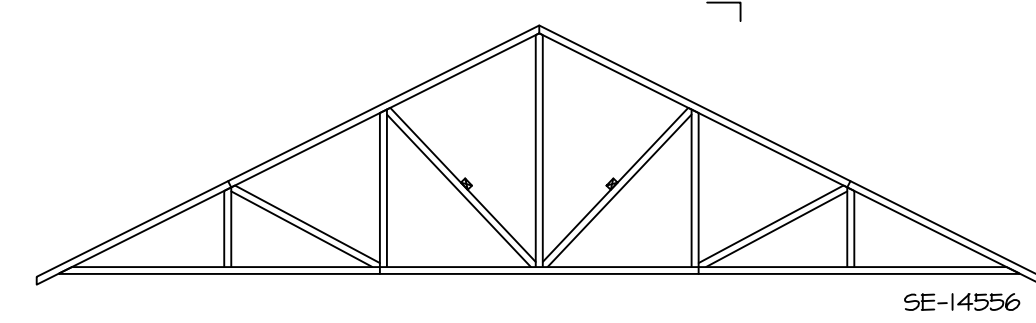
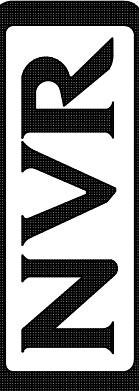


1  
9-3  
**TRUSS BRACING DETAILS**  
SCALE: 1/8" = 1'-0"



**TRUSS BRACING NOTES**

1. IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.
2. 2x4 SPP#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.
3. WEB "T" BRACE, DETAIL 3/RF-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.
4. DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (4/RF-1c).
5. STUDDED GABLE BRACING DETAIL 1/RF-1c TO BE UTILIZED FOR TRUSSES 6'-0" IN HEIGHT OR GREATER.
6. PARTIALLY SHEATHED GABLES, SEE 5/RF-1c FOR "L" BRACING WHEN REQUIRED.
7. LATERAL BRACING CAN BE APPLIED TO EITHER SIDE OF THE WEB MEMBER IDENTIFIED IN THE DRAWING.
8. SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.

SHEET NO. <b>S-3</b>  22	MODEL <b>DOMINICA SPRING</b> DRAWING TITLE <b>TRUSS BRACING DETAILS</b> OPTION DESCRIPTION 	SET NO. DSP00 VERSION 01 RELEASE NO. ---- DRAWN BY SGA DATE: OPTION	<div style="text-align: center;">                       NVR, Inc.                      5285 Westwood, Suite 100                      Frederick, MD 21703                 </div> <p style="font-size: small;">© NVR, Inc., expressly reserves its copyright and other property rights in these plans. These plans are not to be reproduced, stored in a retrieval system, copied in any form or manner whatsoever, nor are they to be transmitted or disseminated in any way without the express written consent of NVR, Inc.</p>
DIV-COMM-LOT-UNIT <b>RLH-VK-0014</b> COMM-LOT KIPLING VILLAGE - 0014 STREET ADDRESS <b>16 BRAZAN COURT</b> CITY FUGUAY-VARINA STATE NC ZIP 27526			DIV-COMM-LOT-UNIT <b>RLH-VK-0014</b> COMM-LOT KIPLING VILLAGE - 0014 STREET ADDRESS <b>16 BRAZAN COURT</b> CITY FUGUAY-VARINA STATE NC ZIP 27526

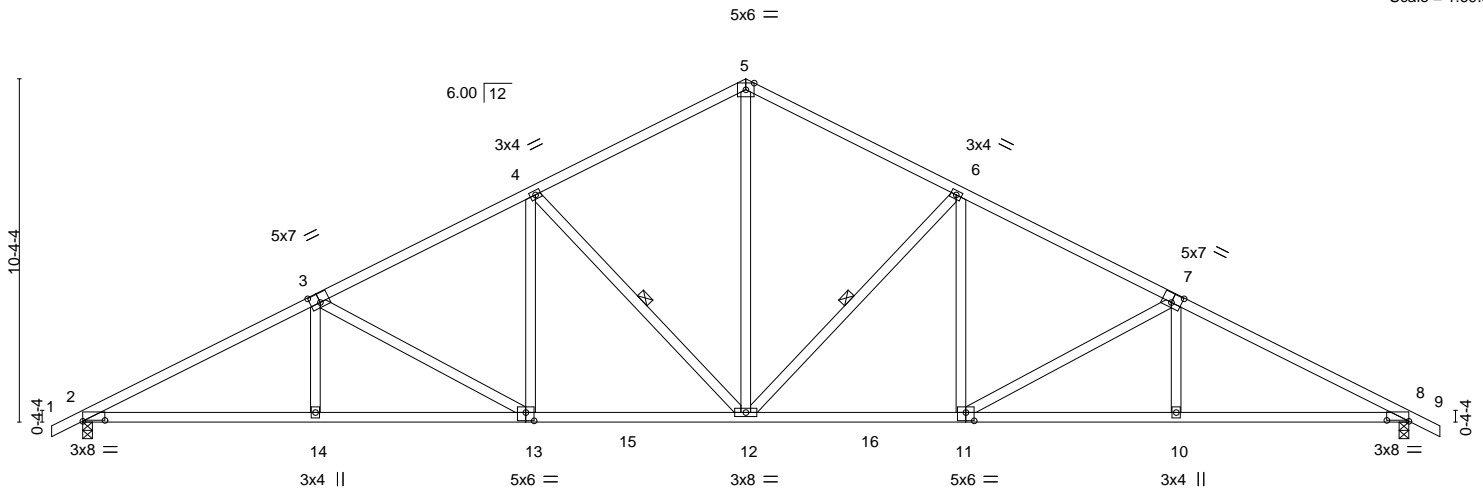
Job ORDERS	Truss SE-14556	Truss Type COMN	Qty 1	Ply 1	10_Southeast	149147396
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NVR, Frederick, MD - 21703,

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:31 2021 Page 1  
ID:YstCVLXCi8aib5IKGG1z3?yC\_bB-wBmQ0gLEtmbkITMhFxtluDG1X80O?hJfOhCkczyBF8s

0-11-4 0-11-4	7-0-3 7-0-3	13-6-2 6-5-14	20-0-0 6-5-14	26-5-14 6-5-14	32-11-13 6-5-14	40-0-0 7-0-3	40-11-4 0-11-4
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Scale = 1:69.5



7-0-3 7-0-3	13-6-2 6-5-14	20-0-0 6-5-14	26-5-14 6-5-14	32-11-13 6-5-14	40-0-0 7-0-3
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Plate Offsets (X,Y)-- [2:0-8-0,0-0-5], [3:0-3-8,0-3-4], [7:0-3-8,0-3-4], [8:0-8-0,0-0-5], [11:0-3-0,0-3-0], [13:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.99	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.91	Vert(LL) -0.19 11-12 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Vert(CT) -0.39 11-12 >999 240		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Horz(CT) 0.16 8 n/a n/a		
			Wind(LL) 0.16 12-13 >999 240	Weight: 221 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.  
BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.  
WEBS 1 Row at midpt 4-12, 6-12

**REACTIONS.** (size) 2=0-3-8, 8=0-3-8  
Max Horz 2=-180(LC 15)  
Max Uplift 2=-229(LC 10), 8=-229(LC 11)  
Max Grav 2=1653(LC 1), 8=1653(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3030/371, 3-4=-2441/332, 4-5=-1866/308, 5-6=-1866/308, 6-7=-2441/332,  
7-8=-3030/372  
BOT CHORD 2-14=-410/2615, 13-14=-412/2612, 12-13=-240/2105, 11-12=-90/2105, 10-11=-233/2612,  
8-10=-231/2615  
WEBS 3-14=0/293, 4-13=-19/465, 5-12=-135/1224, 6-11=-19/465, 7-10=0/293, 3-13=-587/198,  
4-12=-764/256, 6-12=-764/256, 7-11=-587/198

- 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, with BCDL = 10.0psf.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=229, 8=229.
  - 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

Job ORDERS	Truss SE-14561	Truss Type MONO	Qty 1	Ply 1	10_Southeast	149147401
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NVR, Frederick, MD - 21703,

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:30:36 2021 Page 1  
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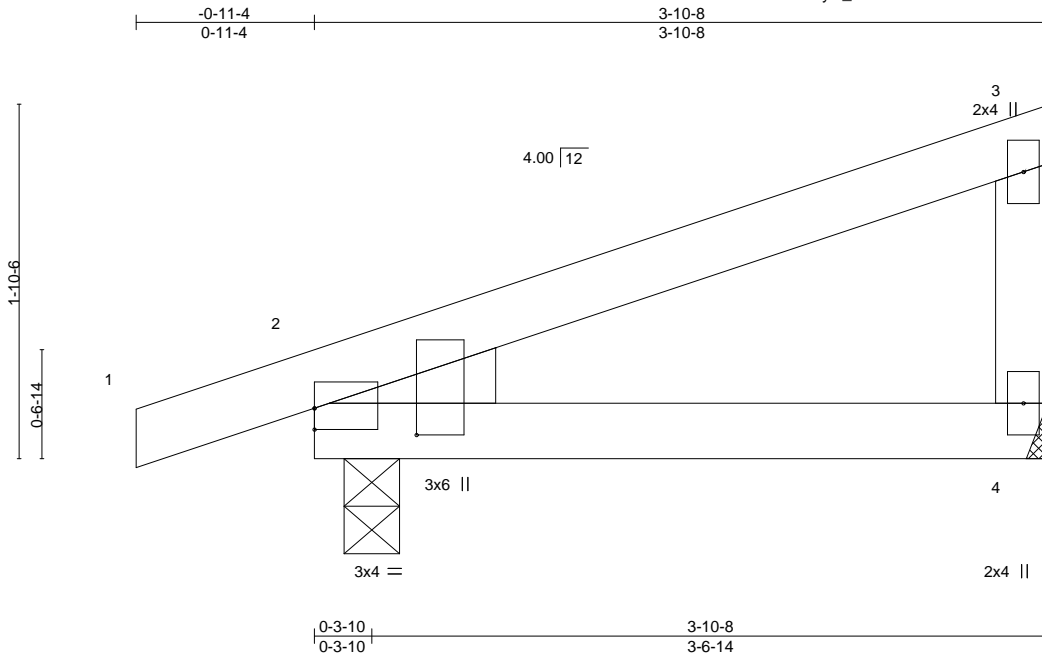


Plate Offsets (X,Y)--	[2:0-0-0,0-1-5], [2:0-1-11,0-6-7]
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LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.01	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.02	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 17 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  
 WEDGE  
 Left: 2x4 SP or SPF No.3 or Stud

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8  
 Max Horz 2=62(LC 6)  
 Max Uplift 4=-37(LC 10), 2=-66(LC 6)  
 Max Grav 4=134(LC 1), 2=218(LC 1)

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

- NOTES-** (6-8)
- 1) 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
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
  - 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.

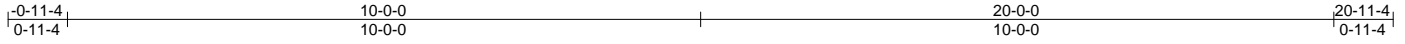


January 12, 2022

Job ORDERS	Truss SE-14635	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49147448
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NVR, Frederick, MD - 21703,

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:37:44 2021 Page 1  
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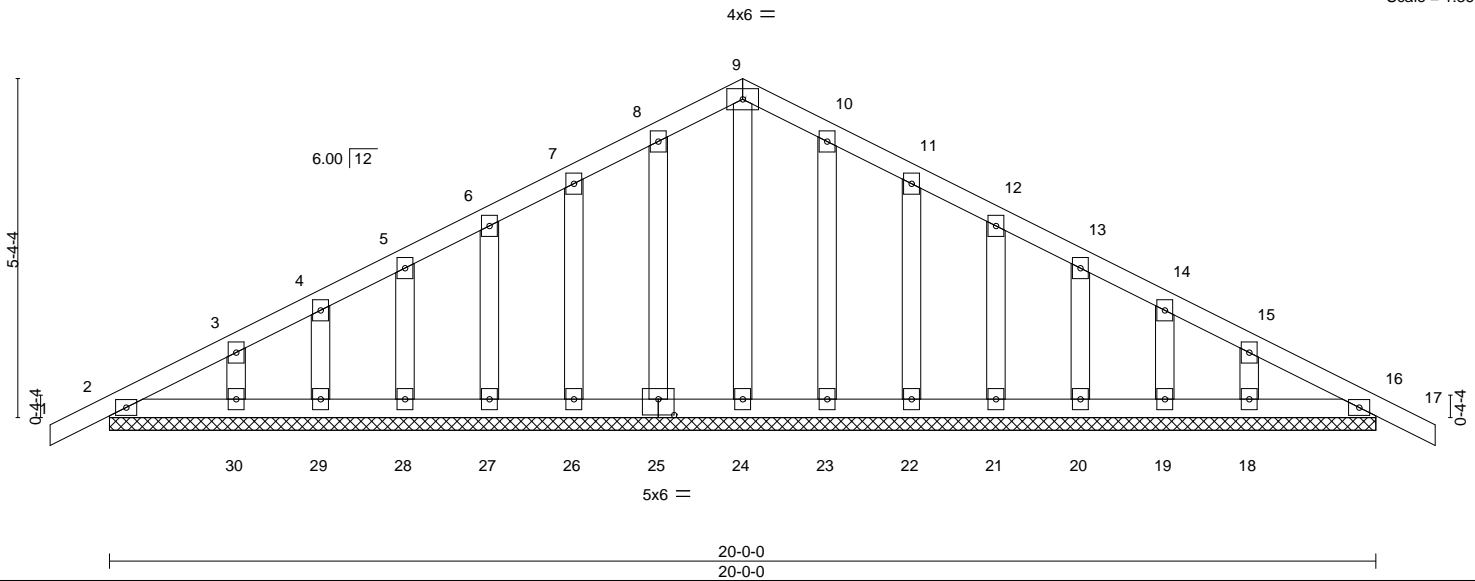


Plate Offsets (X,Y)-- [25:0-3-0.0-3-0]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSL.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15		TC 0.06	Vert(LL) -0.00	16	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.03	Vert(CT) -0.00	17	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.05	Horz(CT) 0.00	16	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014		Matrix-S						
								Weight: 118 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  
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 20-0-0.  
(lb) - Max Horz 2=94(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16  
Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16

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

- NOTES-** (10-12)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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.
  - 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) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16.
  - 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



818 Soundside Road  
Edenton, NC 27932

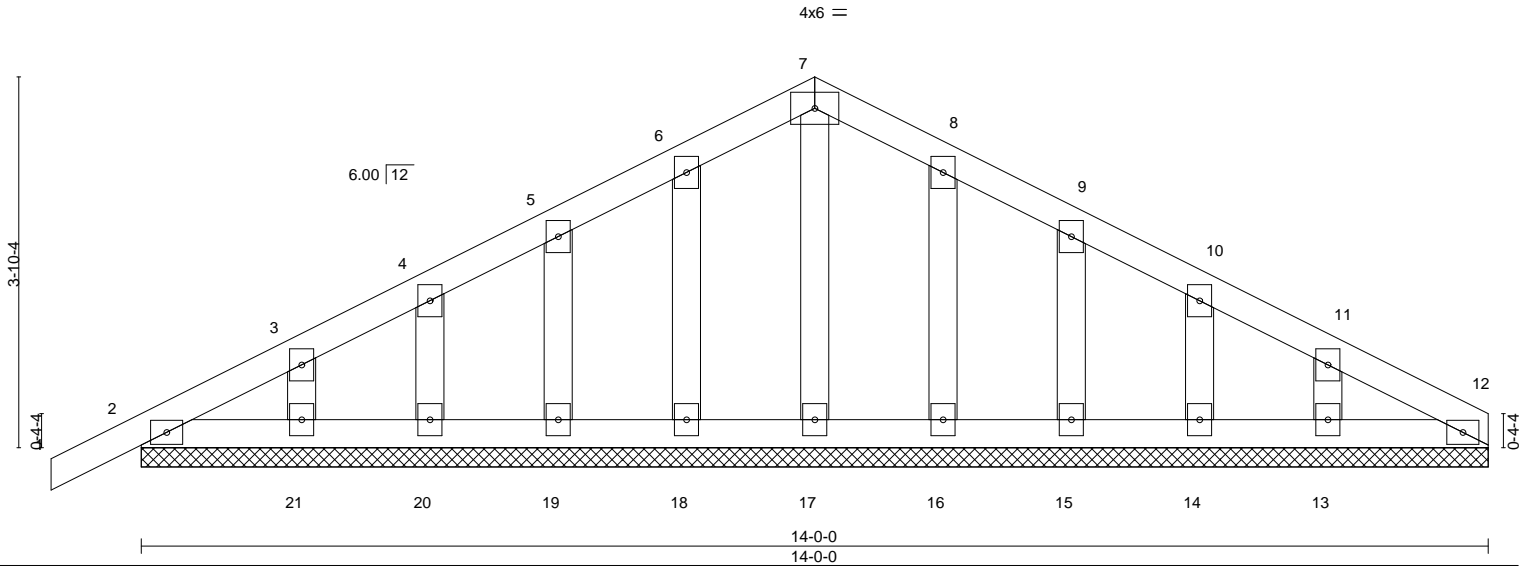
Job ORDERS	Truss SE-14636	Truss Type COMN	Qty 1	Ply 1	10_Southeast	149147449
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NVR, Frederick, MD - 21703,

8.530 s Nov 29 2021 MiTek Industries, Inc. Tue Dec 7 20:37:46 2021 Page 1  
ID:KS\_igM7X9ovqwNHjEMQaQEY68xp-gtYtJPC5RQP?RK6IEoBJ0ynbMUH?QavhQs4FOFyBF23



Scale: 1/2"=1'



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 12 n/a n/a		
	Code IBC2021/TPI2014			Weight: 70 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  
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 14-0-0.  
(lb) - Max Horz 2=75(LC 14)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 19, 20, 21, 16, 15, 14, 13  
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 21, 16, 15, 14, 13

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

- NOTES-** (10-12)
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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.
  - 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) 2, 18, 19, 20, 21, 16, 15, 14, 13.
  - 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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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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

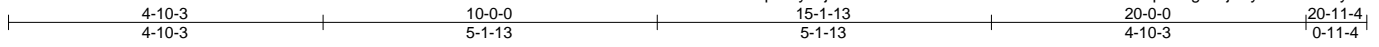


818 Soundside Road  
Edenton, NC 27932

Job ORDERS	Truss SE-16895	Truss Type COMN	Qty 1	Ply 1	10_Southeast	149170455
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 20:43:23 2021 Page 1  
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Scale = 1:35.5

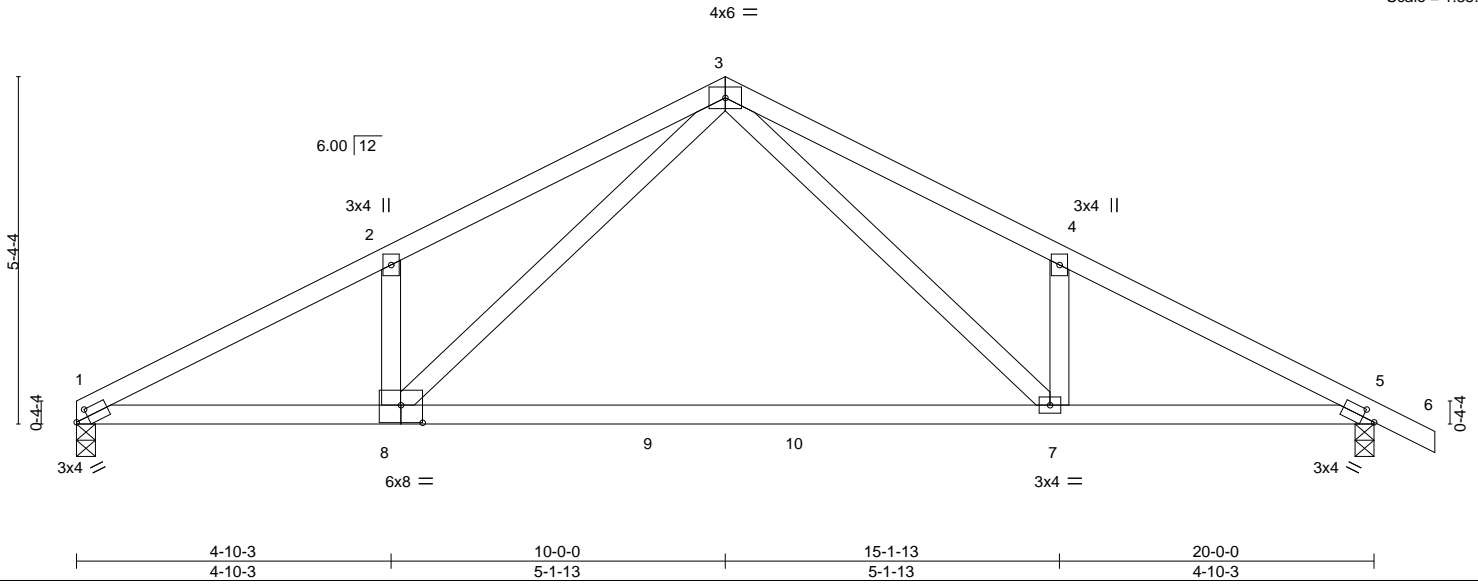


Plate Offsets (X, Y)-- [1:0-2-5,0-1-8], [5:0-2-5,0-1-8], [8:0-4-0,0-3-4]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.26	7-8	>925	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.54	7-8	>439	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.03	5	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.05	7-8	>999	240	Weight: 92 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 4-5-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 5=0-3-8  
Max Horz 1=-101(LC 15)  
Max Uplift 1=-101(LC 10), 5=-126(LC 11)  
Max Grav 1=787(LC 1), 5=855(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1466/148, 2-3=-1469/273, 3-4=-1456/267, 4-5=-1458/143  
BOT CHORD 1-8=-157/1248, 7-8=-46/758, 5-7=-57/1238  
WEBS 4-7=-298/211, 2-8=-307/215, 3-8=-155/706, 3-7=-149/691

- 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=101, 5=126.
  - 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.**

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

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

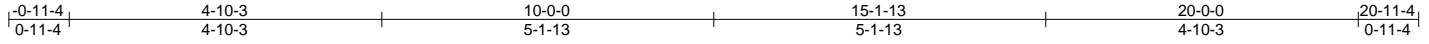


818 Soundside Road  
Edenton, NC 27932

Job ORDERS	Truss SE-16896	Truss Type COMN	Qty 1	Ply 1	10_Southeast	149170456
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 20:43:24 2021 Page 1  
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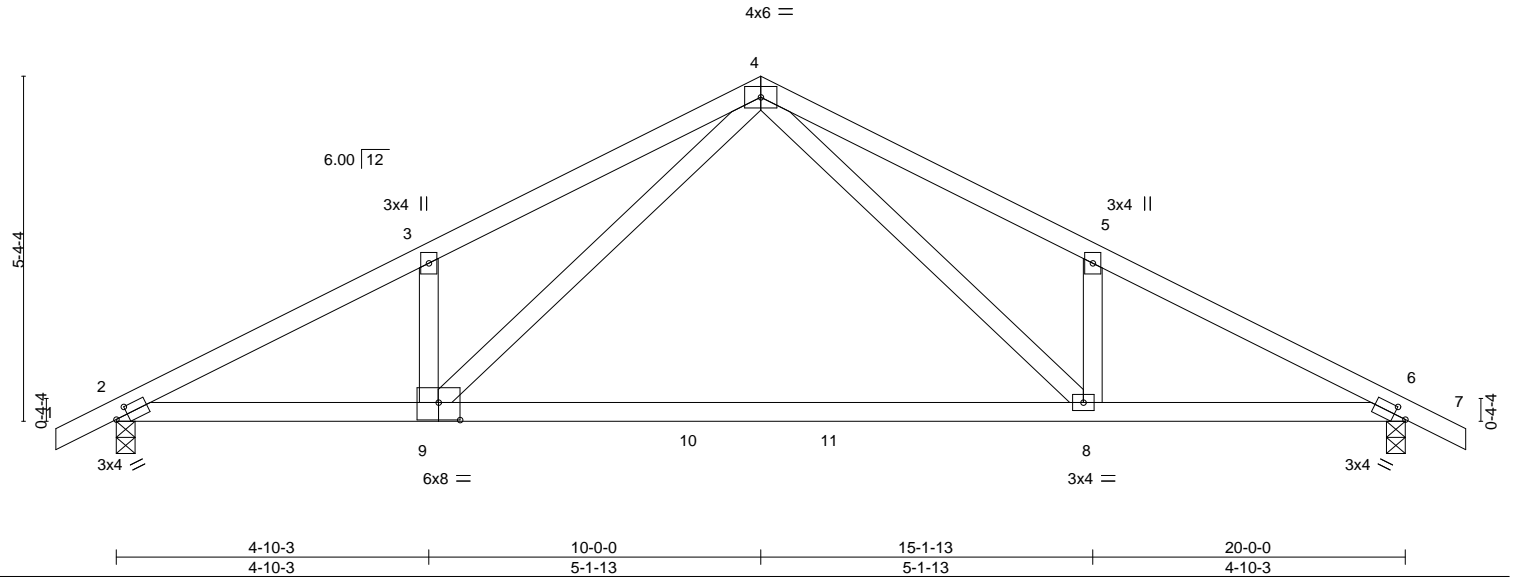


Plate Offsets (X, Y)--	[2:0-2-5,0-1-8], [6:0-2-5,0-1-8], [9:0-4-0,0-3-4]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) -0.26 8-9 >926 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.30	Vert(CT) -0.54 8-9 >439 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 6 n/a n/a		
	Code IBC2021/TPI2014		Wind(LL) 0.05 8-9 >999 240	Weight: 94 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 4-5-12 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8  
 Max Horz 2=94(LC 14)  
 Max Uplift 2=-126(LC 10), 6=-126(LC 11)  
 Max Grav 2=853(LC 1), 6=853(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1454/142, 3-4=-1452/266, 4-5=-1452/266, 5-6=-1454/142  
 BOT CHORD 2-9=-151/1234, 8-9=-45/754, 6-8=-57/1234  
 WEBS 5-8=-297/211, 3-9=-297/211, 4-9=-149/691, 4-8=-149/691

- 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) 2=126, 6=126.
  - 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.

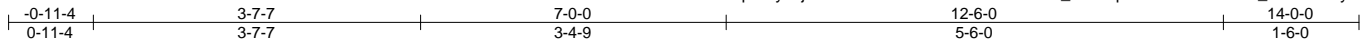


January 12, 2022

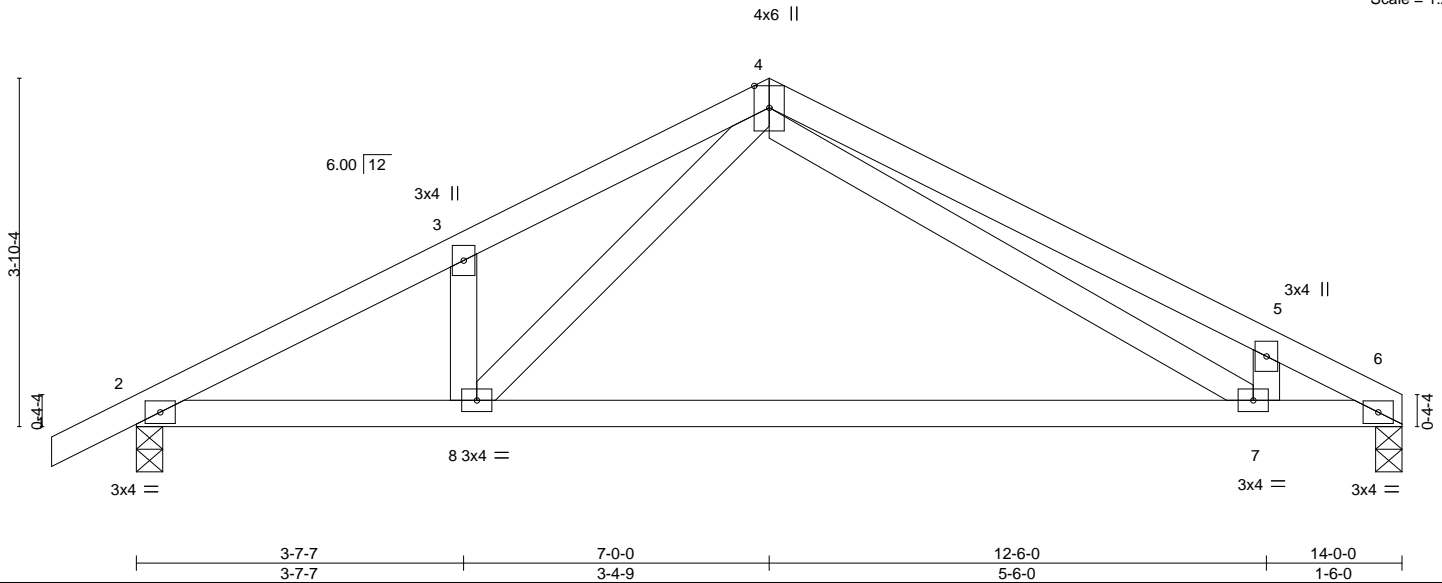
Job ORDERS	Truss SE-16897	Truss Type COMN	Qty 1	Ply 1	10_Southeast	149170457
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 20:43:25 2021 Page 1  
ID:emnpr32y1l3j8t4xAaRlkKzEGQP-U19owUKQH\_cl5Fcq01rw?SIZGWR30s\_v1E3bGDyAvsm



Scale = 1:25.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.65	Vert(LL) -0.14 7-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.30 7-8 >555 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 6 n/a n/a	Weight: 65 lb	FT = 5%
	Code IBC2021/TPI2014		Wind(LL) 0.04 7-8 >999 240		

**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 4-4-12 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 2=0-3-8, 6=0-3-8  
 Max Horz 2=75(LC 14)  
 Max Uplift 2=-95(LC 10), 6=-70(LC 11)  
 Max Grav 2=616(LC 1), 6=546(LC 1)

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

TOP CHORD 2-3=-994/78, 3-4=-966/161, 4-5=-1248/219, 5-6=-1203/87  
 BOT CHORD 2-8=-87/830, 7-8=-38/524, 6-7=-92/1050  
 WEBS 4-8=-70/469, 4-7=-129/657

**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) 2, 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.
- 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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**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



818 Soundside Road  
 Edenton, NC 27932



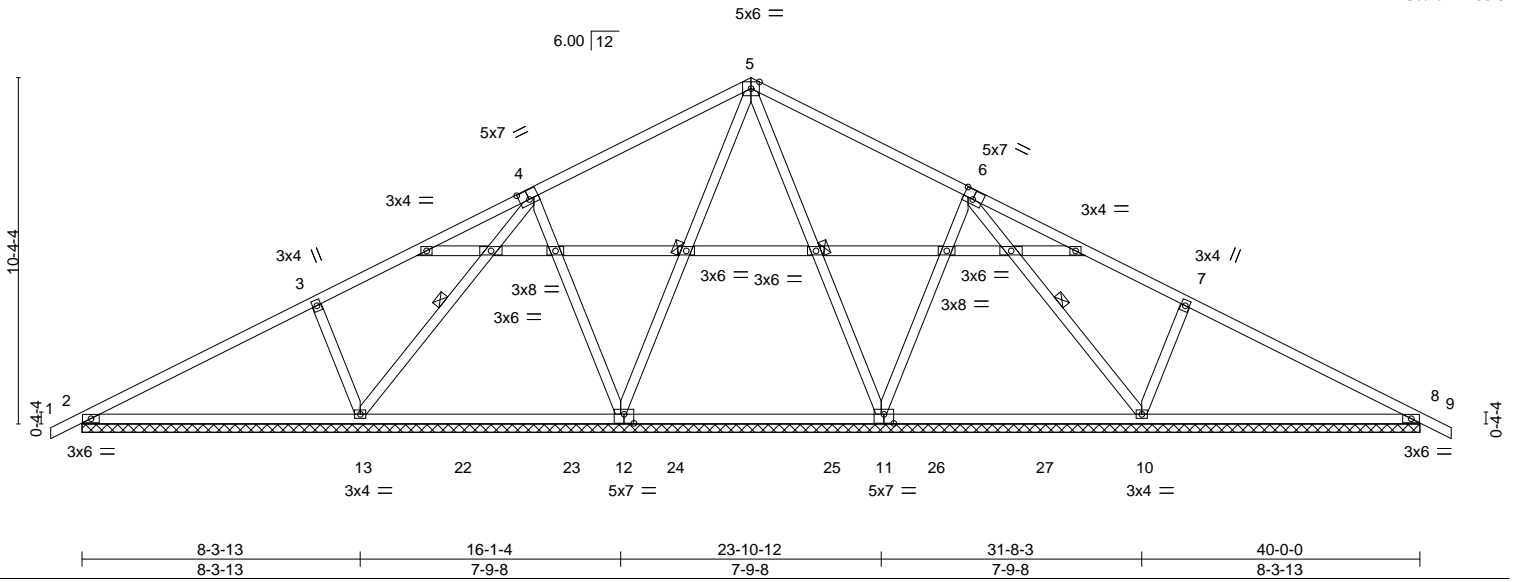
Job ORDERS	Truss SE-17194	Truss Type COMN	Qty 1	Ply 1	10_Southeast	49171116
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 22:07:44 2021 Page 1  
ID:YstCVLXCi8aib5IKGG1z3?yC\_bB-hyb?eQcevHYE0w3hglKOSYn48q4mrtzYLP2nKVyAudj

-0-11-4 0-11-4	7-0-3 7-0-3	13-6-2 6-5-14	20-0-0 6-5-14	26-5-14 6-5-14	32-11-13 6-5-14	40-0-0 7-0-3	40-11-4 0-11-4
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Scale = 1:68.9



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(LL) 0.03 9 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Vert(CT) 0.08 9 n/r 120		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Horz(CT) 0.01 8 n/a n/a		
				Weight: 245 lb	FT = 5%

LUMBER-	BRACING-
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 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 or 2x4 SPF Stud	WEBS 1 Row at midpt 4-13, 5-12, 5-11, 6-10

**REACTIONS.** All bearings 40-0-0.  
 (lb) - Max Horz 2=180(LC 15)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 8 except 13=168(LC 10), 12=110(LC 10), 10=174(LC 11)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=343(LC 23), 13=718(LC 23), 12=672(LC 17), 11=665(LC 2), 10=718(LC 24), 8=343(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-13=399/240, 4-12=279/210, 6-11=279/206, 7-10=399/239

- NOTES-** (7-10)
- 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
  - 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) 2, 11, 8 except (jt=lb) 13=168, 12=110, 10=174.
  - 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

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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job ORDERS	Truss SE-17195	Truss Type SPEC	Qty 1	Ply 1	10_Southeast	149171117
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 22:07:48 2021 Page 1

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Job Reference (optional)

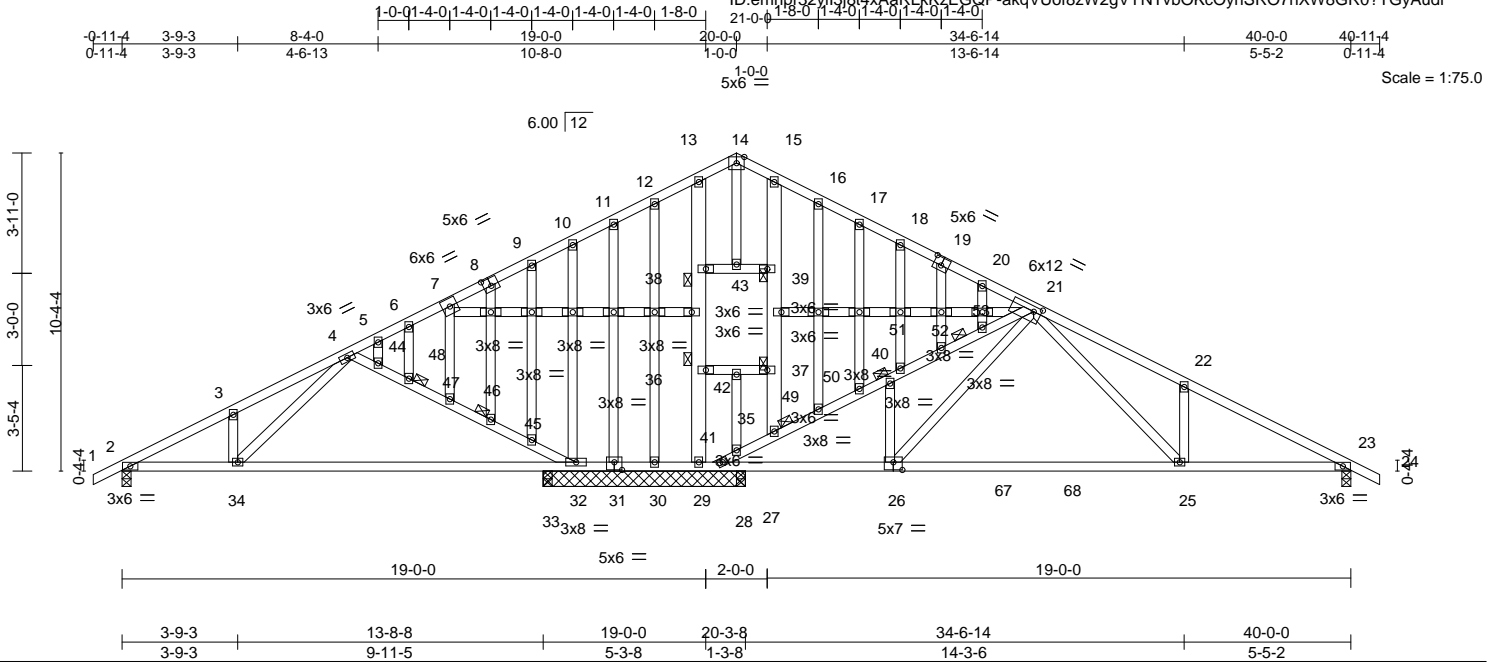


Plate Offsets (X,Y)--	[8:0-3-0,0-3-0], [19:0-3-0,0-3-0], [21:0-3-0,0-2-0], [26:0-3-8,0-3-0], [31:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.53	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(LL) -0.19 25-26 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Vert(CT) -0.41 25-26 >577 240		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Horz(CT) 0.04 23 n/a n/a		
			Wind(LL) 0.06 25-26 >999 240	Weight: 361 lb	FT = 5%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 21-40
21-28,4-32,36-37,38-39,3-34,21-26,26-40,21-25,22-25,4-34,41-42	JOINTS 1 Brace at Jt(s): 35, 36, 37, 38, 39, 40, 46, 48
,14-43: 2x4 SP No.3 or 2x4 SPF Stud	
13-29,15-35: 2x6 SP No.2	
OTHERS 2x4 SP No.3 or 2x4 SPF Stud	

**REACTIONS.** All bearings 6-7-0 except (jt=length) 2=0-3-8, 23=0-3-8, 27=0-3-8, 33=0-3-8.  
 (lb) - Max Horz 2=180(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 31, 27 except 28=148(LC 11), 32=537(LC 10), 23=157(LC 11), 30=116(LC 24)  
 Max Grav All reactions 250 lb or less at joint(s) 31, 27 except 2=544(LC 23), 28=633(LC 2), 32=409(LC 1), 29=525(LC 1), 23=823(LC 24), 33=733(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-840/0, 3-4=-802/63, 9-10=-79/287, 12-13=0/299, 21-22=-1329/329, 22-23=-1341/211  
 BOT CHORD 2-34=-112/692, 33-34=-99/391, 32-33=-99/391, 31-32=-224/265, 30-31=-224/265, 29-30=-224/265, 28-29=-243/270, 27-28=-74/1098, 26-27=-74/1098, 25-26=-8/681, 23-25=-108/1127  
 WEBS 28-41=-1455/389, 35-41=-1425/381, 35-49=-1368/386, 49-50=-1363/373, 40-50=-1323/351, 40-51=-1453/423, 51-52=-1374/379, 52-53=-1357/367, 21-53=-1340/362, 4-44=-598/267, 44-48=-552/240, 47-48=-582/258, 46-47=-588/262, 45-46=-623/284, 32-45=-590/264, 29-36=-450/17, 36-38=-484/18, 13-38=-454/33, 21-26=-89/622, 26-40=-314/173, 21-25=-147/658, 22-25=-297/202, 4-34=-17/517, 10-32=-426/263

- 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, with BCDL = 10.0psf.



January 12, 2022

Continued on page 2

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**ENGINEERING BY TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Cedon, NC 27932

Job	Truss	Truss Type	Qty	Ply	10_Southeast	I49171117
ORDERS	SE-17195	SPEC	1	1	Job Reference (optional)	

NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Dec 8 22:07:48 2021 Page 2  
 ID:emnr32y1l3j8t4xAaRLkKzEGQP-akqVUof8zW2gVYNTvbOKcOynSRO7nXW8GR0?TGyAudf

**NOTES-** (9-11)

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 29, 31, 27 except (jt=lb) 28=148, 32=537, 23=157, 30=116.
- 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.
- 11) 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.

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 Edenton, NC 27932

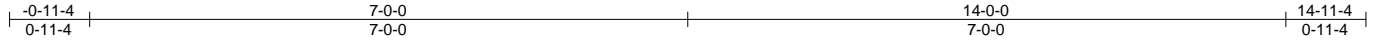
Job ORDERS	Truss SE-18660	Truss Type COMN	Qty 1	Ply 1	10_Southeast	149194704
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MITEK Industries, Inc. Thu Dec 9 21:29:23 2021 Page 1

ID:ysQ2lfeTUPclEylvGcyuSzmZKC-zZQCEhK6RnaGTwYH?pOoV4PzwezduFJbTWRZUyAa5g

Job Reference (optional)



Scale = 1:27.0

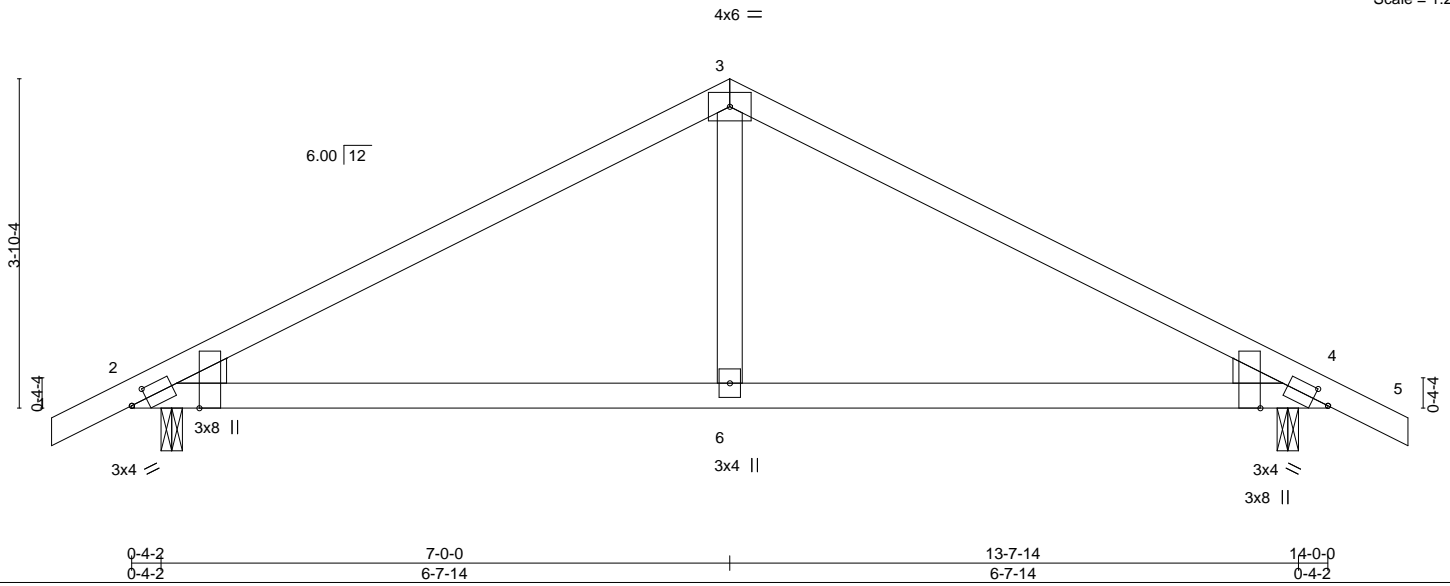


Plate Offsets (X, Y)--	[2:0-2-5,0-1-8], [2:0-0-5,Edge], [4:0-2-5,0-1-8], [4:0-0-5,Edge]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.73	Vert(LL) -0.05	2-6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.12	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-S	Wind(LL) 0.05	2-6	>999	240		
							Weight: 54 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  
WEDGE  
Left: 2x4 SP or SPF No.3 or Stud, Right: 2x4 SP or SPF No.3 or Stud

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-4-5 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=-68(LC 15)  
Max Uplift 2=-95(LC 10), 4=-95(LC 11)  
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=-780/95, 3-4=-780/95  
BOT CHORD 2-6=-22/612, 4-6=-22/612  
WEBS 3-6=0/335

- 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) 2, 4.
  - 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.

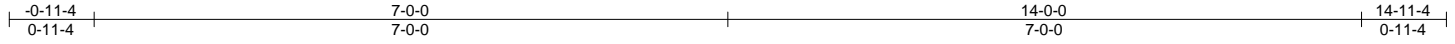


January 12, 2022

Job ORDERS	Truss SE-18661	Truss Type COMN	Qty 1	Ply 1	10_Southeast	I49194705
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NVR, Frederick, MD - 21703,

8.530 s Dec 6 2021 MITEK Industries, Inc. Thu Dec 9 21:29:24 2021 Page 1  
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Scale = 1:25.5

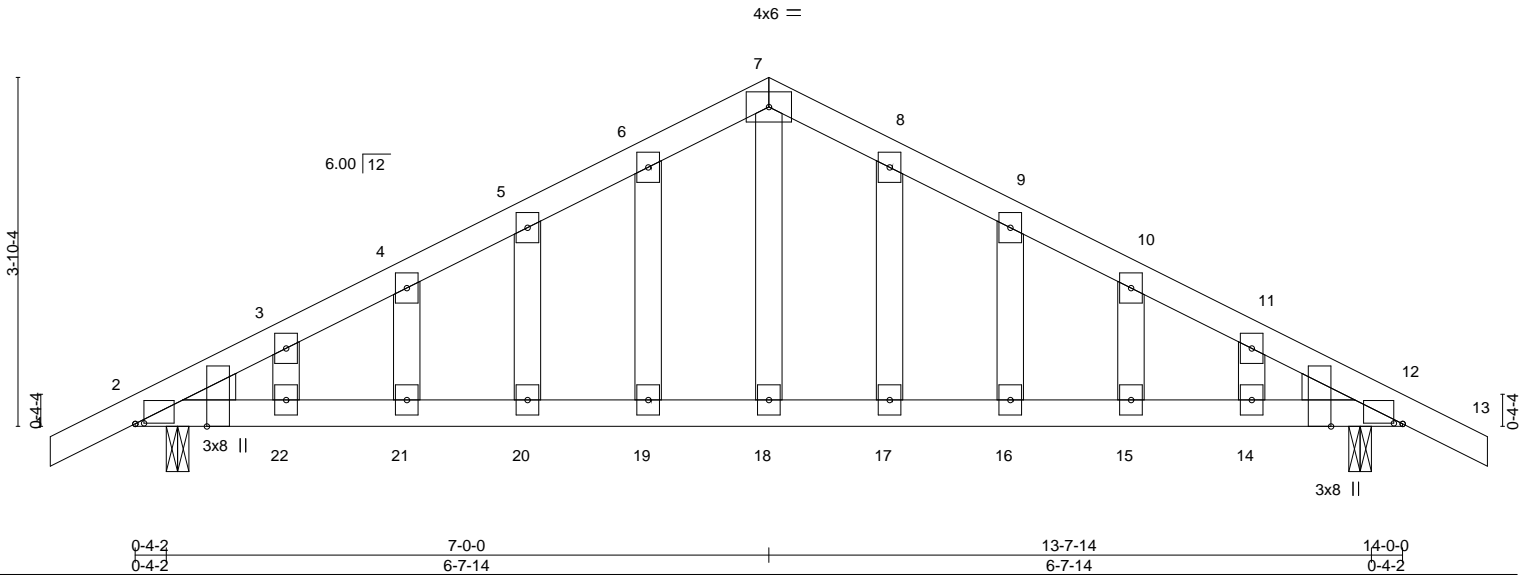


Plate Offsets (X,Y)-- [2:0-1-3,0-0-1], [2:0-0-5,Edge], [12:0-1-3,0-0-1], [12:0-0-5,Edge]

LOADING (psf)	SPACING	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) -0.10 15-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Vert(CT) -0.16 15-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 12 n/a n/a		
	Code IBC2021/TPI2014		Wind(LL) 0.10 20-21 >999 240	Weight: 74 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  
 OTHERS 2x4 SP No.3 or 2x4 SPF Stud  
 WEDGE

**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.

Left: 2x4 SP or SPF No.3 or Stud, Right: 2x4 SP or SPF No.3 or Stud

**REACTIONS.** (size) 2=0-3-0, 12=0-3-0  
 Max Horz 2=68(LC 11)  
 Max Uplift 2=95(LC 10), 12=95(LC 11)  
 Max Grav 2=614(LC 1), 12=614(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-783/64, 3-4=-736/80, 4-5=-713/96, 5-6=-691/111, 6-7=-685/131, 7-8=-685/130,  
 8-9=-691/111, 9-10=-713/96, 10-11=-736/80, 11-12=-783/64  
 BOT CHORD 2-22=-35/634, 21-22=-35/634, 20-21=-35/634, 19-20=-35/634, 18-19=-35/634,  
 17-18=-35/634, 16-17=-35/634, 15-16=-35/634, 14-15=-35/634, 12-14=-35/634  
 WEBS 7-18=-55/384

- 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) 2, 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