		Horz(CT)	0.00	3	n/a				
BCDL	10.0									Weight: 7 lb		FT = 5%	

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud

BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-13 oc purlins.

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

REACTIONS.

(size) 1=2-4-13, 3=2-4-13

Max Horz 1=23(LC 9)

Max Uplift 1=-16(LC 12), 3=-16(LC 13)

Max Grav 1=85(LC 18), 3=85(LC 19)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 27,2023

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-01062	VCOM	1	1	162714985
Job Reference (optional)					

NVR,
Frederick, MD - 21703,
8.530 s Aug 2 2023
MiTek Industries, Inc.
Fri Dec 22 08:12:51 2023
Page 1
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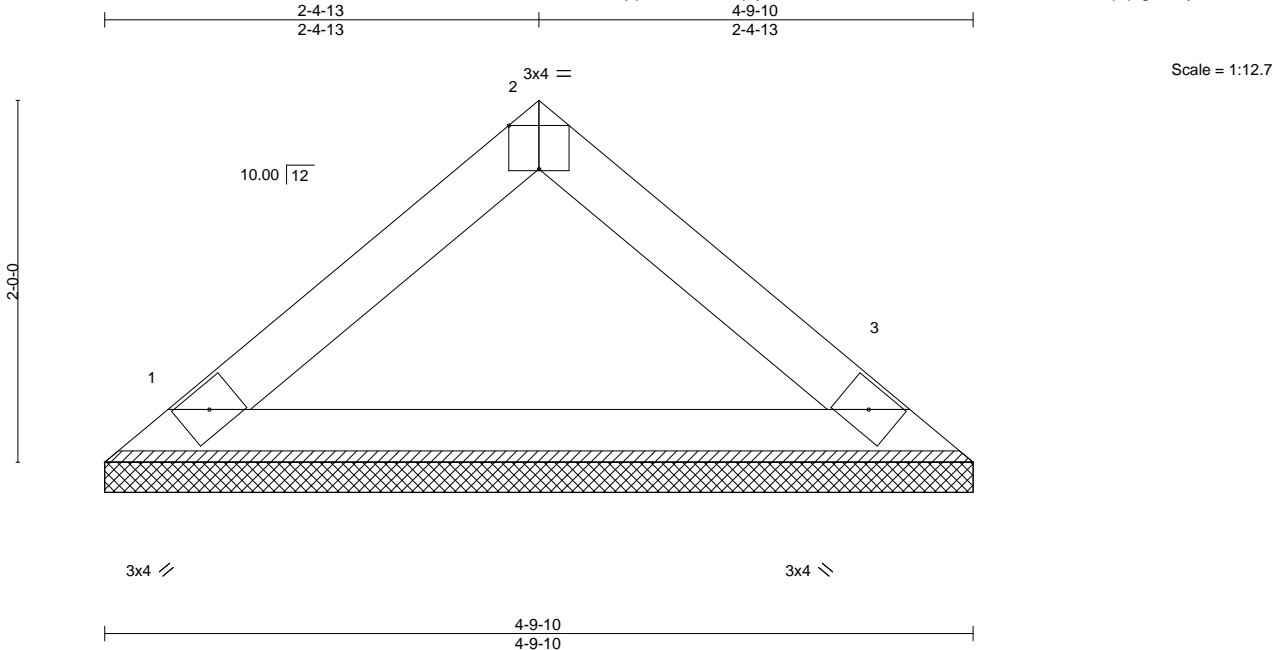


Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)		SPACING-	2-0-0
TCLL 30.0		Plate Grip DOL	1.15
(Roof Snow=30.0)		Lumber DOL	1.15
TCDL 10.0		Rep Stress Incr	YES
BCLL 0.0		Code IBC2021/TPI2014	
BCDL 10.0			
		CSI.	
		TC 0.31	
		BC 0.33	
		WB 0.00	
		Matrix-P	
		DEFL.	
		in (loc)	l/defl L/d
		Vert(LL) n/a - n/a	999
		Vert(CT) n/a - n/a	999
		Horz(CT) 0.00 3 n/a	n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 15 lb	FT = 5%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.3 or 2x4 SPF Stud	TOP CHORD	Structural wood sheathing directly applied or 4-9-10 oc purlins.
BOT CHORD	2x4 SP No.3 or 2x4 SPF Stud	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-9-10, 3=4-9-10
Max Horz 1=57(LC 9)
Max Uplift 1=-40(LC 12), 3=-40(LC 13)
Max Grav 1=232(LC 18), 3=232(LC 19)

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

- NOTES-** (7)
1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



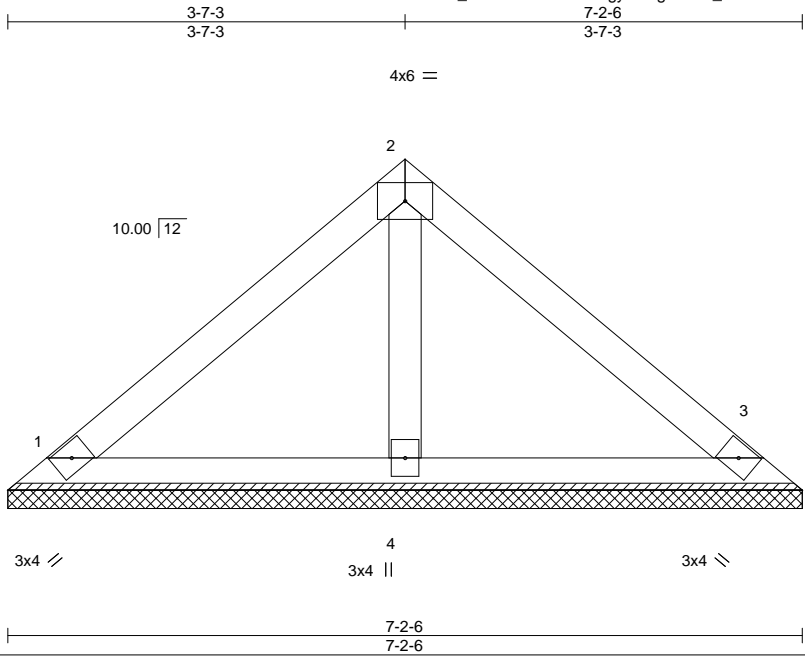
December 27,2023

Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-01063	VCOM	1	1	62714986
Job Reference (optional)					

NVR, Frederick, MD - 21703,

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:51 2023 Page 1

ID:neswtSu_FS7HVVWahDBALvgyUXzg-hMk3_O7LNObtXbwVEXNcNYZf8Ggof1qZgPi4Dy6TYQ



Scale = 1:20.9

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=30.0)	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0	Code IBC2021/TPI2014		Matrix-P						Weight: 27 lb	FT = 5%
BCDL 10.0										

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud
BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud
OTHERS 2x4 SP No.3 or 2x4 SPF Stud

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=7-2-6, 3=7-2-6, 4=7-2-6
Max Horz 1=92(LC 8)
Max Uplift 1=58(LC 13), 3=69(LC 13), 4=13(LC 12)
Max Grav 1=257(LC 18), 3=257(LC 19), 4=271(LC 18)

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

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



December 27,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

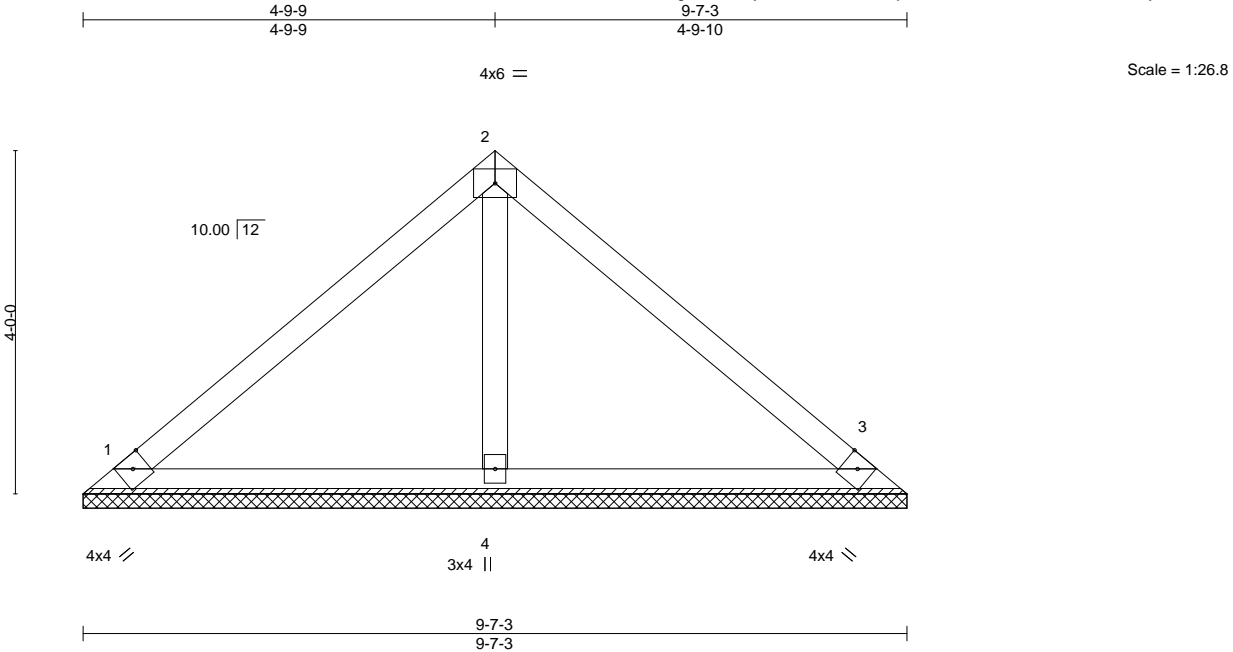
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley	
ORDERS	VT-01064	VCOM	1	1		I62714987
Job Reference (optional)						

NVR, Frederick, MD - 21703,

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:52 2023 Page 1
ID:GrQl5ouc0lF87g9tnuhaStyUXzf-9YlRCk8z8hjkEhA63x2clb5lUYcX5bzoK8Gcfy6TYP



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=30.0)	Lumber DOL	1.15	BC 0.39	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0	Code IBC2021/TPI2014		Matrix-S						Weight: 36 lb	FT = 5%
BCDL 10.0										

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud
OTHERS 2x4 SP No.3 or 2x4 SPF Stud

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=9-7-3, 3=9-7-3, 4=9-7-3
Max Horz 1=-126(LC 8)
Max Uplift 1=-65(LC 13), 3=-81(LC 13), 4=-49(LC 12)
Max Grav 1=355(LC 18), 3=355(LC 19), 4=421(LC 18)

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

TOP CHORD 1-2=-276/155, 2-3=-276/155
WEBS 2-4=-282/207

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



December 27,2023

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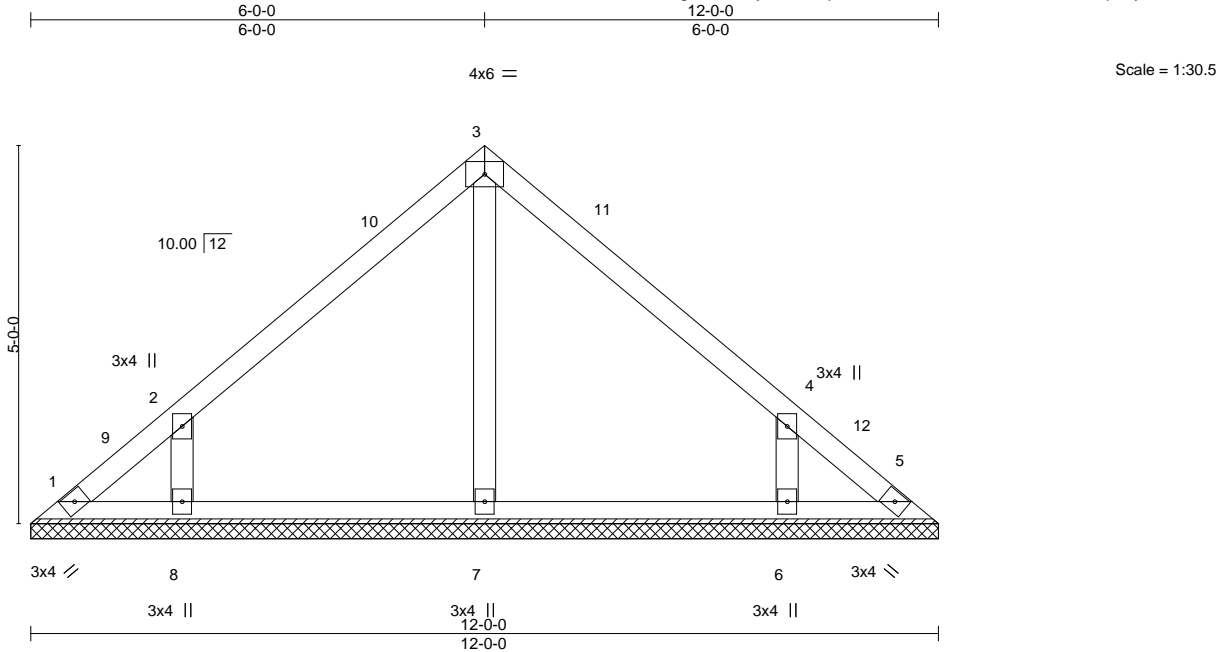
ENGINEERING BY
TRENCO
A MITEK Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley	162714988
ORDERS	VT-01065	VCOM	1	1	Job Reference (optional)	

NVR, Frederick, MD - 21703,

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:53 2023 Page 1
ID:GrQl5ouc0lF87g9tnuhaStyUXzf-dlspP48bv?rbsrlcfarHoev8xwdGXx71zup95y6TYO



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plate Grip DOL 1.15	2-0-0	TC 0.68	Vert(LL) n/a	-	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.21	Vert(CT) n/a	-	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES		WB 0.15	Horz(CT) 0.00	5	-	n/a	n/a		
BCDL 10.0	Code IBC2021/TP12014		Matrix-S						Weight: 49 lb	FT = 5%

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud		TOP CHORD	Structural wood sheathing directly applied or 6'-0-0 oc purlins.
BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud		BOT CHORD	Rigid ceiling directly applied or 10'-0-0 oc bracing.
OTHERS 2x4 SP No.3 or 2x4 SPF Stud			

REACTIONS. All bearings 12'-0'-0'.
 (lb) - Max Horz 1=161(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=259(LC 12), 6=259(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=321(LC 19), 8=566(LC 18), 6=566(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-263/193, 3-4=-263/193
 WEBS 2-8=-514/488, 4-6=-514/488

- NOTES-** (7)
- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-13 to 4-9-9, Corner(3R) 4-9-9 to 7-2-7, Corner(3E) 7-2-7 to 11-7-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=259, 6=259.



December 27,2023

Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-01066	VCOM	1	1	162714989
Job Reference (optional)					

NVR, Frederick, MD - 21703,

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:55 2023 Page 1

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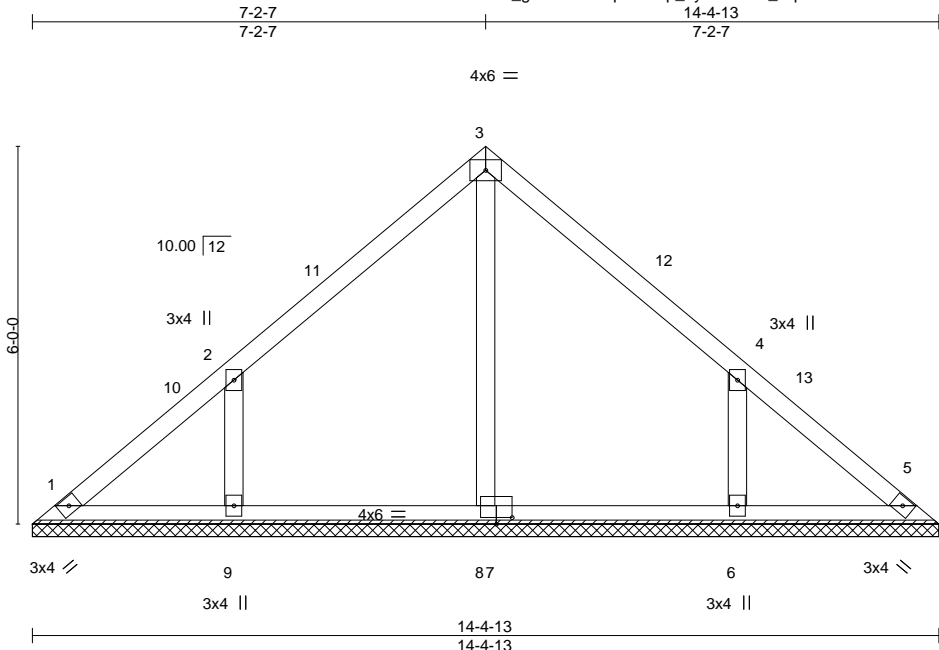


Plate Offsets (X,Y)-- [7:0-3-0,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.68	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=30.0)	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.16	Horz(CT)	0.00	5	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-S							
BCDL 10.0	Code IBC2021/TPI2014							Weight: 62 lb	FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud

BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud

OTHERS 2x4 SP No.3 or 2x4 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS.

All bearings 14-4-13.

(lb) - Max Horz 1=-195(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-279(LC 12), 6=-279(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=319(LC 18), 9=577(LC 18), 6=577(LC 19)

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

TOP CHORD 2-3=-261/218, 3-4=-261/218

WEBS 2-9=-503/459, 4-6=-503/459

NOTES- (7)

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-13 to 4-9-9, Corner(3R) 4-9-9 to 9-7-4, Corner(3E) 9-7-4 to 14-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=279, 6=279.



December 27,2023

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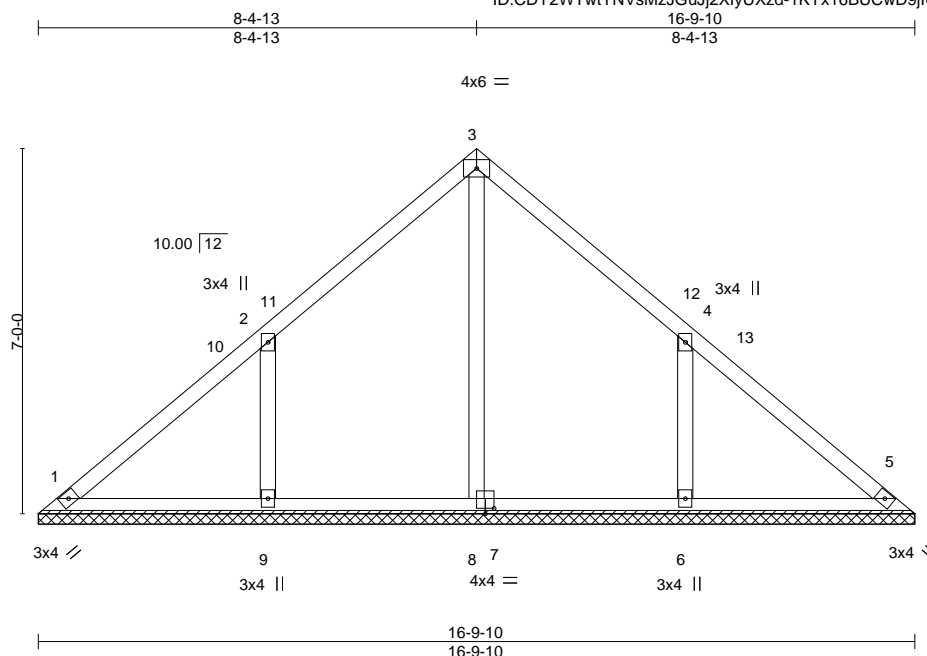
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley
ORDERS	VT-01067	VCOM	1	1	162714990
Job Reference (optional)					

NVR, Frederick, MD - 21703,

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Dec 22 08:12:56 2023 Page 1
ID:CDY2WTwtYNNVsMzJGUj2XlyUXzd-1KYx16BUCwD9jUtlN7YvRGPX9y_TtoZjx6TIQy6TYL



Scale = 1:44.2

Plate Offsets (X,Y)--		[7:0-2-0,0-1-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 30.0	2-0-0	TC 0.73	in (loc) l/defl L/d
(Roof Snow=30.0)	Plate Grip DOL 1.15	BC 0.23	Vert(LL) n/a - n/a 999
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Vert(CT) n/a - n/a 999
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 5 n/a n/a
BCDL 10.0	Code IBC2021/TPI2014		
		PLATES	GRIP
		MT20	197/144
		Weight: 75 lb	FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud
BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud
OTHERS 2x4 SP No.3 or 2x4 SPF Stud

BRACING-

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

REACTIONS.

All bearings 16-9-10.

(lb) - Max Horz 1=229(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=326(LC 12), 6=326(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=299(LC 19), 9=641(LC 18), 6=641(LC 19)

FORCES.

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

TOP CHORD 2-3=-262/242, 3-4=-262/242

WEBS 2-9=-543/474, 4-6=-543/474

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-13 to 4-9-9, Corner(3R) 4-9-9 to 12-0-1, Corner(3E) 12-0-1 to 16-4-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=326, 6=326.



December 27, 2023

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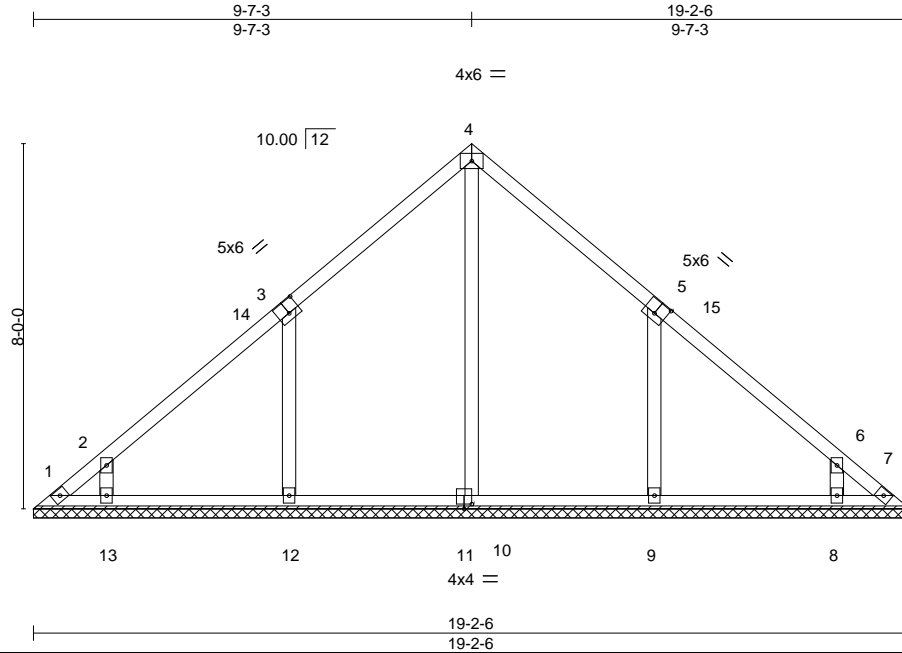
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	02_Valley	
ORDERS	VT-01068	VCOM	1	1		I57754444

NVR, Frederick, MD - 21703,

8.530 s Mar 9 2023 MiTek Industries, Inc. Thu Apr 13 08:50:54 2023 Page 1
ID: gP6QjpxVJgdj_7tSS1EH4WYUXzc-bAPyeQPP7HT0pK5WBRIQwCu4eTNWd_3ipaGlyyzRAz?



Scale = 1:50.5

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-3-0,0-3-4], [11:0-2-0,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.72	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=30.0)	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.29	Horz(CT)	0.01	7	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-S							
BCDL 10.0	Code IBC2021/TPI2014							Weight: 90 lb	FT = 5%

LUMBER-

TOP CHORD 2x4 SP No.3 or 2x4 SPF Stud
BOT CHORD 2x4 SP No.3 or 2x4 SPF Stud
OTHERS 2x4 SP No.3 or 2x4 SPF Stud

BRACING-

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

REACTIONS.

All bearings 19-2-6.

(lb) - Max Horz 1=-264(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-138(LC 10), 12=-296(LC 12), 13=-205(LC 12),
9=-295(LC 13), 8=-205(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=323(LC 18), 12=600(LC 18), 13=344(LC 21),
9=600(LC 19), 8=345(LC 22)

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

TOP CHORD 1-2=-316/218, 3-4=-263/258, 4-5=-263/258, 6-7=-274/139

WEBS 3-12=-518/392, 2-13=-281/340, 5-9=-518/392, 6-8=-282/340

NOTES- (8)

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-13 to 4-9-9, Exterior(2N) 4-9-9 to 5-2-8, Corner(3R) 5-2-8 to 13-8-5, Exterior(2N) 13-8-5 to 14-4-13, Corner(3E) 14-4-13 to 18-9-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCDL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=138, 12=296, 13=205, 9=295, 8=205.



April 14, 2023

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932