



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

RE: saunders - Saunders

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: CW Gilbert Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Fort White 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 8.4
Wind Code: N/A Wind Speed: 130 mph
Roof Load: 55.0 psf Floor Load: N/A psf

This package includes 9 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.

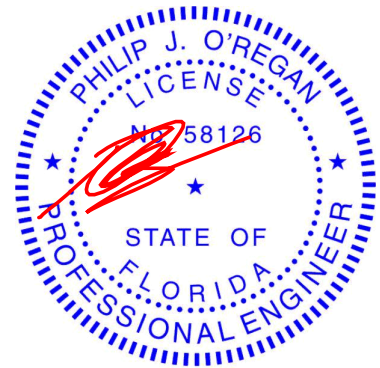
No.	Seal#	Truss Name	Date
1	T22149396	A1	12/11/20
2	T22149397	A2	12/11/20
3	T22149398	A3	12/11/20
4	T22149399	A4GE	12/11/20
5	T22149400	CJ01	12/11/20
6	T22149401	J1	12/11/20
7	T22149402	J2	12/11/20
8	T22149403	J3	12/11/20
9	T22149404	J4	12/11/20

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: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2021.

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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

December 11,2020

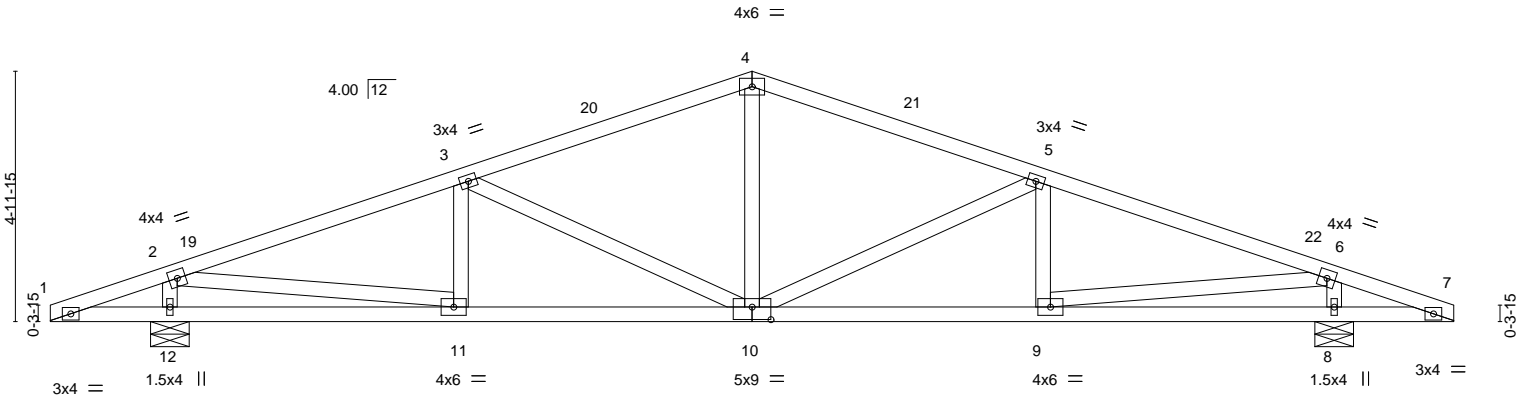
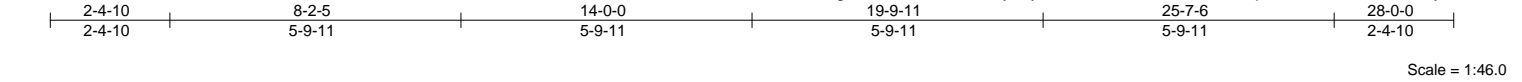
ORegan, Philip

1 of 1

Job	Truss	Truss Type	Qty	Ply	Saunders	T22149396
SAUNDERS	A1	Common	7	1		
Job Reference (optional)						

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 08:03:46 2020 Page 1
ID:raC52gnWeUX6ZWLOal1iiHyAJy_-nVuXHX4HGcY84mAiY06qk2ovLRzNHuT25_ZHiwyA5ix



2-0-0	2-4-10	8-2-5	14-0-0	19-9-11	25-7-6	26-0-0	28-0-0
2-0-0	0-4-10	5-9-11	5-9-11	5-9-11	5-9-11	0-4-10	2-0-0
Plate Offsets (X,Y)-- [10:0-4-8,0-3-0]							

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.38	Vert(LL)	-0.06 10-11	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.20 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.04 8	n/a	n/a		
BCDL 20.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 136 lb	FT = 20%

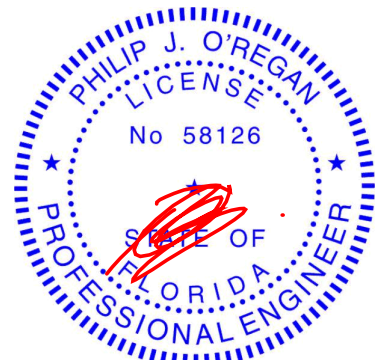
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 8=0-9-4, 12=0-9-4
Max Horz 12=75(LC 11)
Max Uplift 8=156(LC 12), 12=223(LC 12)
Max Grav 8=1540(LC 1), 12=1540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2168/445, 3-4=-1722/411, 4-5=-1722/411, 5-6=-2168/445
BOT CHORD 10-11=-326/1995, 9-10=-331/1995
WEBS 4-10=-48/682, 5-10=-533/133, 6-9=-448/1991, 6-8=-1311/421, 3-10=-533/133, 2-11=-448/1991, 2-12=-1311/421

- 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=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 28-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 8 and 223 lb uplift at joint 12.
 - 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.



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Date:

December 11,2020

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

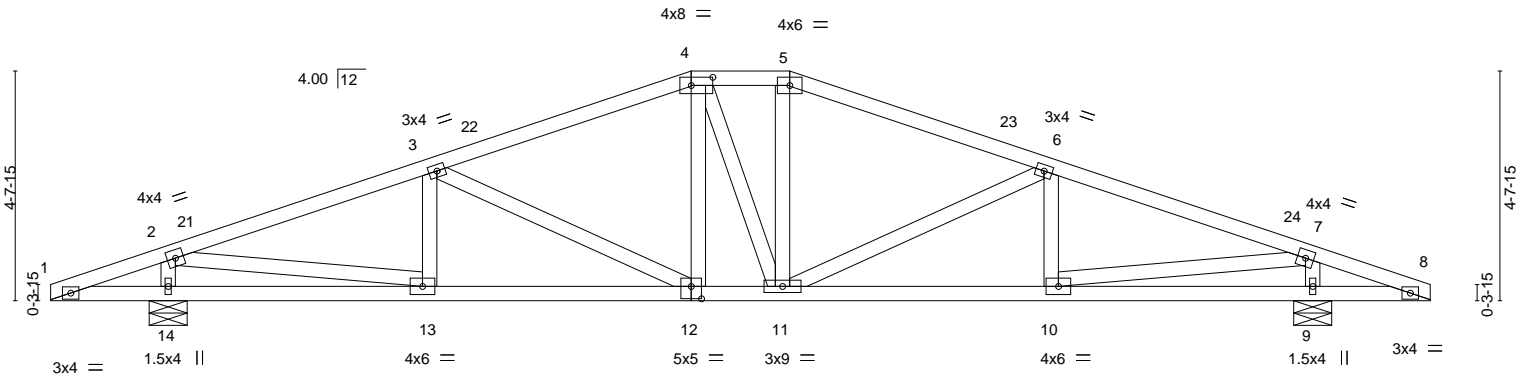
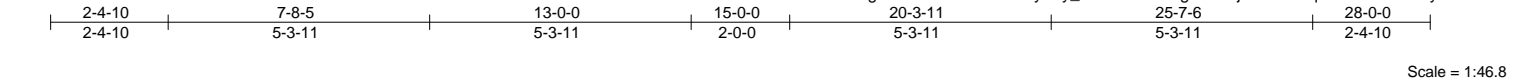


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Saunders	T22149397
SAUNDERS	A2	Hip	2	1		
Job Reference (optional)						

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 08:03:47 2020 Page 1
ID:raC52gnWeUX6ZWLOal1iiHyAJy_-FhSvUt5v1wg?iwlu6jd3HGK4iqLr0LaBKeJrENyA5iw



2-0-0	2-4-10	7-8-5	13-0-0	15-0-0	20-3-11	25-7-6	26-0-0	28-0-0
2-0-0	0-4-10	5-3-11	5-3-11	2-0-0	5-3-11	5-3-11	0-4-10	2-0-0
Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [12:0-2-8,0-3-0]								

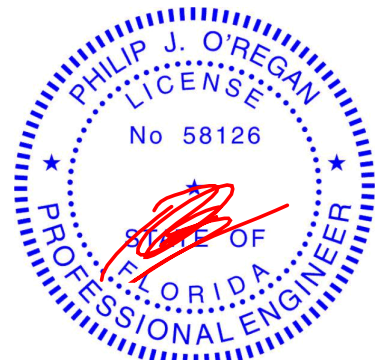
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	-0.06 12-13	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.20 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.04 9	n/a	n/a		
BCDL 20.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 145 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		

REACTIONS. (size) 14=0-9-4, 9=0-9-4
Max Horz 14=70(LC 11)
Max Uplift 14=223(LC 12), 9=156(LC 12)
Max Grav 14=1540(LC 1), 9=1540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2148/466, 3-4=-1800/460, 4-5=-1652/461, 5-6=-1794/457, 6-7=-2148/471
BOT CHORD 12-13=-373/1981, 11-12=-277/1647, 10-11=-360/1981
WEBS 2-14=-1324/428, 2-13=-501/2031, 3-12=-411/110, 4-12=-11/332, 5-11=-32/340, 6-11=-417/111, 7-10=-485/2031, 7-9=-1325/421

- 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=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-0-0, Exterior(2E) 13-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 28-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Provide adequate drainage to prevent water ponding.
 - 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 14 and 156 lb uplift at joint 9.
 - 8) 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.



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Date:

December 11,2020

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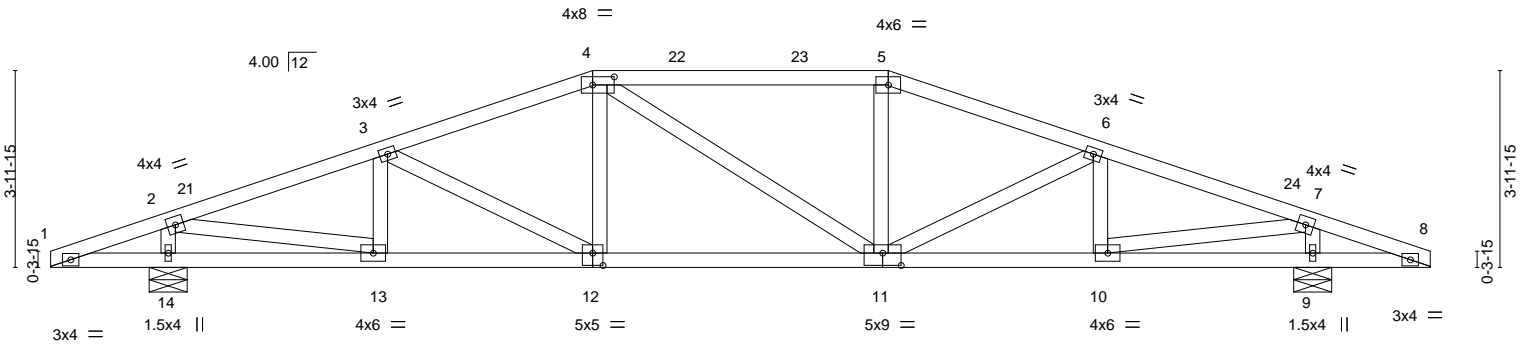
Job	Truss	Truss Type	Qty	Ply	Saunders	T22149398
SAUNDERS	A3	Hip	2	1	Job Reference (optional)	

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 08:03:47 2020 Page 1
ID:raC52gnWeUX6ZWLOal1iiHyAJy_-FhSvUt5v1wg?iwludj3HGK26qKc0LhBKeJrENyA5iw

2-4-10	6-8-5	11-0-0	17-0-0	21-3-11	25-7-6	28-0-0
2-4-10	4-3-11	4-3-11	6-0-0	4-3-11	4-3-11	2-4-10

Scale = 1:46.8



2-0-0	2-4-10	6-8-5	11-0-0	17-0-0	21-3-11	25-7-6	26-0-0	28-0-0
2-0-0	0-4-10	4-3-11	4-3-11	6-0-0	4-3-11	4-3-11	0-4-10	2-0-0
Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [11:0-4-8,0-3-0], [12:0-2-8,0-3-0]								

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.06	12	>999	240	MT20
TCDL 15.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.21	11-12	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.04	9	n/a	n/a	
BCDL 20.0	Code FBC2020/TPI2014		Matrix-AS						
Weight: 138 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

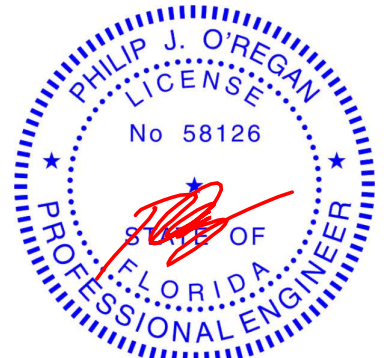
(size) 14=0-9-4, 9=0-9-4
Max Horz 14=59(LC 11)
Max Uplift 14=223(LC 12), 9=156(LC 12)
Max Grav 14=1540(LC 1), 9=1540(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2033/464, 3-4=-1991/509, 4-5=-1852/515, 5-6=-1988/508, 6-7=-2034/464
BOT CHORD 12-13=-376/1879, 11-12=-350/1847, 10-11=-363/1880
WEBS 2-14=-1335/429, 2-13=-516/2001, 4-12=0/338, 5-11=0/341, 7-10=-516/2002,
7-9=-1336/429

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=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 17-0-0, Exterior(2R) 17-0-0 to 21-3-11, Interior(1) 21-3-11 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 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 223 lb uplift at joint 14 and 156 lb uplift at joint 9.
- 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.



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Date:

December 11,2020

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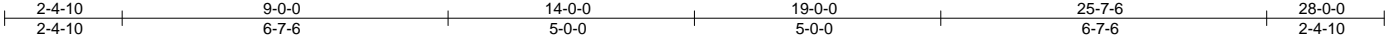


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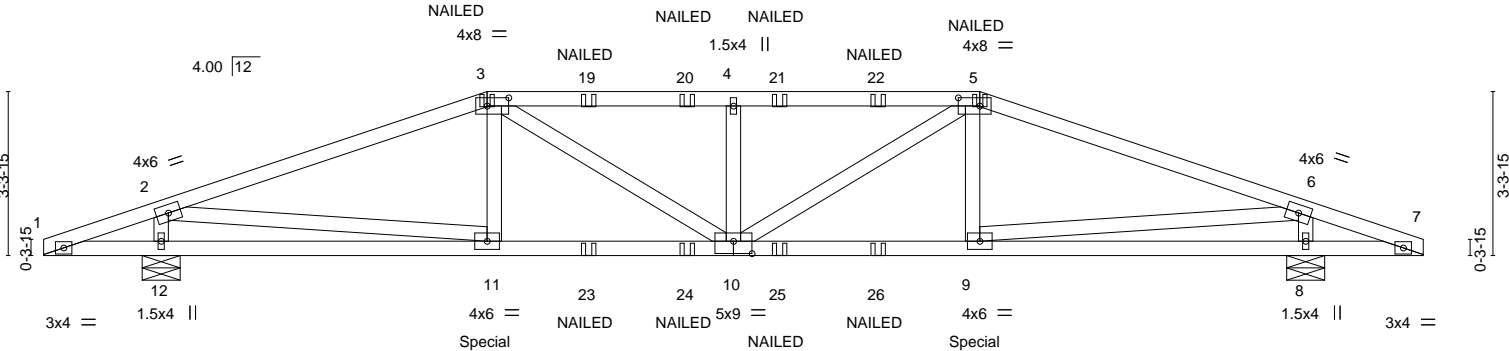
Job	Truss	Truss Type	Qty	Ply	Saunders	T22149399
SAUNDERS	A4GE	Hip Girder	2	2	Job Reference (optional)	

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

8.430 s Nov 30 2020
MiTek Industries, Inc.
Fri Dec 11 08:03:50 2020
Page 1
ID:raC52gnWeUX6ZWLOa1iHjA_Jy_-fG726v7nJr2aZNUtNsBmvuyYi2K1Dhle0cXVrhyA5it



Scale = 1:46.8



2-0-0	2-4-10	9-0-0	14-0-0	19-0-0	25-7-6	26-0-0	28-0-0
2-0-0	0-4-10	6-7-6	5-0-0	5-0-0	6-7-6	0-4-10	2-0-0
Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [5:0-5-4,0-2-0], [10:0-4-8,0-3-0]							

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(LL)	-0.11	10	>999	240	MT20	244/190
TCDL 15.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.28	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.52	Horz(CT)	0.04	8	n/a	n/a		
BCDL 20.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 268 lb	FT = 20%

LUMBER-				BRACING-	
TOP CHORD	2x4 SP No.2			TOP CHORD	Structural wood sheathing directly applied or 4-7-7 oc purlins.
BOT CHORD	2x4 SP No.2			BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2				

"Special" indicates special hanger(s) or other connection device(s) required at location(s)shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.

REACTIONS. (size) 12=0-9-4, 8=0-9-4
Max Horz 12=-48(LC 6)
Max Uplift 12=-553(LC 8), 8=-486(LC 8)
Max Grav 12=2887(LC 1), 8=2887(LC 1)

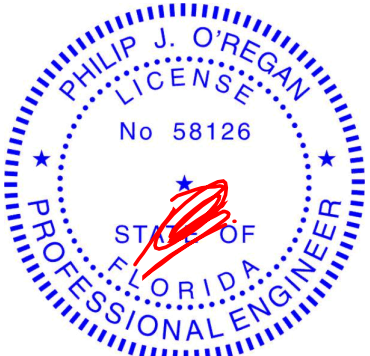
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-319/52, 2-3=-5256/978, 3-4=-5872/1086, 4-5=-5872/1086, 5-6=-5256/990, 6-7=-321/64
BOT CHORD 1-12=-49/338, 11-12=-54/374, 10-11=-847/4929, 9-10=-858/4929, 8-9=-63/339, 7-8=-63/339
WEBS 2-12=-2605/604, 2-11=-862/4633, 3-11=-59/571, 3-10=-155/1179, 4-10=-740/262, 5-10=-145/1179, 5-9=-55/571, 6-9=-808/4634, 6-8=-2605/566

- NOTES-**
- 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: 2x4 - 1 row 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.
 - 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=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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.
 - Provide adequate drainage to prevent water ponding.
 - 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 553 lb uplift at joint 12 and 486 lb uplift at joint 8.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 822 lb down and 295 lb up at 9-0-0, and 822 lb down and 295 lb up at 18-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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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6904 Parke East Blvd. Tampa FL 33610
Date:

December 11,2020



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Saunders
SAUNDERS	A4GE	Hip Girder	2	2	T22149399
Job Reference (optional)					

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-70, 3-5=-70, 5-7=-70, 13-16=-40

Concentrated Loads (lb)

Vert: 3=-121(B) 5=-121(B) 11=-822(B) 9=-822(B) 19=-121(B) 20=-121(B) 21=-121(B) 22=-121(B) 23=-82(B) 24=-82(B) 25=-82(B) 26=-82(B)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 08:03:51 2020 Page 1
ID:raC52gnWeUX6ZWLOal1iiHyAJy_-7ThQKF8P48ARBX3gLZI?R6VeVSDay8VnFGH2N8yA5is

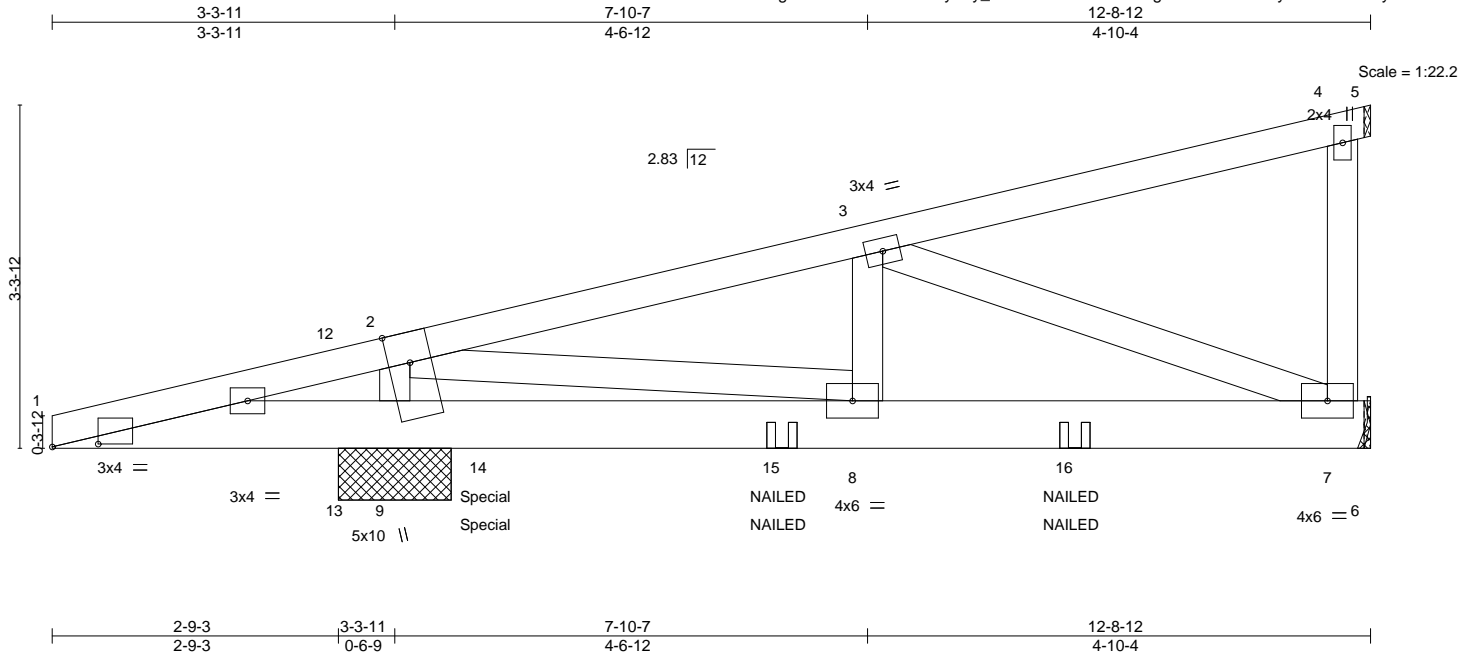


Plate Offsets (X,Y)-- [1:0-5-5,0-0-5]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.08	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	20.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 69 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-9-7 oc bracing.

REACTIONS.

(size) 9=1-1-1, 7=Mechanical
Max Horz 9=193(LC 7)
Max Uplift 9=-910(LC 8), 7=-239(LC 8)
Max Grav 9=1278(LC 31), 7=850(LC 30)

FORCES.

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

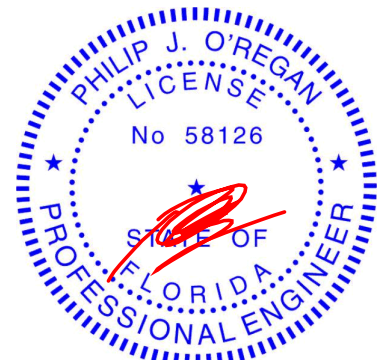
TOP CHORD	1-2=-430/2295, 2-3=-693/455
BOT CHORD	1-9=-2189/414, 8-9=-2286/502, 7-8=-417/653
WEBS	2-9=-1168/47, 2-8=-368/2334, 3-8=-384/351, 3-7=-625/415

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 910 lb uplift at joint 9 and 239 lb uplift at joint 7.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 157 lb down and 45 lb up at 0-0-0, and 157 lb down and 45 lb up at 0-0-0 on top chord, and 71 lb down at 0-0-0, 71 lb down at 0-0-0, and 133 lb down and 649 lb up at 4-2-10, and 133 lb down and 649 lb up at 4-2-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-30(F=40), 4-5=10(F=40)
Concentrated Loads (lb)
Vert: 1=-393(F=-197, B=-197) 14=909(F=454, B=454) 15=-48(F=-24, B=-24) 16=-141(F=-70, B=-70)



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Continued on page 2



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6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	Saunders	T22149400
SAUNDERS	CJ01	Diagonal Hip Girder	4	1	Job Reference (optional)	

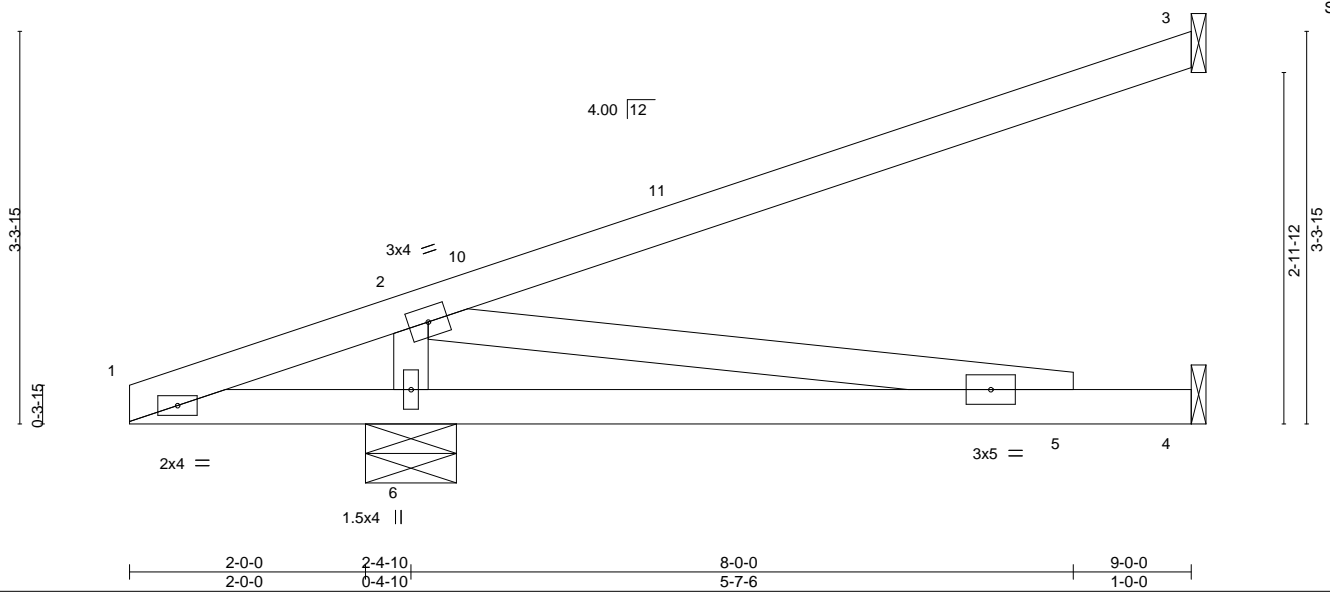
LOAD CASE(S) Standard
 Trapezoidal Loads (plf)
 Vert: 1=0(F=20, B=20)-to-13=-48(F=-4, B=-4), 13=0(F=20, B=20)-to-6=-242(F=-101, B=-101)

Job	Truss	Truss Type	Qty	Ply	Saunders	T22149401
SAUNDERS	J1	Jack-Partial	12	1		
Job Reference (optional)						

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8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 08:03:52 2020 Page 1
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2-4-10 2-4-10 9-0-0 6-7-6



Scale = 1:19.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.25	BC 0.57	Vert(LL) -0.06 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.13	Vert(CT) -0.20 5-6 >400 180		
BCDL 20.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 3 n/a n/a		
	Code FBC2020/TPI2014			Weight: 37 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

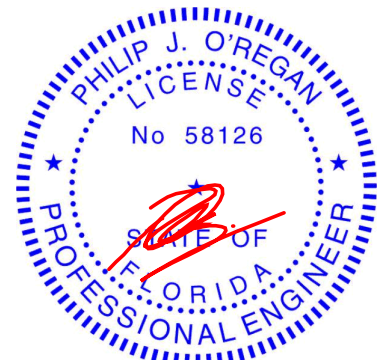
(size) 3=Mechanical, 4=Mechanical, 6=0-9-4
Max Horz 6=105(LC 12)
Max Uplift 3=-71(LC 12), 6=-117(LC 12)
Max Grav 3=191(LC 1), 4=169(LC 3), 6=671(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-426/425

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-11-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 3 and 117 lb uplift at joint 6.
- 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.



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December 11, 2020

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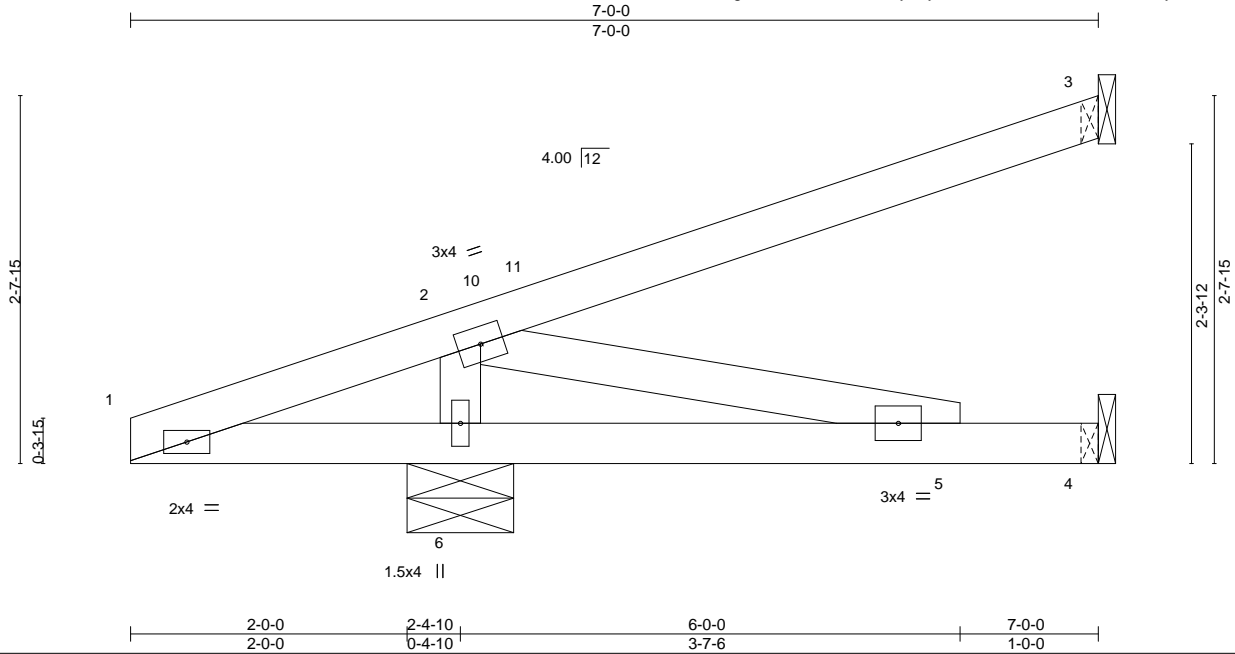
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Job	Truss	Truss Type	Qty	Ply	Saunders	T22149402
SAUNDERS	J2	Jack-Open	8	1		

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 08:03:52 2020 Page 1
ID:raC52gnWeUX6ZWLOaf1iiHyAJy_-bfFoXb81rSIHohdsvGDE_J2yCr7bhivwUw0bwayA5ir



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.25	BC 0.22	Vert(LL) -0.01 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.07	Vert(CT) -0.04 5-6 >999 180		
BCDL 20.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.00 3 n/a n/a		
	Code FBC2020/TPI2014			Weight: 28 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.
BOT CHORD Rigid ceiling directly applied.

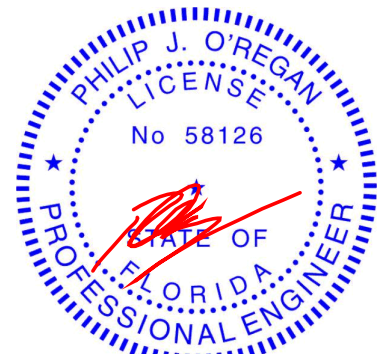
REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 6=0-9-4
Max Horz 6=82(LC 12)
Max Uplift 3=-49(LC 12), 6=-116(LC 12)
Max Grav 3=130(LC 1), 4=91(LC 3), 6=582(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-414/391

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 3 and 116 lb uplift at joint 6.
- 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.



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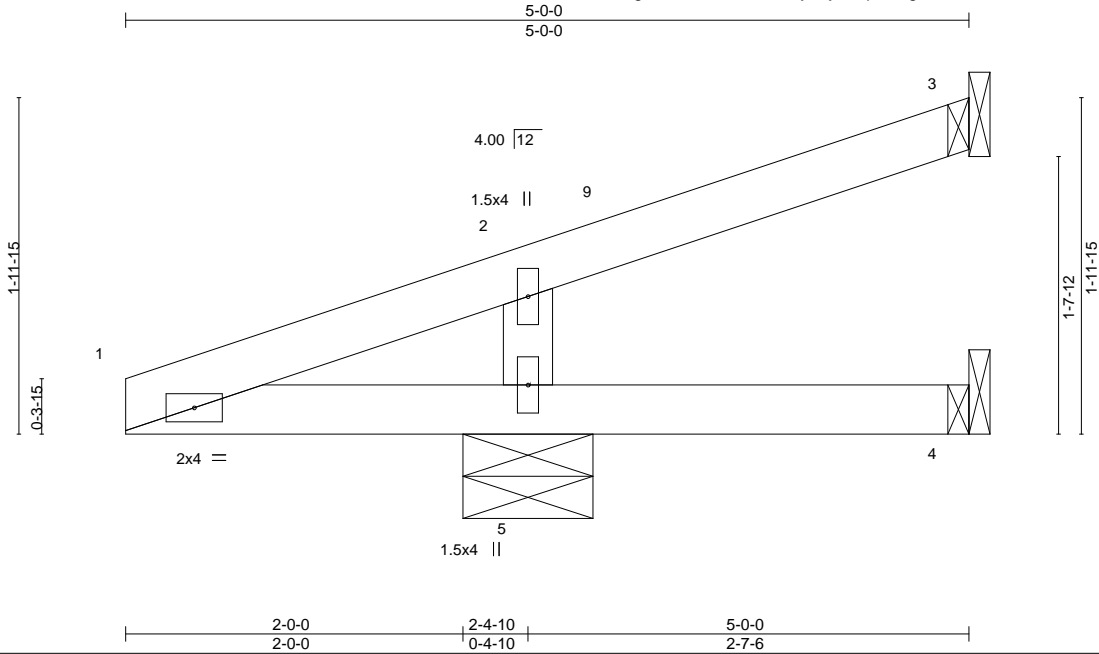
Job	Truss	Truss Type	Qty	Ply	Saunders	T22149403
SAUNDERS	J3	Jack-Open	8	1		

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

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Scale = 1:13.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 15.0	Plate Grip DOL 1.25	BC 0.33	Vert(LL) -0.01 4-5 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Vert(CT) 0.01 4-5 >999 180		
BCDL 20.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.04 3 n/a n/a		
	Code FBC2020/TPI2014			Weight: 16 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.
BOT CHORD Rigid ceiling directly applied.

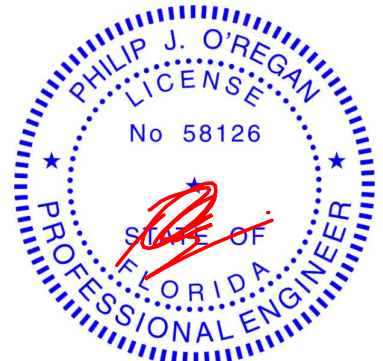
REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-9-4
Max Horz 5=58(LC 12)
Max Uplift 3=-21(LC 9), 4=-7(LC 1), 5=-124(LC 12)
Max Grav 3=32(LC 17), 4=25(LC 14), 5=525(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-301/306

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-4 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 3, 7 lb uplift at joint 4 and 124 lb uplift at joint 5.
- 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.



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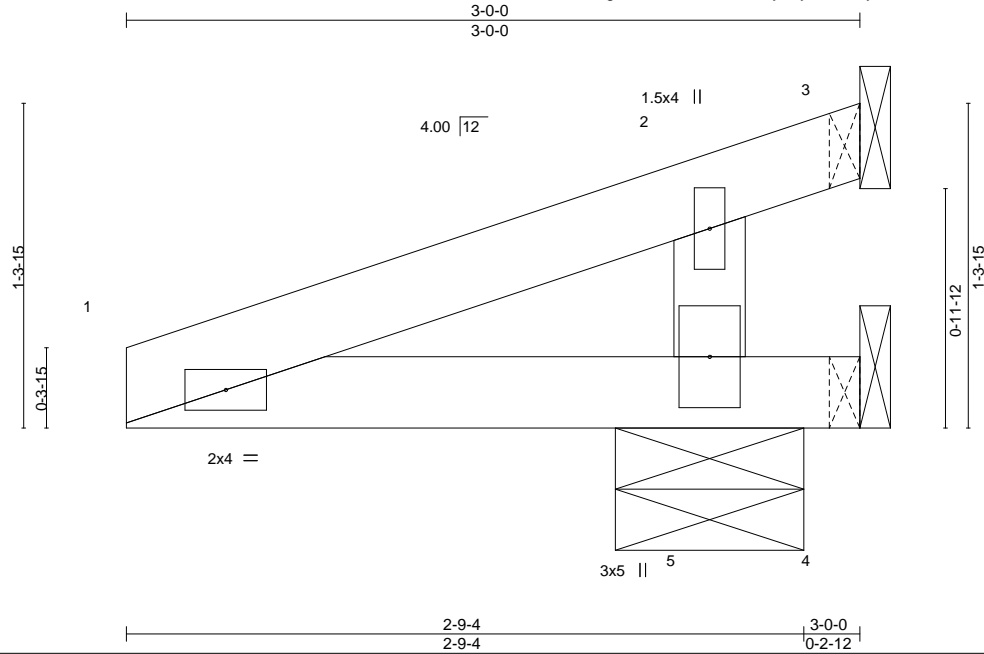
6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	Saunders	T22149404
SAUNDERS	J4	Jack-Open	8	1		
Job Reference (optional)						

Mayo Truss Company, Inc.,

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8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 08:03:54 2020 Page 1
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Scale = 1:9.4

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.00	MT20	244/190		
TCDL	15.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	0.00				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.02				
BCDL	20.0	Code FBC2020/TPI2014		Matrix-MP							
								Weight: 10 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 or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-9-4
Max Horz 5=35(LC 12)
Max Uplift 3=-251(LC 1), 4=-285(LC 1), 5=-249(LC 12)
Max Grav 3=69(LC 12), 4=85(LC 12), 5=859(LC 1)

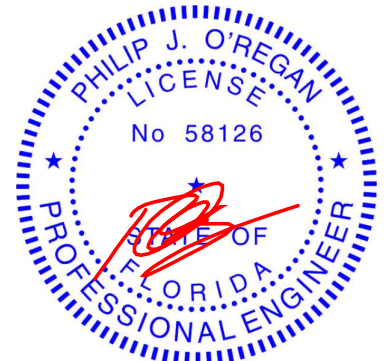
FORCES.

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

WEBS 2-5=-424/294

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 3, 285 lb uplift at joint 4 and 249 lb uplift at joint 5.



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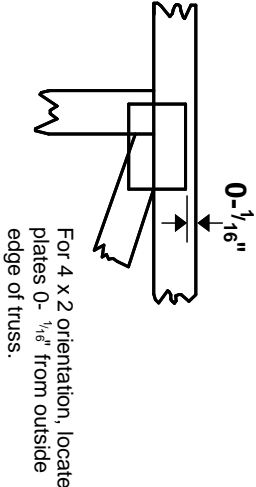
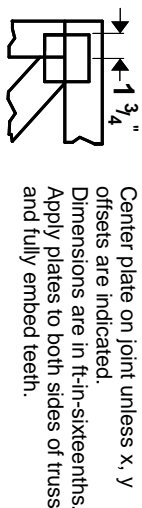
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Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

PLATE SIZE

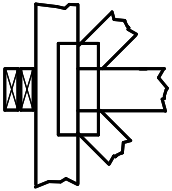
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

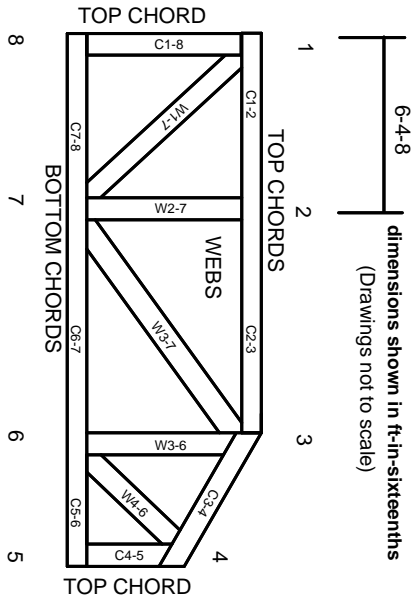
BEARING



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

Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:
ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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

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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.