



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

RE: high\_springs\_lot\_7 - High Springs Lot 7

MiTek USA, Inc.  
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

**Site Information:**

Customer Info: Jerry Lerner Project Name: . Model: .  
Lot/Block: . Subdivision: .  
Address: ., .  
City: High Springs State: FL

**Name Address and License # of Structural Engineer of Record, if there is one, for the building.**

Name: License #:  
Address:  
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5  
Wind Code: ASCE 7-16 Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: 55.0 psf

This package includes 10 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T29419352	A1	12/15/22
2	T29419353	B1GE	12/15/22
3	T29419354	B2	12/15/22
4	T29419355	F01	12/15/22
5	T29419356	F02	12/15/22
6	T29419357	F03	12/15/22
7	T29419358	F05	12/15/22
8	T29419359	F06	12/15/22
9	T29419360	F08	12/15/22
10	T29419361	F09	12/15/22



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2023.

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

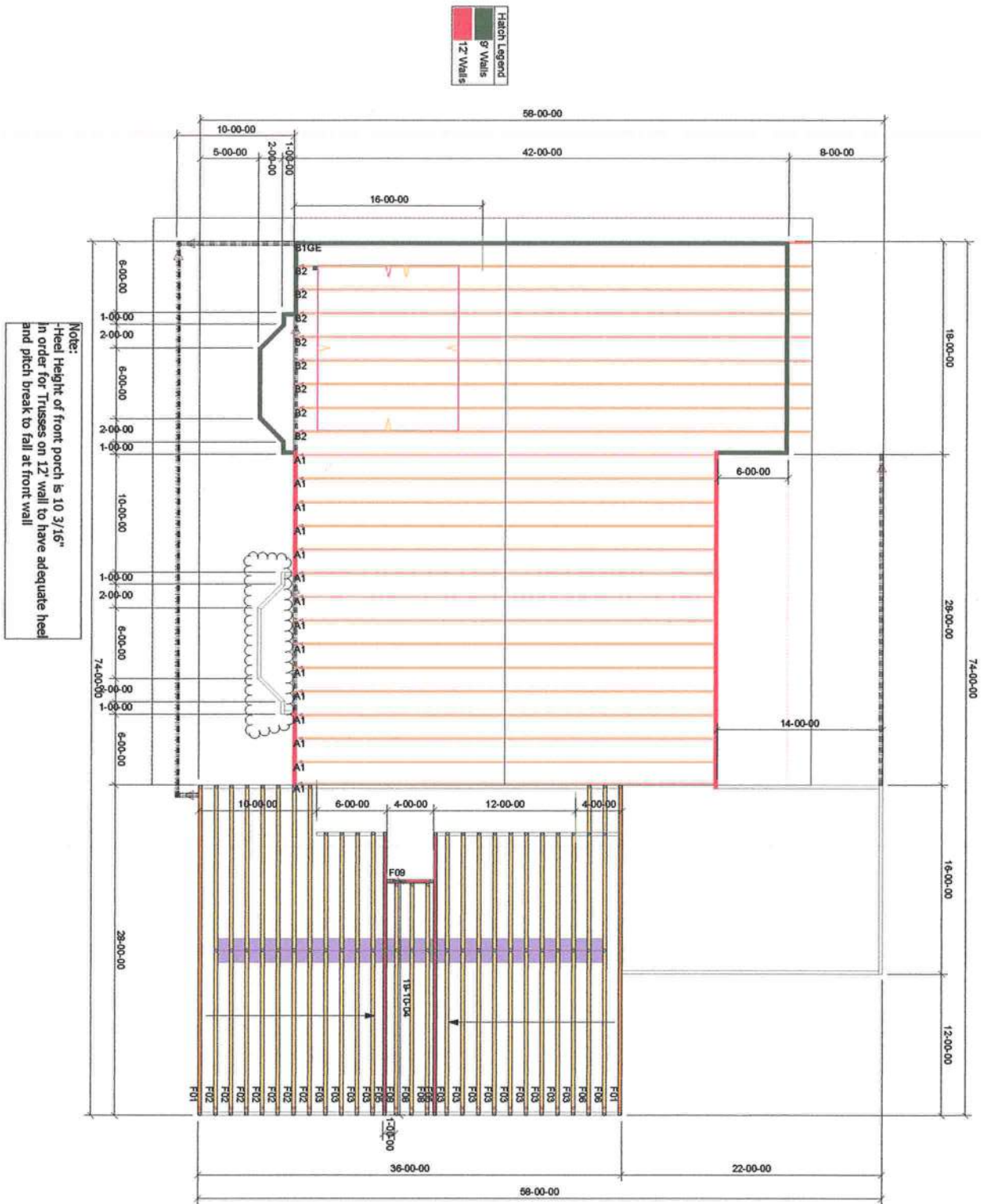


Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

December 16, 2022

Lee, Julius

1 of 1



## High Springs Lot 7

Client: JERRY LERNER  
 Date: 12/14/2022  
 Quote Date: / /  
 Seal Date: / /  
 Designer: Jason Degroff  
 Job Number: 1222-035

Mayo Truss  
 Company Inc.

Ph. (386) 294-3988  
 Fax (386) 294-3981  
 mayotruss@windstream.net



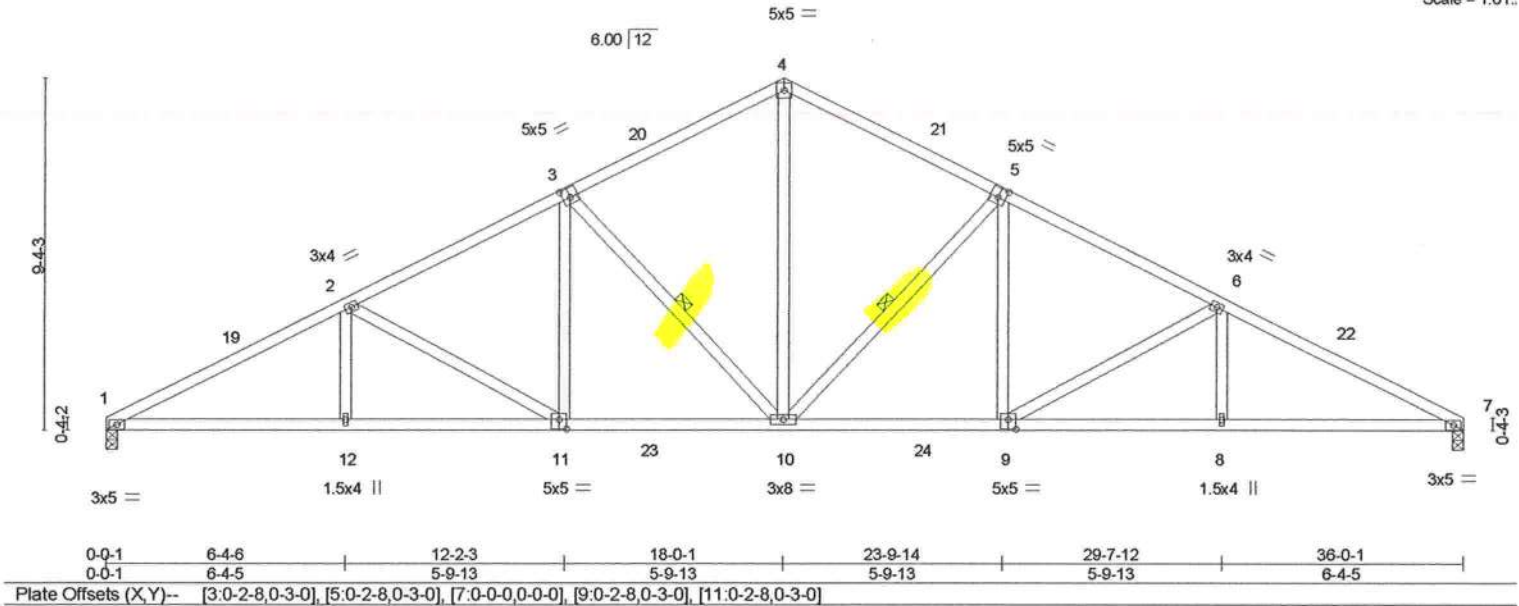
Job	Truss	Truss Type	Qty	Ply	High Springs Lot 7	T29419352
HIGH_SPRINGS_LOT_7	A1	Common	15	1		
Job Reference (optional)						

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Dec 15 13:09:16 2022 Page 1  
ID:1u2OM2BK58y2dqpP7JSk?y9MBc-YvHbXTwkC50IUBOOosPKXgvYqIRh1gMgFTFb\_y8isX

6-4-6	12-2-3	18-0-1	23-9-14	29-7-12	36-0-1
6-4-6	5-9-13	5-9-13	5-9-13	5-9-13	6-4-5

Scale = 1:61.



0-0-1	6-4-6	12-2-3	18-0-1	23-9-14	29-7-12	36-0-1
0-0-1	6-4-5	5-9-13	5-9-13	5-9-13	5-9-13	6-4-5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCCL 20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.21 10-11	>999	240	MT20	244/190
TCCL 10.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	-0.39 10-11	>999	180		
BCCL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.14 7	n/a	n/a		
BCCL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 196 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-10, 3-10

REACTIONS.	(size) 1=0-3-8, 7=0-3-8
Max Horz	1=-162(LC 10)
Max Grav	1=1619(LC 17), 7=1619(LC 18)
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-3085/114, 2-3=-2455/137, 3-4=-1862/163, 4-5=-1862/163, 5-6=-2455/137, 6-7=-3085/114
BOT CHORD	1-12=-39/2837, 11-12=-39/2837, 10-11=0/2190, 9-10=0/2094, 8-9=-41/2715, 7-8=-41/2715
WEBS	4-10=-71/278, 5-10=-751/71, 5-9=0/537, 6-9=-721/69, 6-8=0/274, 3-10=-752/71, 3-11=0/537, 2-11=-721/70, 2-12=0/274

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-7-3, Interior(1) 3-7-3 to 18-0-1, Exterior(2R) 18-0-1 to 21-7-4, Interior(1) 21-7-4 to 36-0-1 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
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

December 16, 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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	High Springs Lot 7	T29419353
HIGH_SPRINGS_LOT_7	B1GE	Common Supported Gable	1	1		

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Dec 15 13:09:18 2022 Page 1  
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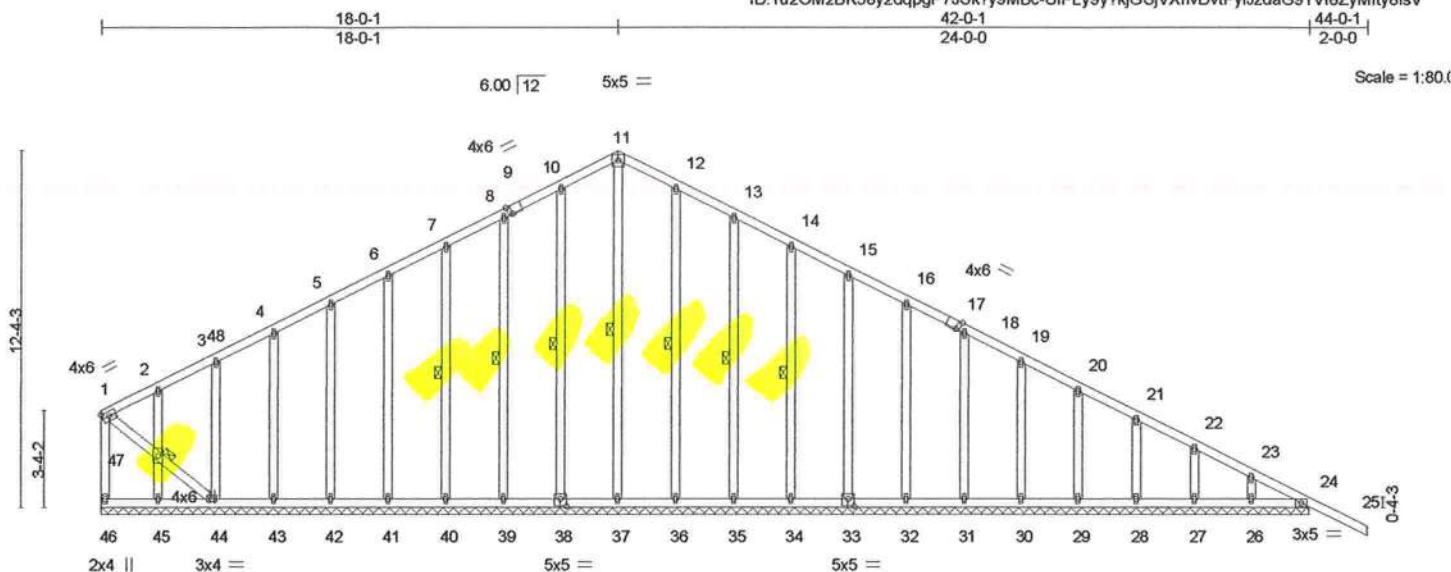


Plate Offsets (X,Y)--		[9:0-1-9,Edge], [17:0-1-9,Edge], [33:0-2-8,0-3-0], [38:0-2-8,0-3-0]	
		42-0-1	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.26	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.25	BC 0.09	Vert(LL) -0.02 25 n/r 120
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Vert(CT) -0.04 25 n/r 120
BCDL 10.0	Code FBC2020/TP12014	Matrix-S	Horz(CT) 0.01 24 n/a n/a
		Weight: 346 lb FT = 20%	

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 11-37, 10-38, 8-39, 7-40, 12-36, 13-35, 14-34
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 47

**REACTIONS.** All bearings 42-0-1.  
(lb) - Max Horz 46=-271(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 38, 39, 40, 41, 42, 43, 44, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 45, 24 except 46=-122(LC 10)  
Max Grav All reactions 250 lb or less at joint(s) 46, 37, 38, 39, 40, 41, 42, 43, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 45 except 44=256(LC 17), 24=264(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 8-10=-95/269, 10-11=-109/304, 11-12=-109/304, 12-13=-96/270

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 4-4-3, Exterior(2N) 4-4-3 to 18-0-1, Corner(3R) 18-0-1 to 22-0-1, Exterior(2N) 22-0-1 to 44-0-1 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
  - 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/TP1.
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 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) 38, 39, 40, 41, 42, 43, 44, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 45, 24 except (jt=lb) 46=122.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 24.



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

December 16, 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Chesterfield, MO 63017

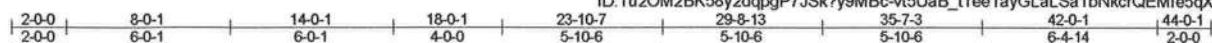


Job	Truss	Truss Type	Qty	Ply	High Springs Lot 7	T29419354
HIGH_SPRINGS_LOT_7	B2	Roof Special	8	1	Job Reference (optional)	

Mayo Truss Company, Inc.,	Mayo, FL - 32066
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$$6.00 \overline{)12} \qquad 6 \times 8 =$$

Scale = 1.84

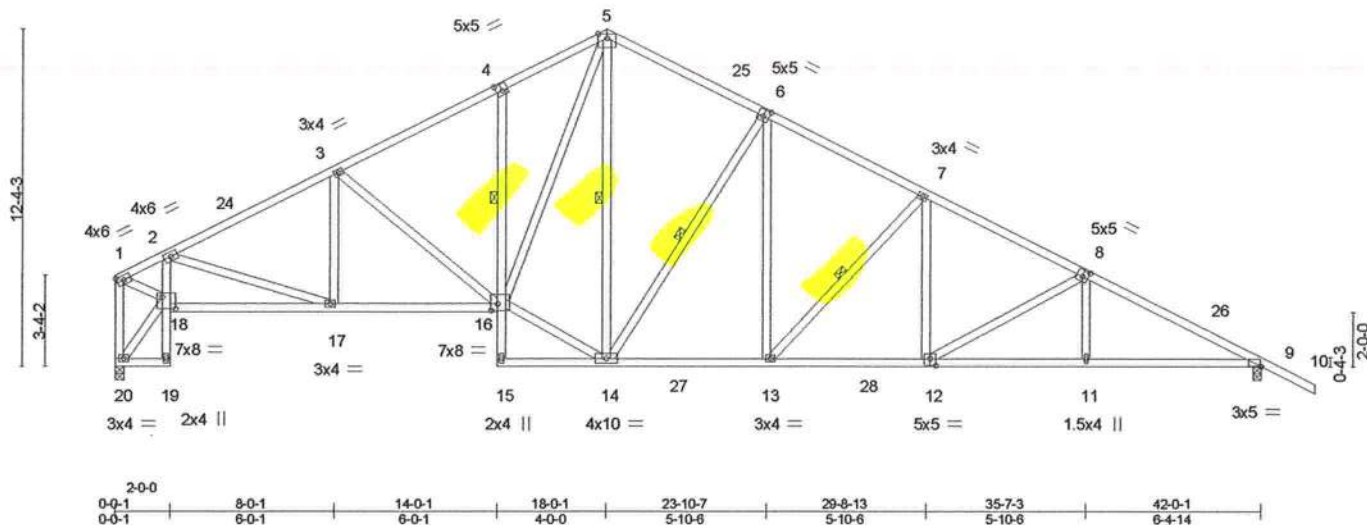


Plate Offsets (X,Y)--	[4:0-2-8,0-3-0], [6:0-2-8,0-3-0], [8:0-2-8,0-3-0], [9:0-0-4,0-0-0], [12:0-2-8,0-3-0], [16:0-2-12,0-3-0], [18:0-5-12,0-5-4]
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.68	Vert(LL) -0.25 12-13 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.84	Vert(CT) -0.46 12-13 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.26 9 n/a n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-AS		Weight: 297 lb	FT = 20%

**LUMBER-**

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

**BRACING-**

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied. Except:
	1 Row at midpt 4-16
WEBS	1 Row at midpt 5-14, 6-14, 7-13

### REACTIONS.

(size) 9=0-3.8, 20=0-3.8  
Max Horz 20=-271(LC 10)  
Max Uplift 9=-50(LC 12)  
Max Grav 9=2023(LC 18), 20=1851(LC 17)

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

TOP CHORD 1-2=-2390/0, 2-3=-2825/77, 3-4=-2486/135, 4-5=-2436/192, 5-6=-1827/200,  
6-7=-2487/161, 7-8=-3073/131, 8-9=-3652/62, 1-20=-2033/0  
BOT CHORD 2-18=-729/196, 17-18=0/2401, 16-17=0/2609, 13-14=0/2139, 12-13=0/2668,  
11-12=0/3176, 9-11=0/3182  
WEBS 2-17=-117/665, 3-16=-453/47, 14-16=0/1874, 5-16=0/1622, 5-14=-85/306,  
6-14=-1058/77, 6-13=0/896, 7-13=-843/86, 7-12=0/477, 8-12=-575/16, 8-11=0/275,  
18-20=-348/363, 1-18=0/2291

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat II; Exp B; Encl.; GCpI=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-4-3, Interior(1) 4-4-3 to 18-0-1, Exterior(2R) 18-0-1 to 22-2-7, Interior(1) 22-2-7 to 44-0-1 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

December 16, 2021



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16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	High Springs Lot 7	T29419355
HIGH_SPRINGS_LOT_7	F01	GABLE	2	1		

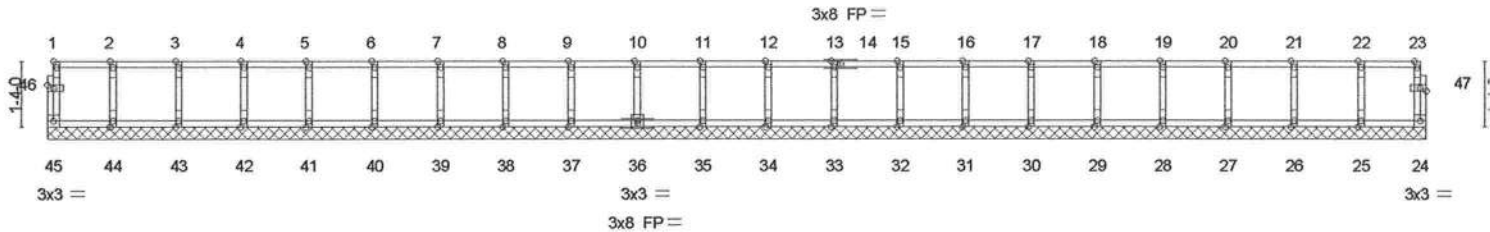
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Dec 15 13:09:22 2022 Page 1  
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0-1/8

0-1/8

Scale = 1:46.1



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	28-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	24	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014		Matrix-R							
									Weight: 121 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2(flat)	
OTHERS 2x4 SP No.2(flat)	

**REACTIONS.** All bearings 28-0-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 45, 24, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

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

**NOTES-**  
1) All plates are 1.5x4 MT20 unless otherwise indicated.  
2) Gable requires continuous bottom chord bearing.  
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).  
4) Gable studs spaced at 1-4-0 oc.  
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.  
Strongbacks to be attached to walls at their outer ends or restrained by other means.



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**MiTek**  
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Chesterfield, MO 63017

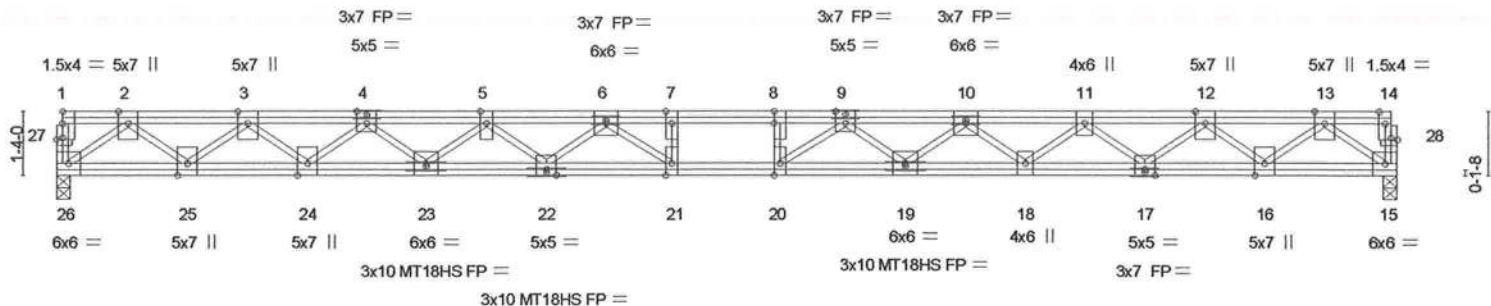


Job	Truss	Truss Type	Qty	Ply	High Springs Lot 7	T29419356
HIGH_SPRINGS_LOT_7	F02	Floor	7	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Dec 15 13:09:24 2022 Page 1  
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0-1-8  
1-3-0 1-4-8 2-0-0 1-4-8 0-1-8  
Scale: 1/4"=1'-0"



2-9-0	5-3-0	7-9-0	10-3-0	12-10-8	13-0-0	14-0-0	15-1-8	17-9-0	20-3-0	22-9-0	25-3-0	28-0-0
2-9-0	2-6-0	2-6-0	2-6-0	2-7-8	0-1-8	1-0-0	0-1-8	2-7-8	2-6-0	2-6-0	2-6-0	2-9-0

Plate Offsets (X,Y)-- [4:0-2-8,Edge], [8:0-3-0,0-0-0], [9:0-2-8,Edge], [27:0-1-8,0-0-8], [28:0-1-8,0-0-8]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.29	Vert(LL)	-0.58 20-21	>568	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.91	Vert(CT)	-0.80 20-21	>413	360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.07 15	n/a	n/a		
BCDL 5.0	Code FBC2020/TP12014		Matrix-S					Weight: 218 lb	FT = 20%F, 11%F

#### LUMBER-

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

#### 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.

#### REACTIONS.

(size) 26=0-3-8, 15=0-3-8  
Max Grav 26=1013(LC 1), 15=1013(LC 1)

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

TOP CHORD 2-3=-2133/0, 3-4=-3810/0, 4-5=-5066/0, 5-6=-5900/0, 6-7=-6368/0, 7-8=-6368/0, 8-9=-6368/0, 9-10=-5900/0, 10-11=-5066/0, 11-12=-3810/0, 12-13=-2133/0  
BOT CHORD 25-26=0/1247, 24-25=0/3071, 23-24=0/4532, 22-23=0/5582, 21-22=0/6198, 20-21=0/6368, 19-20=0/6198, 18-19=0/5582, 17-18=0/4532, 16-17=0/3071, 15-16=0/1247  
WEBS 7-21=-256/54, 8-20=-256/54, 2-26=-1542/0, 2-25=0/1175, 3-25=-1241/0, 3-24=0/978, 4-24=-955/0, 4-23=0/707, 5-23=-684/0, 5-22=0/421, 6-22=-456/0, 6-21=-228/614, 13-15=-1542/0, 13-16=0/1175, 12-16=-1241/0, 12-17=0/978, 11-17=-955/0, 11-18=0/707, 10-18=-684/0, 10-19=0/421, 9-19=-456/0, 9-20=-228/614

#### NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x7 MT20 unless otherwise indicated.
- Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Due to span to depth ratio of this truss, the floor may exhibit objectionable vibration and/or deflection. Building designer to consider providing means to dampen possible floor vibration.



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

December 16, 2022

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16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	High Springs Lot 7	T29419357
HIGH_SPRINGS_LOT_7	F03	Floor	13	1		
Job Reference (optional)						

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Dec 15 13:09:25 2022 Page 1  
ID:1u2OM2BK58y2dpgp7Jsk7y9MBc-neK\_QY1O4s8T3aa7pBXWBRYNGSmGI9EhI88DPzy8isO

0-1-8  
1-3-0 1-4-8 2-0-0 1-1-8 0-1-8  
Scale = 1:41.

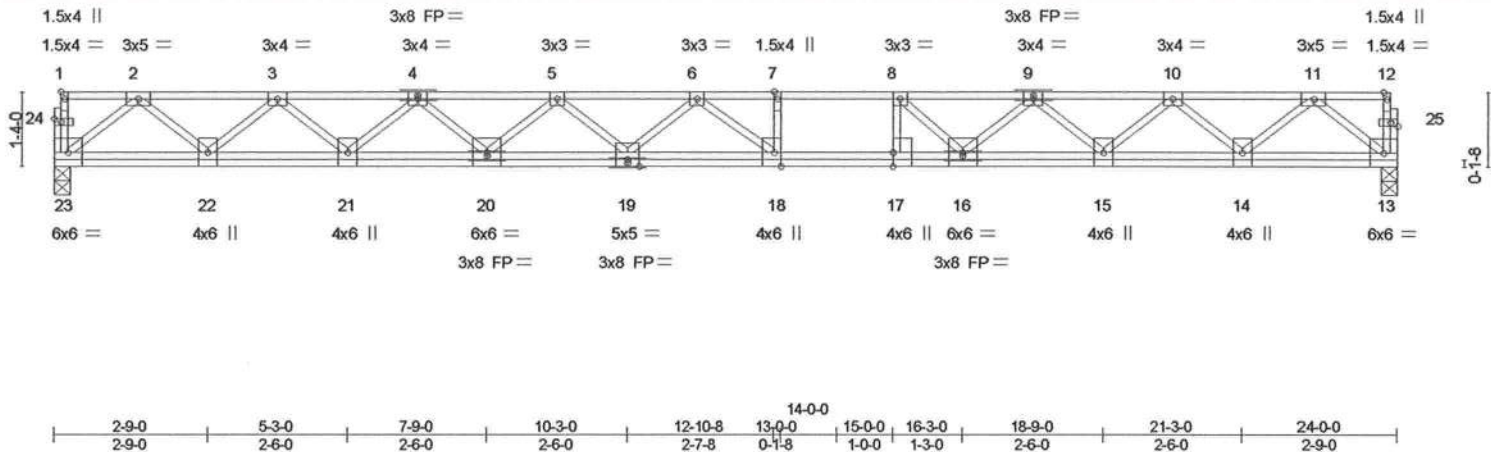


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [17:0-3-0,0-0-0], [18:0-3-0,Edge], [24:0-1-8,0-0-12], [25:0-1-8,0-0-12]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.83	Vert(LL)	-0.45 18-19	>634	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.90	Vert(CT)	-0.62 18-19	>460	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.04 13	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014		Matrix-S						
									Weight: 155 lb FT = 20%F, 11%F

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 23=0-3-8, 13=0-3-8  
Max Grav 23=866(LC 1), 13=866(LC 1)

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

TOP CHORD 2-3=-1697/0, 3-4=-2970/0, 4-5=-3834/0, 5-6=-4341/0, 6-7=-4296/0, 7-8=-4296/0, 8-9=-3825/0, 9-10=-2972/0, 10-11=-1696/0  
BOT CHORD 22-23=0/1004, 21-22=0/2427, 20-21=0/3491, 19-20=0/4179, 18-19=0/4414, 17-18=0/4296, 16-17=0/4296, 15-16=0/3480, 14-15=0/2430, 13-14=0/1003  
WEBS 8-17=-67/426, 2-23=-1270/0, 2-22=0/942, 3-22=-990/0, 3-21=0/737, 4-21=-708/0, 4-20=0/464, 5-20=-469/0, 6-19=-254/76, 6-18=-361/259, 11-13=-1268/0, 11-14=0/943, 10-14=-995/0, 10-15=0/736, 9-15=-689/0, 9-16=0/513, 8-16=-833/0

#### NOTES-

- Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

December 16, 2022

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Chesterfield, MO 63017

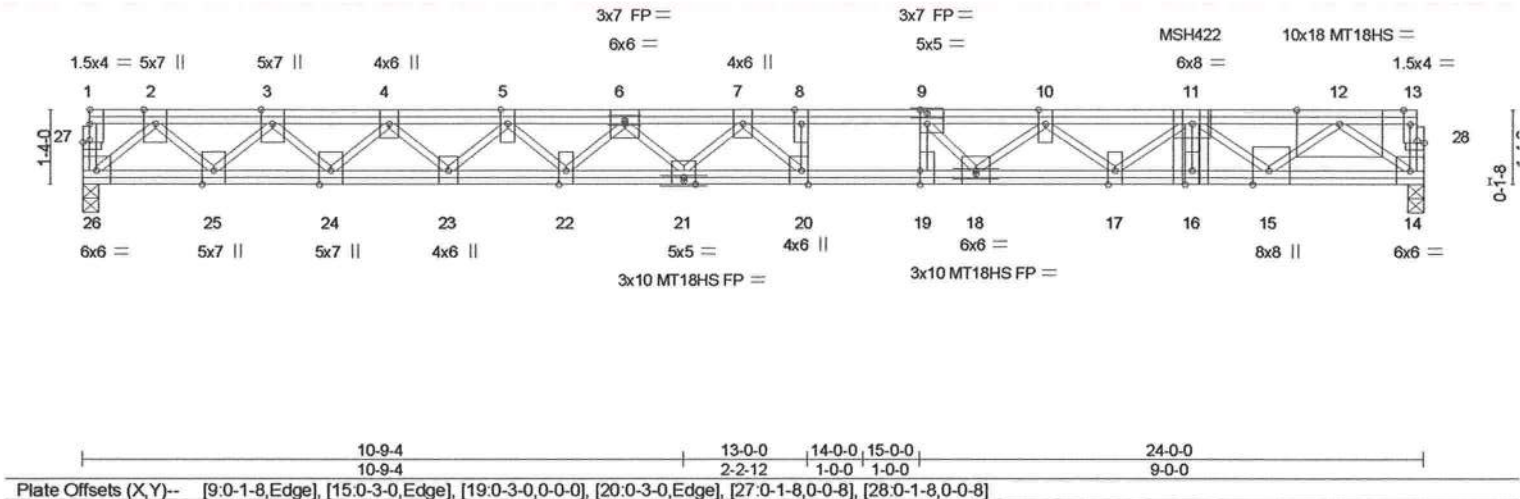


Job	Truss	Truss Type	Qty	Ply	High Springs Lot 7	T29419358
HIGH_SPRINGS_LOT_7	F05	Floor Girder	2	1		
Job Reference (optional)						

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Dec 15 13:09:27 2022 Page 1  
ID:1u2OM2BK58y2dpgP7JSk?y9MBc-j1SlrE3ecUOBjVxcZ\_HsdqXGS6mzO\_CSeKTSy8isM

0-1-8  
1-0-10  
2-0-0 0-10-8 1-3-0 1-3-0 1-3-0 1-3-0 1-3-0 1-3-0 1-3-0 0-1-8  
Scale = 1:41.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.94	Vert(LL) -0.44 20 >645 480	MT18HS	244/190
BCLL 0.0	Lumber DOL 1.00	WB 0.67	Vert(CT) -0.61 20 >468 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.06 14 n/a n/a		
	Code FBC2020/TPI2014			Weight: 191 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
21-26: 2x4 SP No.2(flat), 14-21: 2x4 SP 2400F 2.0E(flat)	
WEBS 2x4 SP No.2(flat)	

**REACTIONS.** (size) 26=0-3-8, 14=0-3-8  
Max Grav 26=1067(LC 1), 14=1871(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1942/0, 3-4=-3541/0, 4-5=-4841/0, 5-6=-5848/0, 6-7=-6544/0, 7-8=-7051/0, 8-9=-7051/0, 9-10=-7022/0, 10-11=-6598/0, 11-12=-4140/0  
BOT CHORD 25-26=0/1124, 24-25=0/2812, 23-24=0/4258, 22-23=0/5412, 21-22=0/6265, 20-21=0/6830, 19-20=0/7051, 18-19=0/7055, 17-18=0/6914, 16-17=0/6200, 15-16=0/6200, 14-15=0/2349  
WEBS 8-20=-304/0, 9-19=-320/51, 2-26=-1478/0, 2-25=0/1179, 3-25=-1248/0, 3-24=0/1047, 4-24=-1029/0, 4-23=0/836, 5-23=-820/0, 5-22=0/626, 6-22=-599/0, 6-21=0/466, 7-21=-574/0, 7-20=0/761, 12-14=-2904/0, 12-15=0/2374, 11-15=-2623/0, 11-17=0/507, 10-17=-419/0, 9-18=-204/428

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 3x7 MT20 unless otherwise indicated.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 5) Use MiTek MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 19-10-4 from the left end to connect truss(es) to back face of top chord.
  - 6) Fill all nail holes where hanger is in contact with lumber.
  - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 14-26=-7, 1-13=-67  
Concentrated Loads (lb)  
Vert: 11=-1206(B)



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

December 16, 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

**MiTek**  
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Dec 15 13:09:29 2022 Page 1  
ID:1u2OM2BK58v2dnpP7Jsk7v9MBc-qPaVGw4u85evYBtu21bSMH5v38hExaGfm7RYkv8Jsk

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat) *Except* 10-14: 2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.2(flat)		

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

**TOP CHORD** 2-3=-1342/0, 3-4=-2272/0, 4-5=-2781/0, 5-6=-2980/0, 6-7=-2401/0, 7-8=-2401/0,  
8-9=-1606/0, 9-10=-437/0, 10-11=0/1222, 11-12=0/3257, 12-13=0/2112

**BOT CHORD** 26-27=0/812, 25-26=0/1901, 24-25=0/2617, 23-24=0/2971, 22-23=0/2821, 21-22=0/2401,  
20-21=0/2401, 19-20=0/1086, 18-19=-429/0, 17-18=-2127/0, 16-17=-3257/0,  
15-16=-1130/0

**WEBS** 8-21=0/629, 12-17=-1132/0, 2-27=-1027/0, 2-26=0/721, 3-26=-758/0, 3-25=0/504,  
4-25=-468/0, 5-24=-257/0, 6-23=-40/298, 6-22=-634/0, 11-17=-1490/0, 11-18=0/1227,  
10-18=-1248/0, 10-19=0/974, 9-19=-898/0, 9-20=0/706, 8-20=-1156/0, 13-15=0/1429,  
13-16=-1403/0, 12-16=0/1541

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x7 MT20 unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 924 lb uplift at joint 15.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" o.c. and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION. Do not erect truss backwards.

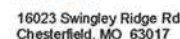


December 16, 2023

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/10/2020 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





Job	Truss	Truss Type	Qty	Ply	High Springs Lot 7	T29419360
HIGH_SPRINGS_LOT_7	F08	Floor	3	1		
Job Reference (optional)						

Mayo Truss Company, Inc., Mayo, FL - 32066,

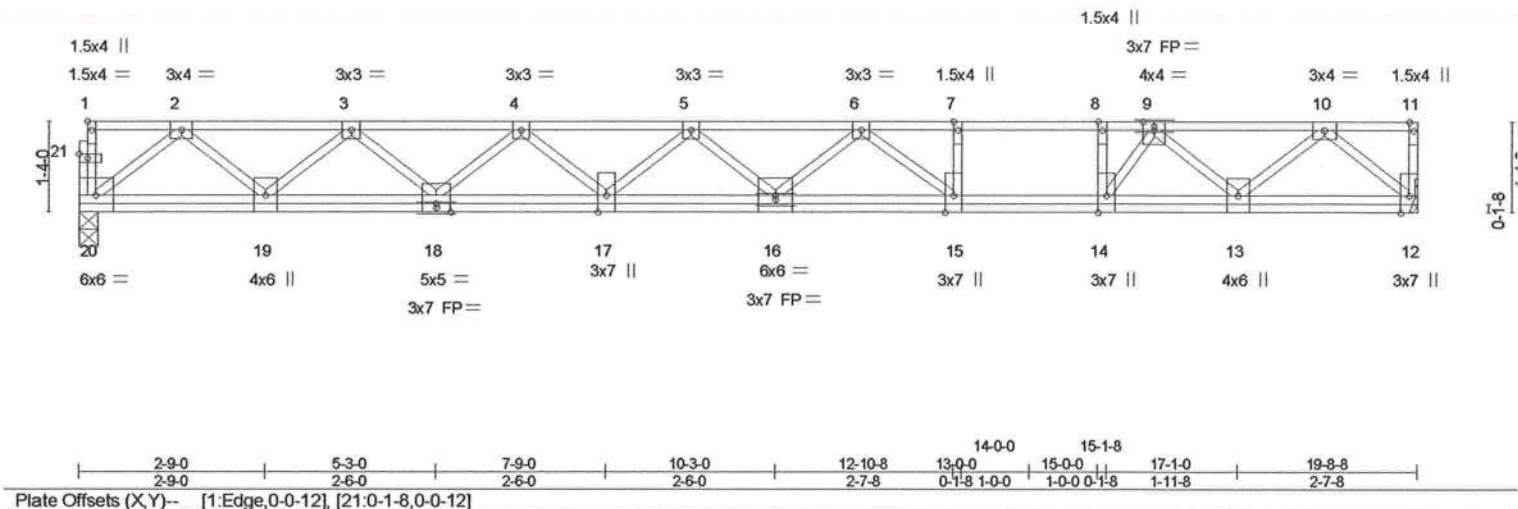
8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Dec 15 13:09:30 2022 Page 1  
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0-1-8

H 1-3-0

1-4-8 2-0-0 0-8-8

Scale = 1:33.3



Job	Truss	Truss Type	Qty	Ply	High Springs Lot 7	T29419361
HIGH_SPRINGS_LOT_7	F09	Floor Girder	1	1		
Job Reference (optional)						

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Dec 15 13:09:31 2022 Page 1  
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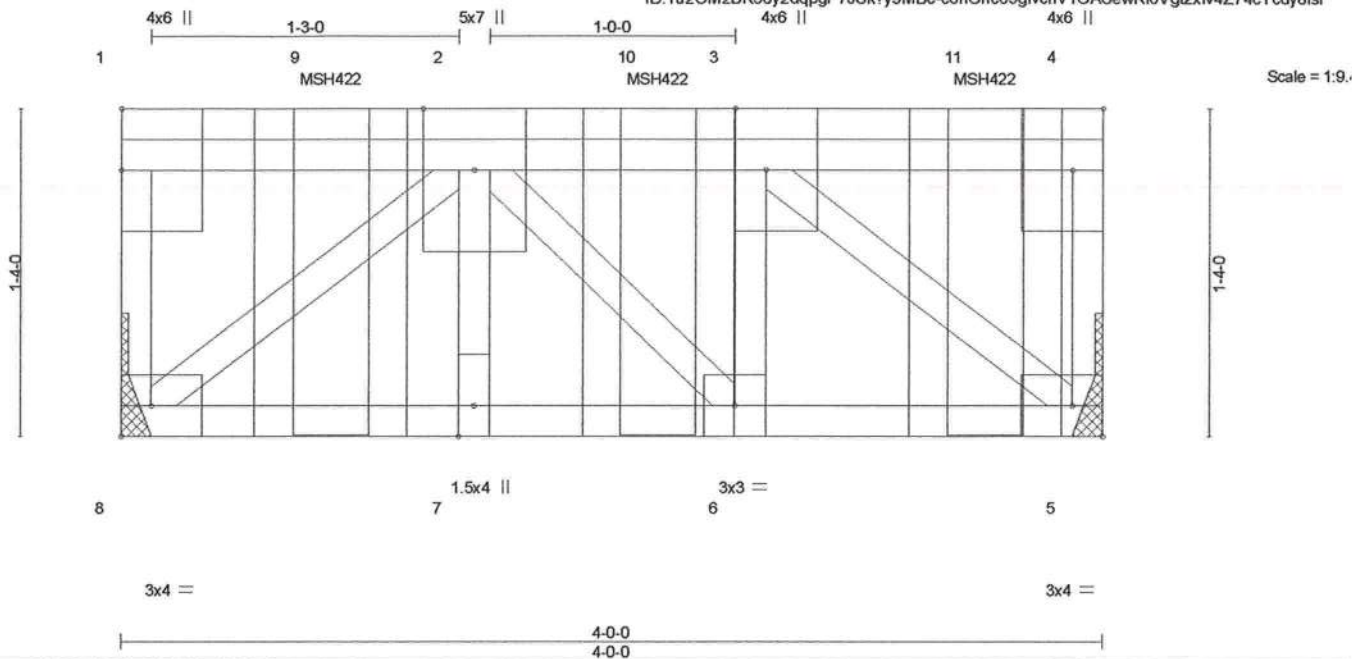


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.39	Vert(LL)	-0.01	7	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.31	Vert(CT)	-0.01	7	>999	360		
BCLL 0.0	Rep Stress Incr NO	WB 0.18	Horz(CT)	0.01	5	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-P						Weight: 30 lb	FT = 20%F, 11%E

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 5=Mechanical, 8=Mechanical  
Max Grav 5=1250(LC 1), 8=1049(LC 1)

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

TOP CHORD 1-8=-252/0, 4-5=-449/0, 2-3=-952/0  
BOT CHORD 7-8=0/947, 6-7=0/947, 5-6=0/952  
WEBS 3-5=-1239/0, 2-8=-1233/0

#### NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Use MiTek MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 1-4-0 oc max. starting at 0-10-4 from the left end to 3-6-4 to connect truss(es) to front face of top chord.
- 4) Fill all nail holes where hanger is in contact with lumber.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 5-8=-7, 1-4=-67  
Concentrated Loads (lb)  
Vert: 9=-669(F) 10=-669(F) 11=-677(F)



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
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December 16, 2022

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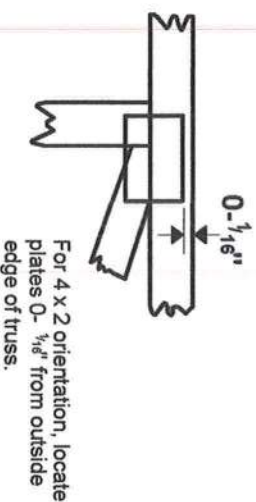
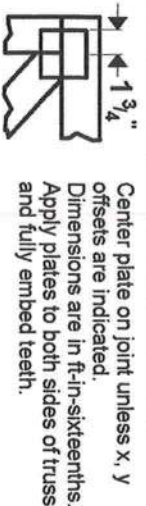


16023 Swingley Ridge Rd  
Chesterfield, MO 63017



# Symbols

## PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

## PLATE SIZE

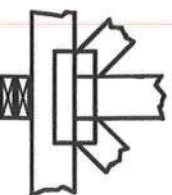
4 X 4

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

## LATERAL BRACING LOCATION



## BEARING



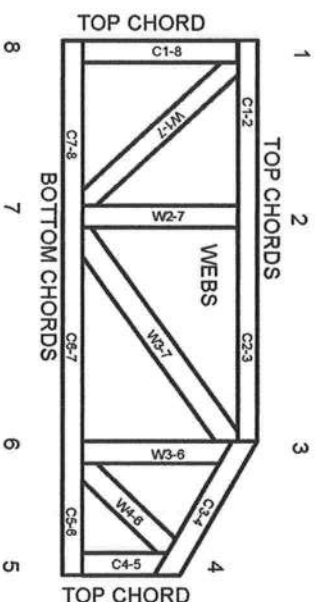
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

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

# Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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# General Safety Notes

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

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