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

RE: spec_house - Spec House

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: G-N CONSTRUCTION Project Name: . Model: .
Lot/Block: LOT 32 Subdivision: FT. WHITE PARK
Address: ., .
City: FT. 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: 40.0 psf Floor Load: N/A psf

This package includes 25 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	No.	Seal#	Truss Name	Date
1	T23624798	A01	4/21/21	23	T23624820	J03	4/21/21
2	T23624799	A02	4/21/21	24	T23624821	J04	4/21/21
3	T23624800	A03	4/21/21	25	T23624822	J05	4/21/21
4	T23624801	A04	4/21/21				
5	T23624802	A05	4/21/21				
6	T23624803	A06	4/21/21				
7	T23624804	A07	4/21/21				
8	T23624805	A08	4/21/21				
9	T23624806	A09	4/21/21				
10	T23624807	A10	4/21/21				
11	T23624808	A11	4/21/21				
12	T23624809	A12	4/21/21				
13	T23624810	A13	4/21/21				
14	T23624811	A14	4/21/21				
15	T23624812	B1GE	4/21/21				
16	T23624813	B02	4/21/21				
17	T23624814	B03	4/21/21				
18	T23624815	CJ01	4/21/21				
19	T23624816	CJ02	4/21/21				
20	T23624817	CJ03	4/21/21				
21	T23624818	J01	4/21/21				
22	T23624819	J02	4/21/21				

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.

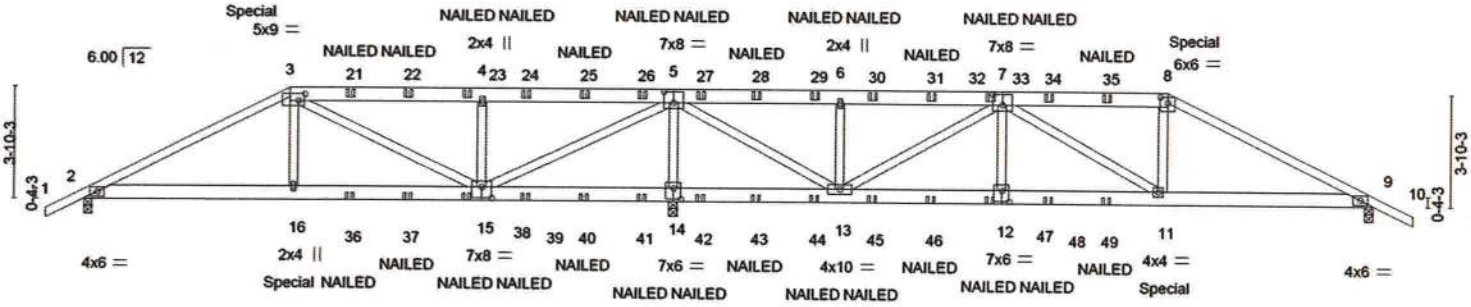
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
April 21,2021

Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A01	Hip Girder	1	2	Job Reference (optional)	T23624798

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:31 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-MUKRWlVxe7hdx?Szk_AEmUflEIRatOiXRYqc2mzPAc2

1-4-0	7-0-0	13-6-14	20-1-12	25-9-12	31-4-0	37-0-0	44-0-0	45-4-0
1-4-0	7-0-0	6-6-14	6-6-14	5-8-0	5-6-4	5-8-0	7-0-0	1-4-0

Scale = 1:76.0



"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.

7-0-0	13-6-14	20-1-12	25-9-12	31-4-0	37-0-0	44-0-0
7-0-0	6-6-14	6-6-14	5-8-0	5-6-4	5-8-0	7-0-0

Plate Offsets (X,Y)-- [3:0-2-8,0-2-12], [5:0-4-0,0-4-8], [7:0-4-0,0-4-8], [8:0-3-0,0-2-7], [12:0-3-0,0-4-8], [14:0-3-0,0-4-8], [15:0-4-0,0-4-8]

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	0.36	Vert(LL)	-0.06	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.11	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 549 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except* 1-3,8-10: 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15,13-14.

REACTIONS. (size) 2=0-3-0, 14=0-3-8, 9=0-3-8
Max Horz 2=78(LC 24)
Max Uplift 2=-206(LC 8), 14=-1005(LC 8), 9=-291(LC 8)
Max Grav 2=1251(LC 17), 14=4829(LC 1), 9=1658(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2177/414, 3-4=-895/245, 4-5=-890/243, 5-6=-903/259, 6-7=-903/259, 7-8=-2712/561, 8-9=-3084/601
BOT CHORD 2-16=-282/1876, 15-16=-286/1900, 14-15=-2296/501, 13-14=-2322/507, 12-13=-503/2661, 11-12=-503/2661, 9-11=-449/2686
WEBS 3-16=-79/575, 3-15=-1157/168, 4-15=-847/228, 5-15=-718/3554, 5-14=-4388/948, 5-13=-767/3722, 6-13=-611/167, 7-13=-2073/412, 7-12=-45/453, 8-11=-101/523

NOTES-
1) 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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; 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
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=206, 14=1005, 9=291.
10) N/A
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

Continued on page 2

JULIUS LEE LICENSE No. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 462 lb down and 160 lb up at 7-0-0, and 464 lb down and 160 lb up at 37-0-0 on top chord, and 277 lb down and 131 lb up at 7-0-0, and 278 lb down and 130 lb up at 36-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

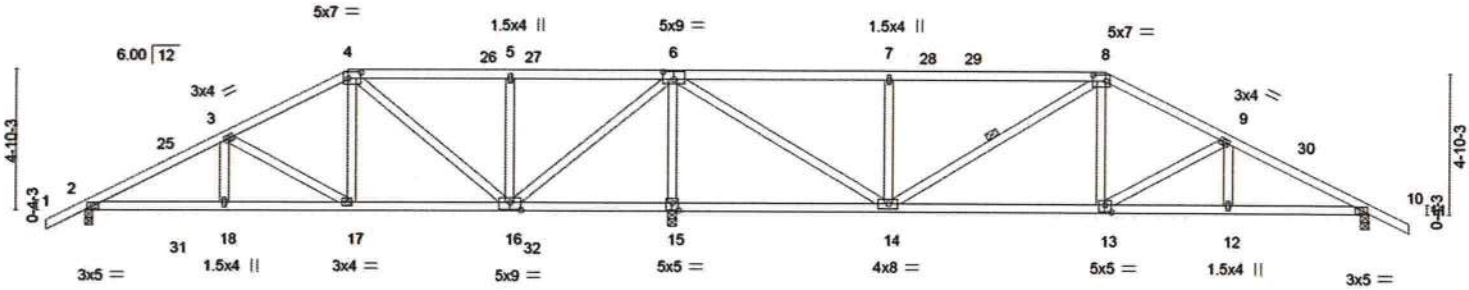
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-8=-60, 8-10=-60, 2-9=-20
   Concentrated Loads (lb)
   Vert: 3=-415(B) 8=-417(B) 16=-277(B) 11=-278(B) 21=-126(B) 22=-126(B) 23=-126(B) 24=-126(B) 25=-126(B) 26=-126(B) 27=-126(B) 28=-126(B) 29=-126(B) 30=-126(B) 31=-126(B) 33=-126(B) 34=-126(B) 35=-126(B) 36=-63(B) 37=-63(B) 38=-63(B) 39=-63(B) 40=-63(B) 41=-63(B) 42=-63(B) 43=-63(B) 44=-63(B) 45=-63(B) 46=-63(B) 47=-63(B) 48=-63(B) 49=-63(B)

Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A02	HIP	1	1	Job Reference (optional)	T23624799

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:33 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-ItSCx_XCAlxLBJcMsPCirvkcQ65eLDRqvsJi7fzPAc0

1-4-0	4-9-4	9-0-0	14-6-14	20-1-12	27-6-14	35-0-0	39-2-12	44-0-0	45-4-0
1-4-0	4-9-4	4-2-12	5-6-14	5-6-14	7-5-2	7-5-2	4-2-12	4-9-4	1-4-0

Scale = 1:76.3



4-9-4	9-0-0	14-6-14	20-1-12	27-6-14	35-0-0	39-2-12	44-0-0
4-9-4	4-2-12	5-6-14	5-6-14	7-5-2	7-5-2	4-2-12	4-9-4

Plate Offsets (X,Y)-- [4:0-5-4,0-2-8], [6:0-4-8,0-3-0], [8:0-5-4,0-2-8], [13:0-2-8,0-3-0], [15:0-2-8,0-3-0], [16:0-4-8,0-3-0]

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	0.51	Vert(LL)	-0.07	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.17	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 235 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.
WEBS 1 Row at midpt 8-14

REACTIONS. (size) 2=0-3-0, 15=0-3-8, 10=0-3-8
Max Horz 2=97(LC 11)
Max Uplift 2=-194(LC 12), 15=-195(LC 12), 10=-22(LC 12)
Max Grav 2=706(LC 21), 15=2128(LC 1), 10=882(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1039/808, 3-4=-657/575, 4-5=-167/381, 5-6=-167/381, 6-7=-599/10, 7-8=-599/10, 8-9=-1066/12, 9-10=-1415/0
BOT CHORD 2-18=-659/885, 17-18=-659/885, 16-17=-398/545, 15-16=-826/312, 14-15=-815/309, 13-14=0/906, 12-13=0/1219, 10-12=0/1219
WEBS 3-17=-401/323, 4-17=-327/349, 4-16=-520/231, 5-16=-336/88, 6-16=-705/1199, 6-15=-1985/580, 6-14=-110/1592, 7-14=-483/118, 8-14=-391/106, 8-13=0/380, 9-13=-369/71

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 9-0-0, Exterior(2R) 9-0-0 to 15-2-11, Interior(1) 15-2-11 to 35-0-0, Exterior(2R) 35-0-0 to 41-2-11, Interior(1) 41-2-11 to 45-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left 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 100 lb uplift at joint(s) 10 except (jt=lb) 2=194, 15=195.
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:

April 21,2021

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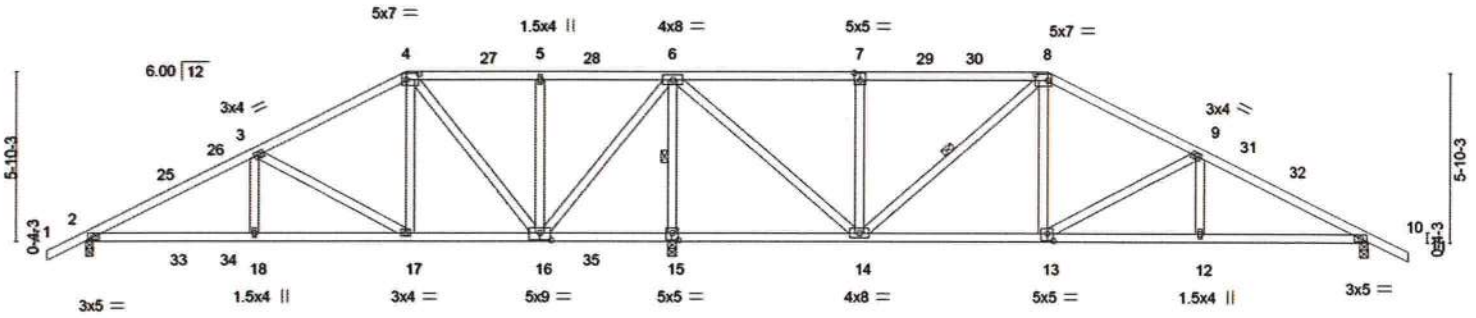
Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A03	HIP	1	1		T23624800
					Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:34 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-m30a9JYqx23CoTBYP6jxO6Ho1WTq4jez7W3Gf5zPAc?

1-4-0	5-9-4	11-0-0	15-6-14	20-1-12	26-6-14	33-0-0	38-2-12	44-0-0	45-4-0
1-4-0	5-9-4	5-2-12	4-6-14	4-6-14	6-5-2	6-5-2	5-2-12	5-9-4	1-4-0

Scale = 1:76.3



5-9-4	11-0-0	15-6-14	20-1-12	26-6-14	33-0-0	38-2-12	44-0-0
5-9-4	5-2-12	4-6-14	4-6-14	6-5-2	6-5-2	5-2-12	5-9-4

Plate Offsets (X,Y)-- [4:0-5-4,0-2-8], [7:0-2-8,0-3-0], [8:0-5-4,0-2-8], [13:0-2-8,0-3-0], [15:0-2-8,0-3-0], [16:0-4-8,0-3-0]

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	0.39	Vert(LL)	0.06	18-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.11	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 248 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.
WEBS 1 Row at midpt 6-15, 8-14

REACTIONS. (size) 2=0-3-0, 15=0-3-8, 10=0-3-8
Max Horz 2=115(LC 11)
Max Uplift 2=-193(LC 12), 15=-198(LC 12), 10=-21(LC 12)
Max Grav 2=698(LC 21), 15=2165(LC 1), 10=875(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-966/758, 3-4=-478/455, 4-5=0/253, 5-6=0/253, 6-7=-350/25, 7-8=-350/25, 8-9=-884/23, 9-10=-1363/0
BOT CHORD 2-18=-608/825, 17-18=-608/825, 16-17=-263/367, 15-16=-761/313, 14-15=-761/313, 13-14=0/724, 12-13=0/1165, 10-12=0/1165
WEBS 3-17=-533/406, 4-17=-368/391, 4-16=-626/314, 5-16=-268/73, 6-16=-611/1048, 6-15=-2038/608, 6-14=-105/1359, 7-14=-420/106, 8-14=-534/102, 8-13=0/416, 9-13=-510/78

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 11-0-0, Exterior(2R) 11-0-0 to 17-2-11, Interior(1) 17-2-11 to 33-0-0, Exterior(2R) 33-0-0 to 39-2-11, Interior(1) 39-2-11 to 45-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left 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 100 lb uplift at joint(s) 10 except (jt=lb) 2=193, 15=198.
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:

April 21,2021

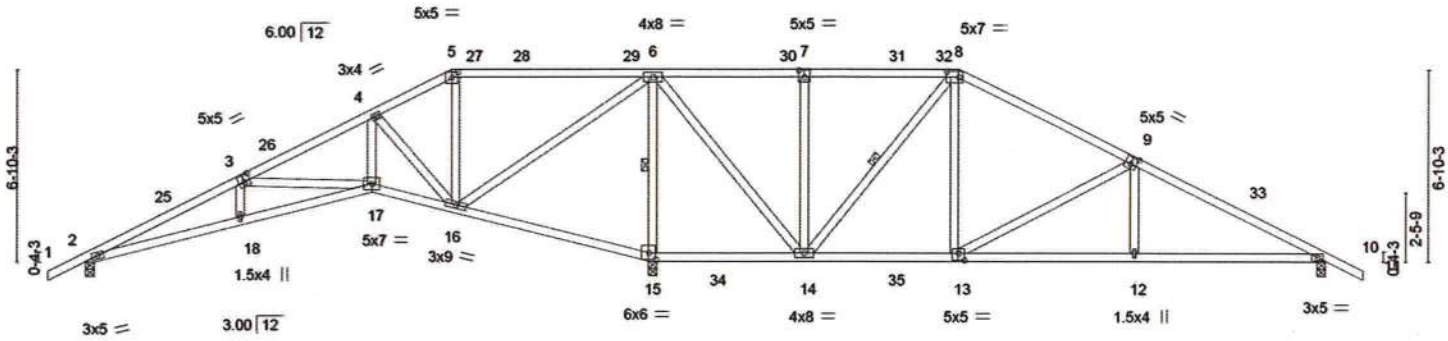
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A04	Hip	2	1	Job Reference (optional)	T23624801

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:35 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-EGayMfYSiMB3QdlkzqEAwKqyKwn1p8r7MAopBYzPAc_

1-4-0	5-5-13	10-1-12	13-0-0	20-0-0	25-6-0	31-0-0	37-2-12	44-0-0	45-4-0
1-4-0	5-5-13	4-7-15	2-10-4	7-0-0	5-6-0	5-6-0	6-2-12	6-9-4	1-4-0

Scale = 1:78.9



5-5-13	10-1-12	13-0-0	20-0-0	20-1-12	25-6-0	31-0-0	37-2-12	44-0-0
5-5-13	4-7-15	2-10-4	7-0-0	0-1-12	5-4-4	5-6-0	6-2-12	6-9-4

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [5:0-2-8,0-2-4], [7:0-2-8,0-3-0], [8:0-5-4,0-2-8], [9:0-2-8,0-3-0], [13:0-2-8,0-3-0], [15:0-3-0,0-2-12]

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	0.48	Vert(LL)	-0.08	12-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.16	12-24	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 245 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.
WEBS 1 Row at midpt 6-15, 8-14

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=0-3-8
Max Horz 2=-134(LC 10)
Max Uplift 2=-50(LC 12), 10=-47(LC 12)
Max Grav 2=555(LC 17), 15=2729(LC 17), 10=873(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1171/62, 3-4=-319/49, 4-5=0/328, 5-6=0/264, 6-7=-43/321, 7-8=-43/321, 8-9=-621/114, 9-10=-1227/92
BOT CHORD 2-18=0/1163, 17-18=0/1144, 15-16=-1300/118, 14-15=-1184/102, 13-14=0/472, 12-13=-12/1052, 10-12=-10/1057
WEBS 3-17=-884/79, 4-17=0/487, 4-16=-629/36, 5-16=-411/52, 6-16=0/1234, 6-15=-2171/98, 6-14=-26/1447, 7-14=-314/83, 8-14=-874/22, 8-13=0/591, 9-13=-745/83, 9-12=0/280

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 13-0-0, Exterior(2R) 13-0-0 to 19-2-11, Interior(1) 19-2-11 to 31-0-0, Exterior(2R) 31-0-0 to 37-1-13, Interior(1) 37-1-13 to 45-4-0 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, with BCDL = 10.0psf.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
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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April 21,2021

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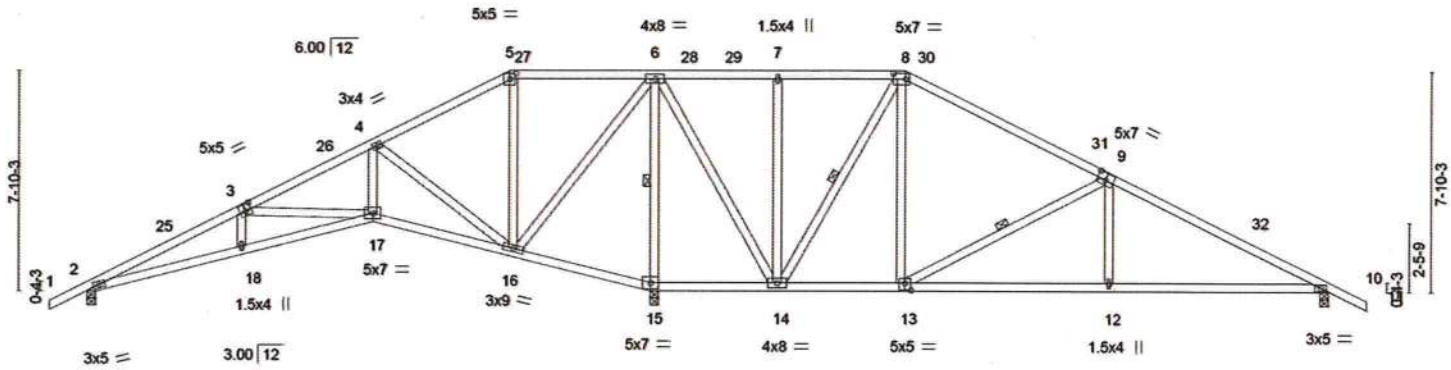
Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A05	Hip	2	1	Job Reference (optional)	T23624802

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:36 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-iS8KZ?Z4TgJw2nKwXXmPTXM6xJ7eYcSGbqYNj_zPAbz

1-4-0	5-5-13	10-1-12	15-0-0	20-0-0	24-6-0	29-0-0	36-2-12	44-0-0	45-4-0
1-4-0	5-5-13	4-7-15	4-10-4	5-0-0	4-6-0	4-6-0	7-2-12	7-9-4	1-4-0

Scale = 1:78.9



5-5-13	10-1-12	15-0-0	20-0-0	20-1-12	24-6-0	29-0-0	36-2-12	44-0-0
5-5-13	4-7-15	4-10-4	5-0-0	0-1-12	4-4-4	4-6-0	7-2-12	7-9-4

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [5:0-2-8,0-2-4], [8:0-5-4,0-2-8], [9:0-3-8,0-3-0], [13:0-2-8,0-3-0]

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	0.55	Vert(LL)	-0.08	12-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.19	12-24	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.05	15	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 258 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.
WEBS 1 Row at midpt 6-15, 8-14, 9-13

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=0-3-8
Max Horz 2=-152(LC 10)
Max Uplift 2=-51(LC 12), 10=-48(LC 12)
Max Grav 2=529(LC 21), 15=2461(LC 1), 10=835(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1068/54, 3-4=-284/111, 4-5=0/545, 5-6=0/442, 6-7=0/420, 7-8=0/420, 8-9=-473/128, 9-10=-1158/95
BOT CHORD 2-18=0/948, 17-18=0/937, 15-16=-1054/124, 14-15=-970/111, 13-14=-79/325, 12-13=-7/978, 10-12=-5/982
WEBS 3-17=-709/63, 4-17=0/421, 4-16=-704/42, 5-16=-499/36, 6-16=0/917, 6-15=-2104/77, 6-14=-24/1235, 7-14=-262/70, 8-14=-882/24, 8-13=0/507, 9-13=-750/91, 9-12=0/330

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 15-0-0, Exterior(2R) 15-0-0 to 21-2-11, Interior(1) 21-2-11 to 29-0-0, Exterior(2R) 29-0-0 to 35-2-11, Interior(1) 35-2-11 to 45-4-0 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
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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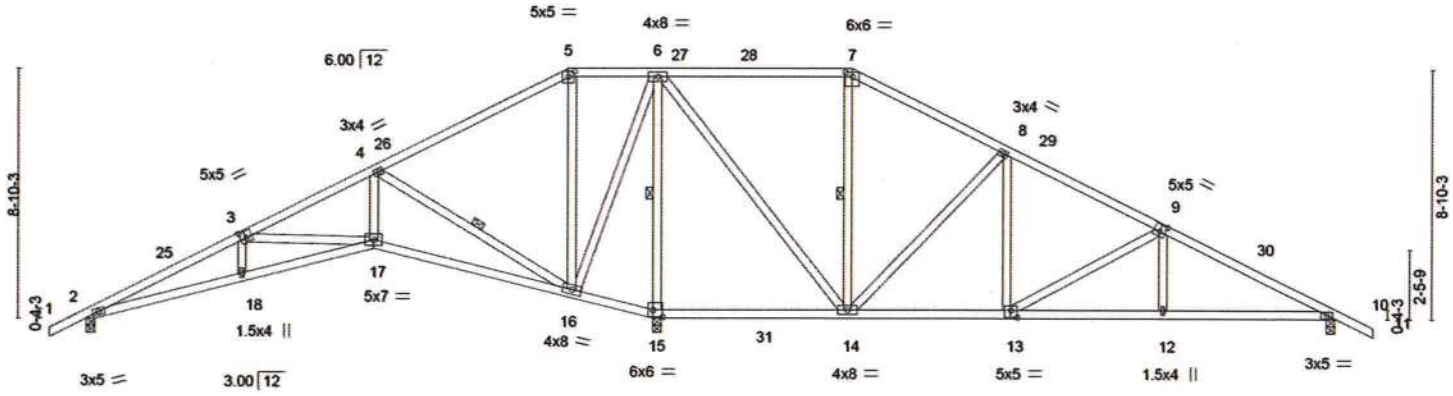
Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A06	Hip	2	1	Job Reference (optional)	T23624803

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:38 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-frF5_hbK?HaeH4UJeyotYySTD7qs0SnZ281TnszPAbx

1-4-0	5-5-13	10-1-12	17-0-0	20-0-0	27-0-0	32-5-13	37-11-11	44-0-0	45-4-0
1-4-0	5-5-13	4-7-15	6-10-4	3-0-0	7-0-0	5-5-13	5-5-13	6-0-5	1-4-0

Scale = 1:78.5



5-5-13	10-1-12	17-0-0	20-0-0	20-4-12	27-0-0	32-5-13	37-11-11	44-0-0
5-5-13	4-7-15	6-10-4	3-0-0	0-4-12	6-10-4	5-5-13	5-5-13	6-0-5

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [5:0-2-8,0-2-4], [7:0-3-0,0-2-0], [9:0-2-8,0-3-0], [13:0-2-8,0-3-0], [15:0-4-0,0-3-0]

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	0.50	Vert(LL)	-0.09	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.19	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.06	15	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 262 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.
WEBS 1 Row at midpt 4-16, 6-15, 7-14

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=0-3-8
Max Horz 2=-171(LC 10)
Max Uplift 2=-52(LC 12), 10=-49(LC 12)
Max Grav 2=517(LC 21), 15=2824(LC 17), 10=848(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1004/50, 3-4=-272/153, 4-5=0/886, 5-6=0/727, 7-8=-254/290, 8-9=-764/119, 9-10=-1262/84
BOT CHORD 2-18=0/1010, 17-18=0/995, 15-16=-1090/126, 14-15=-1003/115, 13-14=-18/607, 12-13=-9/1068, 10-12=-7/1071
WEBS 3-17=-783/54, 4-17=0/545, 4-16=-968/54, 5-16=-607/36, 6-16=0/1053, 6-15=-2346/68, 6-14=-20/1412, 7-14=-410/43, 8-14=-754/85, 8-13=0/489, 9-13=-627/47

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 17-0-0, Exterior(2R) 17-0-0 to 23-2-11, Interior(1) 23-2-11 to 27-0-0, Exterior(2R) 27-0-0 to 33-2-11, Interior(1) 33-2-11 to 45-4-0 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, with BCDL = 10.0psf.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
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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April 21,2021

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Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A07	Hip	1	1	Job Reference (optional)	T23624804

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:39 2021 Page 1
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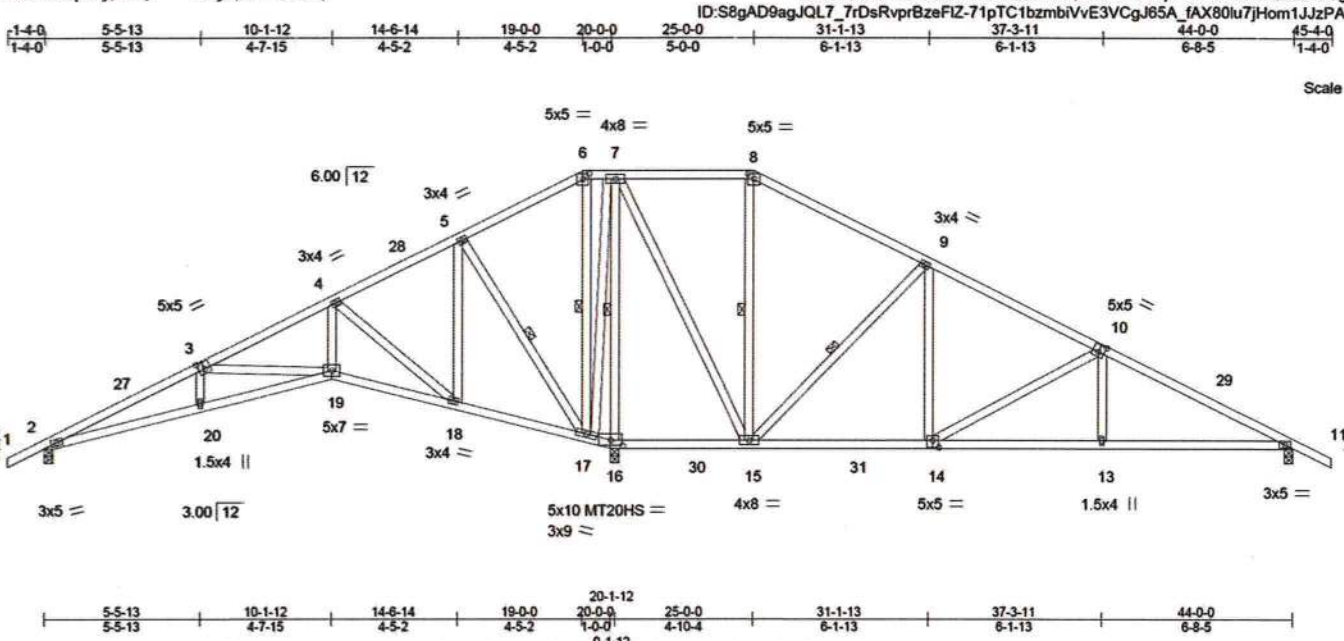

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [6:0-2-8,0-2-4], [8:0-2-8,0-2-4], [10:0-2-8,0-3-0], [14:0-2-8,0-3-0], [16:0-5-0,0-2-4]

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	0.42	Vert(LL)	-0.08	13-26	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.16	13-26	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 291 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.
WEBS 1 Row at midpt 5-17, 6-17, 7-16, 8-15, 9-15

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 11=0-3-8
Max Horz 2=-190(LC 10)
Max Uplift 2=-51(LC 12), 11=-48(LC 12)
Max Grav 2=519(LC 21), 16=2850(LC 17), 11=861(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1031/46, 4-5=0/648, 5-6=0/1056, 6-7=0/917, 7-8=-11/393, 8-9=-84/487, 9-10=-668/131, 10-11=-1217/82
BOT CHORD 2-20=-2/1035, 19-20=-6/1016, 17-18=-531/120, 16-17=-1038/138, 15-16=-896/129, 14-15=-101/514, 13-14=-1/1046, 11-13=0/1051
WEBS 3-19=-877/67, 4-19=0/467, 4-18=-700/5, 5-18=0/534, 5-17=-745/55, 6-17=-482/0, 7-17=0/732, 7-16=-2160/38, 7-15=-35/1360, 8-15=-443/41, 9-15=-910/88, 9-14=0/602, 10-14=-696/53, 10-13=0/266

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 19-0-0, Exterior(2E) 19-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 31-1-13, Interior(1) 31-1-13 to 45-4-0 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) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
10) 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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April 21,2021

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Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A08	Hip	1	1	Job Reference (optional)	T23624805

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:40 2021 Page 1

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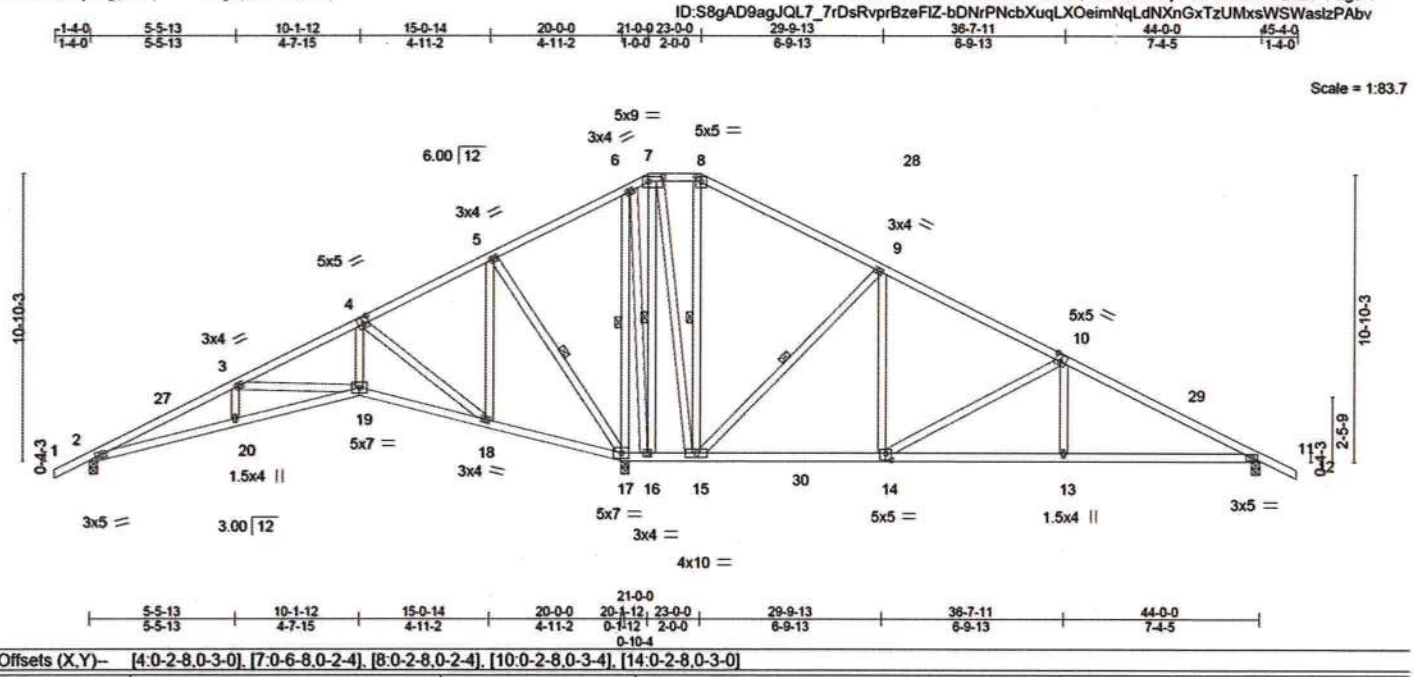

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [7:0-6-8,0-2-4], [8:0-2-8,0-2-4], [10:0-2-8,0-3-4], [14:0-2-8,0-3-0]

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	0.53	Vert(LL)	-0.11	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.22	13-26	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 303 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.
WEBS 1 Row at midpt 5-17, 6-17, 7-16, 8-15, 9-15

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 11=0-3-8
Max Horz 2=208(LC 11)
Max Uplift 2=-46(LC 12), 11=-43(LC 12)
Max Grav 2=557(LC 23), 17=2725(LC 17), 11=910(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1197/28, 3-4=-375/21, 4-5=0/573, 5-6=0/1007, 6-7=0/594, 7-8=0/469, 8-9=-8/576, 9-10=-654/160, 10-11=-1271/69
BOT CHORD 2-20=0/1245, 19-20=0/1239, 18-19=-97/335, 17-18=-452/129, 16-17=-716/142, 15-16=-646/148, 14-15=-124/493, 13-14=0/1091, 11-13=0/1096
WEBS 3-19=-862/69, 4-19=0/592, 4-18=-856/0, 5-18=0/530, 5-17=-721/46, 6-17=-1654/41, 6-16=0/939, 7-16=-1264/0, 7-15=-34/1534, 8-15=-546/46, 9-15=-1009/94, 9-14=0/667, 10-14=-776/60, 10-13=0/295

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 21-0-0, Exterior(2E) 21-0-0 to 23-0-0, Exterior(2R) 23-0-0 to 29-2-11, Interior(1) 29-2-11 to 45-4-0 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, with BCDL = 10.0psf.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
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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April 21,2021

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Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A09	Roof Special	4	1	Job Reference (optional)	T23624806

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:41 2021 Page 1
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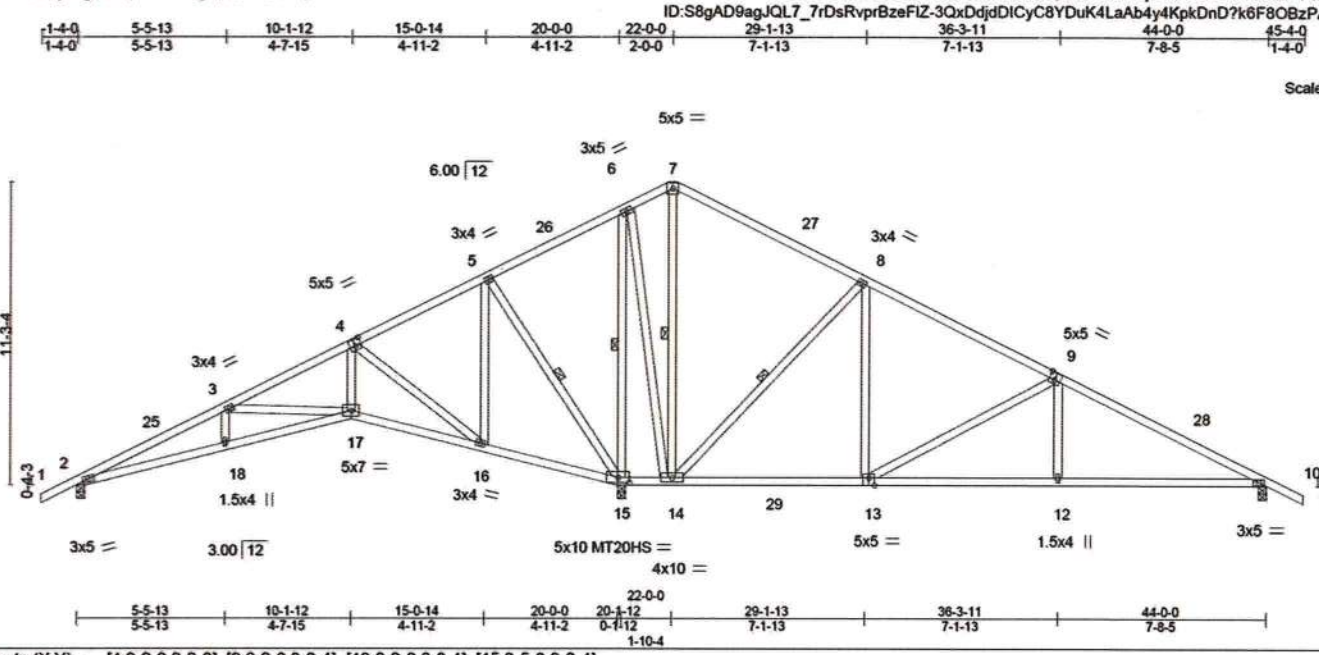

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [9:0-2-8,0-3-4], [13:0-2-8,0-3-4], [15:0-5-0,0-2-4]

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	0.53	Vert(LL)	-0.13	12-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.25	12-24	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 275 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.
WEBS 1 Row at midpt 5-15, 6-15, 7-14, 8-14

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=0-3-8
Max Horz 2=216(LC 11)
Max Uplift 2=-46(LC 12), 10=-44(LC 12)
Max Grav 2=542(LC 23), 15=2766(LC 17), 10=891(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1122/35, 3-4=-324/84, 4-5=0/623, 5-6=0/1059, 6-7=0/640, 7-8=0/696, 8-9=-561/219, 9-10=-1205/74
BOT CHORD 2-18=0/1182, 17-18=0/1176, 16-17=-149/261, 15-16=-496/127, 14-15=-763/136, 13-14=-175/406, 12-13=0/1030, 10-12=0/1036
WEBS 3-17=-874/69, 4-17=0/555, 4-16=-809/0, 5-16=0/528, 5-15=-752/38, 6-15=-1931/5, 6-14=0/1577, 7-14=-705/0, 8-14=-1065/95, 8-13=0/700, 9-13=-815/63, 9-12=0/310

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 22-0-0, Exterior(2R) 22-0-0 to 26-4-13, Interior(1) 26-4-13 to 45-4-0 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) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
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.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 21,2021

6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A10	Hip	1	1	Job Reference (optional)	T23624807

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:43 2021 Page 1
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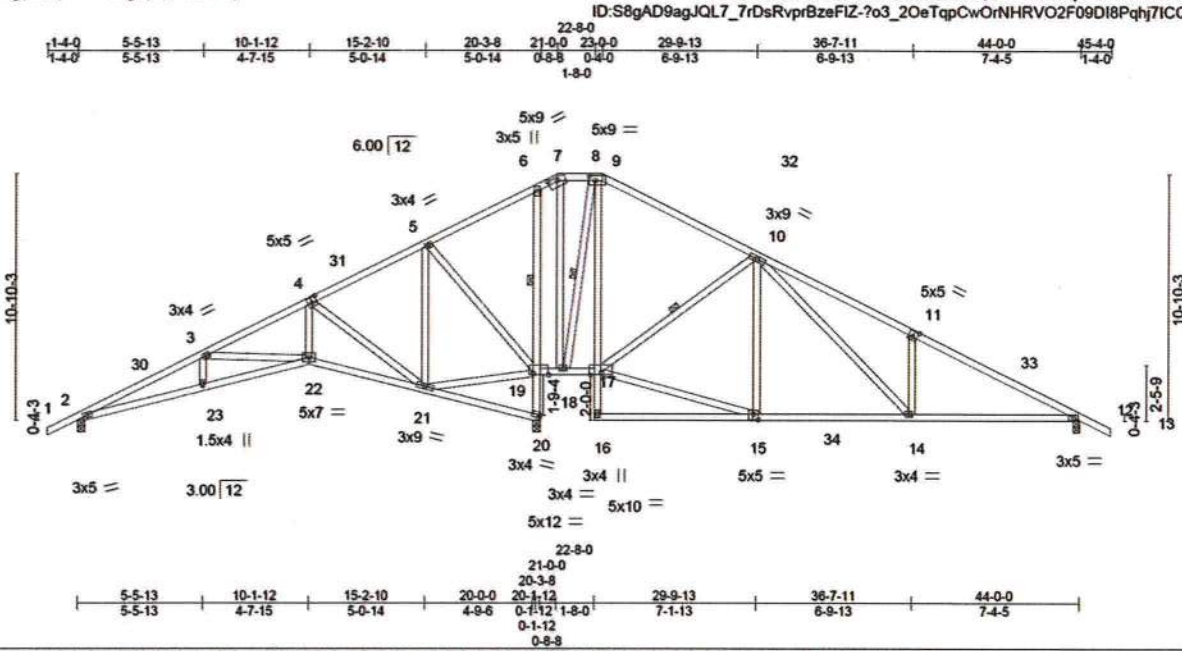

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [7:0-4-12,0-1-12], [9:0-3-4,0-2-8], [11:0-2-8,0-3-4], [15:0-2-8,0-3-0], [19:0-7-12,0-0-12], [20:0-0-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.86	Vert(LL)	-0.11	14-29	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.22	14-29	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.09	20	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 299 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. Except:
1 Row at midpt 6-19
WEBS 1 Row at midpt 8-18, 10-17

REACTIONS. (size) 2=0-3-8, 20=0-3-8, 12=0-3-8
Max Horz 2=-208(LC 10)
Max Uplift 2=-43(LC 12), 12=-41(LC 12)
Max Grav 2=646(LC 17), 20=2554(LC 17), 12=978(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1584/27, 3-4=-695/21, 4-5=-48/328, 5-6=0/921, 6-7=0/444, 7-8=0/696, 8-9=0/417, 9-10=-89/524, 10-11=-1474/160, 11-12=-1418/68
BOT CHORD 2-23=0/1597, 22-23=0/1593, 21-22=0/715, 19-20=-2445/70, 6-19=-1040/58, 18-19=-662/185, 17-18=-408/185, 8-17=0/1055, 14-15=-28/582, 12-14=0/1219
WEBS 3-22=-830/69, 4-22=0/763, 4-21=-1043/0, 5-21=0/636, 10-15=-22/266, 10-14=-69/1015, 11-14=-443/130, 7-18=-60/756, 8-18=-1710/48, 10-17=-973/111, 15-17=-47/566, 5-19=-806/93

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 21-0-0, Exterior(2E) 21-0-0 to 23-0-0, Exterior(2R) 23-0-0 to 29-2-11, Interior(1) 29-2-11 to 45-4-0 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, with BCDL = 10.0psf.
7) Bearing at joint(s) 2, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
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:

April 21,2021

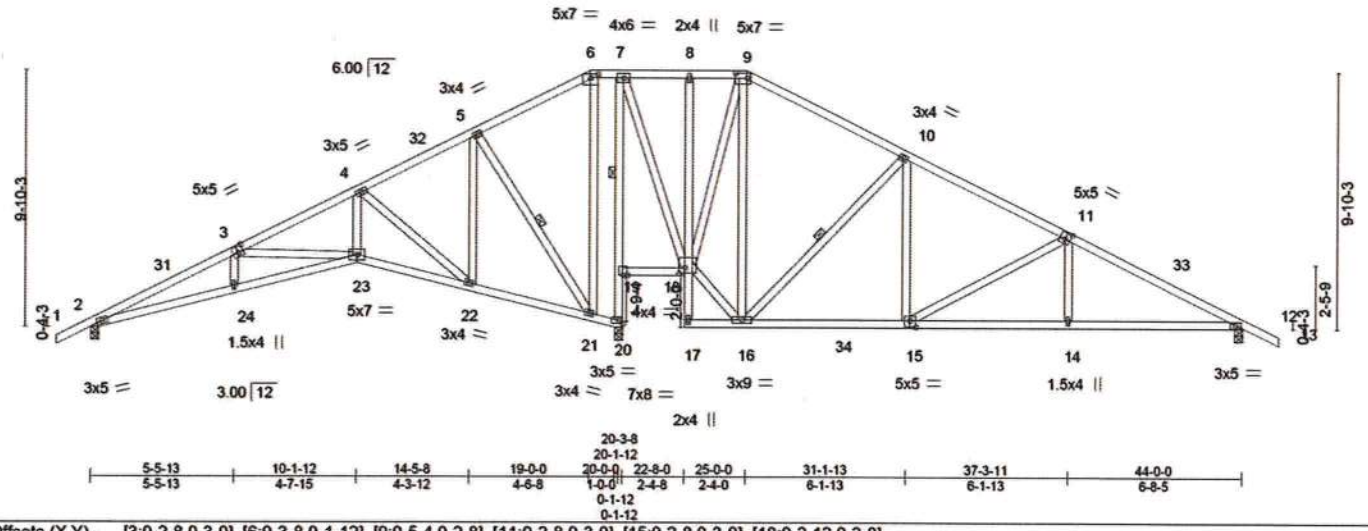
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A11	Hip	1	1	Job Reference (optional)	T23624808

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:44 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-T?dMFkf5a7Kn??yT?DvHoDiNnYpOQBaSR4Uo?WzPAbr

1-4-0	5-5-13	10-1-12	14-6-14	19-0-0	20-3-8	22-8-0	25-0-0	31-1-13	37-3-11	44-0-0	45-4-0
1-4-0	5-5-13	4-7-15	4-5-2	4-5-2	1-3-8	2-4-8	2-4-0	6-1-13	6-1-13	6-8-5	1-4-0

Scale = 1:85.0



5-5-13	10-1-12	14-5-8	19-0-0	20-0-0	20-3-8	20-1-12	22-8-0	25-0-0	31-1-13	37-3-11	44-0-0
5-5-13	4-7-15	4-3-12	4-6-8	1-0-0	0-1-12	0-1-12	2-4-8	2-4-0	6-1-13	6-1-13	6-8-5

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [6:0-3-8,0-1-12], [9:0-5-4,0-2-8], [11:0-2-8,0-3-0], [15:0-2-8,0-3-0], [18:0-2-12,0-2-8]

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	0.94	Vert(LL)	-0.15	23-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.29	23-24	>843	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.18	20	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 302 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. Except:
1 Row at midpt 7-19
WEBS 1 Row at midpt 10-16, 5-21

REACTIONS. (size) 2=0-3-8, 20=0-3-8, 12=0-3-8
Max Horz 2=-190(LC 10)
Max Uplift 2=-84(LC 12), 12=-76(LC 12)
Max Grav 2=877(LC 17), 20=2129(LC 17), 12=1137(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2503/222, 3-4=-1644/230, 4-5=-546/219, 9-10=-497/226, 10-11=-1185/191, 11-12=-1803/154
BOT CHORD 2-24=-133/2412, 23-24=-137/2397, 22-23=-81/1593, 21-22=-13/554, 19-20=-1700/11, 7-19=-1555/12, 15-16=-24/944, 14-15=-66/1554, 12-14=-64/1560
WEBS 3-23=-779/55, 4-23=-3/1147, 4-22=-1358/85, 5-22=0/897, 7-18=0/822, 16-18=0/461, 9-18=-692/39, 9-16=-39/551, 10-16=-903/88, 10-15=0/596, 11-15=-689/52, 11-14=0/264, 6-21=-54/415, 5-21=-1122/87

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 19-0-0, Exterior(2E) 19-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 31-1-13, Interior(1) 31-1-13 to 45-4-0 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, with BCDL = 10.0psf.
7) Bearing at joint(s) 2, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
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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April 21,2021

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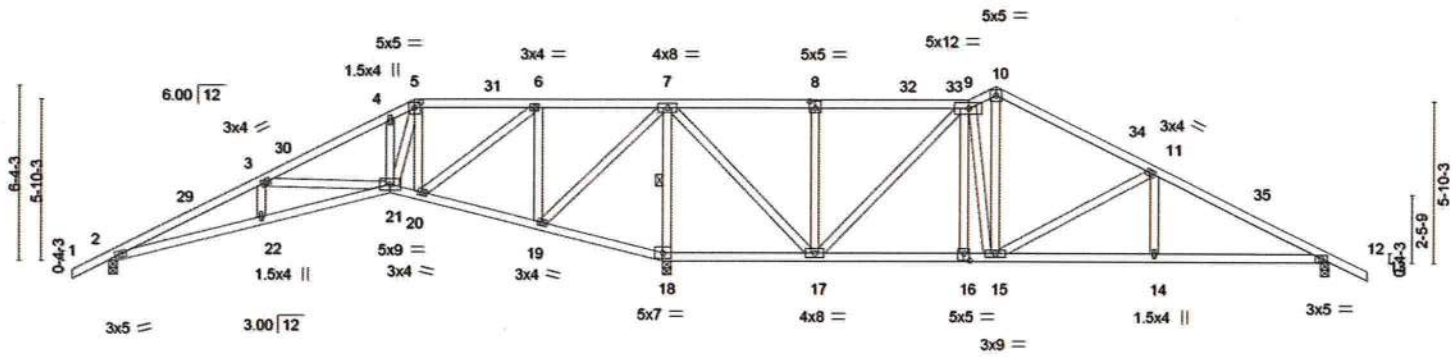
Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A12	Roof Special	1	1	Job Reference (optional)	T23624809

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:45 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFlZ-yBBkS4gjLRSed9WfZwQWKREhwyDI9d?bfkDLXzzPAbq

1-4-0	5-5-13	10-1-12	11-0-0	15-6-0	20-0-0	25-6-0	31-0-0	32-0-0	37-8-12	44-0-0	45-4-0
1-4-0	5-5-13	4-7-15	0-10-4	4-6-0	4-6-0	5-6-0	5-6-0	1-0-0	5-8-12	6-3-4	1-4-0

Scale = 1:80.3



5-5-13	10-1-12	11-0-0	15-6-0	20-0-0	20-1-12	25-6-0	31-0-0	32-0-0	37-8-12	44-0-0
5-5-13	4-7-15	0-10-4	4-6-0	4-6-0	0-1-12	5-4-4	5-6-0	1-0-0	5-8-12	6-3-4

Plate Offsets (X,Y)-- [5:0-2-8,0-2-4], [8:0-2-8,0-3-0], [16:0-2-8,0-3-0]

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	22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.11	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.05	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 260 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.
WEBS 1 Row at midpt 7-18

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 12=0-3-8
Max Horz 2=124(LC 11)
Max Uplift 2=-47(LC 12), 12=-44(LC 12)
Max Grav 2=558(LC 21), 18=2395(LC 1), 12=755(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1198/79, 3-4=-389/49, 4-5=-346/110, 6-7=0/565, 7-8=-21/271, 8-9=-21/271, 9-10=-481/129, 10-11=-546/113, 11-12=-1068/94
BOT CHORD 2-22=-15/1068, 21-22=-16/1064, 19-20=-593/118, 18-19=-1295/123, 17-18=-1192/111, 16-17=0/368, 15-16=0/367, 14-15=-17/912, 12-14=-17/912
WEBS 3-21=-742/94, 5-21=-78/572, 5-20=-536/31, 6-20=-1/751, 6-19=-736/72, 7-19=-18/937, 7-18=-1978/100, 7-17=-39/1429, 8-17=-347/76, 9-17=-803/33, 11-15=-587/77, 11-14=0/260

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 11-0-0, Exterior(2R) 11-0-0 to 15-6-0, Interior(1) 15-6-0 to 32-0-0, Exterior(2R) 32-0-0 to 36-4-13, Interior(1) 36-4-13 to 45-4-0 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
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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6904 Parke East Blvd. Tampa FL 33610
Date:

April 21,2021

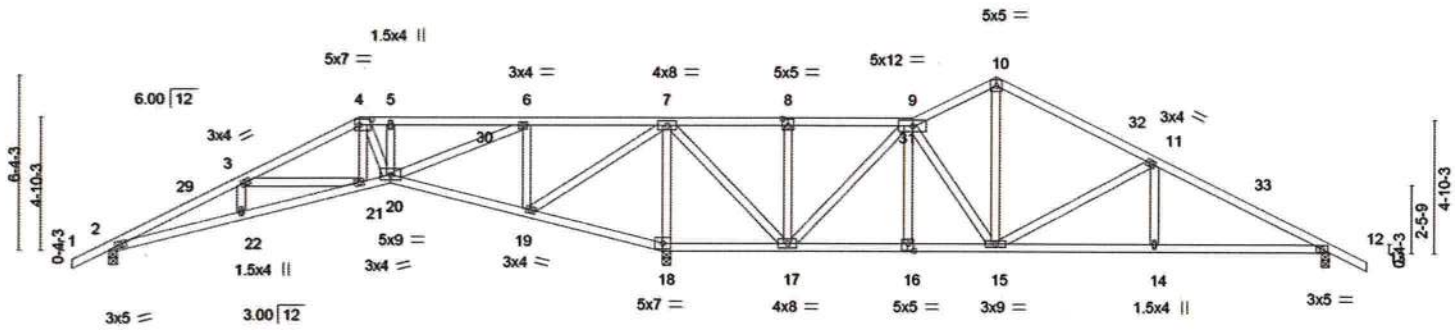
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A13	Roof Special	1	1	Job Reference (optional)	T23624810

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:47 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-uZIUtmi_t2iMsTg2gLS_PsJ1OlvhdZNu72iSczPAbo

1-4-0	4-9-3	9-0-0	10-1-12	15-0-14	20-0-0	24-6-0	29-0-0	32-0-0	37-8-12	44-0-0	45-4-0
1-4-0	4-9-3	4-2-13	1-1-12	4-11-2	4-11-2	4-6-0	4-6-0	3-0-0	5-8-12	6-3-4	1-4-0

Scale = 1:80.3



4-9-3	9-0-0	10-1-12	15-0-14	20-0-0	20-1-12	24-6-0	29-0-0	32-0-0	37-8-12	44-0-0
4-9-3	4-2-13	1-1-12	4-11-2	4-11-2	0-1-12	4-4-4	4-6-0	3-0-0	5-8-12	6-3-4

Plate Offsets (X,Y)-- [4:0-5-4,0-2-8], [8:0-2-8,0-3-0], [16:0-2-8,0-3-0]

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	0.35	Vert(LL)	-0.06	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.12	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.05	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 244 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) 2=0-3-8, 18=0-3-8, 12=0-3-8
Max Horz 2=-124(LC 10)
Max Uplift 2=-46(LC 12), 12=-43(LC 12)
Max Grav 2=577(LC 21), 18=2358(LC 1), 12=768(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1325/95, 3-4=-641/47, 4-5=-459/55, 5-6=-459/55, 6-7=0/546, 7-8=0/425, 8-9=0/425, 9-10=-525/126, 10-11=-560/107, 11-12=-1096/89
BOT CHORD 2-22=-45/1185, 21-22=-46/1189, 20-21=0/550, 19-20=-576/110, 18-19=-1484/116, 17-18=-1367/102, 16-17=0/314, 15-16=0/312, 14-15=-13/938, 12-14=-13/938
WEBS 3-21=-632/109, 4-21=-1/260, 6-20=-2/976, 6-19=-697/77, 7-19=-15/1059, 7-18=-1902/96, 7-17=-42/1435, 8-17=-272/60, 9-17=-953/39, 11-15=-590/79, 11-14=0/261

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=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-0-13, Interior(1) 3-0-13 to 9-0-0, Exterior(2R) 9-0-0 to 13-4-13, Interior(1) 13-4-13 to 32-0-0, Exterior(2R) 32-0-0 to 36-4-13, Interior(1) 36-4-13 to 45-4-0 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
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:

April 21,2021

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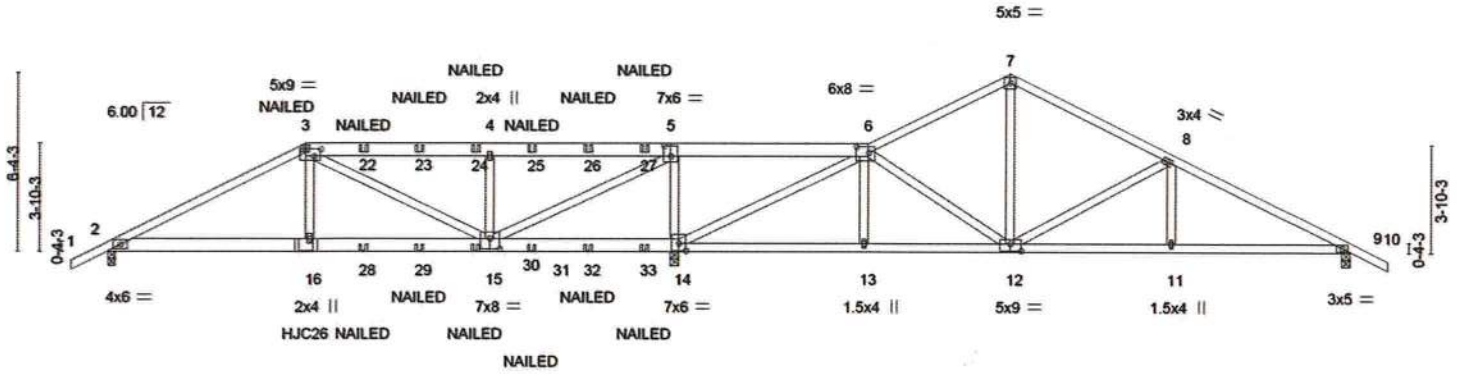
Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	A14	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	T23624811

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:49 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-qyQFISjEPfy46mqQomUSUHPNdZcU5XWBaMBZgkzPAbm

1-4-0	7-0-0	13-6-14	20-1-12	27-0-0	32-0-0	37-8-12	44-0-0	45-4-0
1-4-0	7-0-0	6-6-14	6-6-14	6-10-4	5-0-0	5-8-12	6-3-4	1-4-0

Scale = 1:78.9



7-0-0	13-6-14	20-1-12	27-0-0	32-0-0	37-8-12	44-0-0
7-0-0	6-6-14	6-6-14	6-10-4	5-0-0	5-8-12	6-3-4

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-3-0,0-4-8], [6:0-5-4,0-2-8], [12:0-4-8,0-3-0], [14:0-3-0,0-3-4], [15:0-4-0,0-4-8]

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	0.36	Vert(LL)	0.05	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.08	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 508 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-5,5-6: 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-15,14-15: 2x6 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-0, 9=0-3-8, 14=0-3-8
Max Horz 2=-125(LC 6)
Max Uplift 2=-377(LC 8), 9=-84(LC 25), 14=-488(LC 8)
Max Grav 2=1459(LC 17), 9=832(LC 14), 14=3377(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2640/679, 3-4=-1657/591, 4-5=-1651/590, 5-6=-150/1610, 6-7=-754/170, 7-8=-754/169, 8-9=-1275/129
BOT CHORD 2-16=-546/2290, 15-16=-553/2328, 14-15=-1424/215, 13-14=-173/596, 12-13=-176/591, 11-12=-37/1079, 9-11=-37/1079
WEBS 3-16=-181/904, 3-15=-834/75, 4-15=-854/235, 5-15=-765/3332, 5-14=-2223/508, 6-14=-1895/40, 6-12=-97/525, 7-12=-79/363, 8-12=-593/43, 8-11=0/258

NOTES-
1) 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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=377, 14=488.
10) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 7-0-6 from the left end to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Spec House
SPEC_HOUSE	A14	ROOF SPECIAL GIRDER	1	2	T23624811
					Job Reference (optional)

NOTES-

12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-6=-60, 6-7=-60, 7-10=-60, 2-19=-20
   Concentrated Loads (lb)
   Vert: 3=-126(F) 16=-623(F) 22=-126(F) 23=-126(F) 24=-126(F) 25=-126(F) 26=-126(F) 27=-131(F) 28=-63(F) 29=-63(F) 30=-63(F) 31=-63(F) 32=-63(F) 33=-67(F)

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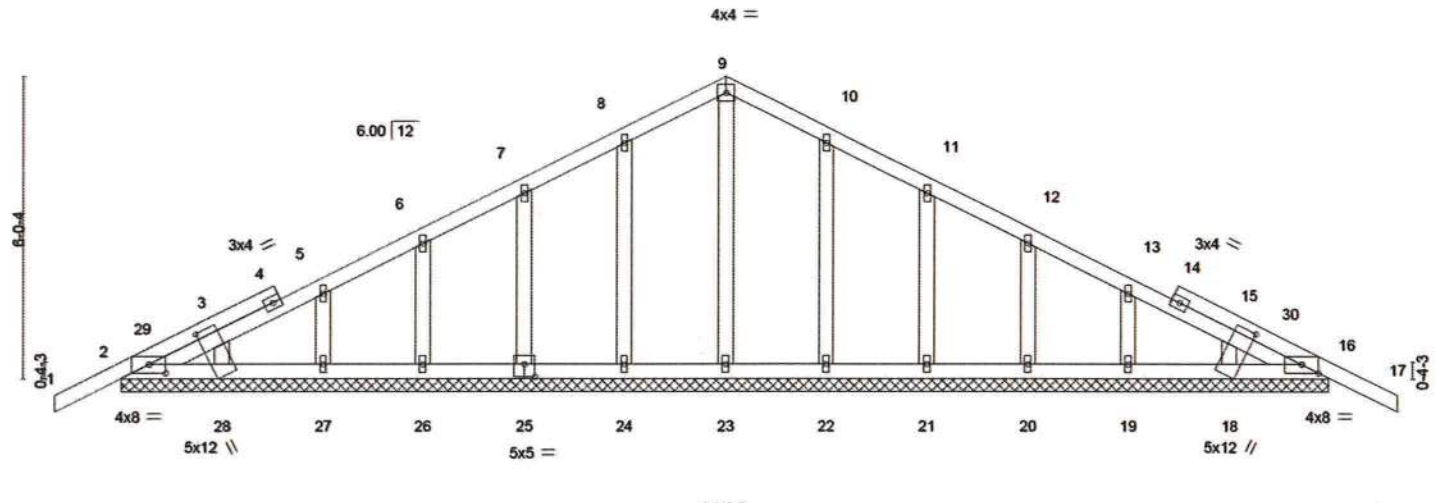
Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	B1GE	Common Supported Gable	1	1	Job Reference (optional)	T23624812

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:52 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-EX6NwTl6iaKezEZ?Tu296v1yomifl_bdGJQDH3zPAbj

-1-4-0 / 1-4-0 | 12-0-0 / 12-0-0 | 24-0-0 / 12-0-0 | 25-4-0 / 1-4-0

Scale = 1:44.1



24-0-0 / 24-0-0

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [16:0-4-0,0-2-1], [18:0-1-8,1-1-2], [25:0-2-8,0-3-0], [28:0-1-8,1-1-2]

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	0.11	Vert(LL)	-0.00	17	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 133 lb	FT = 20%

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

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 24-0-0.
(lb) - Max Horz 2=-105(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 22, 21, 20, 19
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

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

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=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 12-0-0, Corner(3R) 12-0-0 to 15-0-0, Exterior(2N) 15-0-0 to 25-4-0 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) 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.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 25, 26, 27, 22, 21, 20, 19.

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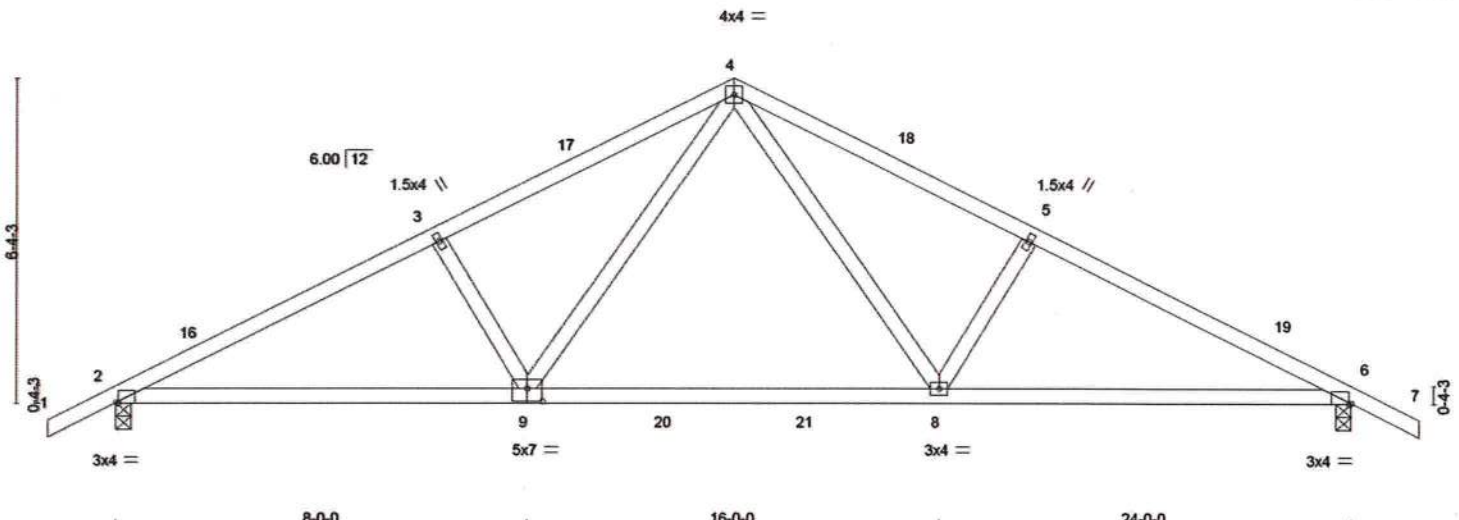
Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	B02	Common	3	1	Job Reference (optional)	T23624813

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:50 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-I8_dWoksAz4xjwPdLT0h1UxYIzrBq2UKp0x6CAzPAbl

-1-4-0 | 6-3-4 | 12-0-0 | 17-8-12 | 24-0-0 | 25-4-0
1-4-0 | 6-3-4 | 5-8-12 | 5-8-12 | 6-3-4 | 1-4-0

Scale = 1:43.3



8-0-0 | 16-0-0 | 24-0-0
8-0-0 | 8-0-0 | 8-0-0

Plate Offsets (X,Y)-- [2:0-0-8,Edge], [6:0-0-8,Edge], [9:0-3-8,0-3-0]

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	0.37	Vert(LL)	-0.15	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.25	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 111 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) 2=0-3-8, 6=0-3-8
Max Horz 2=110(LC 11)
Max Uplift 2=-32(LC 12), 6=-32(LC 12)
Max Grav 2=1138(LC 17), 6=1138(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1822/134, 3-4=-1688/157, 4-5=-1688/157, 5-6=-1823/134
BOT CHORD 2-9=-36/1673, 8-9=0/1082, 6-8=-45/1591
WEBS 4-8=-21/751, 5-8=-365/129, 4-9=-21/751, 3-9=-365/129

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=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-4-0 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) 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) 2, 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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April 21,2021

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Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	B03	Common	4	1	Job Reference (optional)	T23624814

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:51 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-mLY?j7IUxHCoL4_pvBXwaiUikMBBZVhU2ggfIczPAbk

6-3-4 | 12-0-0 | 17-8-12 | 24-0-0 | 25-4-0
6-3-4 | 5-8-12 | 5-8-12 | 6-3-4 | 1-4-0

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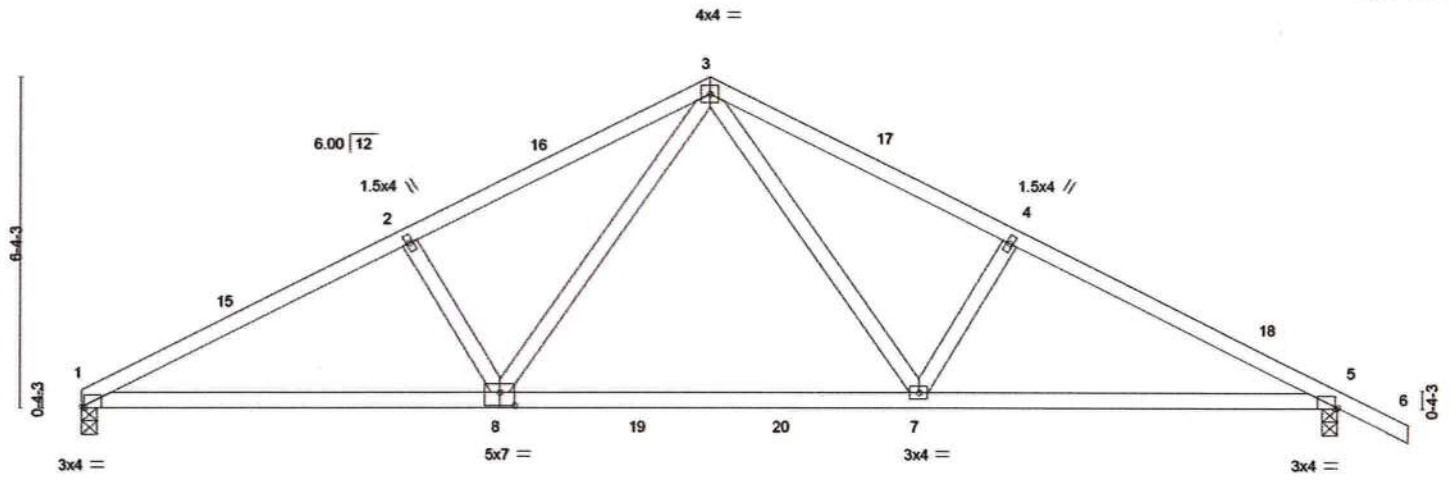

8-0-0 | 16-0-0 | 24-0-0
8-0-0 | 8-0-0 | 8-0-0

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

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	0.39	Vert(LL)	-0.15	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.25	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 109 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) 1=0-3-8, 5=0-3-8
Max Horz 1=-108(LC 10)
Max Uplift 5=-34(LC 12)
Max Grav 1=1066(LC 17), 5=1140(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1835/146, 2-3=-1700/170, 3-4=-1691/162, 4-5=-1826/139
BOT CHORD 1-8=-46/1686, 7-8=0/1086, 5-7=-49/1593
WEBS 3-7=-20/751, 4-7=-365/129, 3-8=-25/762, 2-8=-373/131

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=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-4-0 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) 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) 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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April 21,2021

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Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)	T23624815

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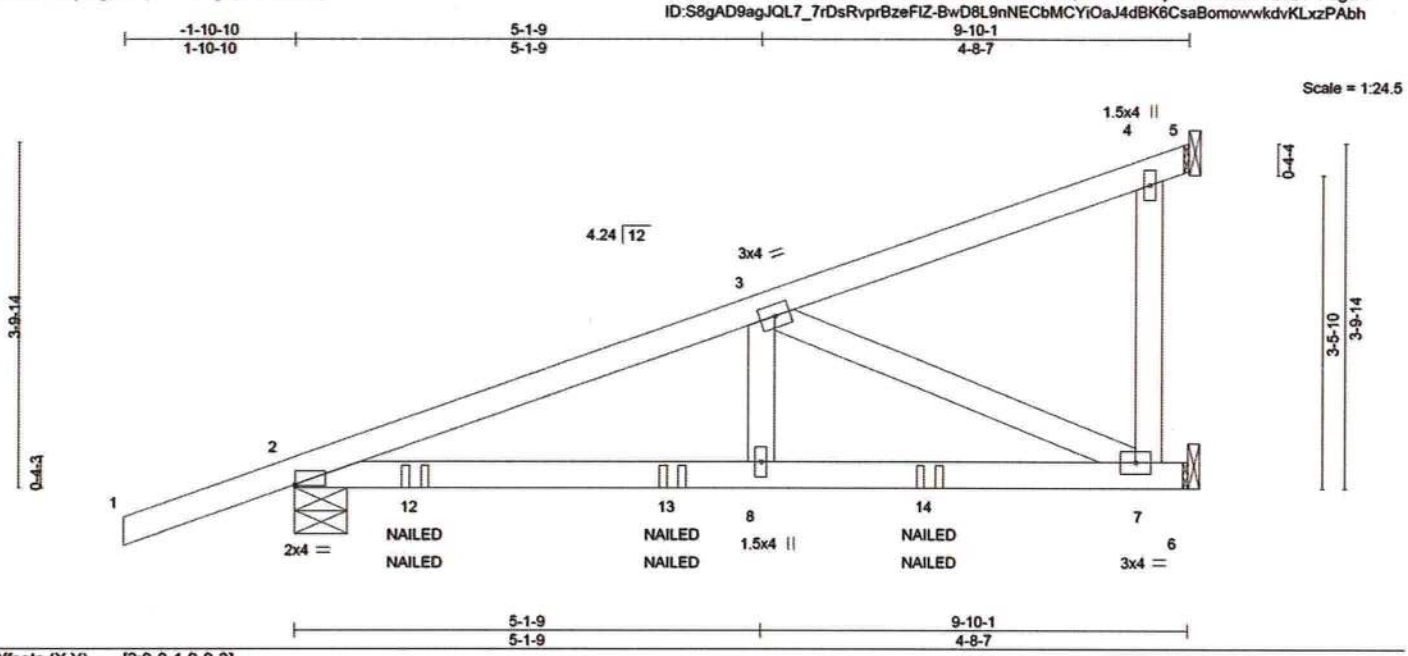

Plate Offsets (X,Y)-- [2:0-0-1,0-0-3]

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	0.46	Vert(LL)	-0.08	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.13	7-8	>882	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 47 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 5-6-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-7-0, 6=Mechanical
Max Horz 2=107(LC 24)
Max Uplift 5=-35(LC 8), 2=-94(LC 8), 6=-60(LC 24)
Max Grav 5=374(LC 1), 2=640(LC 1), 6=242(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1058/107
BOT CHORD 2-8=-150/962, 7-8=-150/962
WEBS 3-8=-48/416, 4-7=-84/288, 3-7=-1049/164

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 B; 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 100 lb uplift at joint(s) 5, 2, 6.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
8) 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: 1-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 12=3(F=2, B=2) 13=-93(F=-47, B=-47) 14=-260(F=-130, B=-130)

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Job	Truss	Truss Type	Qty	Ply	Spec House	T23624816
SPEC_HOUSE	CJ02	Diagonal Hip Girder	1	1	Job Reference (optional)	

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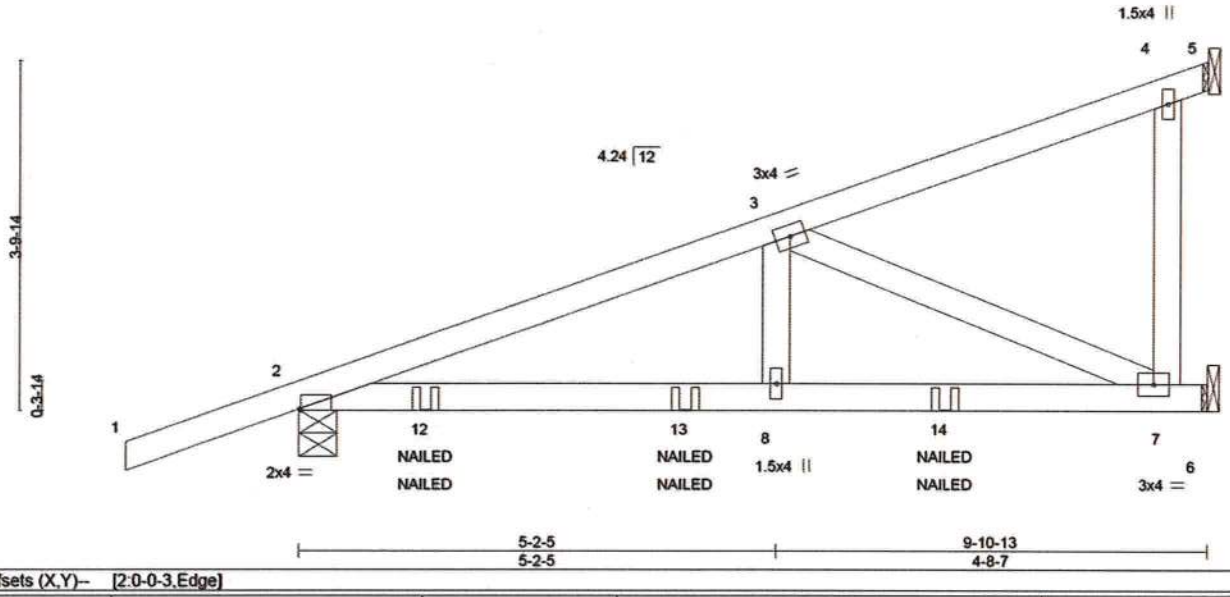
-1-10-10 / 1-10-10 | 5-2-5 / 5-2-5 | 9-10-13 / 4-8-7

Scale = 1:24.3



5-2-5 / 5-2-5 | 9-10-13 / 4-8-7

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

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	0.46	Vert(LL)	-0.08	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.13	7-8	>891	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 47 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 5-5-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-4-15, 6=Mechanical
Max Horz 2=108(LC 8)
Max Uplift 5=-35(LC 8), 2=-93(LC 8), 6=-60(LC 24)
Max Grav 5=375(LC 1), 2=642(LC 1), 6=243(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1070/108
BOT CHORD 2-8=-151/975, 7-8=-151/975
WEBS 3-8=-48/421, 4-7=-82/290, 3-7=-1063/165

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 B; 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 100 lb uplift at joint(s) 5, 2, 6.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
8) 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: 1-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 12=3(F=2, B=2) 13=-93(F=-47, B=-47) 14=-260(F=-130, B=-130)

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Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	CJ03	Diagonal Hip Girder	1	1	Job Reference (optional)	T23624817

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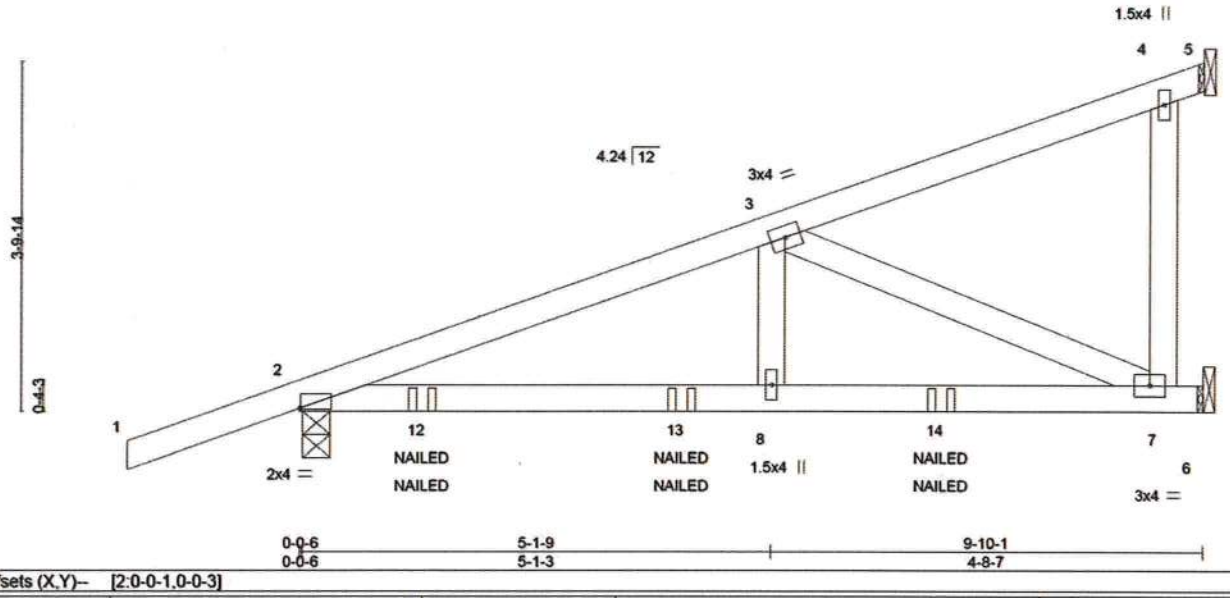
-1-10-10 | 5-1-9 | 9-10-1
1-10-10 | 5-1-9 | 4-8-7

Scale: 1/2"=1'



0-0-6 | 5-1-9 | 9-10-1
0-0-6 | 5-1-3 | 4-8-7

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

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	0.46	Vert(LL)	-0.08	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.13	7-8	>882	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 47 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 5-6-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=107(LC 8)
Max Uplift 5=-35(LC 8), 2=-94(LC 8), 6=-60(LC 24)
Max Grav 5=374(LC 1), 2=640(LC 1), 6=242(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1058/107
BOT CHORD 2-8=-150/962, 7-8=-150/962
WEBS 3-8=-48/416, 4-7=-84/288, 3-7=-1049/164

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 B; 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 100 lb uplift at joint(s) 5, 2, 6.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
8) 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: 1-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 12=3(F=2, B=2) 13=-93(F=-47, B=-47) 14=-260(F=-130, B=-130)

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Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	J01	JACK-OPEN	22	1	Job Reference (optional)	T23624818

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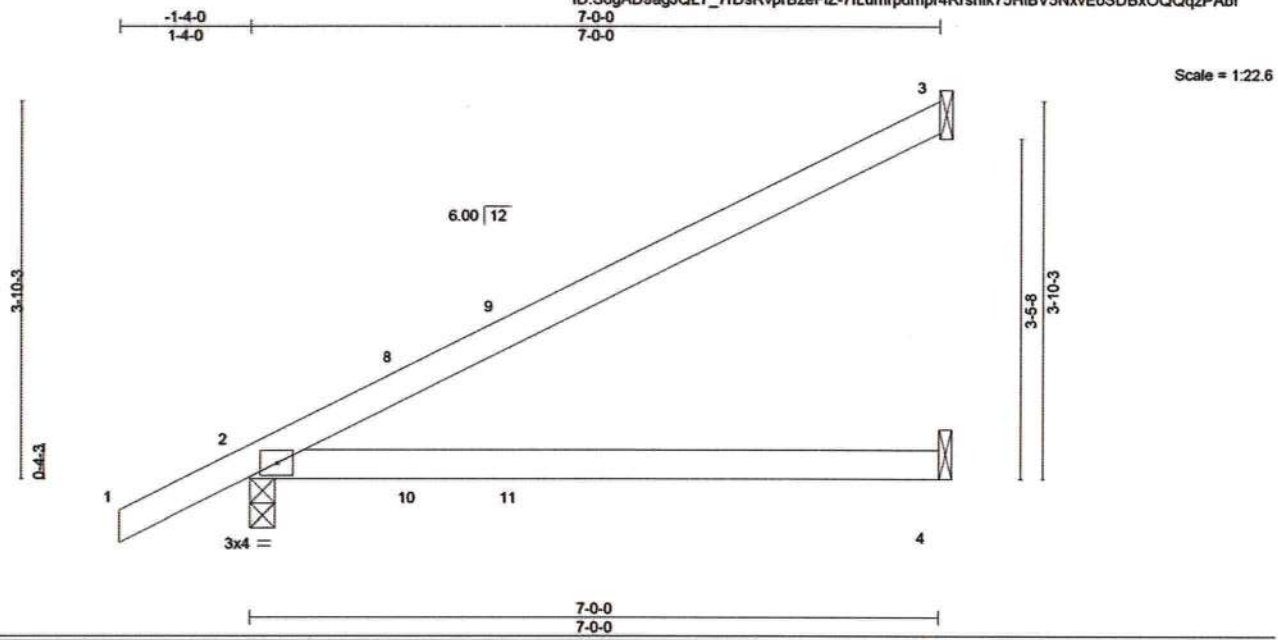

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.26	4-7	>326	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.21	4-7	>395	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 24 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=108(LC 12)
Max Uplift 3=-55(LC 12), 2=-76(LC 12), 4=-22(LC 12)
Max Grav 3=186(LC 1), 2=365(LC 1), 4=125(LC 3)

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

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 B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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 100 lb uplift at joint(s) 3, 2, 4.
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	Spec House	
SPEC_HOUSE	J02	JACK-OPEN	6	1	Job Reference (optional)	T23624819

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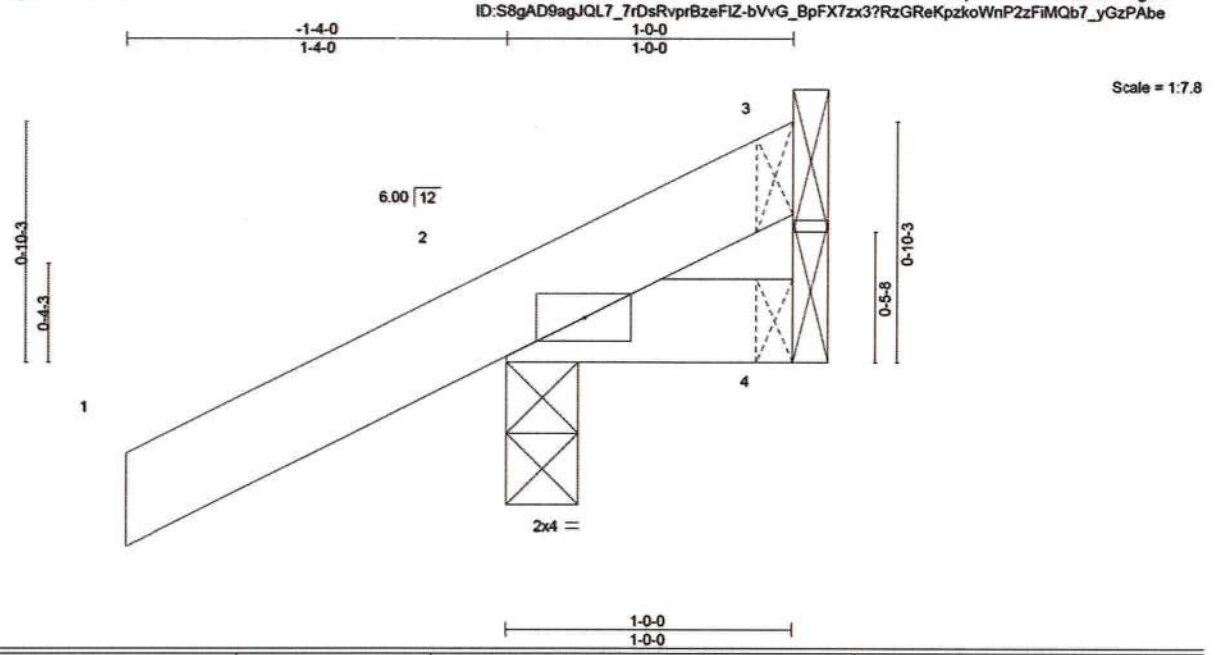

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 6 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=36(LC 12)
Max Uplift 3=-3(LC 9), 2=-67(LC 12), 4=-15(LC 17)
Max Grav 3=6(LC 12), 2=174(LC 1), 4=12(LC 12)

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

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 B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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 100 lb uplift at joint(s) 3, 2, 4.

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Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	J03	JACK-OPEN	6	1	Job Reference (optional)	T23624820

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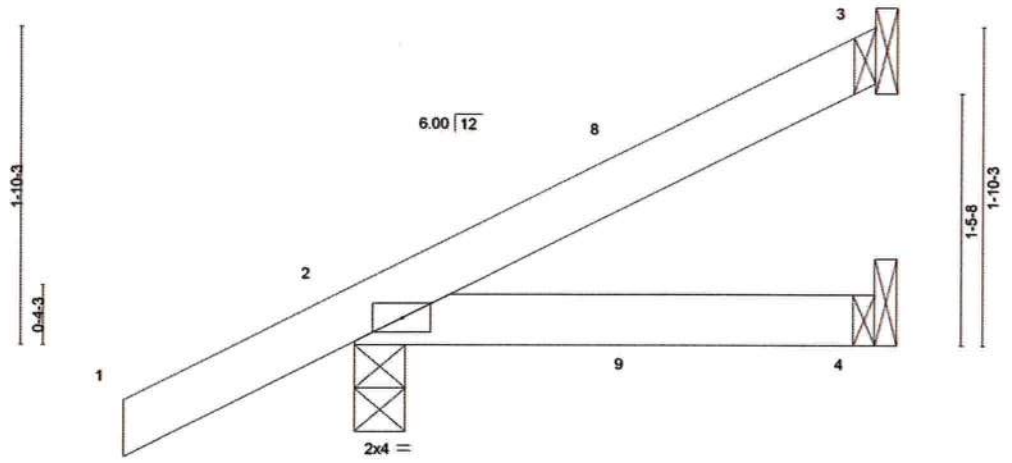

3-0-0 / 3-0-0

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	0.11	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 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, 2=0-3-8, 4=Mechanical
Max Horz 2=60(LC 12)
Max Uplift 3=-18(LC 12), 2=-59(LC 12), 4=-9(LC 9)
Max Grav 3=67(LC 1), 2=216(LC 1), 4=51(LC 3)

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

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 B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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 100 lb uplift at joint(s) 3, 2, 4.

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Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	J04	JACK-OPEN	6	1	Job Reference (optional)	T23624821

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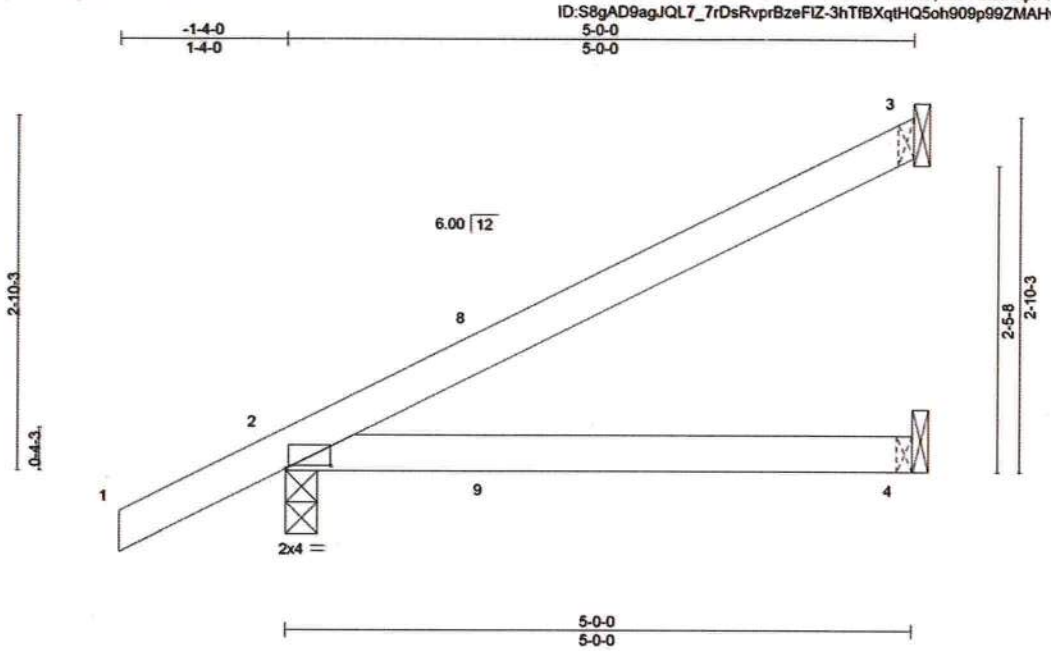

Plate Offsets (X,Y)-- [2:0-4-4,0-0-4]

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	0.29	Vert(LL)	0.08	4-7	>782	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 18 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=84(LC 12)
Max Uplift 3=-37(LC 12), 2=-66(LC 12), 4=-15(LC 12)
Max Grav 3=127(LC 1), 2=288(LC 1), 4=88(LC 3)

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

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 B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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 100 lb uplift at joint(s) 3, 2, 4.
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. Tampa FL 33610
Date:

April 21,2021

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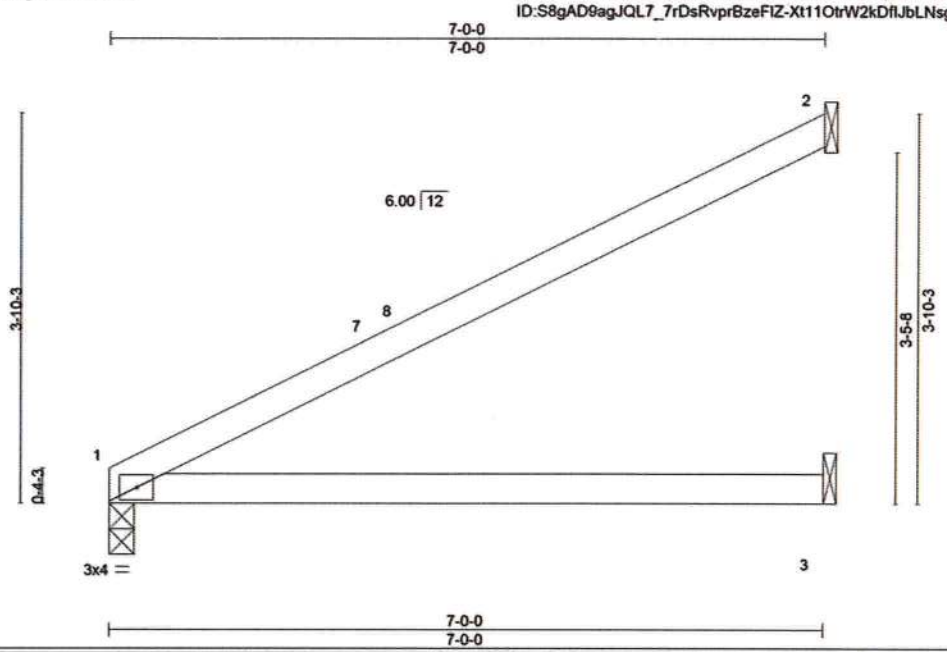
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Spec House	
SPEC_HOUSE	J05	Jack-Open	1	1	Job Reference (optional)	T23624822

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 10:53:59 2021 Page 1
ID:S8gAD9agJQL7_7rDsRvprBzeFIZ-Xt11OtrW2kDfIJbLNsgouOp0wbzmR8Cftvc419zPAbc



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	0.63	Vert(LL)	0.09	3-6	>886	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.22	3-6	>375	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 22 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-0, 2=Mechanical, 3=Mechanical
Max Horz 1=83(LC 12)
Max Uplift 2=-47(LC 12)
Max Grav 1=277(LC 1), 2=191(LC 1), 3=126(LC 3)

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

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 B; 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 100 lb uplift at joint(s) 2.
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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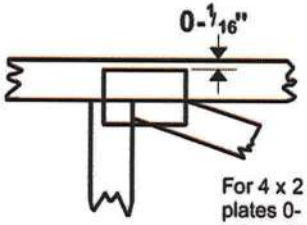
Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



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

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

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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION

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

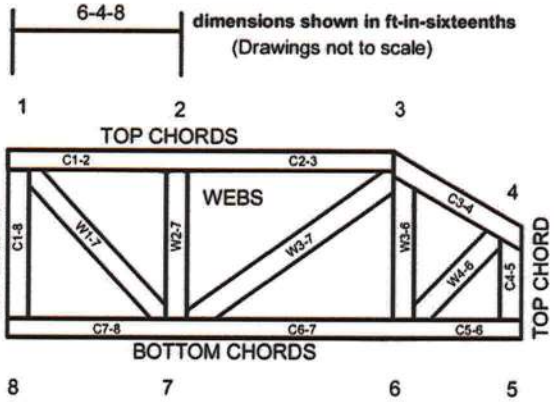
BEARING

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

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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/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.