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

RE: Renae_Preston - Resae Preston

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

Site Information:
Customer Info: Rick Rayzor Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: High Springs State: Fl

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

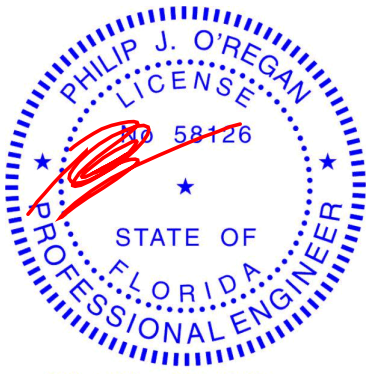
General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 37 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	T21529873	A1GE	10/8/20	23	T21529895	J1D	10/8/20
2	T21529874	A2	10/8/20	24	T21529896	J1E	10/8/20
3	T21529875	A3	10/8/20	25	T21529897	J1F	10/8/20
4	T21529876	A4	10/8/20	26	T21529898	J1G	10/8/20
5	T21529877	A5	10/8/20	27	T21529899	J1H	10/8/20
6	T21529878	A6	10/8/20	28	T21529900	J2	10/8/20
7	T21529879	A7	10/8/20	29	T21529901	J2A	10/8/20
8	T21529880	A8	10/8/20	30	T21529902	J2B	10/8/20
9	T21529881	A9	10/8/20	31	T21529903	J3	10/8/20
10	T21529882	A10	10/8/20	32	T21529904	J4	10/8/20
11	T21529883	A11GIR	10/8/20	33	T21529905	M1	10/8/20
12	T21529884	B1GE	10/8/20	34	T21529906	PB1	10/8/20
13	T21529885	B2	10/8/20	35	T21529907	PB2	10/8/20
14	T21529886	B3	10/8/20	36	T21529908	PB3	10/8/20
15	T21529887	CJ1	10/8/20	37	T21529909	PB4GE	10/8/20
16	T21529888	CJ2	10/8/20				
17	T21529889	CJ3	10/8/20				
18	T21529890	GIR1	10/8/20				
19	T21529891	J1	10/8/20				
20	T21529892	J1A	10/8/20				
21	T21529893	J1B	10/8/20				
22	T21529894	J1C	10/8/20				

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

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2021.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

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.

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A1GE	ATTIC GIRDER	1	1	T21529873
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:32 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-iXmqbKaV2H38gL3kZLD8q1SnhXGdKoZs8TeALtyVSN5

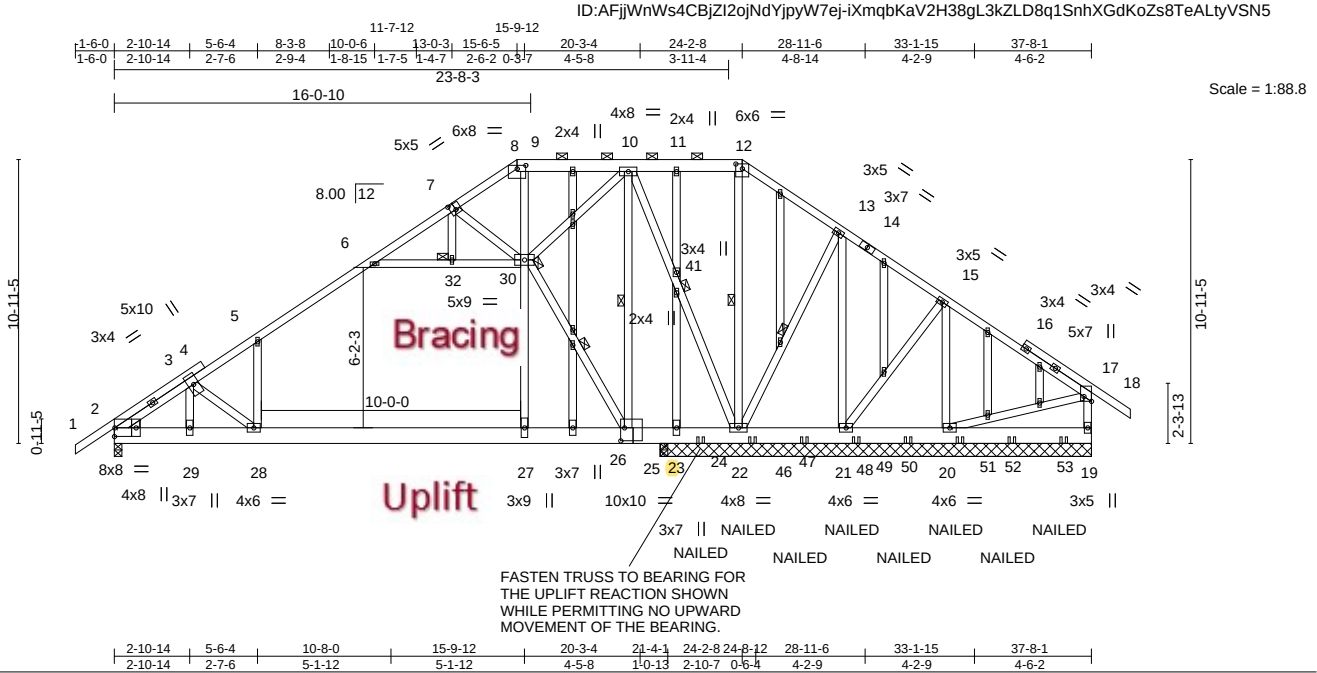


Plate Offsets (X,Y)-- [7:0-2-8,0-3-0], [8:0-4-0,0-1-9], [12:0-3-0,0-2-3], [17:Edge,0-3-8], [25:0-1-12,0-6-0]

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	0.78	Vert(LL)	-0.33	27-28	>766	240	MT20	137/130
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.57	27-28	>446	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	-0.02	20	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.19	27-28	662	360	Weight: 434 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
8-12: 2x6 SP No.2, 2-7: 2x4 SP SS
BOT CHORD 1-1/2X7-1/4 LP-LSL 1.75E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 26-30, 12-22, 13-22, 10-26
JOINTS 1 Brace at Jt(s): 30, 32, 41

REACTIONS. All bearings 16-7-8 except (jt=length) 2=0-3-8, 2=0-3-8, 24=0-3-8.
(lb) - Max Horz 2=353(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 22=-251(LC 8), 21=-321(LC 8), 19=-194(LC 8), 20=-380(LC 8), 23=-1868(LC 14), 24=-113(LC 26)
Max Grav All reactions 250 lb or less at joint(s) 23 except 22=1116(LC 31), 21=606(LC 19), 2=1337(LC 30), 2=1064(LC 1), 19=535(LC 1), 20=913(LC 1), 24=2986(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1856/0, 3-5=-1277/0, 5-6=-1152/92, 6-7=-324/14
BOT CHORD 2-29=0/1827, 28-29=0/1811, 27-28=0/1170, 26-27=0/1171
WEBS 3-29=-26/364, 3-28=-838/84, 5-28=-19/332, 6-32=-982/184, 30-32=-985/184, 27-30=0/1565, 26-30=-2033/123, 10-41=-350/10, 22-41=-360/12, 12-22=-267/0, 10-30=-137/263

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 1.5x4 MT20 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) Ceiling dead load (5.0 psf) on member(s). 5-6, 6-32, 30-32; Wall dead load (5.0psf) on member(s).5-28, 27-30
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-28
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 22=251, 21=321, 19=194, 20=380, 23=1868, 24=113.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearing 23. Building designer must provide for uplift reactions indicated.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

Continued on page 2

PHILIP J. O'REGAN LICENSE No 58126 STATE OF FLORIDA PROFESSIONAL ENGINEER

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

13) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
14) 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, 5-6=-70, 6-8=-60, 8-12=-60, 12-17=-60, 17-18=-60, 2-28=-20, 27-28=-30, 19-27=-20, 6-30=-10
   Drag: 5-28=-10, 27-30=-10
   Concentrated Loads (lb)
   Vert: 46=-200(F) 47=-200(F) 48=-200(F) 49=-200(F) 50=-200(F) 51=-200(F) 52=-203(F) 53=-203(F)

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A2	ATTIC	2	1	T21529874
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:34 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-fwub00clZuKsveD6hmFcvSX51Lz9oaT9cn7GQmyVSN3

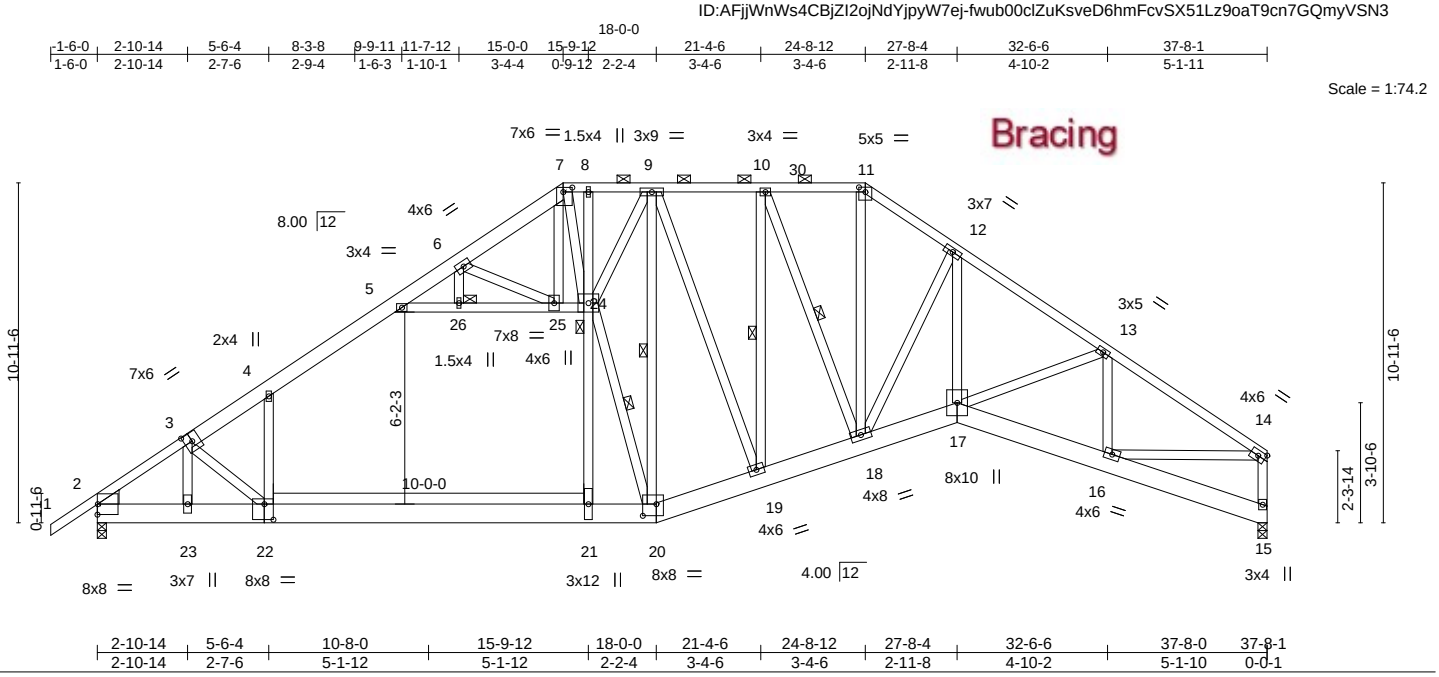


Plate Offsets (X,Y)-- [2:Edge,0-4-1], [3:0-3-0,0-3-4], [7:0-3-8,0-1-12], [11:0-2-8,0-1-13], [20:0-5-4,0-4-8], [22:0-3-8,0-6-0]

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	0.92	Vert(LL)	-0.25	21-22	>999	240	MT20	137/130
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.44	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.12	15	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS		Attic	-0.13	21-22	959	360	Weight: 398 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-7: 2x6 SP No.2
BOT CHORD 1-1/2X7-1/4 LP-LSL 1.75E
WEBS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-4-7 max.): 7-11.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 9-20, 10-19, 10-18, 20-24
JOINTS 1 Brace at Jt(s): 24, 26

REACTIONS. (size) 2=0-3-8, 15=0-3-8
Max Horz 2=350(LC 11)
Max Uplift 2=-114(LC 12), 15=-142(LC 12)
Max Grav 2=2177(LC 18), 15=1660(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2674/305, 3-4=-2842/274, 4-5=-2580/412, 5-6=-1512/280, 6-7=-1448/231, 7-8=-1210/193, 8-9=-1215/195, 9-10=-1800/497, 10-11=-1821/501, 11-12=-2206/565, 12-13=-2855/608, 13-14=-2475/505, 14-15=-1601/362
BOT CHORD 2-23=-298/2392, 22-23=-297/2403, 21-22=-212/2410, 20-21=-211/2404, 19-20=-135/1936, 18-19=-169/2014, 17-18=-324/2476, 16-17=-408/2094
WEBS 3-23=-508/0, 4-22=0/512, 5-26=-1243/190, 25-26=-1242/190, 24-25=-1350/356, 21-24=0/1461, 9-20=-262/711, 9-19=-111/385, 10-19=-400/137, 11-18=-214/1051, 12-18=-1240/338, 12-17=-194/1226, 13-17=0/448, 13-16=-648/204, 14-16=-316/1905, 7-25=-169/483, 7-24=-64/342, 20-24=-2004/324, 9-24=-1277/528

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
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.
6) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-26, 25-26, 24-25; Wall dead load (5.0psf) on member(s).4-22, 21-24
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-22
8) Bearing at joint(s) 15 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) except (jt=lb) 2=114, 15=142.
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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

PHILIP J. O'REGAN LICENSE No 58126 STATE OF FLORIDA PROFESSIONAL ENGINEER

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A2	ATTIC	2	1	T21529874 Job Reference (optional)

NOTES-

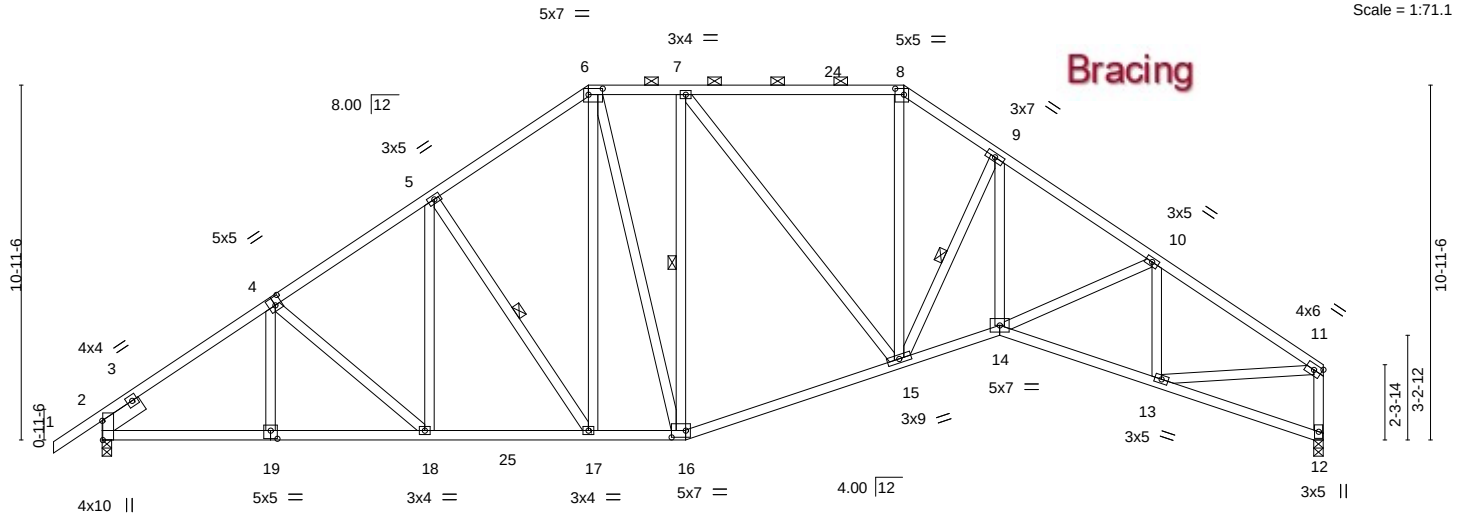
12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A3	PIGGYBACK BASE	4	1	T21529875
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:35 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-76SzDMdNKCSjXooJFTmrRf4FalECXADIrRsqyCyVSN2

1-6-0	5-2-5	10-1-3	15-0-0	18-0-0	24-8-12	27-8-4	32-6-6	37-8-1
1-6-0	5-2-5	4-10-13	4-10-13	3-0-0	6-8-12	2-11-8	4-10-2	5-1-11

Scale = 1:71.1



5-2-5	10-1-3	15-0-0	18-0-0	24-8-12	27-8-4	32-6-6	37-8-0	37-8-1
5-2-5	4-10-13	4-10-13	3-0-0	6-8-12	2-11-8	4-10-2	5-1-10	0-0-1

Plate Offsets (X,Y)-- [2:0-7-2,Edge], [4:0-2-8,0-3-0], [6:0-5-4,0-2-4], [8:0-3-4,0-2-4], [16:0-5-4,0-2-8], [19:0-2-8,0-3-0]

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	0.99	Vert(LL)	-0.12	14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.28	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.17	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 282 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-19: 2x4 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-5 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-17, 7-16, 9-15

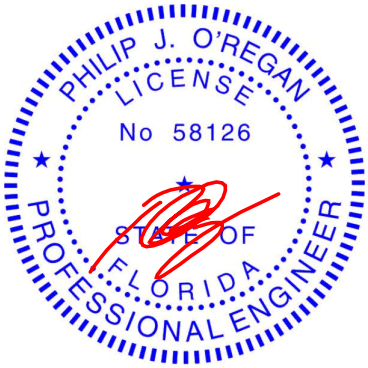
REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=355(LC 11)
Max Uplift 2=-278(LC 12), 12=-213(LC 12)
Max Grav 2=1593(LC 1), 12=1499(LC 1)

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

TOP CHORD	2-4=-2047/570, 4-5=-1881/613, 5-6=-1620/632, 6-7=-1341/602, 7-8=-1525/611, 8-9=-1855/683, 9-10=-2510/764, 10-11=-2180/608, 11-12=-1467/439
BOT CHORD	2-19=-474/1751, 18-19=-476/1752, 17-18=-381/1651, 16-17=-239/1331, 15-16=-285/1448, 14-15=-471/2121, 13-14=-504/1854
WEBS	5-18=-24/290, 5-17=-579/255, 6-17=-167/556, 6-16=-90/395, 7-16=-655/226, 7-15=-25/366, 8-15=-202/737, 9-15=-1153/388, 9-14=-281/1180, 10-14=-10/342, 10-13=-619/253, 11-13=-424/1704

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=278, 12=213.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

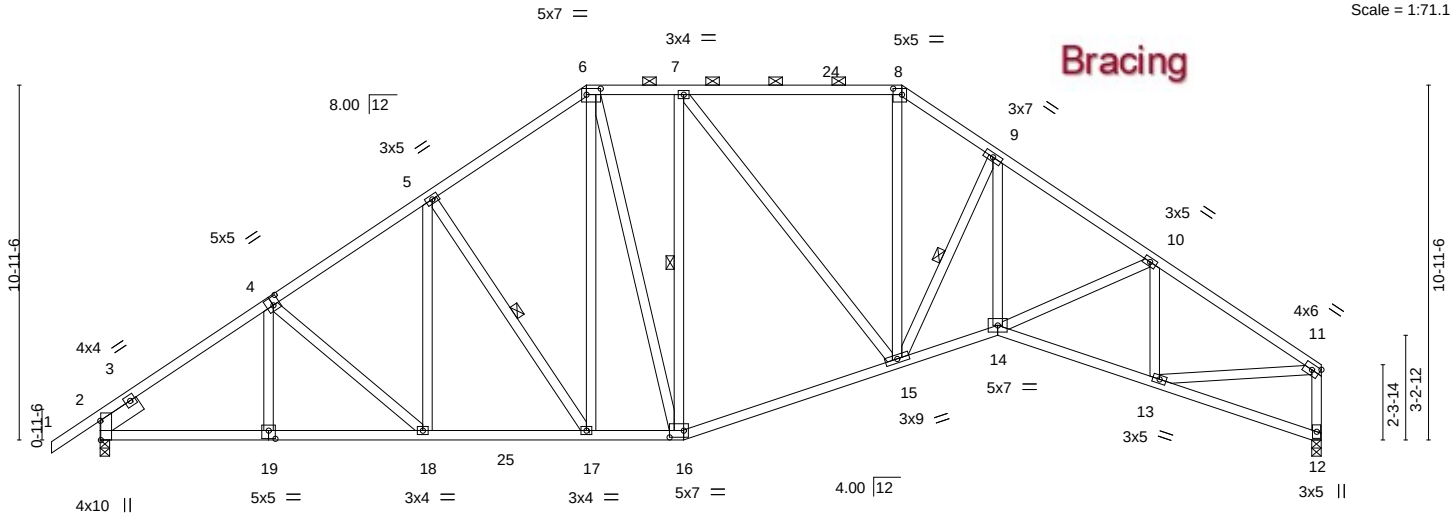
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A4	PIGGYBACK BASE	5	1	T21529876
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:36 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-bI0LRid05Vaa9yNVoAH4_tcPK9aRGdTS35cNUeyVSN1

1-6-0	5-2-5	10-1-3	15-0-0	18-0-0	24-8-12	27-8-4	32-6-6	37-8-1
1-6-0	5-2-5	4-10-13	4-10-13	3-0-0	6-8-12	2-11-8	4-10-2	5-1-11

Scale = 1:71.1



5-2-5	10-1-3	15-0-0	18-0-0	24-8-12	27-8-4	32-6-6	37-8-0	37-8-1
5-2-5	4-10-13	4-10-13	3-0-0	6-8-12	2-11-8	4-10-2	5-1-10	0-0-1

Plate Offsets (X,Y)-- [2:0-7-2,Edge], [4:0-2-8,0-3-0], [6:0-5-4,0-2-4], [8:0-3-4,0-2-4], [16:0-5-4,0-2-8], [19:0-2-8,0-3-0]

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	0.99	Vert(LL)	-0.12	14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.28	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.17	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 282 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-19: 2x4 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-5 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-17, 7-16, 9-15

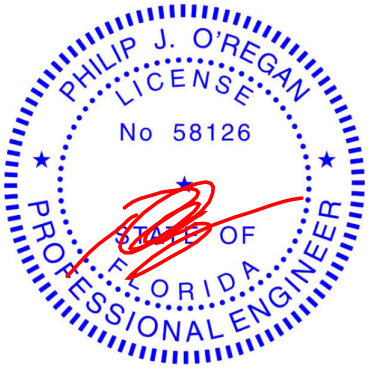
REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=355(LC 11)
Max Uplift 2=-278(LC 12), 12=-213(LC 12)
Max Grav 2=1593(LC 1), 12=1499(LC 1)

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

TOP CHORD	2-4=-2047/570, 4-5=-1881/613, 5-6=-1620/632, 6-7=-1341/602, 7-8=-1525/611, 8-9=-1855/683, 9-10=-2510/764, 10-11=-2180/608, 11-12=-1467/439
BOT CHORD	2-19=-474/1751, 18-19=-476/1752, 17-18=-381/1651, 16-17=-239/1331, 15-16=-285/1448, 14-15=-471/2121, 13-14=-504/1854
WEBS	5-18=-24/290, 5-17=-579/255, 6-17=-167/556, 6-16=-90/395, 7-16=-655/226, 7-15=-25/366, 8-15=-202/737, 9-15=-1153/388, 9-14=-281/1180, 10-14=-10/342, 10-13=-619/253, 11-13=-424/1704

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=278, 12=213.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

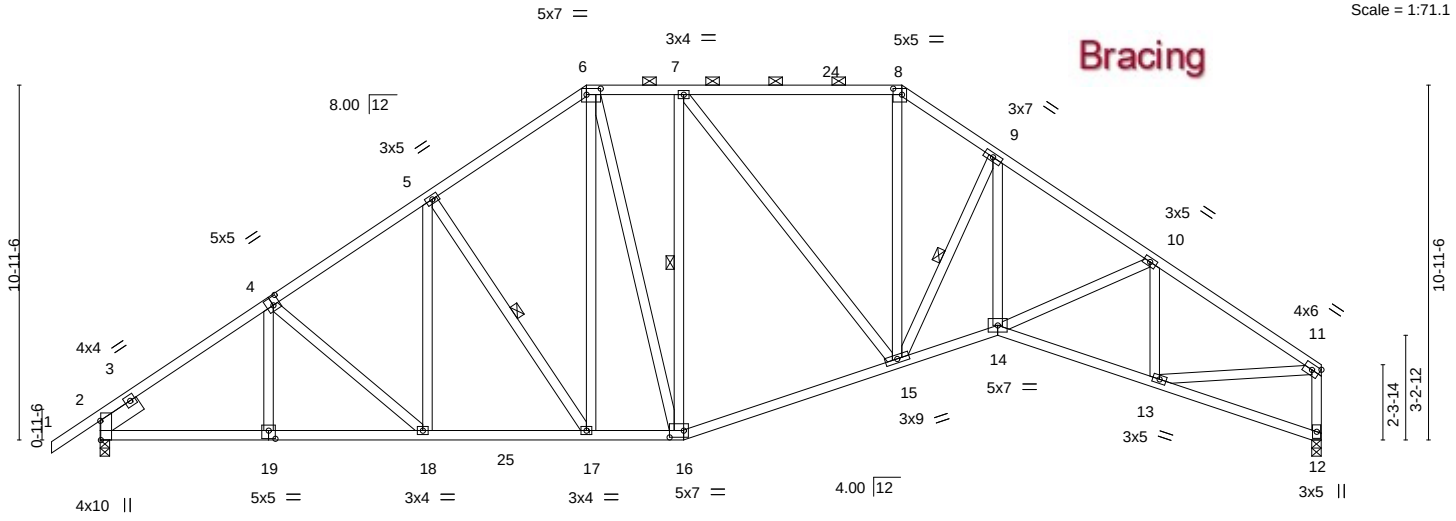
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A5	PIGGYBACK BASE	1	1	T21529877
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:37 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-3VZje2eespiRm6yhMuoJX49a4Ywg?4jbIlLx05yVSN0

1-6-0	5-2-5	10-1-3	15-0-0	18-0-0	24-8-12	27-8-4	32-6-6	37-8-1
1-6-0	5-2-5	4-10-13	4-10-13	3-0-0	6-8-12	2-11-8	4-10-2	5-1-11

Scale = 1:71.1



5-2-5	10-1-3	15-0-0	18-0-0	24-8-12	27-8-4	32-6-6	37-8-0	37-8-1
5-2-5	4-10-13	4-10-13	3-0-0	6-8-12	2-11-8	4-10-2	5-1-10	0-0-1

Plate Offsets (X,Y)-- [2:0-7-2,Edge], [4:0-2-8,0-3-0], [6:0-5-4,0-2-4], [8:0-3-4,0-2-4], [16:0-5-4,0-2-8], [19:0-2-8,0-3-0]

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	0.99	Vert(LL)	-0.12	14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.28	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.17	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 282 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-19: 2x4 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-5 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-17, 7-16, 9-15

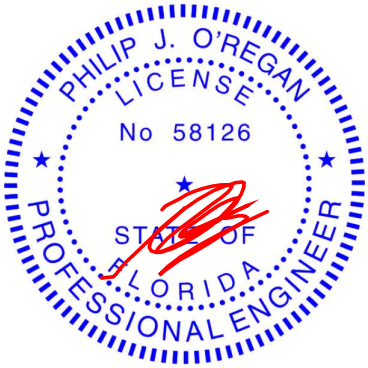
REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=355(LC 11)
Max Uplift 2=-278(LC 12), 12=-213(LC 12)
Max Grav 2=1593(LC 1), 12=1499(LC 1)

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

TOP CHORD	2-4=-2047/570, 4-5=-1881/613, 5-6=-1620/632, 6-7=-1341/602, 7-8=-1525/611, 8-9=-1855/683, 9-10=-2510/764, 10-11=-2180/608, 11-12=-1467/439
BOT CHORD	2-19=-474/1751, 18-19=-476/1752, 17-18=-381/1651, 16-17=-239/1331, 15-16=-285/1448, 14-15=-471/2121, 13-14=-504/1854
WEBS	5-18=-24/290, 5-17=-579/255, 6-17=-167/556, 6-16=-90/395, 7-16=-655/226, 7-15=-25/366, 8-15=-202/737, 9-15=-1153/388, 9-14=-281/1180, 10-14=-10/342, 10-13=-619/253, 11-13=-424/1704

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=278, 12=213.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

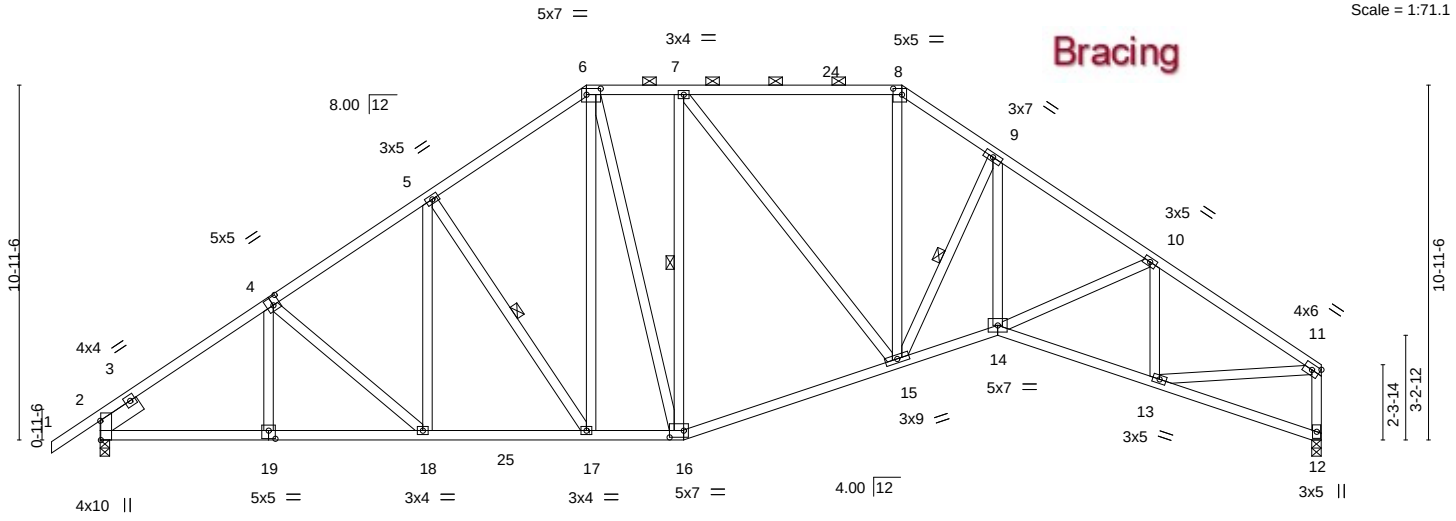
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A6	PIGGYBACK BASE	1	1	T21529878
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:38 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-Xh76sOfGd7qIOGXtwbJY3lilqyGvkXylXP5UZXyVSN?

1-6-0	5-2-5	10-1-3	15-0-0	18-0-0	24-8-12	27-8-4	32-6-6	37-8-1
1-6-0	5-2-5	4-10-13	4-10-13	3-0-0	6-8-12	2-11-8	4-10-2	5-1-11

Scale = 1:71.1



5-2-5	10-1-3	15-0-0	18-0-0	24-8-12	27-8-4	32-6-6	37-8-0	37-8-1
5-2-5	4-10-13	4-10-13	3-0-0	6-8-12	2-11-8	4-10-2	5-1-10	0-0-1

Plate Offsets (X,Y)-- [2:0-7-2,Edge], [4:0-2-8,0-3-0], [6:0-5-4,0-2-4], [8:0-3-4,0-2-4], [16:0-5-4,0-2-8], [19:0-2-8,0-3-0]

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	0.99	Vert(LL)	-0.12	14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.28	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.17	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 282 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-19: 2x4 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-5 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-17, 7-16, 9-15

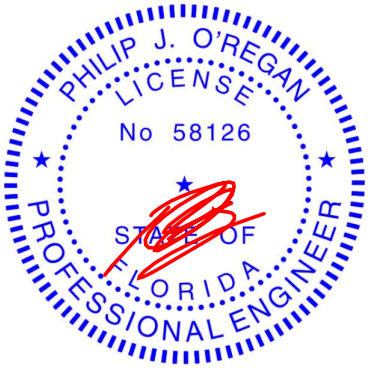
REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=355(LC 11)
Max Uplift 2=-278(LC 12), 12=-213(LC 12)
Max Grav 2=1593(LC 1), 12=1499(LC 1)

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

TOP CHORD	2-4=-2047/570, 4-5=-1881/613, 5-6=-1620/632, 6-7=-1341/602, 7-8=-1525/611, 8-9=-1855/683, 9-10=-2510/764, 10-11=-2180/608, 11-12=-1467/439
BOT CHORD	2-19=-474/1751, 18-19=-476/1752, 17-18=-381/1651, 16-17=-239/1331, 15-16=-285/1448, 14-15=-471/2121, 13-14=-504/1854
WEBS	5-18=-24/290, 5-17=-579/255, 6-17=-167/556, 6-16=-90/395, 7-16=-655/226, 7-15=-25/366, 8-15=-202/737, 9-15=-1153/388, 9-14=-281/1180, 10-14=-10/342, 10-13=-619/253, 11-13=-424/1704

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=278, 12=213.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



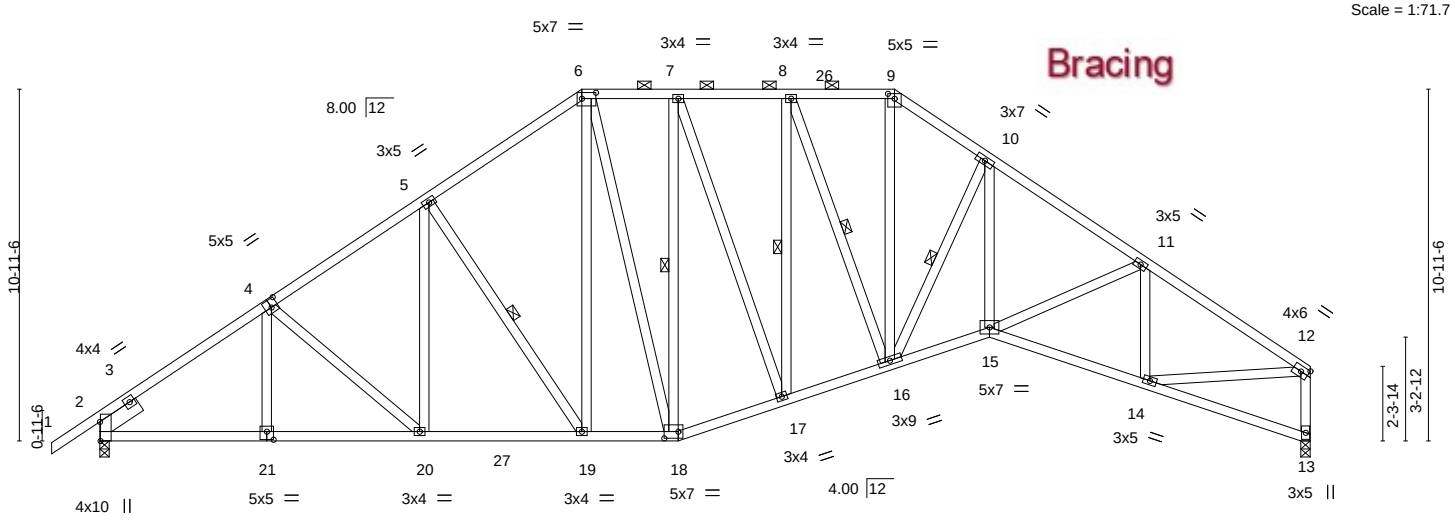
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A7	HIP	1	1	T21529879
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:40 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-T4FsG3hW9k40dZgG10M08jn5JmyMCRS1_jabcQyVSMz

1-6-0	5-2-5	10-1-3	15-0-0	18-0-0	21-4-6	24-8-12	27-8-4	32-6-6	37-8-1
1-6-0	5-2-5	4-10-13	4-10-13	3-0-0	3-4-6	3-4-6	2-11-8	4-10-2	5-1-11

Scale = 1:71.7



5-2-5	10-1-3	15-0-0	18-0-0	21-4-6	24-8-12	27-8-4	32-6-6	37-8-0	37-8-1
5-2-5	4-10-13	4-10-13	3-0-0	3-4-6	3-4-6	2-11-8	4-10-2	5-1-10	0-0-1

Plate Offsets (X,Y)-- [2:0-7-2,Edge], [4:0-2-8,0-3-0], [6:0-5-4,0-2-4], [9:0-2-8,0-1-13], [18:0-5-4,0-2-8], [21:0-2-8,0-3-0]

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	0.99	Vert(LL)	-0.13	15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.25	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.18	13	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 308 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*
	2-21: 2x4 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 1-6-0

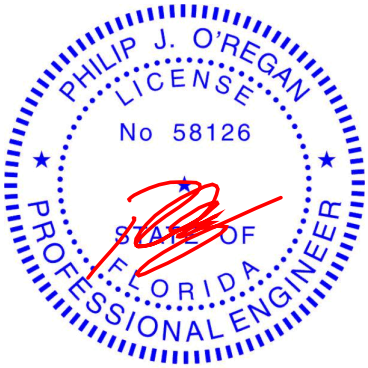
BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-15 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-19, 7-18, 8-17, 8-16, 10-16

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=355(LC 11)
Max Uplift 2=-278(LC 12), 13=-213(LC 12)
Max Grav 2=1593(LC 1), 13=1499(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2048/570, 4-5=-1881/613, 5-6=-1620/631, 6-7=-1324/595, 7-8=-1453/612, 8-9=-1511/608, 9-10=-1857/692, 10-11=-2513/764, 11-12=-2179/608, 12-13=-1466/439
BOT CHORD 2-21=-475/1752, 20-21=-476/1752, 19-20=-380/1650, 18-19=-240/1333, 17-18=-270/1420, 16-17=-298/1544, 15-16=-468/2131, 14-15=-503/1853
WEBS 5-20=-25/289, 5-19=-573/253, 6-19=-154/562, 6-18=-69/322, 7-18=-614/163, 7-17=-69/444, 8-17=-408/120, 9-16=-285/824, 10-16=-1202/399, 10-15=-266/1195, 11-15=-10/348, 11-14=-620/251, 12-14=-424/1701

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=278, 13=213.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

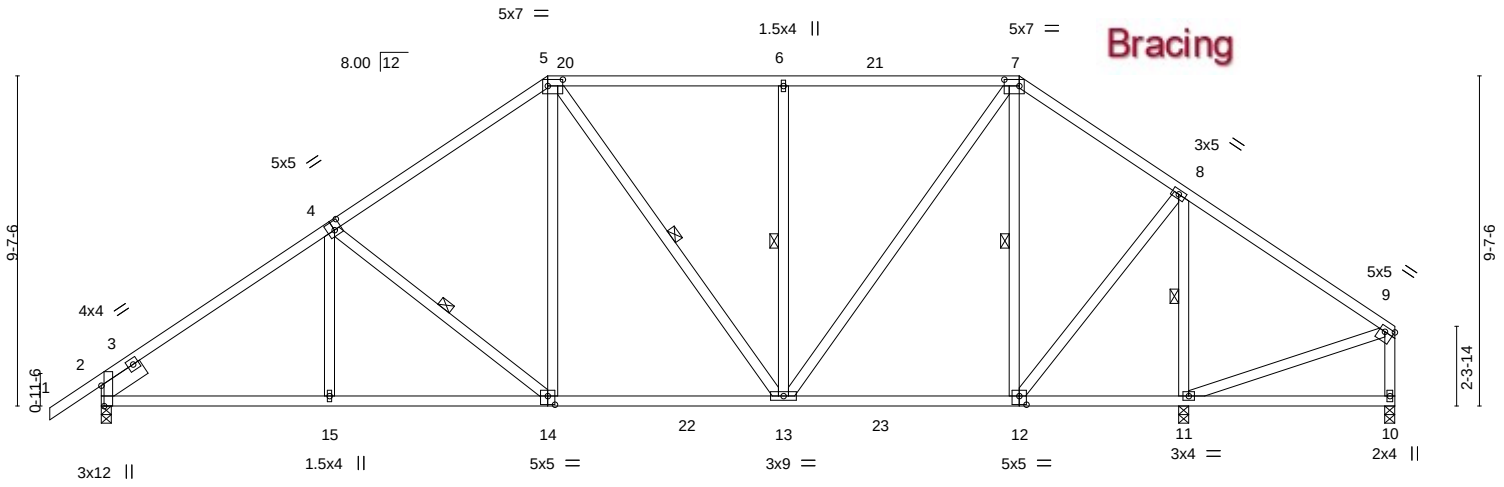
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A8	Hip	1	1	T21529880
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:41 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-yGpEUPh8w2CtFjFSbktFhwKJ7AJ4xrbBDNJ88syVSMy

1-6-0	6-7-12	13-0-0	19-10-6	26-8-12	31-6-4	37-8-1
1-6-0	6-7-12	6-4-4	6-10-6	6-10-6	4-9-8	6-1-13

Scale = 1:67.1



6-7-12	13-0-0	19-10-6	26-8-12	31-6-4	37-8-0	37-8-1
6-7-12	6-4-4	6-10-6	6-10-6	4-9-8	6-1-12	0-0-1

Plate Offsets (X,Y)-- [2:0-7-2,Edge], [4:0-2-8,0-3-0], [5:0-5-4,0-2-4], [7:0-5-4,0-2-4], [9:Edge,0-1-12], [12:0-2-8,0-3-0], [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	0.80	Vert(LL)	-0.11	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.19	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 250 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 1-6-0

BRACING-

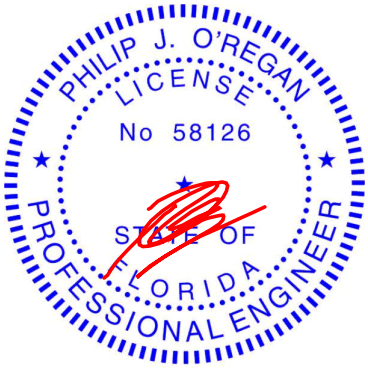
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-14, 5-13, 6-13, 7-12, 8-11

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 10=0-3-8
Max Horz 2=315(LC 11)
Max Uplift 2=-238(LC 12), 11=-324(LC 12), 10=-184(LC 21)
Max Grav 2=1325(LC 17), 11=1851(LC 1), 10=20(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1646/470, 4-5=-1335/490, 5-6=-952/469, 6-7=-952/469, 7-8=-624/330, 8-9=-54/425
BOT CHORD 2-15=-372/1447, 14-15=-373/1446, 13-14=-192/1144, 12-13=-28/483, 11-12=-308/155
WEBS 4-14=-484/232, 5-14=-67/483, 6-13=-464/267, 7-13=-253/927, 7-12=-724/218, 8-12=-159/1184, 8-11=-1648/499, 9-11=-362/204

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) except (jt=lb) 2=238, 11=324, 10=184.
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.



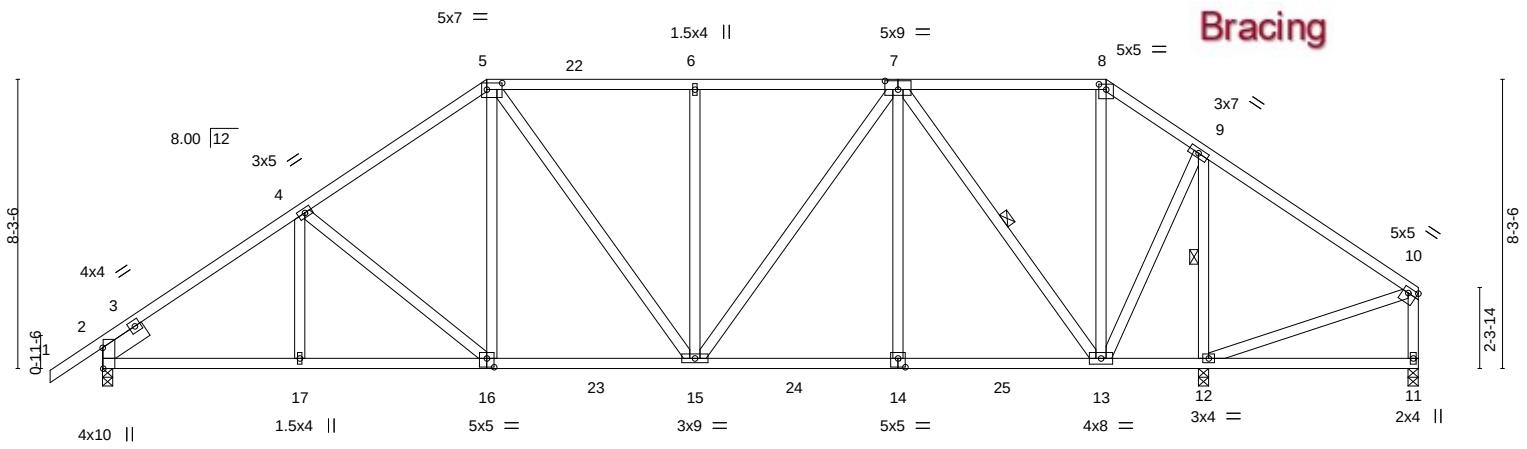
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A9	Hip	1	1	T21529881
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:43 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-ufx?v5jPSfSbU1Prj8vjmLPg5zz9PmjUghoFDkyVSMw

-1-6-0	5-7-12	11-0-0	16-11-8	22-9-4	28-8-12	31-6-4	37-8-1
1-6-0	5-7-12	5-4-4	5-11-8	5-9-12	5-11-8	2-9-8	6-1-13

Scale = 1:66.0



5-7-12	11-0-0	16-11-8	22-9-4	28-8-12	31-6-4	37-8-0	37-8-1
5-7-12	5-4-4	5-11-8	5-9-12	5-11-8	2-9-8	6-1-12	0-0-1

Plate Offsets (X,Y)-- [2:0-7-2,Edge], [5:0-5-4,0-2-4], [7:0-4-8,0-3-0], [8:0-2-8,0-1-13], [10:Edge,0-1-12], [14:0-2-8,0-3-0], [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	0.77	Vert(LL)	-0.09	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.17	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 259 lb	FT = 20%

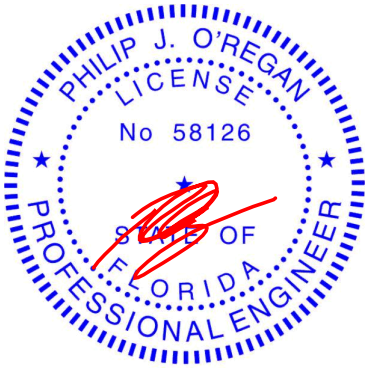
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -t 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-13, 9-12

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 11=0-3-8
Max Horz 2=276(LC 11)
Max Uplift 2=-231(LC 12), 12=-369(LC 12), 11=-321(LC 17)
Max Grav 2=1309(LC 17), 12=2007(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1620/455, 4-5=-1402/483, 5-6=-1153/482, 6-7=-1153/482, 8-9=-299/223, 9-10=-129/600, 10-11=-49/372
BOT CHORD 2-17=-375/1403, 16-17=-375/1403, 15-16=-236/1199, 14-15=-164/917, 13-14=-164/917, 12-13=-433/217
WEBS 4-16=-367/179, 5-16=-49/381, 6-15=-364/210, 7-15=-147/519, 7-14=0/314, 7-13=-1245/346, 9-13=-220/1339, 9-12=-1774/529, 10-12=-495/270

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) except (jt=lb) 2=231, 12=369, 11=321.
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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

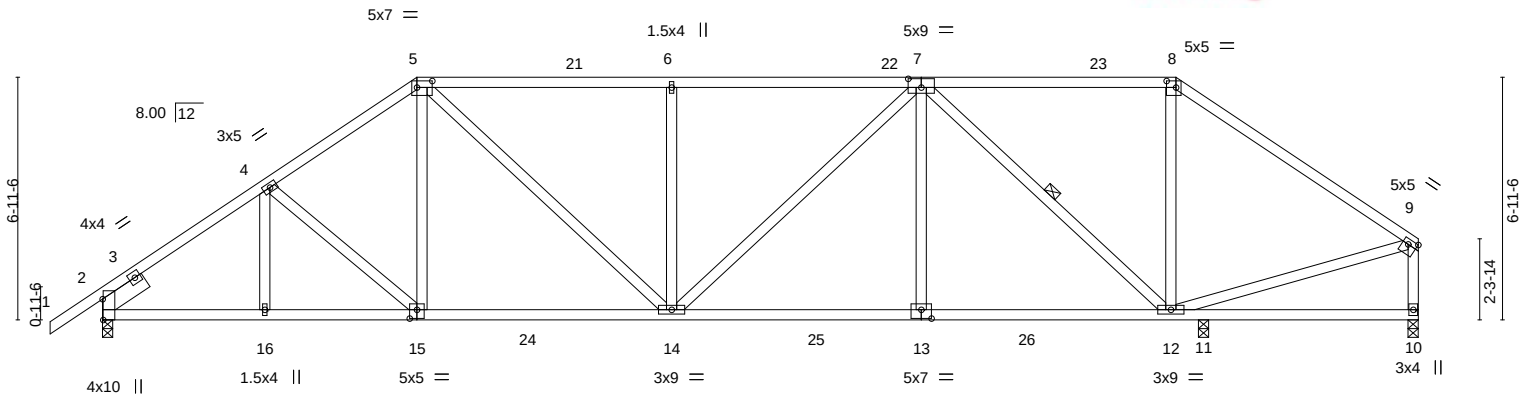
Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A10	Hip	1	1	T21529882
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:22 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-?c93VvTEOCpZToIp_E1oQw12BVpO_GROrwDe_SyVSNF

-1-6-0	4-7-12	9-0-0	16-3-8	23-5-4	30-8-12	37-8-1
1-6-0	4-7-12	4-4-4	7-3-8	7-1-12	7-3-8	6-11-4

Scale = 1:66.0

Bracing



4-7-12	9-0-0	16-3-8	23-5-4	30-8-12	31-8-0	37-8-0	37-8-1
4-7-12	4-4-4	7-3-8	7-1-12	7-3-8	0-11-4	6-0-0	0-0-1

Plate Offsets (X,Y)-- [2:0-7-2,Edge], [5:0-5-4,0-2-4], [7:0-4-8,0-3-0], [8:0-3-4,0-2-4], [9:Edge,0-1-12], [13:0-3-8,0-3-0], [15:0-2-8,0-3-0]

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	0.84	Vert(LL)	-0.15	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.32	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 230 lb	FT = 20%

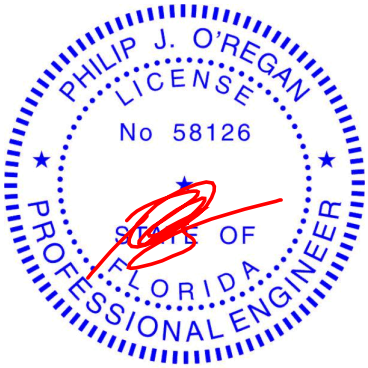
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-15: 2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -t 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-12

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 11=0-3-8
Max Horz 2=238(LC 11)
Max Uplift 2=-259(LC 12), 10=-188(LC 12), 11=-197(LC 12)
Max Grav 2=1543(LC 17), 10=1031(LC 18), 11=590(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1941/535, 4-5=-1863/576, 5-6=-1965/663, 6-7=-1965/663, 7-8=-964/332, 8-9=-1212/302, 9-10=-1083/268
BOT CHORD 2-16=-454/1633, 15-16=-454/1633, 14-15=-374/1600, 13-14=-424/1856, 12-13=-424/1856
WEBS 5-15=-3/291, 5-14=-171/682, 6-14=-455/271, 7-14=-98/279, 7-13=0/378, 7-12=-1286/369, 8-12=0/269, 9-12=-56/941

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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 259 lb uplift at joint 2, 188 lb uplift at joint 10 and 197 lb uplift at joint 11.
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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

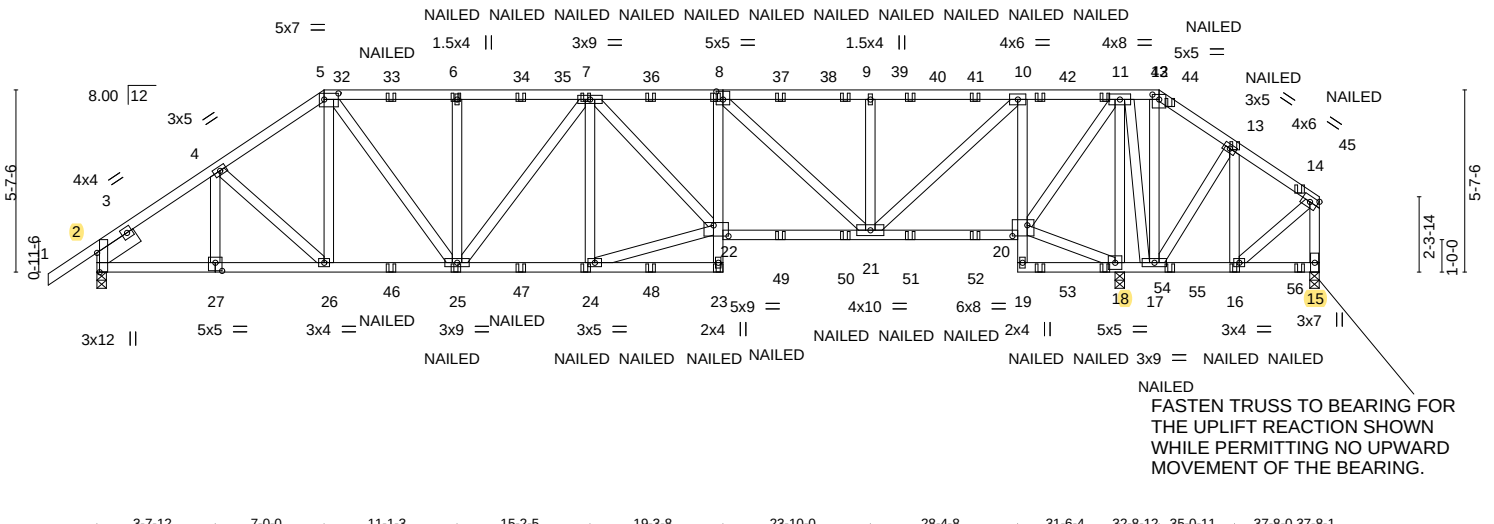
Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	A11GIR	Hip Girder	1	2	T21529883
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:29 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-Iy5izJYdlMhaptL9uCfRCOqInKBh7SLQSWPWkYyVSN8

1-6-0	3-7-12	7-0-0	11-1-3	15-2-5	19-3-8	23-10-0	28-4-8	31-6-4	32-8-12	35-0-11	37-8-1
1-6-0	3-7-12	3-4-4	4-1-3	4-1-3	4-1-3	4-6-8	4-6-8	3-1-12	1-2-8	2-3-14	2-7-6

Uplift

Scale = 1:71.0



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

3-7-12	7-0-0	11-1-3	15-2-5	19-3-8	23-10-0	28-4-8	31-6-4	32-8-12	35-0-11	37-8-0	37-8-1
3-7-12	3-4-4	4-1-3	4-1-3	4-1-3	4-6-8	4-6-8	3-1-12	1-2-8	2-3-14	2-7-5	0-0-1

Plate Offsets (X,Y)-- [2:0-7-2,Edge], [5:0-5-4,0-2-4], [8:0-2-8,0-3-0], [12:0-2-8,0-1-13], [20:0-5-8,0-4-0], [22:0-5-8,0-4-0], [27:0-2-8,0-3-0]

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	0.69	Vert(LL)	0.11	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.19	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.06	18	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 557 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-10-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 18=0-3-8
Max Horz 2=199(LC 31)
Max Uplift 2=-629(LC 8), 15=-1642(LC 36), 18=-1808(LC 8)
Max Grav 2=2146(LC 1), 15=273(LC 5), 18=5660(LC 1)

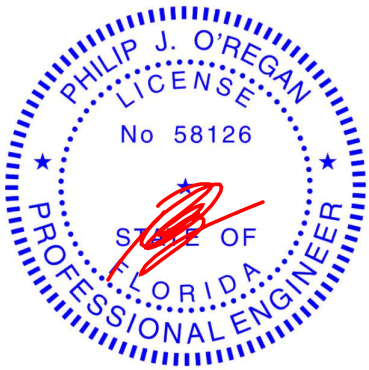
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-4=-2744/795, 4-5=-2848/899, 5-6=-2928/946, 6-7=-2928/946, 7-8=-3154/1021, 8-9=-1589/582, 9-10=-1589/582, 10-11=-190/892, 11-12=-466/1877, 12-13=-604/2231, 13-14=-321/1456, 14-15=-319/1647
BOT CHORD	2-27=-619/2216, 26-27=-619/2216, 25-26=-679/2424, 24-25=-809/2972, 8-22=-130/994, 21-22=-891/3149, 20-21=-879/317, 10-20=-2652/912, 17-18=-2201/718, 16-17=-1146/300
WEBS	4-26=-267/409, 5-26=0/438, 5-25=-267/955, 6-25=-516/307, 7-24=-657/346, 22-24=-821/2990, 7-22=-115/299, 8-21=-2147/606, 9-21=-528/270, 10-21=-984/3294, 18-20=-2300/747, 11-20=-679/2268, 11-18=-4129/1417, 11-17=-676/1870, 12-17=-1187/346, 13-17=-1311/501, 13-16=-401/1268, 14-16=-1491/359

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.
   Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 629 lb uplift at joint 2, 1642 lb uplift at joint 15 and 1808 lb uplift at joint 18.
9) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearing 15. Building designer must provide for uplift reactions indicated.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

Continued on page 2



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 292 lb down and 281 lb up at 7-0-0 on top chord, and 350 lb down and 88 lb up at 7-0-0 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: 1-5=-60, 5-12=-60, 12-14=-60, 23-28=-20, 20-22=-20, 15-19=-20
   Concentrated Loads (lb)
   Vert: 5=-186(B) 8=-124(B) 23=-56(B) 26=-327(B) 25=-56(B) 6=-124(B) 7=-124(B) 24=-56(B) 13=-75(B) 16=-104(B) 33=-124(B) 34=-124(B) 36=-124(B) 37=-102(B) 39=-102(B) 40=-102(B) 41=-102(B) 42=-124(B) 43=-124(B) 44=-121(B) 45=-122(B) 46=-56(B) 47=-56(B) 48=-56(B) 49=-78(B) 50=-78(B) 51=-78(B) 52=-78(B) 53=-56(B) 54=-56(B) 55=-103(B) 56=-80(B)

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	B1GE	COMMON SUPPORTED GAB	1	1	T21529884 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:45 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-q12lKnkf_GilkKZEqZxBrmU9Bnsrtnwn8?HMHdyVSMu

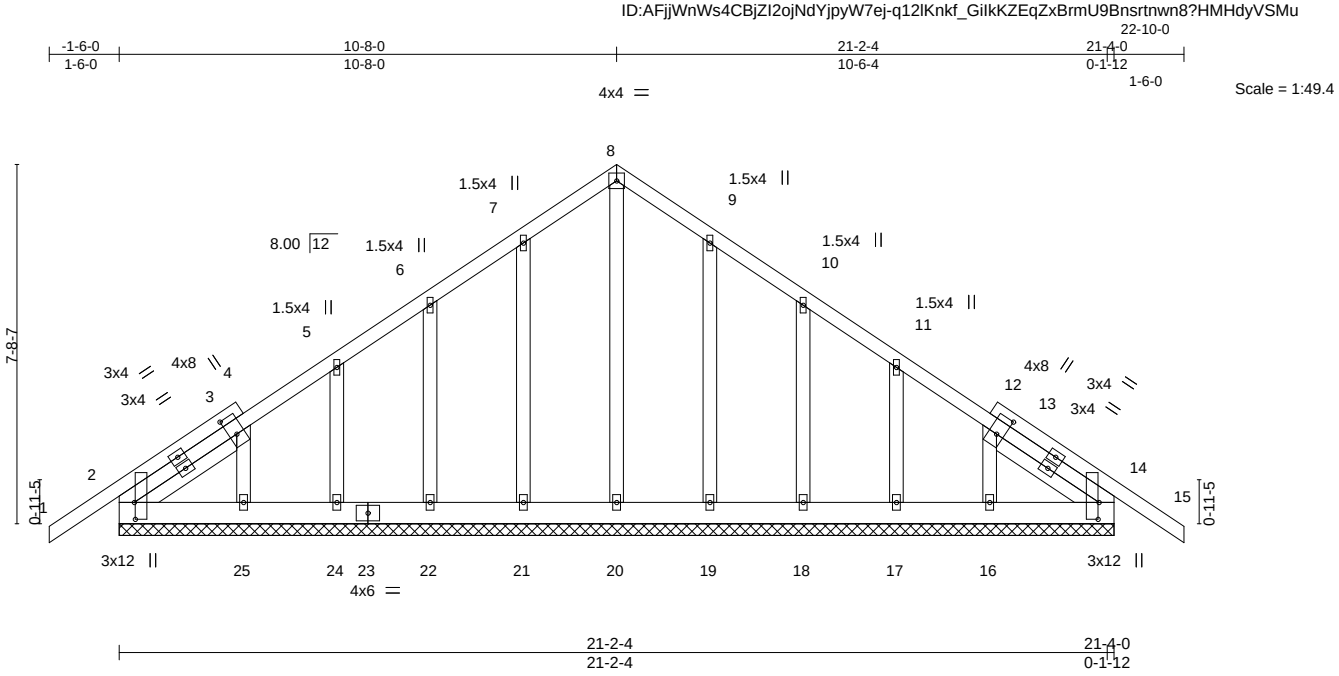


Plate Offsets (X,Y)-- [2:0-4-5,0-0-4], [3:0-5-0,0-1-14], [13:0-5-0,0-1-14], [14:0-4-5,0-0-4]

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	0.15	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 165 lb	FT = 20%

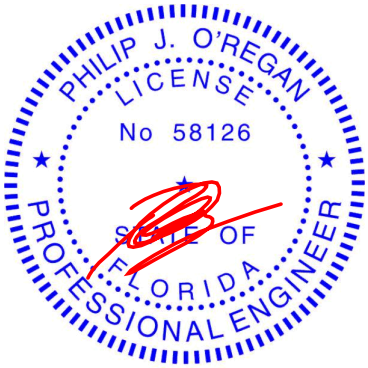
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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 21-4-0.
(lb) - Max Horz 2=-211(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 24, 25, 19, 18, 17, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 24, 25, 19, 18, 17, 16

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
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) 2, 14, 21, 22, 24, 25, 19, 18, 17, 16.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	B2	Attic	5	1	T21529885
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:46 2020 Page 1

ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-IDc7X7lHlaq9LU8QOHTQO_1CxA7mcAOwMf1vq3yVSMt

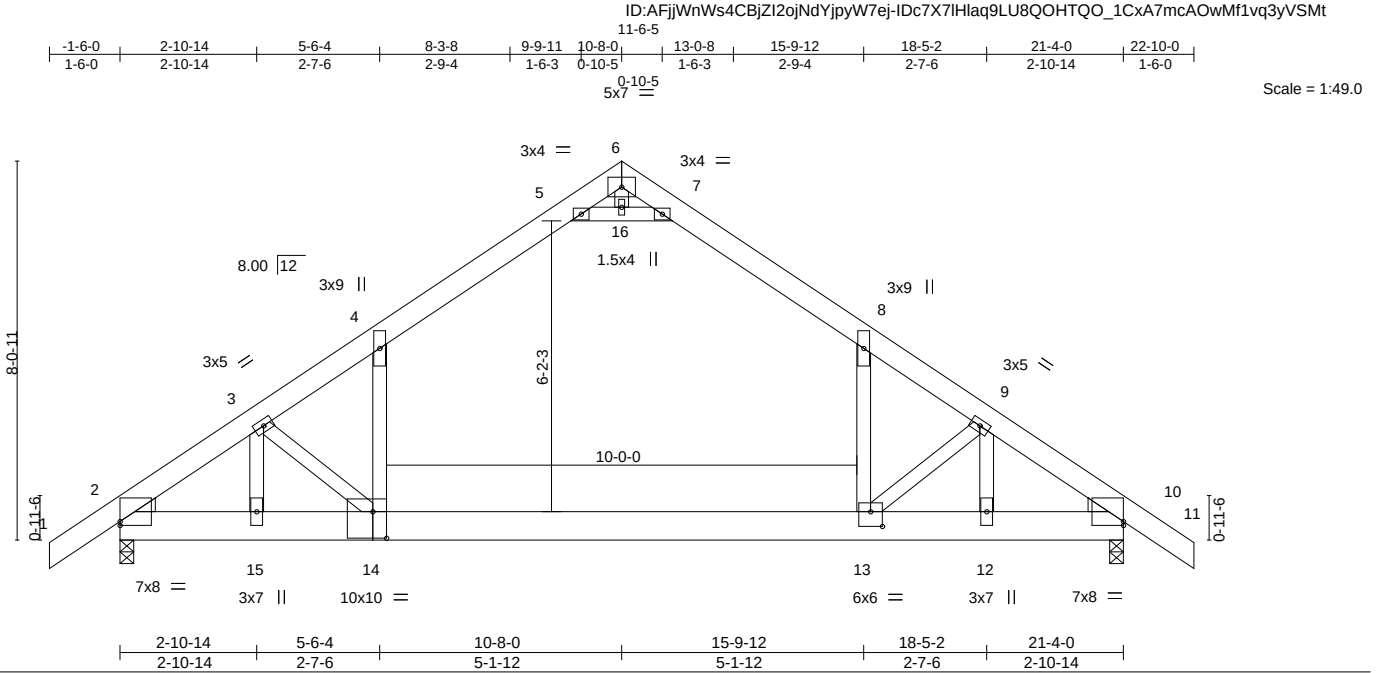


Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [10:0-0-0,0-1-0], [13:0-3-0,0-3-12], [14:0-3-8,0-6-12]

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	0.66	Vert(LL)	-0.27	13-14	>940	240	MT20	137/130
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.45	13-14	>566	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS		Attic	-0.13	13-14	944	360	Weight: 177 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP SS
BOT CHORD 1-1/2X7-1/4 LP-LSL 1.75E
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

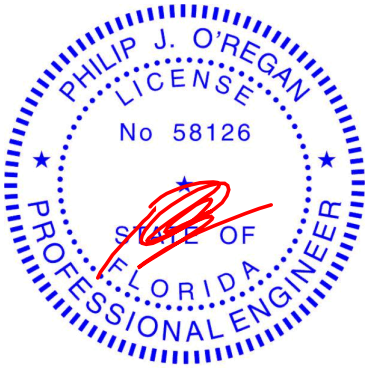
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=221(LC 11)
Max Uplift 2=-82(LC 12), 10=-82(LC 12)
Max Grav 2=1330(LC 18), 10=1324(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1647/146, 3-4=-1819/104, 4-5=-1174/208, 5-6=-55/1063, 6-7=-54/1064, 7-8=-1174/208, 8-9=-1780/107, 9-10=-1646/147
BOT CHORD 2-15=-14/1512, 14-15=-14/1512, 13-14=0/1255, 12-13=-31/1347, 10-12=-31/1347
WEBS 5-16=-2537/330, 7-16=-2537/330, 8-13=0/999, 9-13=-374/158, 9-12=-545/0, 4-14=0/1055, 3-14=-358/166, 3-15=-580/0, 6-16=-30/330

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-16, 7-16; Wall dead load (5.0psf) on member(s).8-13, 4-14
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
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.
9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	B3	Attic	4	1	T21529886
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:47 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-mQAVlTmvWuy0zejcy__fxBZNeaS_Ldd3bJmSMWyVSMs

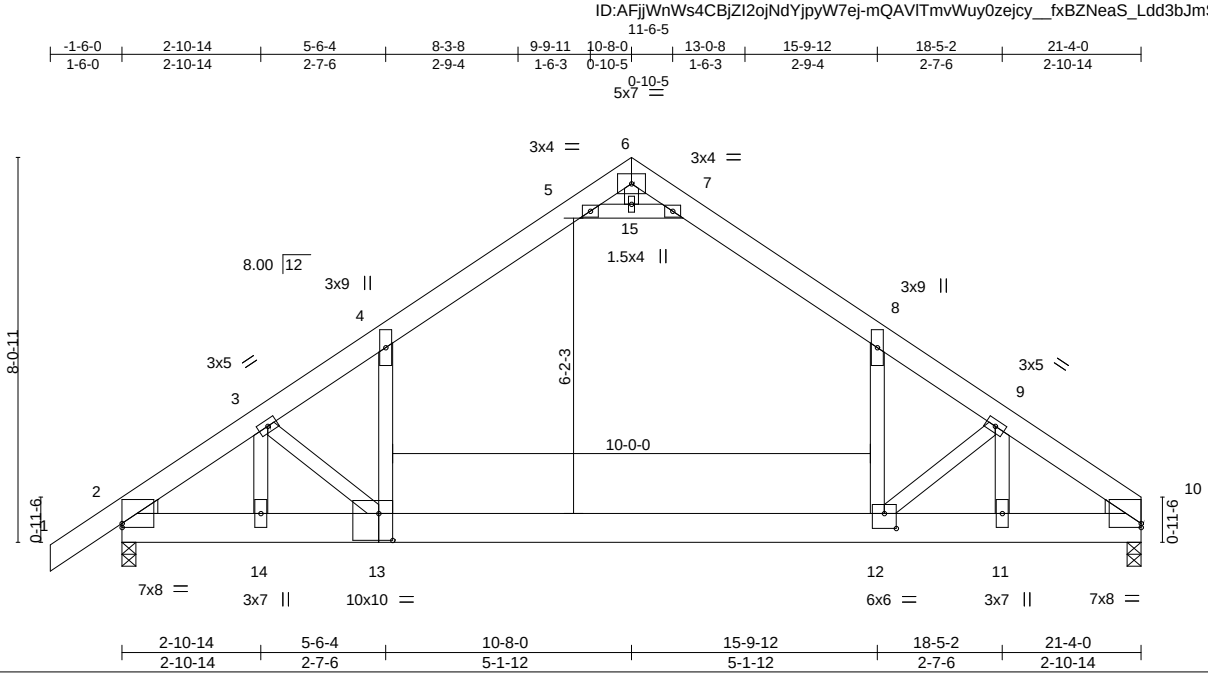


Plate Offsets (X,Y)-- [2:Edge,0-1-0], [10:Edge,0-1-0], [12:0-3-0,0-3-12], [13:0-3-8,0-6-12]

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	0.67	Vert(LL)	-0.27	12-13	>940	240	MT20	137/130
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.45	12-13	>566	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS		Attic	-0.13	12-13	944	360	Weight: 173 lb	FT = 20%

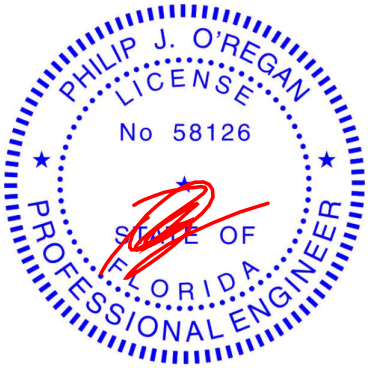
LUMBER-
TOP CHORD 2x6 SP SS
BOT CHORD 1-1/2X7-1/4 LP-LSL 1.75E
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 10=0-3-8, 2=0-3-8
Max Horz 2=213(LC 11)
Max Uplift 10=-17(LC 12), 2=-84(LC 12)
Max Grav 10=1237(LC 19), 2=1332(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1649/149, 3-4=-1827/112, 4-5=-1179/213, 5-6=-61/1067, 6-7=-61/1071, 7-8=-1176/213, 8-9=-1787/117, 9-10=-1676/164
BOT CHORD 2-14=-70/1500, 13-14=-70/1500, 12-13=0/1244, 11-12=-85/1383, 10-11=-85/1383
WEBS 5-15=-2550/345, 7-15=-2550/345, 8-12=0/1004, 9-12=-377/174, 9-11=-534/0, 4-13=0/1057, 3-13=-354/161, 3-14=-586/0, 6-15=-32/331

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).8-12, 4-13
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
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.
9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	CJ1	Diagonal Hip Girder	1	1	T21529887
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:48 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-EckuyonXGB4tboIoViVuTP6b__mf457DqzW0uyyVSMr

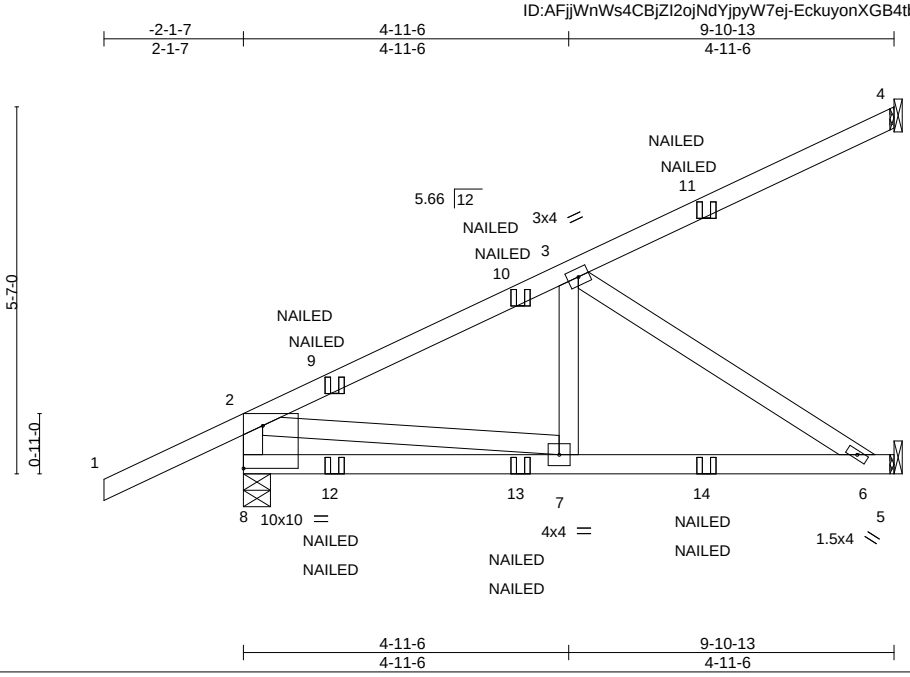


Plate Offsets (X,Y)-- [8:Edge,0-7-12]

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	0.50	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 54 lb	FT = 20%

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

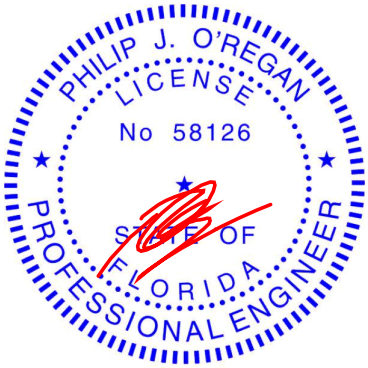
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 8=0-4-15, 4=Mechanical, 5=Mechanical
Max Horz 8=239(LC 8)
Max Uplift 8=-217(LC 8), 4=-91(LC 8), 5=-79(LC 8)
Max Grav 8=536(LC 28), 4=148(LC 28), 5=340(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-492/225, 2-3=-585/144
BOT CHORD 7-8=-263/49, 6-7=-183/477
WEBS 2-7=-86/592, 3-6=-565/217

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 8=217.
6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 9=87(F=44, B=44) 11=-78(F=-39, B=-39) 13=3(F=2, B=2) 14=-45(F=-22, B=-22)



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

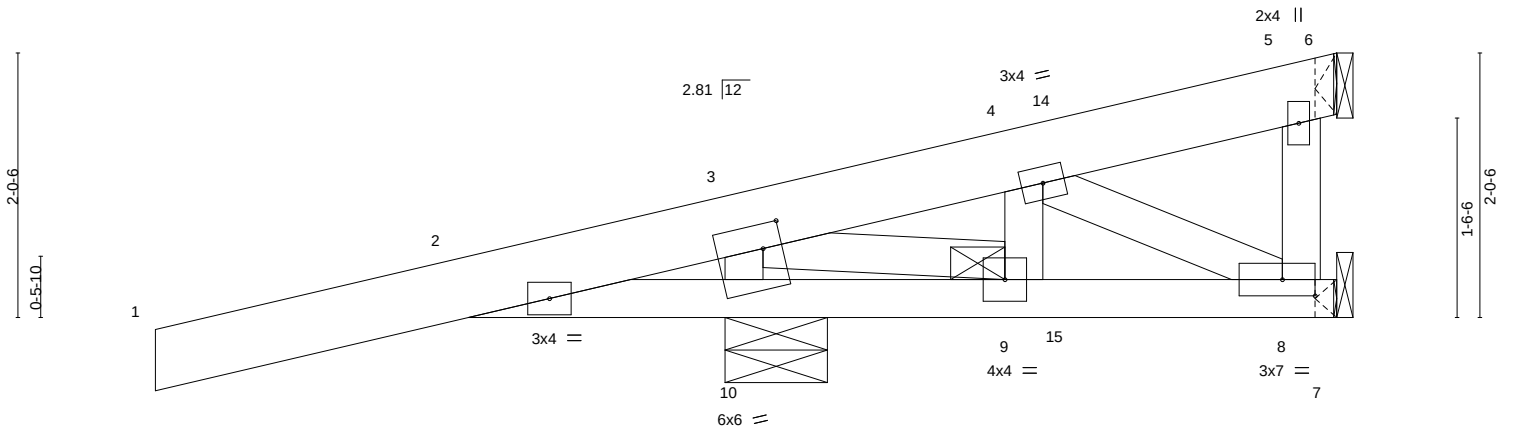
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	CJ2	DIAGONAL HIP GIRDER	1	1	T21529888
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:48 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-EckuyonXGB4tboIoViVuTP6eE_rc47ODqzW0uyyVSMr

-4-3-4 2-4-13 4-9-11
4-3-4 2-4-13 2-4-14

Scale = 1:17.7



0-1-4 2-4-13 4-9-11
0-1-4 2-3-9 2-4-14

Plate Offsets (X,Y)-- [10:0-1-12,0-2-4]

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	0.29	Vert(LL)	0.00	9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	0.00	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.13	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MP							Weight: 41 lb	FT = 20%

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

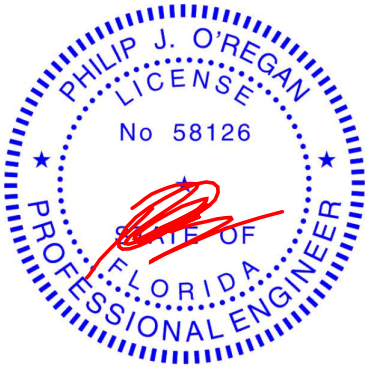
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 9

REACTIONS. (size) 6=Mechanical, 8=Mechanical, 10=0-9-7
Max Horz 10=77(LC 23)
Max Uplift 6=-30(LC 1), 8=-158(LC 11), 10=-381(LC 8)
Max Grav 6=58(LC 11), 8=106(LC 24), 10=612(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-526/815, 3-4=-217/331, 3-10=-530/329
BOT CHORD 2-10=-772/549, 9-10=-772/510, 8-9=-305/236
WEBS 4-8=-240/353, 3-9=-403/582

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=158, 10=381.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 124 lb up at 2-8-1, and 53 lb down and 88 lb up at 2-9-1 on top chord, and 40 lb up at 2-8-1, and 22 lb down and 10 lb up at 2-9-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 5-6=-60, 7-11=-20
Concentrated Loads (lb)
Vert: 4=41(B) 9=23(B) 14=-2(F) 15=-15(F)



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

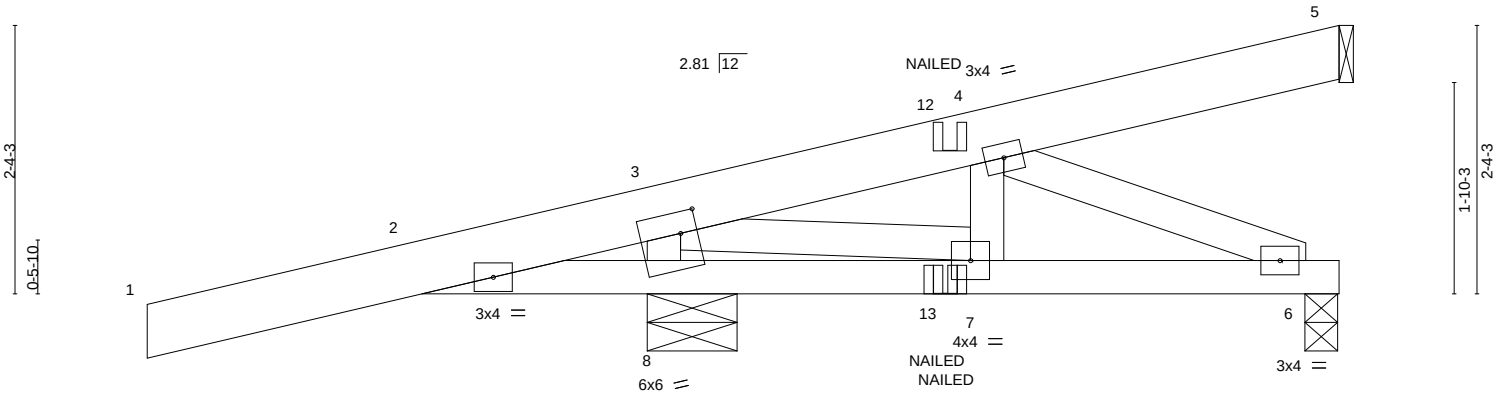
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	CJ3	Diagonal Hip Girder	1	1	T21529889
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:49 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-joIG98n91VCkCys?3P070cfpkOBipaJM3dFZQOyVSMq

-4-3-4 3-1-0 6-1-15
4-3-4 3-1-0 3-1-0

Scale = 1:20.2



0-1-4 3-1-0 6-0-1 6-1-15
0-1-4 2-11-11 2-11-2 0-1-14

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

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	0.31	Vert(LL)	0.01	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.01	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MP							Weight: 47 lb	FT = 20%

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

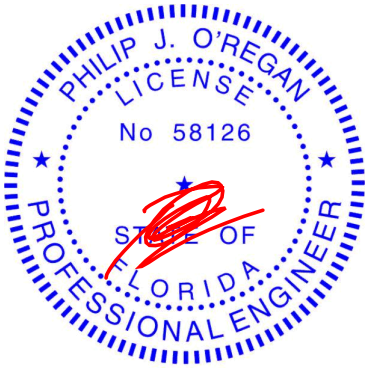
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 8=0-9-7, 5=Mechanical, 6=0-3-7
Max Horz 8=96(LC 8)
Max Uplift 8=-382(LC 8), 5=-43(LC 8), 6=-89(LC 11)
Max Grav 8=631(LC 1), 5=90(LC 1), 6=63(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-8=-555/312, 2-3=-525/779
BOT CHORD 2-8=-733/547, 7-8=-733/451
WEBS 3-7=-441/676

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) 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, 6 except (jt=lb) 8=382.
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: 1-3=-60, 3-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 13=49(F=64, B=-15)



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

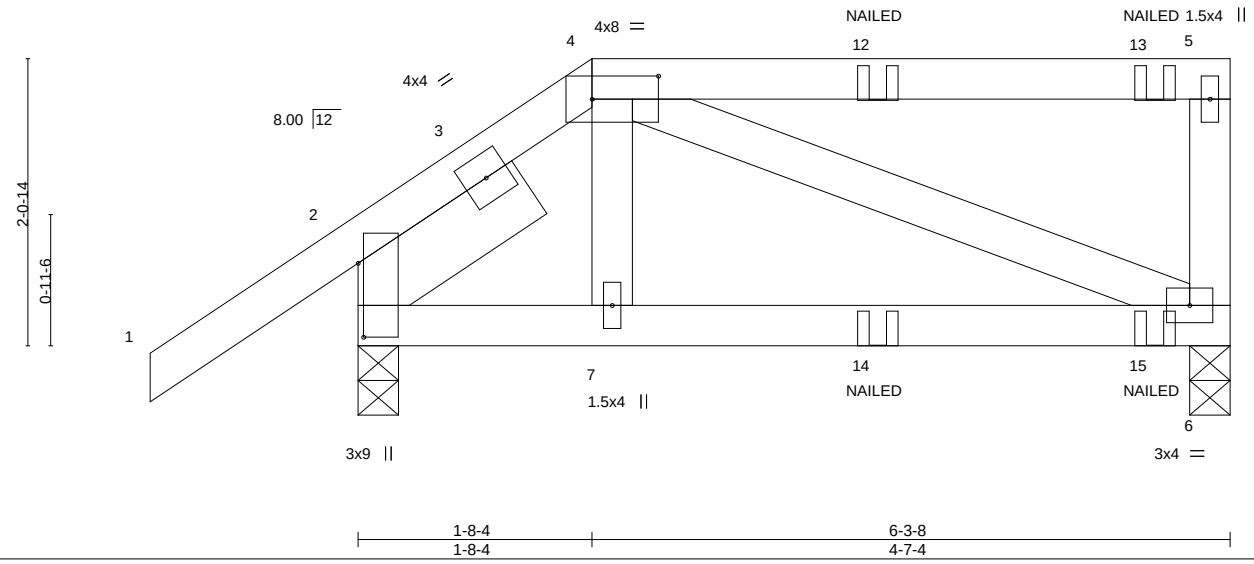
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	GIR1	Half Hip Girder	1	2	T21529890
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:50 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-B?seNUooopLbq6RBd7XMYqByooWxY3IWHH?7zqyVSMp

-1-6-0 1-8-4 6-3-8
1-6-0 1-8-4 4-7-4

Scale = 1:16.6



1-8-4 6-3-8
1-8-4 4-7-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	0.02	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.03	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 73 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -t 1-6-0

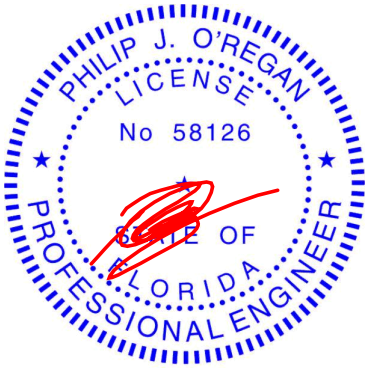
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=91(LC 31)
Max Uplift 2=-388(LC 8), 6=-332(LC 4)
Max Grav 2=572(LC 1), 6=607(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-549/407, 5-6=-319/140
BOT CHORD 2-7=-313/394, 6-7=-330/412
WEBS 4-7=-242/365, 4-6=-443/338

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.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=388, 6=332.
9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 172 lb down and 170 lb up at 1-8-4 on top chord, and 147 lb down and 237 lb up at 1-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

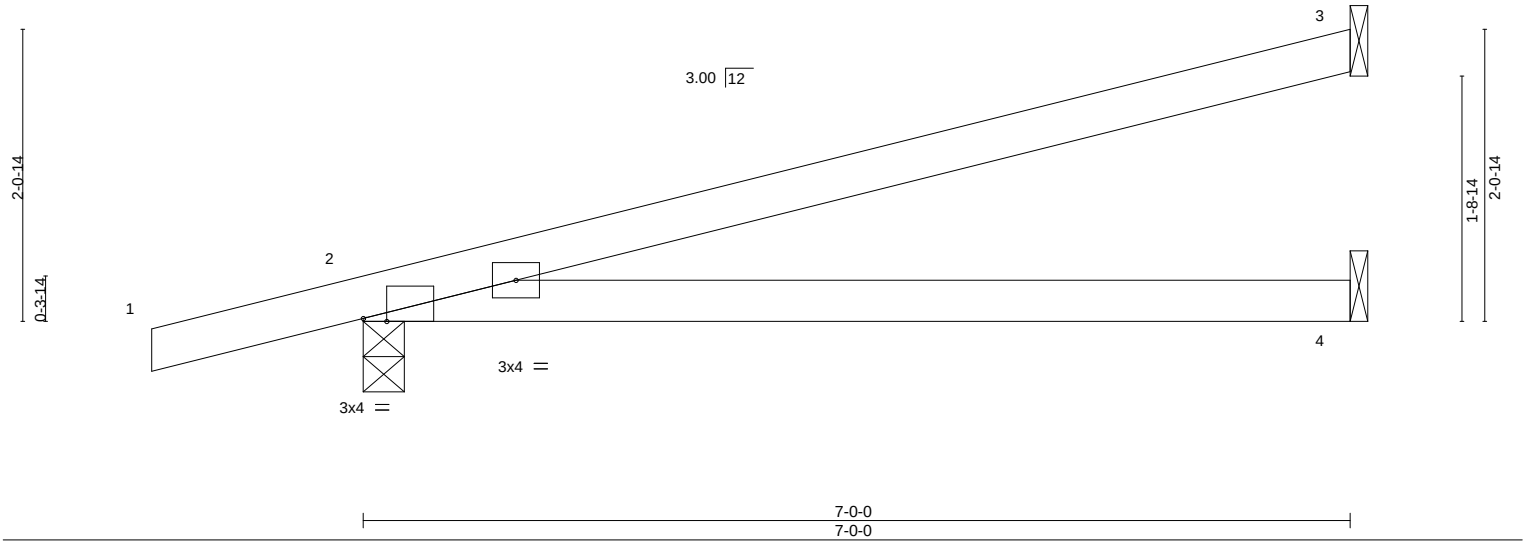
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-5=-60, 6-8=-20
   Concentrated Loads (lb)
   Vert: 4=-96(F) 7=-99(F) 12=-123(F) 13=-141(F) 14=-65(F) 15=-71(F)

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J1	Jack-Open	3	1	T21529891
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:51 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-fBQ0aqpQZ6TSSG0NBq2b51k4wBmeHVAfWxkgVHyVSMo

-1-6-0 7-0-0
1-6-0 7-0-0

Scale = 1:16.3



7-0-0
7-0-0

Plate Offsets (X,Y)-- [2:0-2-0,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	0.58	Vert(LL)	0.28	4-7	>299	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.21	4-7	>401	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 24 lb	FT = 20%

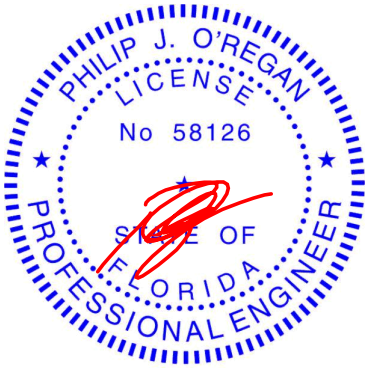
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=82(LC 12)
Max Uplift 3=-80(LC 12), 2=-191(LC 12), 4=-49(LC 12)
Max Grav 3=183(LC 1), 2=377(LC 1), 4=121(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=191.
6) 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.

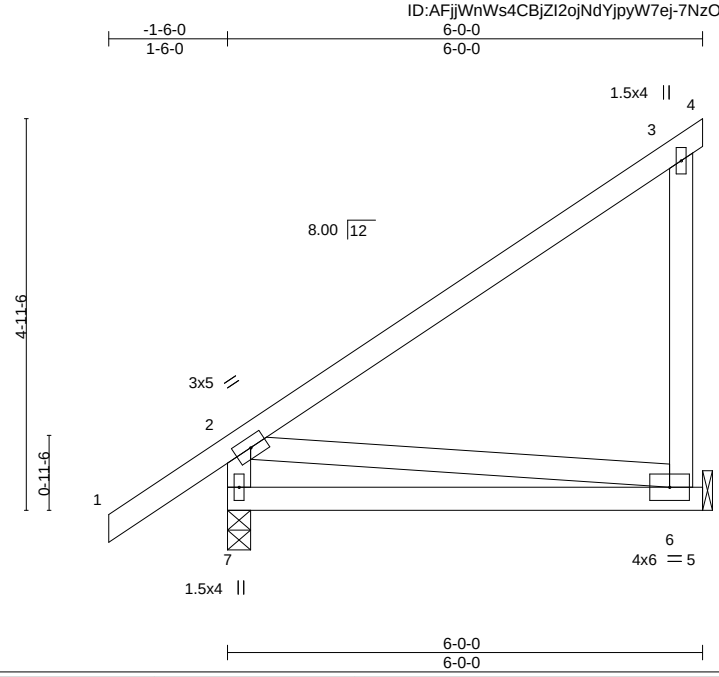


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J1A	Jack-Closed	6	1	T21529892
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:52 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-7NzOoAq2KQbJ3PbakXZqeFHFXb9G0w0olbUD1jyVSMn



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	6-7	>518	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.12	6-7	>578	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 38 lb	FT = 20%

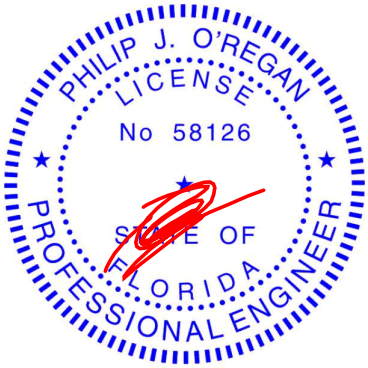
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 7=0-3-8, 6=Mechanical
Max Horz 7=220(LC 9)
Max Uplift 7=-165(LC 12), 6=-111(LC 12)
Max Grav 7=336(LC 1), 6=220(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-281/222, 3-6=-270/219
BOT CHORD 6-7=-398/359
WEBS 2-6=-286/334

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=165, 6=111.
6) 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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J1B	Half Hip	1	1	T21529893

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:52 2020 Page 1

ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-7NzOoAq2KQbJ3PbakXZqeFHIobAo0x5olbUD1jyVSMn

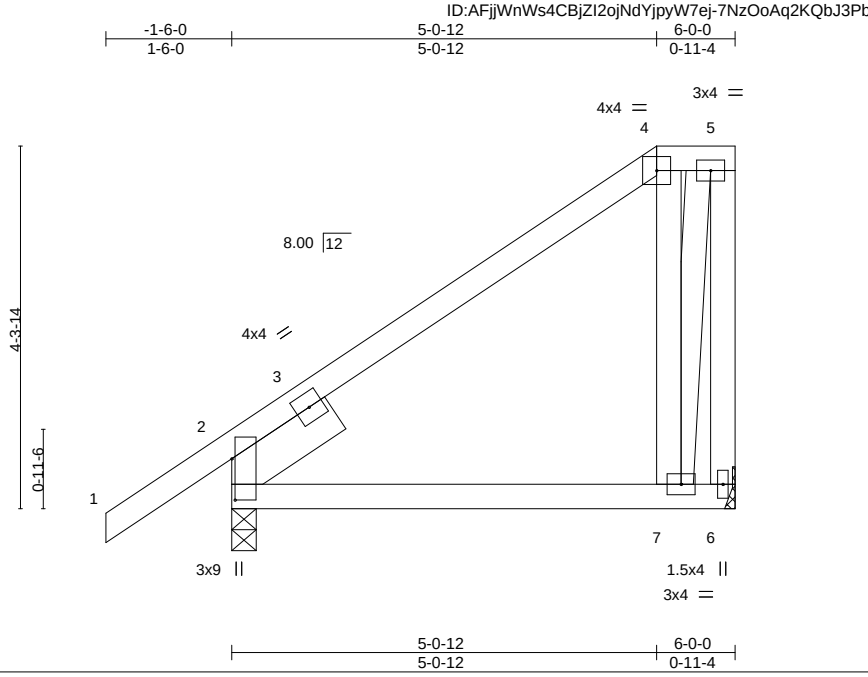


Plate Offsets (X,Y)-- [2:0-5-14,0-0-8]

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	0.32	Vert(LL)	0.03	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.05	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 43 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 1-6-0

BRACING-

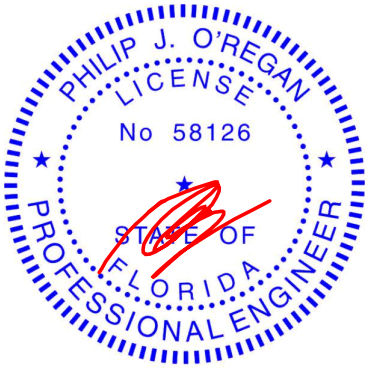
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=191(LC 11)
Max Uplift 6=-75(LC 9), 2=-96(LC 12)
Max Grav 6=244(LC 17), 2=336(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-495/285
WEBS 5-7=-265/486

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
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) 6, 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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J1C	Half Hip	1	1	T21529894
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:53 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-baXn?Wrg5kjAhZAmIF53ASpWy?aolPpyzFDna9yVSMm

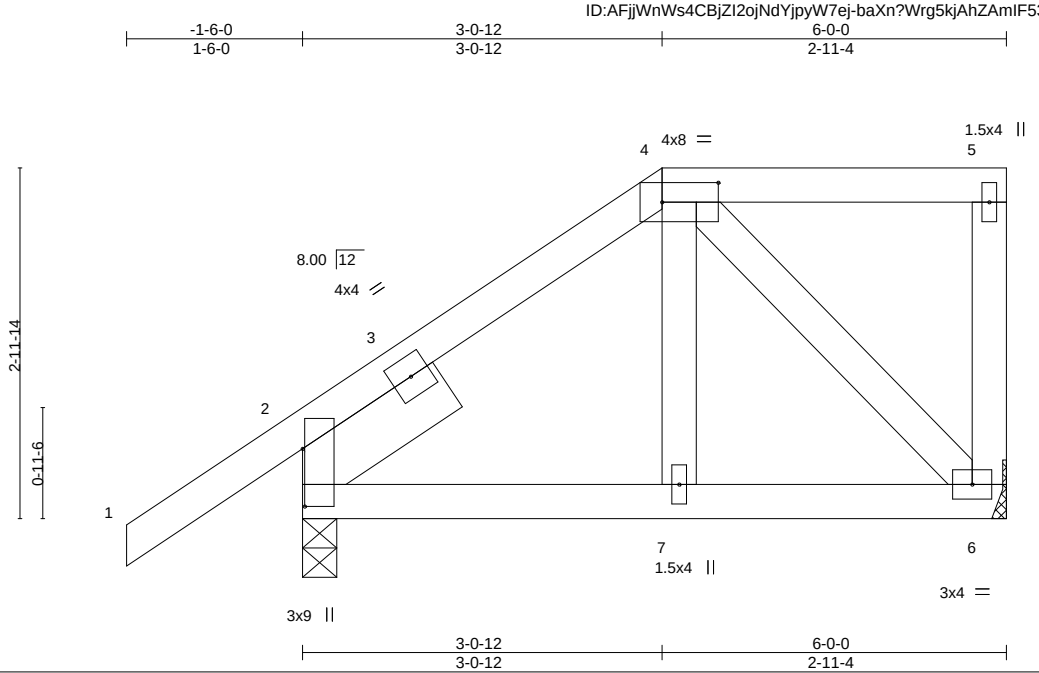


Plate Offsets (X,Y)-- [2:0-5-14,0-0-4], [4:0-5-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.01	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.01	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 37 lb	FT = 20%

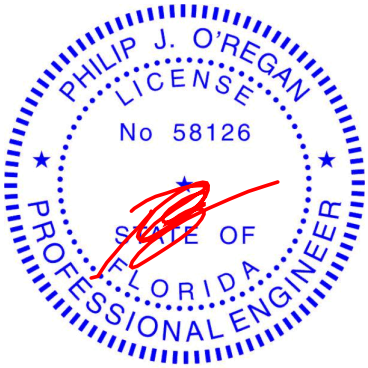
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -t 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=Mechanical
Max Horz 2=132(LC 11)
Max Uplift 2=-175(LC 12), 6=-104(LC 12)
Max Grav 2=336(LC 1), 6=223(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-7=-259/180, 6-7=-269/183
WEBS 4-6=-191/317

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
2) Provide adequate drainage to prevent water ponding.
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) except (jt=lb) 2=175, 6=104.
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.

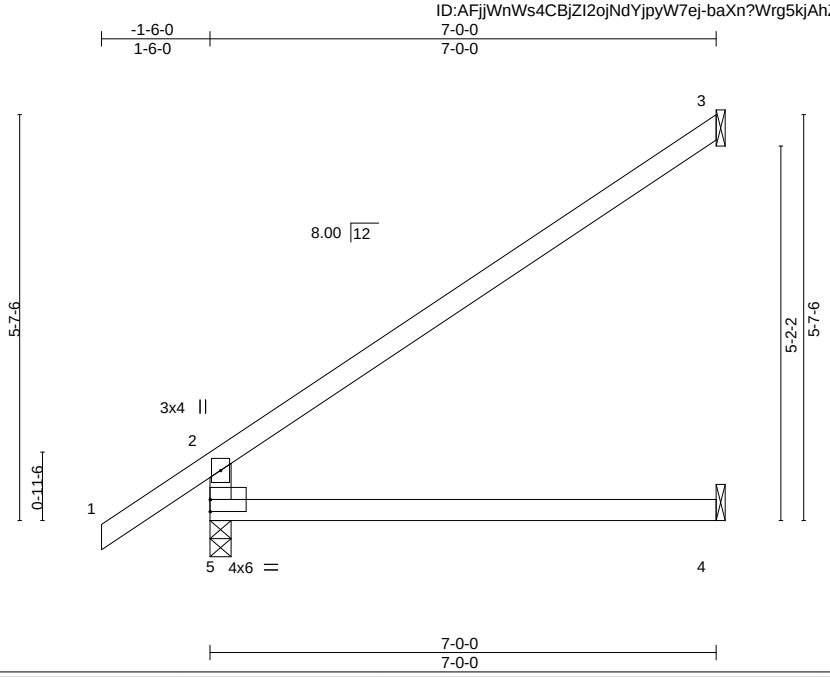


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J1D	Jack-Open	9	1	T21529895
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:53 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-baXn?Wrg5kjAhZAmIF53ASpOm?T4lPgyzFDna9yVSMm



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	0.69	Vert(LL)	0.11	4-5	>741	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.21	4-5	>389	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.10	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 27 lb	FT = 20%

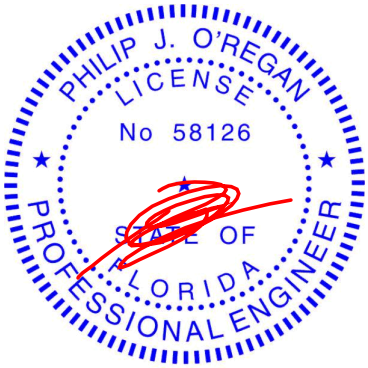
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=241(LC 12)
Max Uplift 5=-43(LC 12), 3=-120(LC 12)
Max Grav 5=382(LC 1), 3=207(LC 17), 4=125(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-322/174

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 3=120.
6) 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.

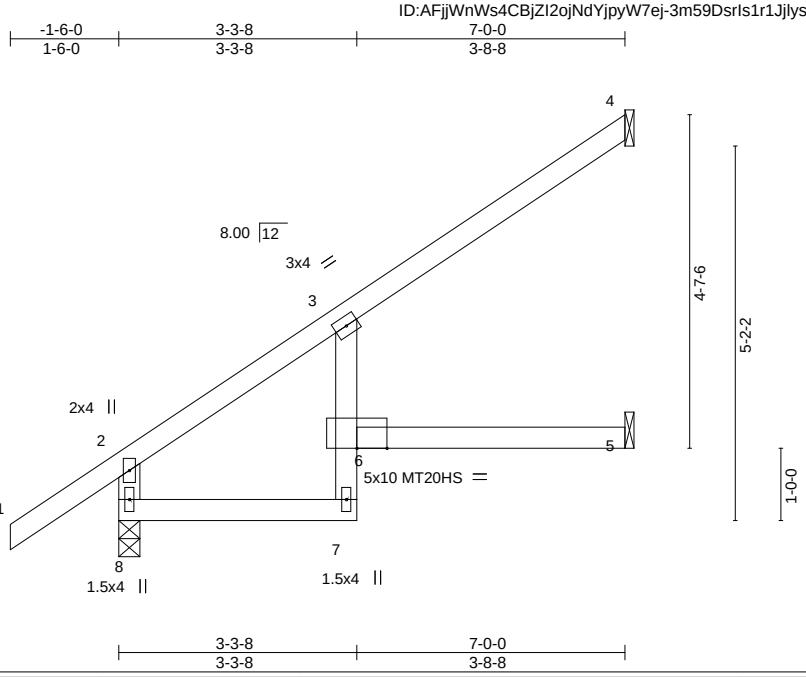


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J1E	Jack-Open	4	1	T21529896
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:54 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-3m59DsrIs1r1JjlysycIjgMb8Pm0Usw5CuzK6cyVSMl



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	0.52	Vert(LL)	0.14	5-6	>564	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.22	5-6	>368	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 30 lb	FT = 20%

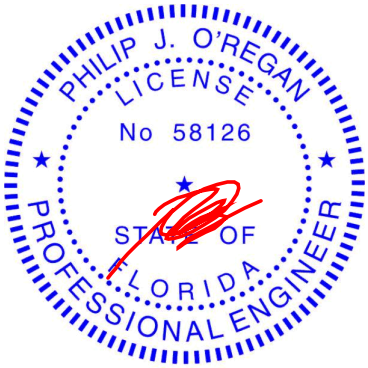
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=241(LC 12)
Max Uplift 8=-43(LC 12), 4=-91(LC 12), 5=-12(LC 12)
Max Grav 8=382(LC 1), 4=180(LC 17), 5=115(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-340/140

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) All plates are MT20 plates unless otherwise indicated.
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) 8, 4, 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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J1F	Jack-Open	1	1	T21529897
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:55 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-XyfXQCswdLzuwtK9Qg7XFtvk0p7gDIkFRYiue2yVSMk

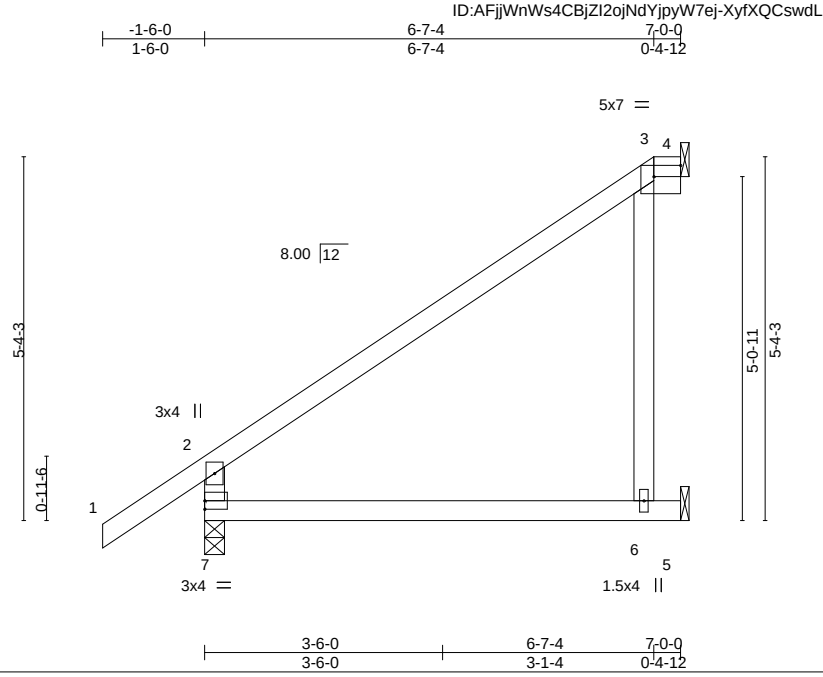


Plate Offsets (X,Y)-- [3:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.28	6-7	>291	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	0.22	6-7	>372	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.15	4	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 34 lb	FT = 20%

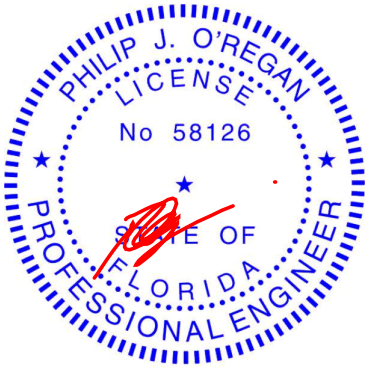
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 7=234(LC 12)
Max Uplift 7=-135(LC 12), 4=-125(LC 12), 5=-85(LC 3)
Max Grav 7=382(LC 1), 4=285(LC 3), 5=209(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-319/179

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=135, 4=125.
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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J1G	Jack-Open	1	1	T21529898
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:55 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-XyfXQCswdLzuwtK9Qg7XFtvmTp64DJjFRYiue2yVSMk

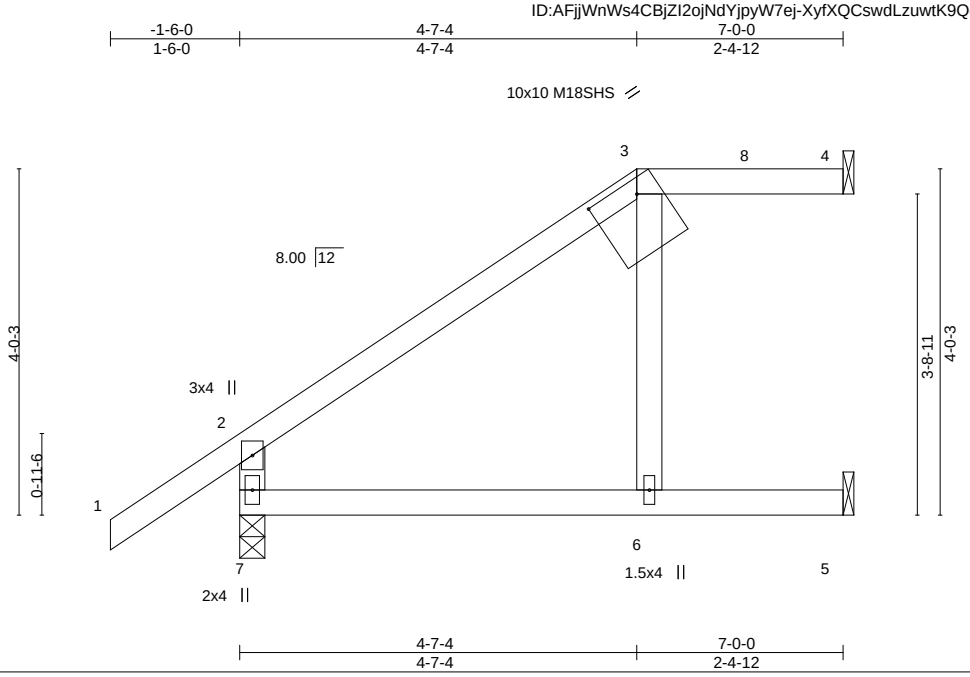


Plate Offsets (X,Y)-- [3:0-6-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.33	6-7	>248	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	0.25	6-7	>321	180	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.29	4	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 31 lb	FT = 20%

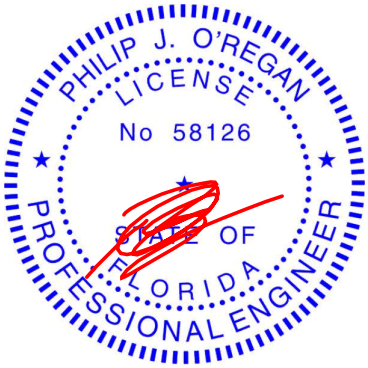
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 7=187(LC 12)
Max Uplift 7=-166(LC 12), 4=-72(LC 12), 5=-82(LC 12)
Max Grav 7=382(LC 1), 4=135(LC 1), 5=124(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-285/195

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
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.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 7=166.
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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J1H	Jack-Open	1	1	T21529899
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:56 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-?9DvdXtZOf5kY1vLzNemo5RxQCTJymDOgCSRAUyVSMj

-1-6-0 2-7-4 7-0-0
1-6-0 2-7-4 4-4-12

Scale = 1:19.3

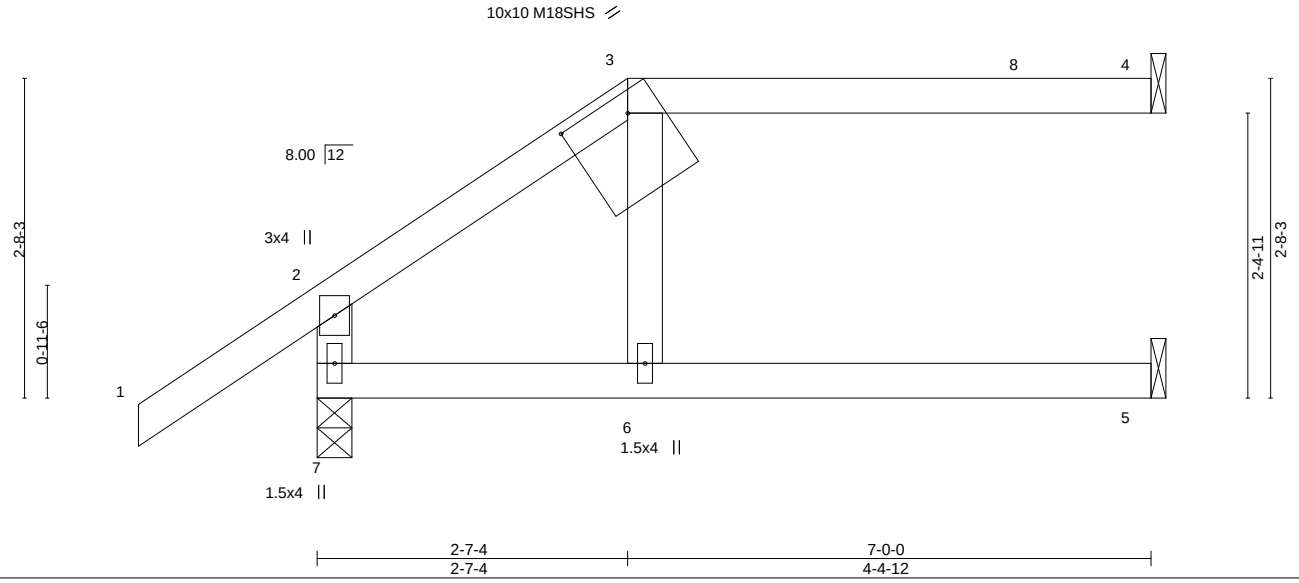


Plate Offsets (X,Y)-- [3:0-6-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	0.30	5-6	>271	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	0.23	5-6	>354	180	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.28	4	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 28 lb	FT = 20%

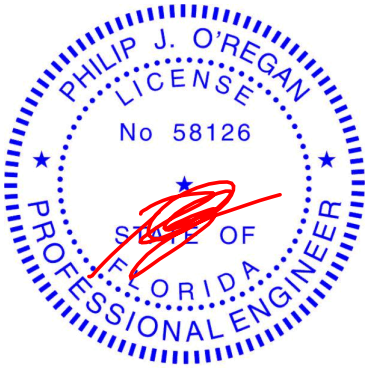
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 7=139(LC 12)
Max Uplift 7=-187(LC 12), 4=-82(LC 9), 5=-59(LC 9)
Max Grav 7=382(LC 1), 4=165(LC 1), 5=117(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-260/246

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) The Fabrication Tolerance at joint 3 = 16%
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.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 7=187.
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.

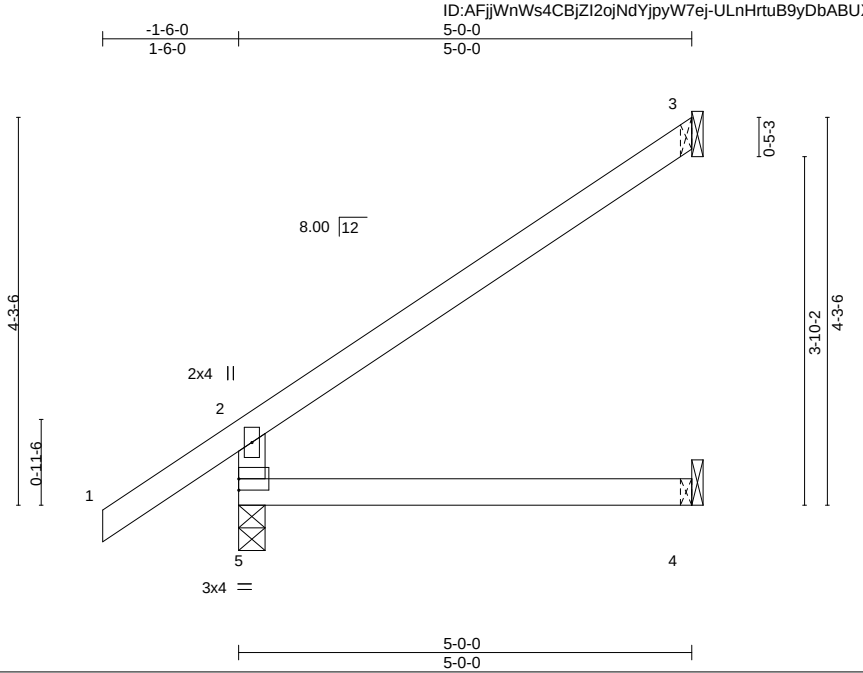


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J2	Jack-Open	2	1	T21529900
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:57 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-ULnHrtuB9yDbABUXX59?LI_9mcuohDgYusB_jxyVSMi



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)	0.03	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.06	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 20 lb	FT = 20%

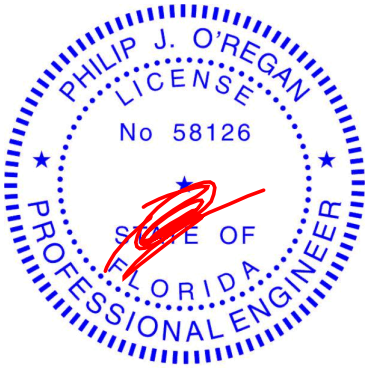
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=193(LC 12)
Max Uplift 5=-50(LC 12), 3=-84(LC 12)
Max Grav 5=307(LC 1), 3=141(LC 17), 4=89(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-262/160

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
6) 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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

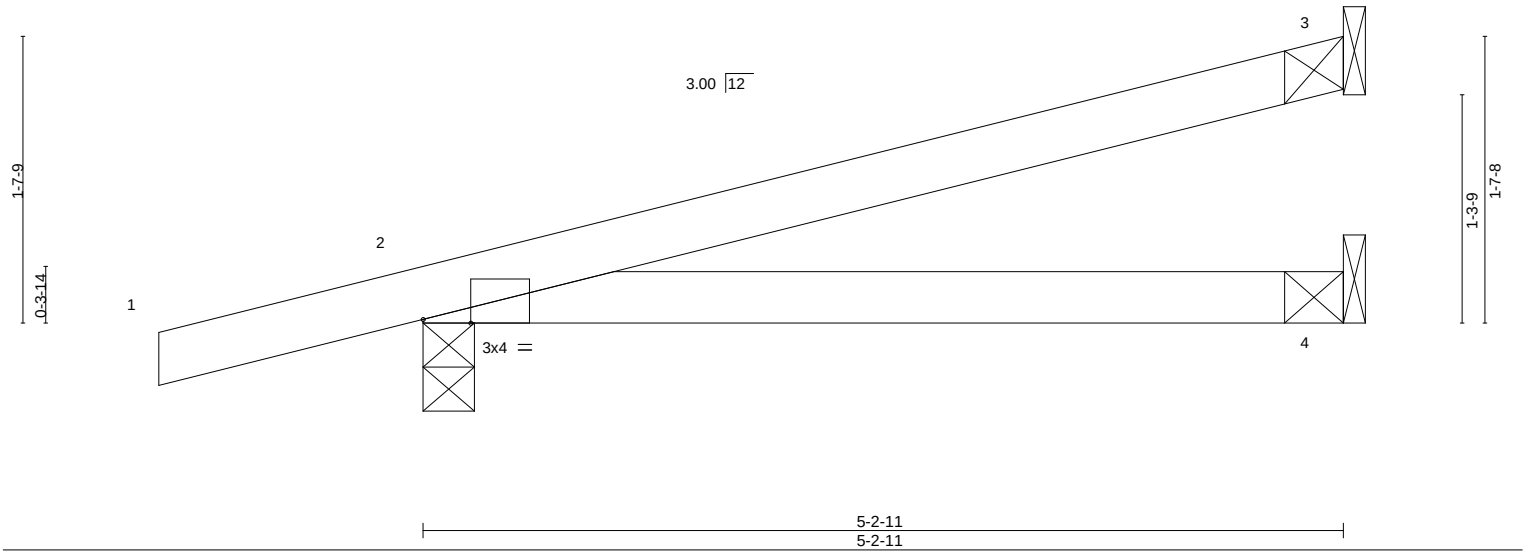
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J2A	Jack-Open	2	1	T21529901
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:57 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-ULnHrtuB9yDbABUXX59?LI_AgcuDhDgYusB_jxyVSMi

-1-6-0 5-2-11
1-6-0 5-2-11

Scale = 1:13.1



5-2-11
5-2-11

Plate Offsets (X,Y)-- [2:0-3-4,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	0.31	Vert(LL)	0.09	4-7	>720	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	0.06	4-7	>960	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 18 lb	FT = 20%

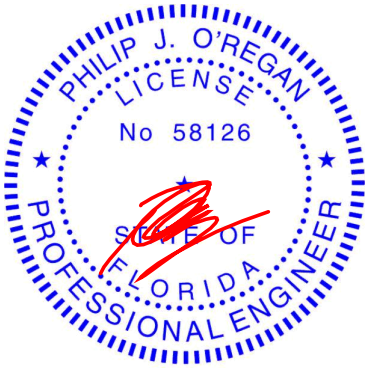
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=66(LC 12)
Max Uplift 3=-56(LC 12), 2=-162(LC 12), 4=-35(LC 12)
Max Grav 3=129(LC 1), 2=310(LC 1), 4=90(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=162.
6) 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.

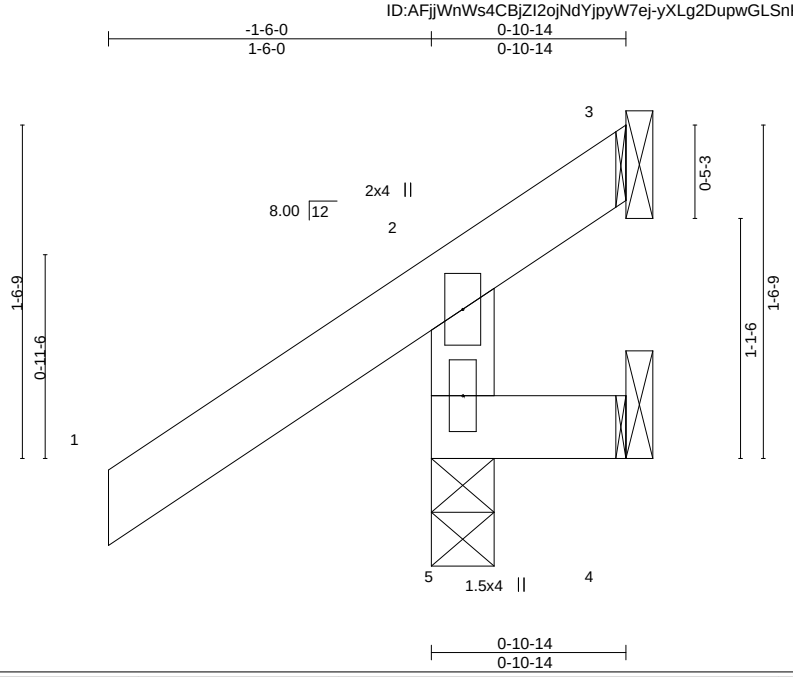


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J2B	Jack-Open	2	1	T21529902
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:58 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-yXLg2DupwGLSnK2j5ogEtWXM00IhQgvh7WxYFNyVSMh



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	0.21	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	5	>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 FBC2017/TPI2014		Matrix-MR							Weight: 7 lb	FT = 20%

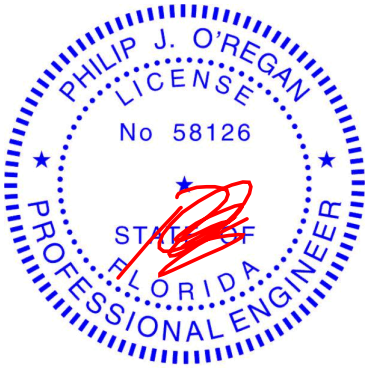
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 0-10-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=98(LC 12)
Max Uplift 5=-113(LC 12), 3=-60(LC 1), 4=-24(LC 18)
Max Grav 5=238(LC 1), 3=37(LC 12), 4=6(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=113.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

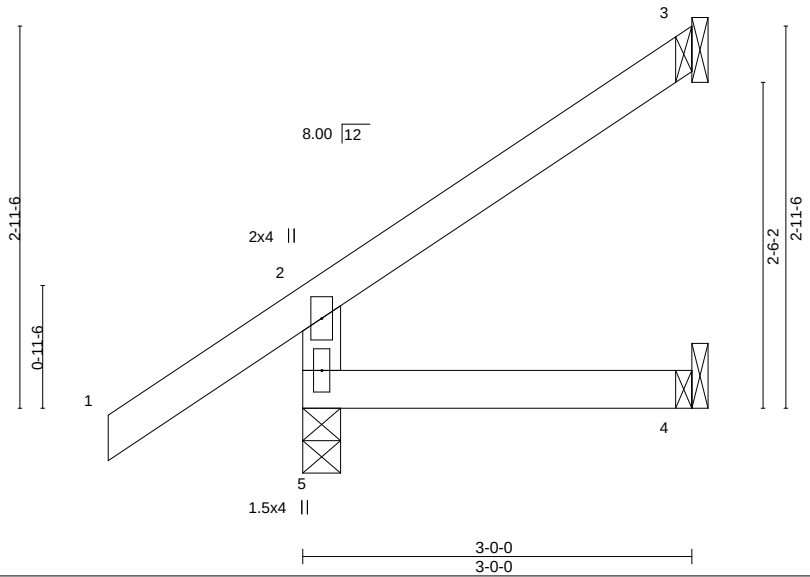
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J3	Jack-Open	2	1	T21529903
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:58 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-yXLg2DupwGLSnK2j5ogEtWXM00HZQgvh7WxYFNyVSMh

-1-6-0 3-0-0
1-6-0 3-0-0

Scale = 1:17.8



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	0.21	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MR							Weight: 14 lb	FT = 20%

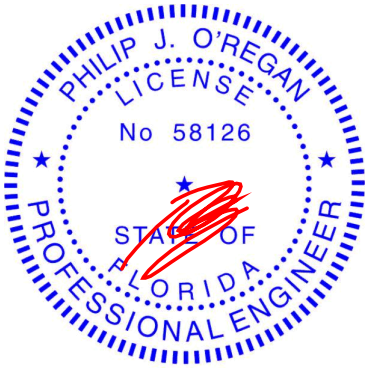
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=146(LC 12)
Max Uplift 5=-60(LC 12), 3=-45(LC 12)
Max Grav 5=240(LC 1), 3=73(LC 17), 4=50(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.

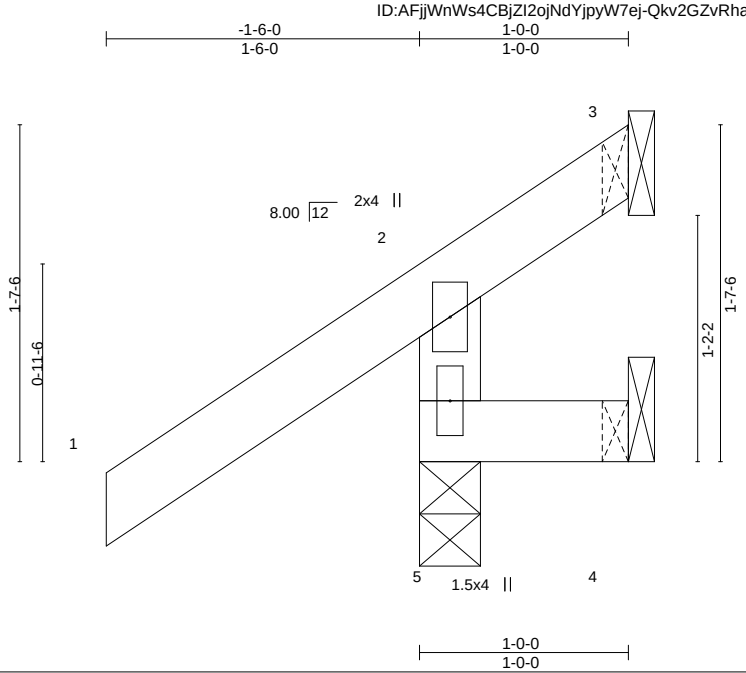


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	J4	Jack-Open	2	1	T21529904
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:59 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-Qkv2GZvRhaTJPUdwfWCTQj3XmQev979qMAg5npyVSMg



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	0.21	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	5	>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 FBC2017/TPI2014		Matrix-MR							Weight: 7 lb	FT = 20%

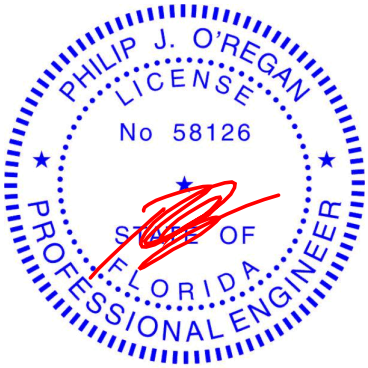
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=100(LC 12)
Max Uplift 5=-97(LC 12), 3=-47(LC 1), 4=-16(LC 1)
Max Grav 5=229(LC 1), 3=28(LC 12), 4=10(LC 10)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	M1	Monopitch	20	1	T21529905
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:06:59 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-Qkv2GZvRhaTJPUdwfWCTQj3X8Qbx95aqMAg5npyVSMg

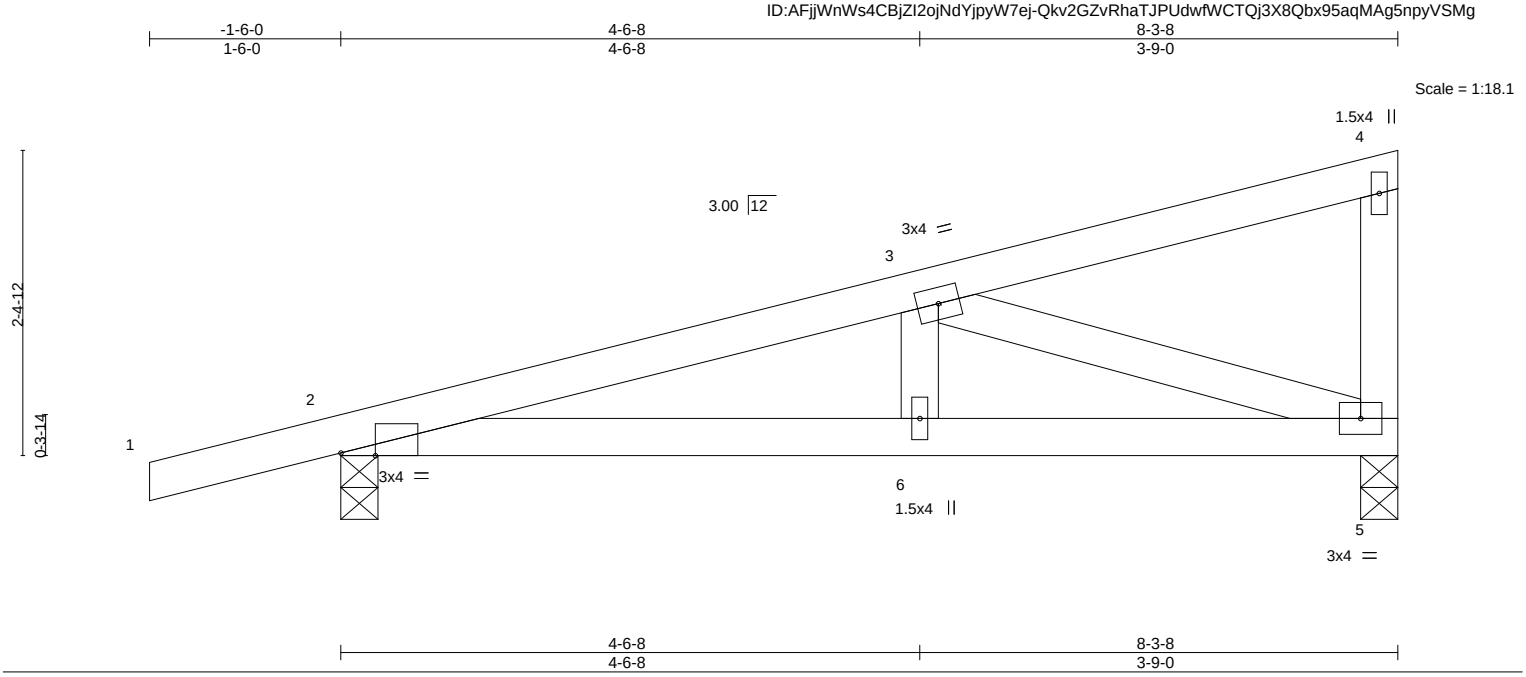


Plate Offsets (X,Y)-- [2:0-3-4,Edge]

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	0.25	Vert(LL)	0.05	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.04	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 37 lb	FT = 20%

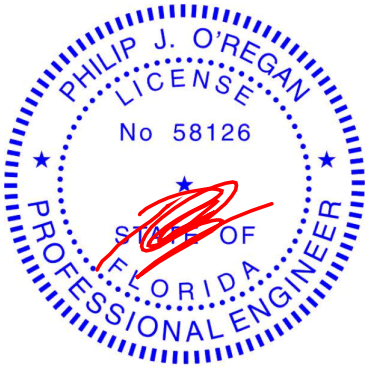
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=93(LC 11)
Max Uplift 2=-218(LC 12), 5=-146(LC 12)
Max Grav 2=424(LC 1), 5=318(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-662/822
BOT CHORD 2-6=-885/629, 5-6=-885/629
WEBS 3-5=-661/900

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=218, 5=146.
5) 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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

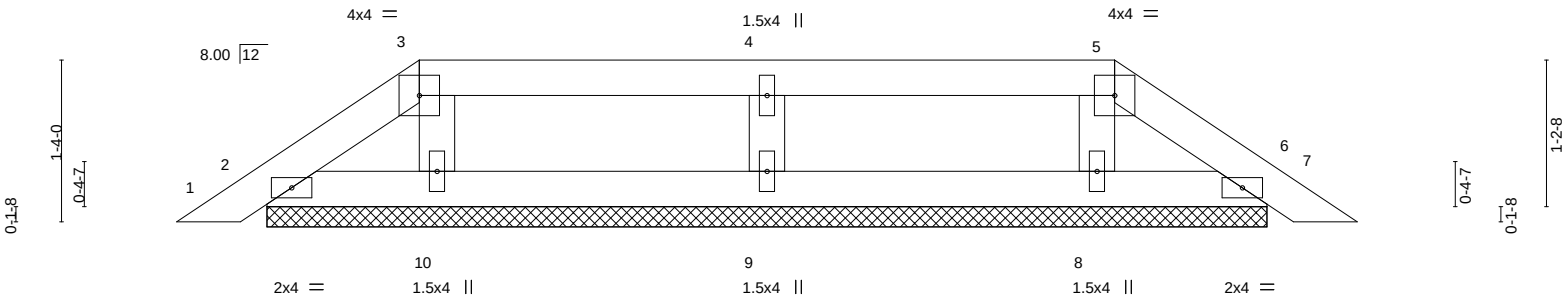
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	PB1	Piggyback	1	1	T21529906
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:07:00 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-uwSQTvw3StbA1eC6CDjiyxckyqzvuau_bqQeJFyVSMf

9-8-12
9-8-12

Scale = 1:19.0



9-8-12
9-8-12

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	0.12	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 31 lb	FT = 20%

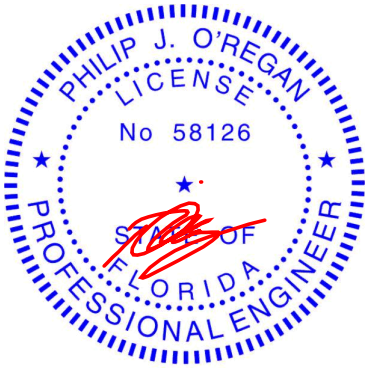
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. All bearings 8-2-15.
(lb) - Max Horz 2=-32(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=272(LC 1)

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8, 9.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

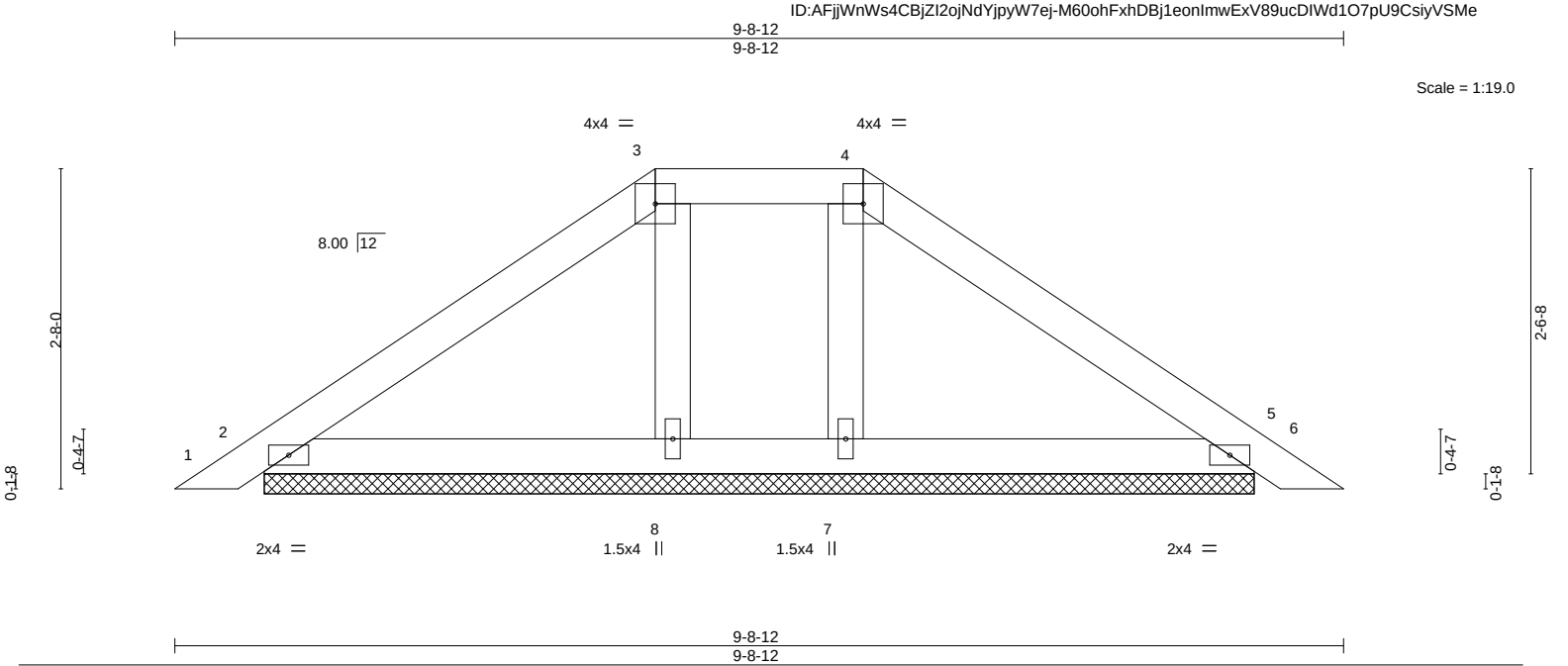


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	PB2	Piggyback	1	1	T21529907
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:07:01 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-M60ohFxhDBj1eonImwExV89ucDIWd1O7pU9CsiyVSMe



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	0.19	Vert(LL)	0.01	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.01	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 35 lb	FT = 20%

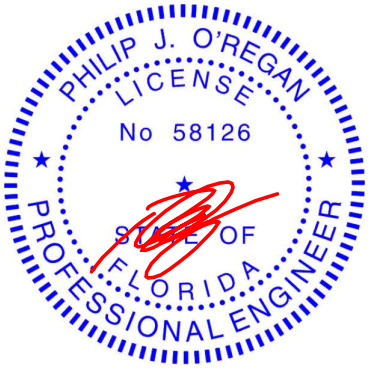
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. All bearings 8-2-15.
(lb) - Max Horz 2=-68(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 8, 7.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

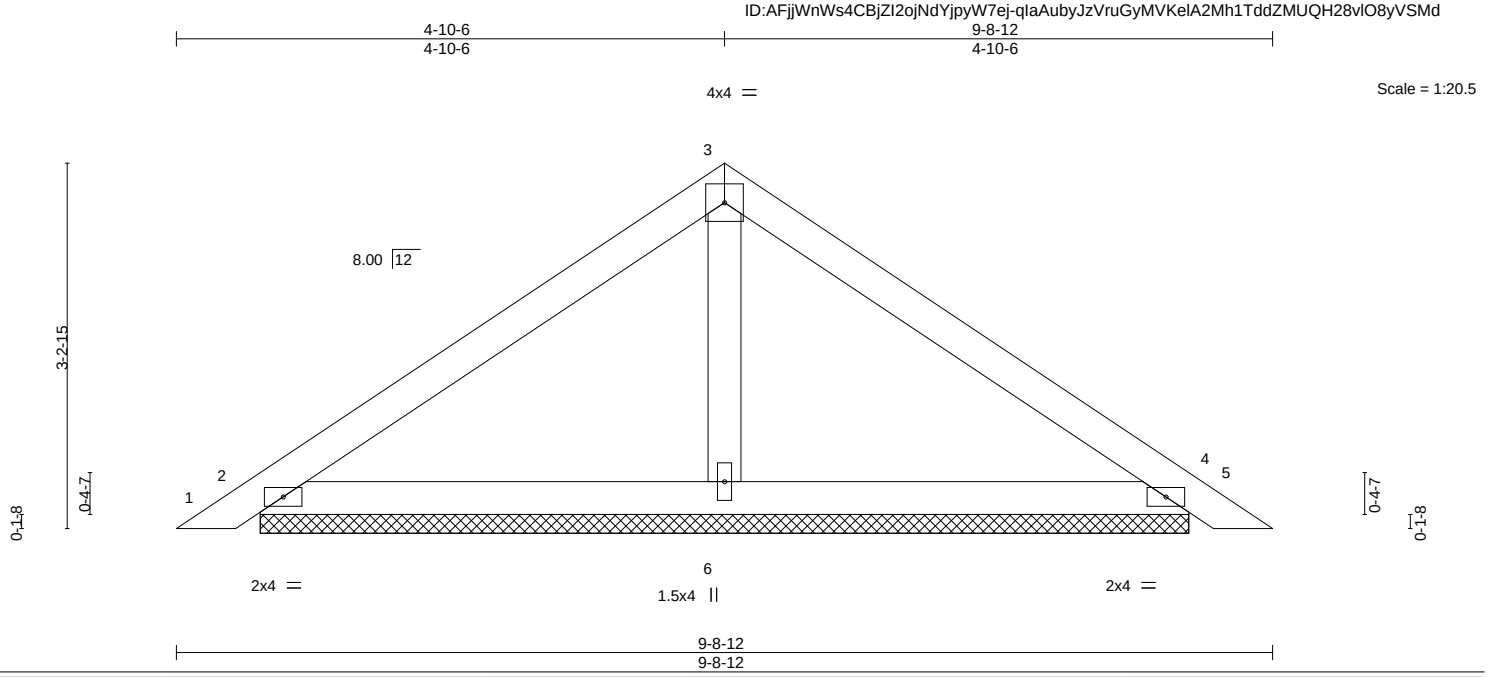


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	PB3	Piggyback	11	1	T21529908
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:07:02 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-qIaAubyJzVruGyMVKelA2Mh1TddZMUQH28vlO8yVSMd



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	0.31	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	0.02	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 33 lb	FT = 20%

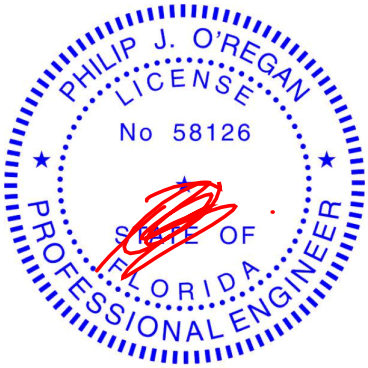
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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. (size) 2=8-2-15, 4=8-2-15, 6=8-2-15
Max Horz 2=-84(LC 10)
Max Uplift 2=-73(LC 12), 4=-73(LC 12)
Max Grav 2=207(LC 1), 4=207(LC 1), 6=302(LC 1)

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Gable requires continuous bottom chord bearing.
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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

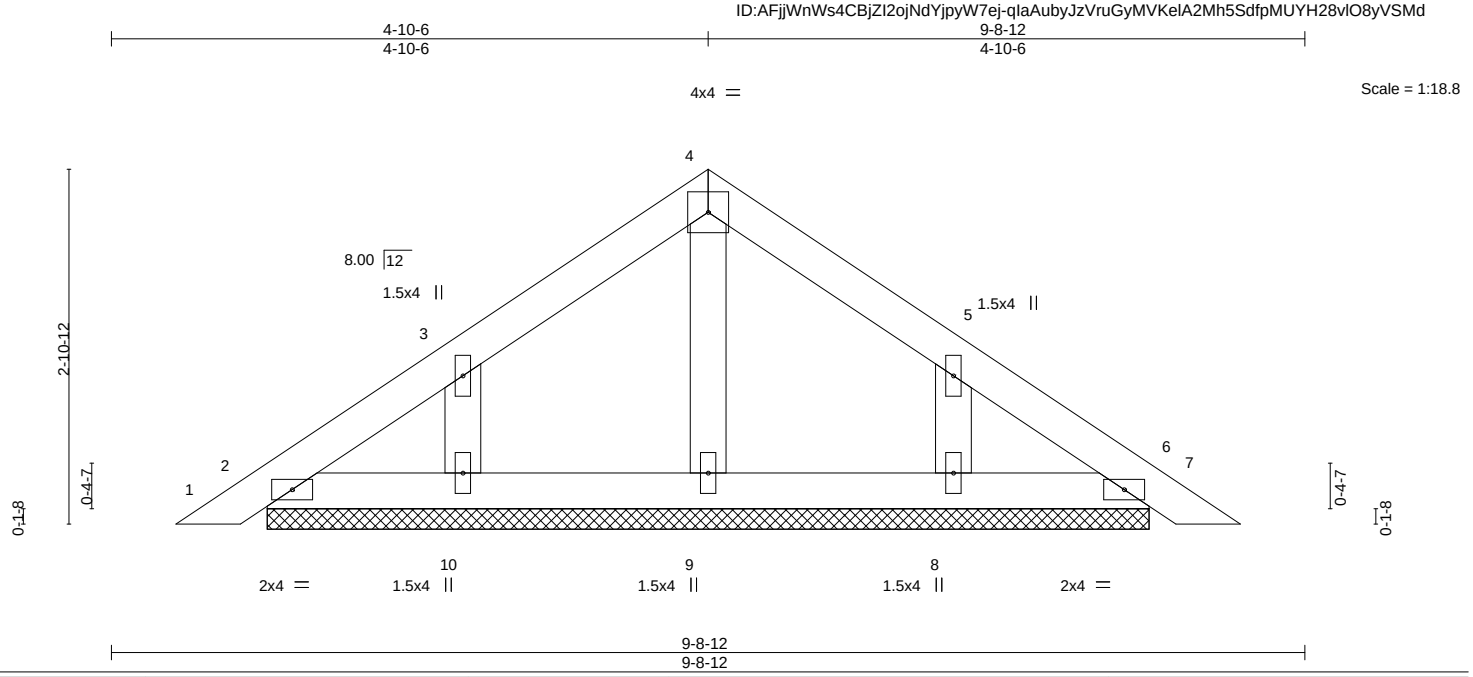


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Resae Preston
RENAE_PRESTON	PB4GE	GABLE	1	1	T21529909
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Aug 25 2020 MiTek Industries, Inc. Thu Oct 8 14:07:02 2020 Page 1
ID:AFjjWnWs4CBjZI2ojNdYjpyW7ej-qIaAubyJzVruGyMVKelA2Mh5SdfpMUYH28vlO8yVSMd



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	0.05	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 32 lb	FT = 20%

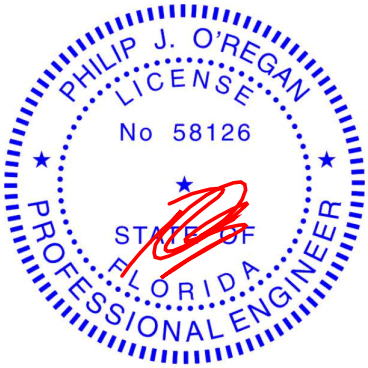
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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 7-2-5.
(lb) - Max Horz 2=-74(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

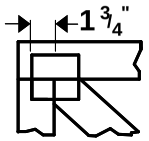


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 8,2020

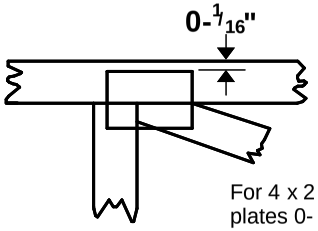
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

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.

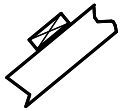
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

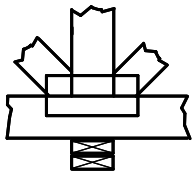
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

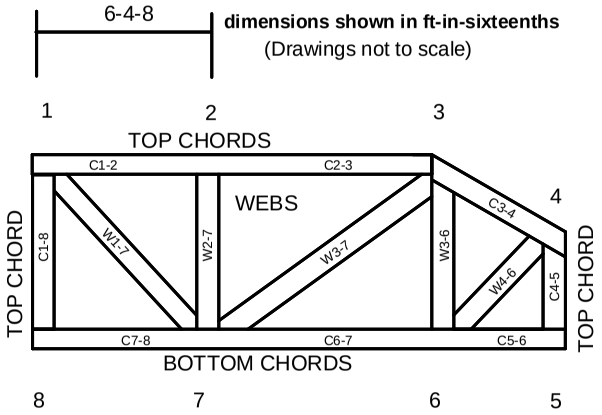


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.