



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

73

RE: Douglas - Douglas

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: DOUGLAS Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: LAKE CITY State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 9 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T23421757	A1GE	4/2/21
2	T23421758	A02	4/2/21
3	T23421759	A03	4/2/21
4	T23421760	A04	4/2/21
5	T23421761	A4A	4/2/21
6	T23421762	B1GE	4/2/21
7	T23421763	B02	4/2/21
8	T23421764	PB01	4/2/21
9	T23421765	PB02	4/2/21



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

Truss Design Engineer's Name: Reviewed

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

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



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 2, 2021

Reviewed

1 of 1

Job	Truss	Truss Type	Qty	Ply	Douglas	T23421757
DOUGLAS	A1GE	GABLE	1	1		

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

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ID: J27Xq38jFEVnswLdCxuldzXk2R-LGx6d_tomsmV7QGJ6kg?TS?luAcT?piEbjUgwcZV759

-2-0-0 20-3-11 27-1-5 35-8-8 47-5-0 49-5-0
2-0-0 20-3-11 6-9-10 8-7-3 11-8-8 2-0-0

Scale = 1:82.9

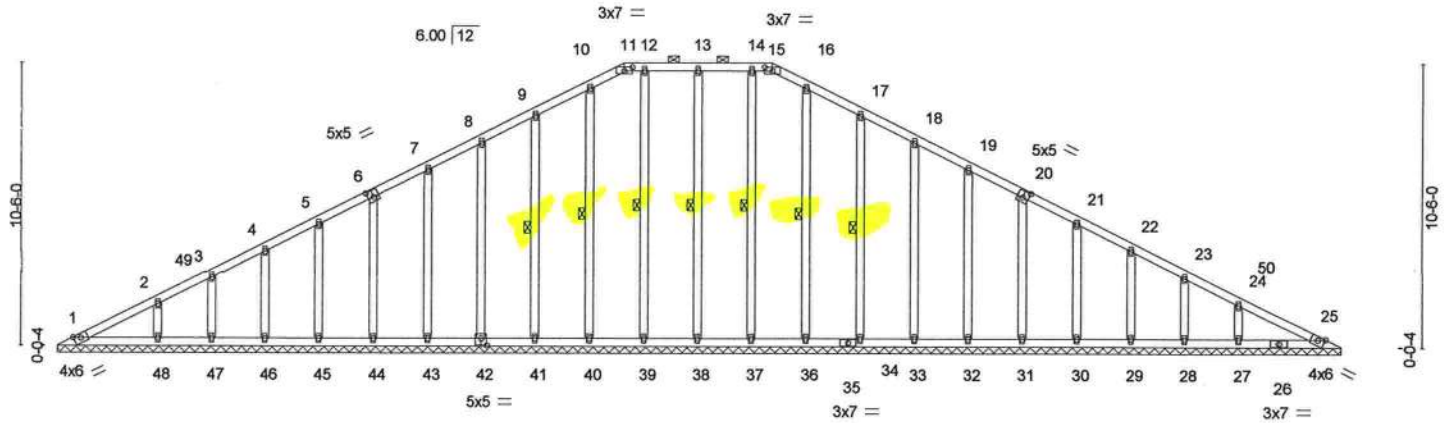


Plate Offsets (X,Y)--		15-8-8 15-8-8		23-8-8 8-0-0		31-8-8 8-0-0		47-5-0 15-8-8	
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL 20.0		2-0-0		TC 0.10		in (loc) l/defl L/d		MT20	
TCDL 10.0		Plate Grip DOL 1.25		BC 0.07		n/a - n/a 999		GRIP	
BCLL 0.0 *		Lumber DOL 1.25		WB 0.12		n/a - n/a 999		244/190	
BCDL 10.0		Rep Stress Incr YES		Matrix-S		Horz(CT) 0.01 25 n/a n/a		Weight: 333 lb FT = 20%	
		Code FBC2020/TPI2014							

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-15.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 12-39, 10-40, 9-41, 14-37, 16-36, 17-34, 13-38

REACTIONS. All bearings 47-5-0.
(lb) - Max Horz 1=192(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 41, 42, 43, 44, 45, 46, 48, 47, 34, 33, 32, 31, 30, 29, 28, 27, 38
Max Grav All reactions 250 lb or less at joint(s) 1, 39, 40, 41, 42, 43, 44, 45, 46, 47, 37, 36, 34, 33, 32, 31, 30, 29, 28, 38, 25 except 48=257(LC 21), 27=257(LC 22)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=47ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 0-6-15 to 5-3-13, Exterior(2N) 5-3-13 to 20-11-8, Corner(3R) 20-11-8 to 25-8-8, Exterior(2N) 25-8-8 to 26-5-8, Corner(3R) 26-5-8 to 31-2-6, Exterior(2N) 31-2-6 to 46-10-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 25-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41, 42, 43, 44, 45, 46, 48, 47, 34, 33, 32, 31, 30, 29, 28, 27, 38.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 2, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Douglas	T23421758
DOUGLAS	A02	PIGGYBACK BASE	4	1		

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

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-2-0-0	7-1-9	13-8-10	20-3-11	27-1-5	33-8-6	40-3-7	47-5-0	49-5-0	2-0-0
2-0-0	7-1-9	6-7-1	6-7-1	6-9-10	6-7-1	6-7-1	7-1-9	7-1-9	2-0-0

TOP CHORD UNDER PIGGYBACKS TO BE Laterally BRACED
BY PURLINS AT 2-0-0 OC. MAX. (TYPICAL)

Scale = 1:85.1

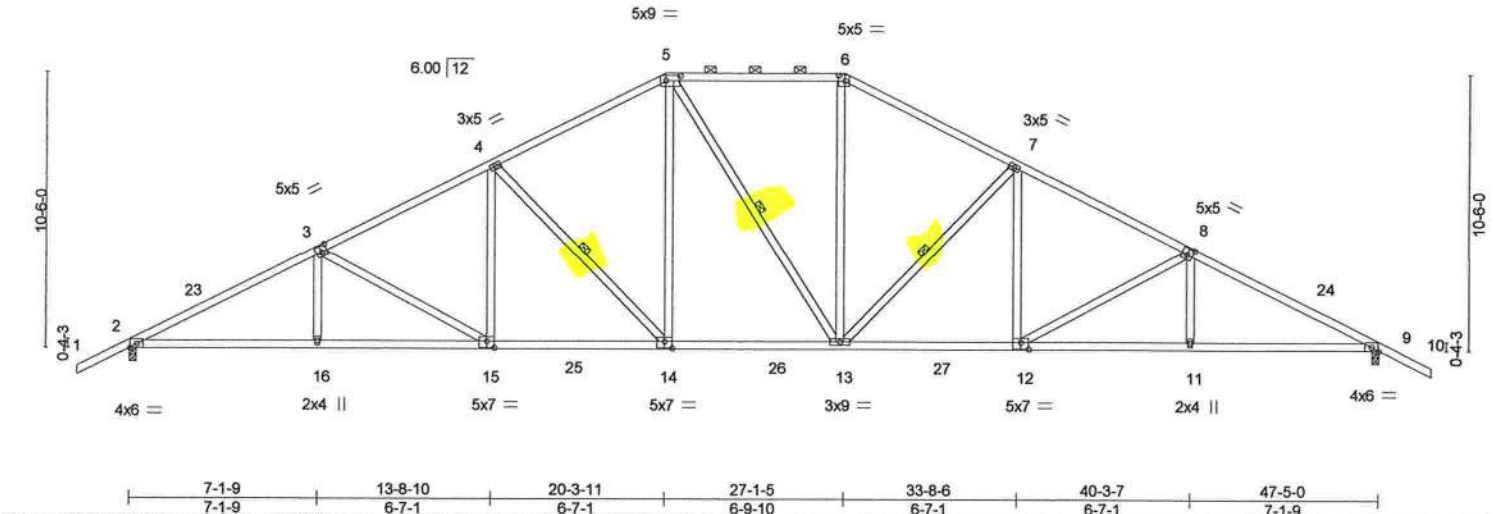


Plate Offsets (X,Y)--		[3:0-2-8,0-3-0], [5:0-6-8,0-2-4], [6:0-3-0,0-2-8], [8:0-2-8,0-3-0], [12:0-3-8,0-3-0], [14:0-3-8,0-3-0], [15:0-3-8,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72
TCDL 10.0	Lumber DOL	1.25	BC 0.99
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-AS
		DEFL.	PLATES
		in (loc) l/defl L/d	MT20
		Vert(LL) -0.34 13-14 >999 240	GRIP
		Vert(CT) -0.62 14-15 >925 180	244/190
		Horz(CT) 0.24 9 n/a n/a	
		Weight: 281 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (2-9-14 max.): 5-6.
WEBS 2x4 SP No.2	Rigid ceiling directly applied.
	1 Row at midpt 4-14, 5-13, 7-13

REACTIONS. (size) 2=0-3-0, 9=0-3-0
Max Horz 2=210(LC 11)
Max Uplift 2=-49(LC 12), 9=-49(LC 12)
Max Grav 2=2289(LC 17), 9=2285(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=4219/135, 3-4=3568/178, 4-5=2859/212, 5-6=2494/220, 6-7=2839/211,
7-8=3561/178, 8-9=4212/135
BOT CHORD 2-16=-16/3853, 15-16=-18/3848, 14-15=0/3226, 13-14=0/2572, 12-13=0/3062,
11-12=-38/3684, 9-11=-37/3689
WEBS 3-16=0/273, 3-15=-702/51, 4-15=0/613, 4-14=-946/93, 5-14=0/977, 6-13=0/913,
7-13=-951/92, 7-12=0/616, 8-12=-702/51, 8-11=0/273

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Encl., GCPer=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-8-14, Interior(1) 2-8-14 to 20-3-11, Exterior(2E) 20-3-11 to 27-1-5, Exterior(2R) 27-1-5 to 33-8-6, Interior(1) 33-8-6 to 49-5-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

April 2,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Douglas	T23421759
DOUGLAS	A03	GABLE	2	1		

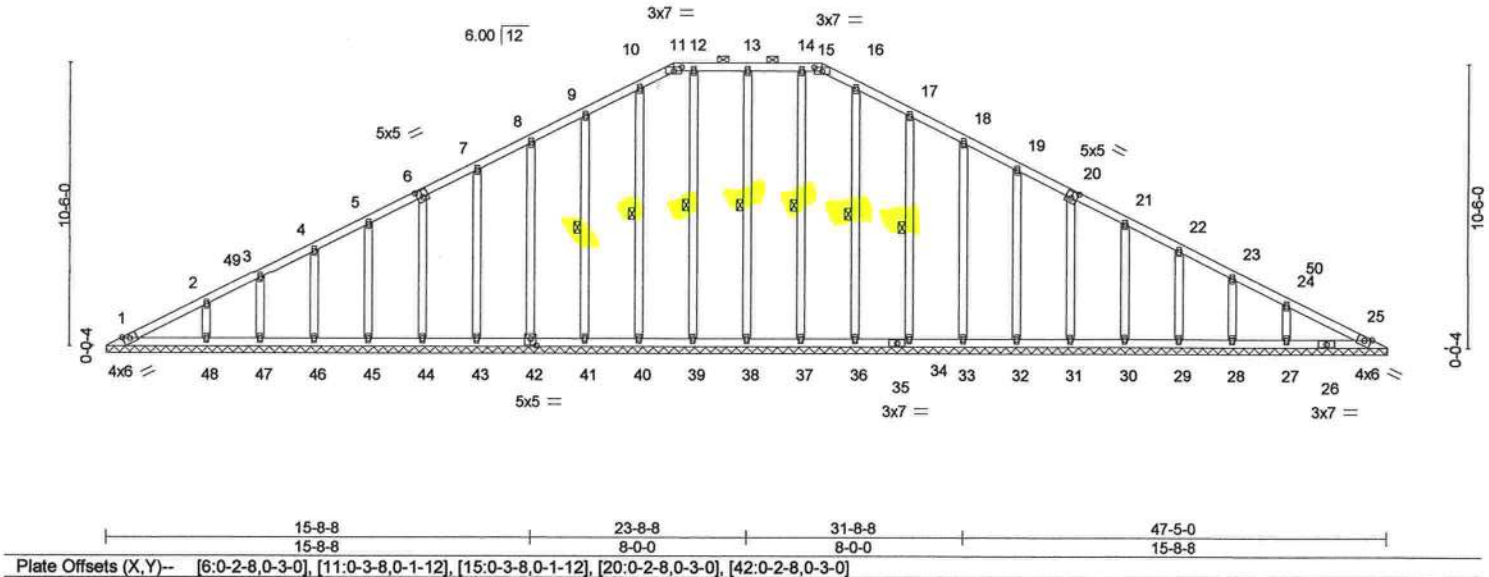
Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:J27Xq38jFfEVnswLdCxuldzXk2R-TVbncqHieG4eozYtub3lcr3vZEY30jfg5WTnrzV75D

-2-0-0 20-3-11 27-1-5 35-8-8 47-5-0 49-5-0
2-0-0 20-3-11 6-9-10 8-7-3 11-8-8 2-0-0

Scale = 1:82.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.10	in (loc)	l/defl	L/d	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(LL)	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Vert(CT)	n/a	999			
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S		Horz(CT)	0.01	25			
										Weight: 333 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-15.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 12-39, 10-40, 9-41, 14-37, 16-36, 17-34, 13-38

REACTIONS. All bearings 47-5-0.
(lb) - Max Horz 1=192(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 41, 42, 43, 44, 45, 46, 48, 47, 34, 33, 32, 31, 30, 29, 28, 27, 38
Max Grav All reactions 250 lb or less at joint(s) 1, 39, 40, 41, 42, 43, 44, 45, 46, 47, 37, 36, 34, 33, 32, 31, 30, 29, 28, 38, 25 except 48=257(LC 21), 27=257(LC 22)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=47ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 0-6-15 to 5-3-13, Exterior(2N) 5-3-13 to 20-11-8, Corner(3R) 20-11-8 to 25-8-8, Exterior(2N) 25-8-8 to 26-5-8, Corner(3R) 26-5-8 to 31-2-6, Exterior(2N) 31-2-6 to 46-10-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 25-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41, 42, 43, 44, 45, 46, 48, 47, 34, 33, 32, 31, 30, 29, 28, 27, 38.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 2,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Douglas	T23421760
DOUGLAS	A04	PIGGYBACK BASE	20	1		

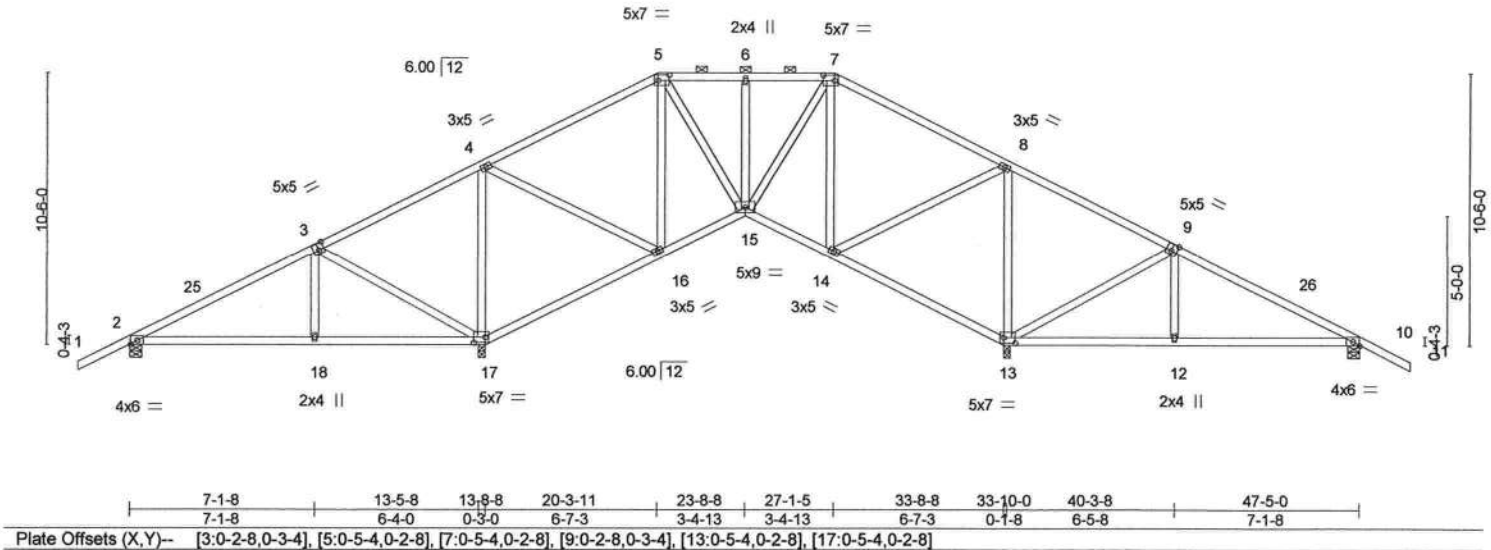
Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:J27Xq38jFfEVnswLdCxuldzXk2R-PtqMClrYEFWot66w?JdXN1wJpNrxmOx7P?ZrkzV75B

-2-0-0	7-1-8	13-8-8	20-3-11	23-8-8	27-1-5	33-8-8	40-3-8	47-5-0	49-5-0
2-0-0	7-1-8	6-7-0	6-7-3	3-4-13	3-4-13	6-7-3	6-7-0	7-1-8	2-0-0

Scale = 1:86.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.40	Vert(LL) -0.05 16-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.75	Vert(CT) -0.12 18-21 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.03 10 n/a n/a		
	Code FBC2020/TPI2014			Weight: 275 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2-0-0 oc purlins (6-0-0 max.): 5-7.
Rigid ceiling directly applied.

REACTIONS.

All bearings 0-5-8 except (jt=length) 17=0-3-0, 13=0-3-0.
(lb) - Max Horz 2=-210(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10
Max Grav All reactions 250 lb or less at joint(s) except 2=487(LC 21), 17=1543(LC 1), 13=1543(LC 1),
10=487(LC 22)

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

TOP CHORD 2-3=327/77, 3-4=0/521, 4-5=-279/112, 5-6=-251/77, 6-7=-251/77, 7-8=-279/109,
8-9=0/486, 9-10=-327/79
BOT CHORD 2-18=-8/266, 17-18=-11/263, 16-17=-453/103, 13-14=-453/111
WEBS 3-18=0/299, 3-17=-634/45, 4-17=-921/52, 4-16=0/585, 5-16=-393/0, 7-14=-393/0,
8-14=0/585, 8-13=-921/62, 9-13=-633/45, 9-12=0/299

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 2-0-0 to 2-8-14, Interior(1) 2-8-14 to 20-3-11, Exterior(2E) 20-3-11 to 27-1-5, Exterior(2R) 27-1-5 to 33-10-4, Interior(1) 33-10-4 to 49-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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April 2,2021

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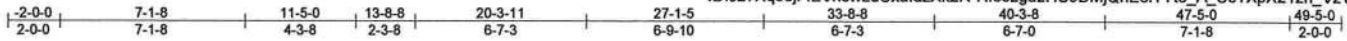
6904 Parke East Blvd.
Tampa, FL 33610

Job DOUGLAS	Truss A4A	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Douglas	T23421761
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID: J27Xq38JfFEVnswLdCxdzXk2R-Hf3s2gu2HU0DMjQhE8iTY15_A_CeTXpX21zn_VzV757



Scale = 1:86.5

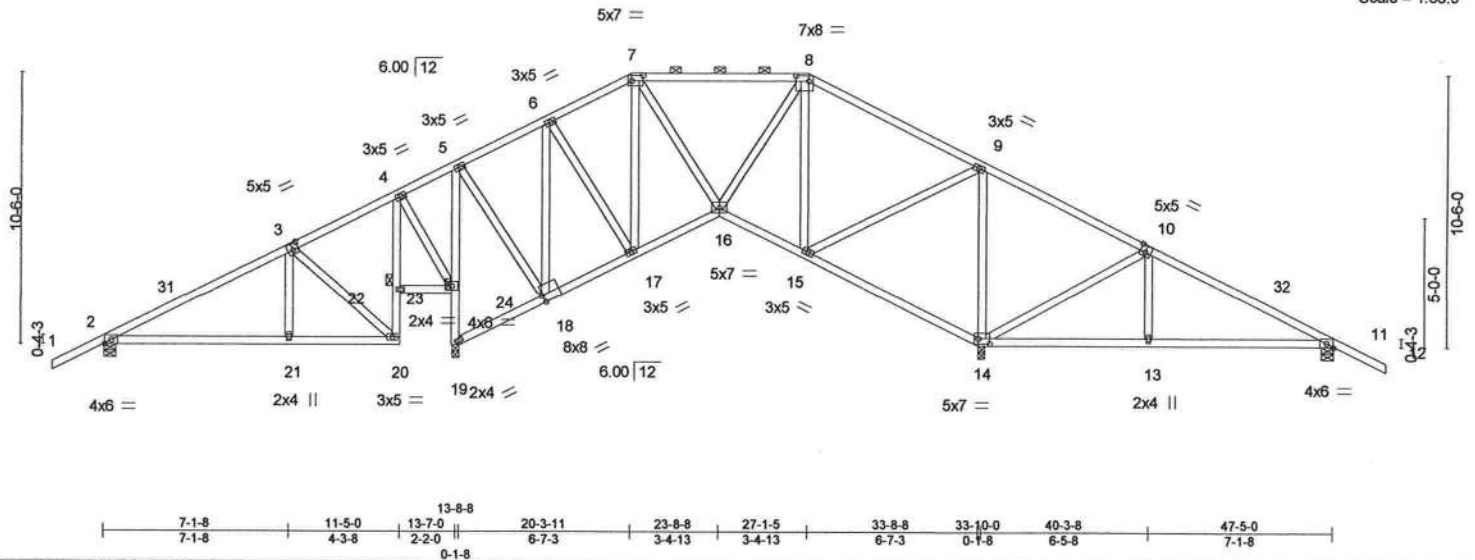


Plate Offsets (X,Y)- [3:0-2-8,0-3-0], [7:0-5-4,0-2-8], [8:0-6-0,0-2-8], [10:0-2-8,0-3-4], [14:0-5-4,0-2-8], [18:0-0-8,Edge]

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 0.56	Vert(LL)	-0.06 21-27	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.14 21-27	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(CT)	0.02 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						

Weight: 296 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
2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 22, 23

REACTIONS.

All bearings 0-5-8 except (jt=length) 14=0-3-0, 19=0-3-0.
(lb) - Max Horz 2=210(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 2=110(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=623(LC 21), 14=1692(LC 1), 11=473(LC 22), 19=1229(LC 17)

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

TOP CHORD 2-3=624/160, 3-4=263/196, 4-5=119/285, 5-6=321/202, 6-7=415/181, 7-8=390/116,
8-9=361/141, 9-10=0/532, 10-11=297/87
BOT CHORD 2-21=38/489, 20-21=39/486, 16-17=0/402, 15-16=0/273, 14-15=504/104
WEBS 3-21=0/271, 19-23=1166/15, 5-23=823/0, 8-16=0/303, 8-15=534/3, 9-15=0/741,
9-14=1044/82, 10-14=637/46, 10-13=0/299, 20-22=13/384, 4-22=13/384,
3-20=550/44, 4-23=405/45, 6-24=453/0, 5-24=0/480, 6-17=0/286

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-8-14, Interior(1) 2-8-14 to 20-3-11, Exterior(2E) 20-3-11 to 27-1-5, Exterior(2R) 27-1-5 to 33-10-4, Interior(1) 33-10-4 to 49-5-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=110.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 2,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



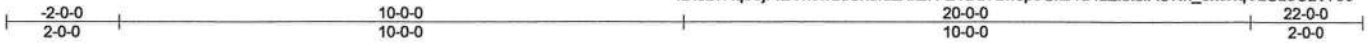
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Job	Truss	Truss Type	Qty	Ply	Douglas	T23421762
DOUGLAS	B1GE	Common Supported Gable	1	1		

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

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Scale = 1:39.7

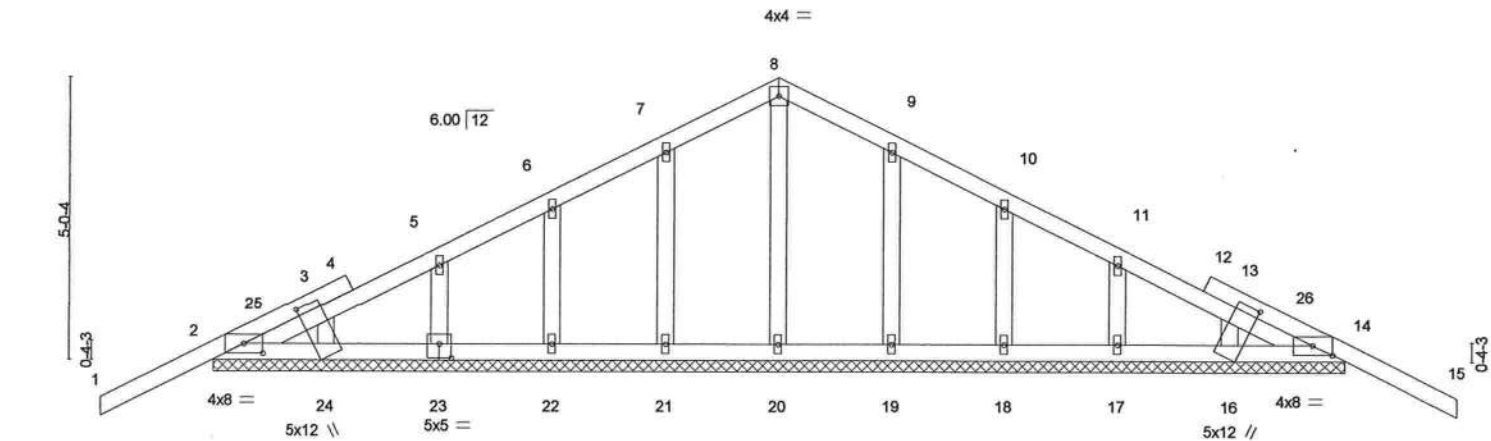


Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [14:0-4-0,0-2-1], [16:0-1-8,1-1-2], [23:0-2-8,0-3-0], [24:0-1-8,1-1-2]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	Vert(LL)	-0.02	15 n/r
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.03	15 n/r
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	14 n/a
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S			
			PLATES	GRIP		
			MT20	244/190		
			Weight: 106 lb		FT = 20%	

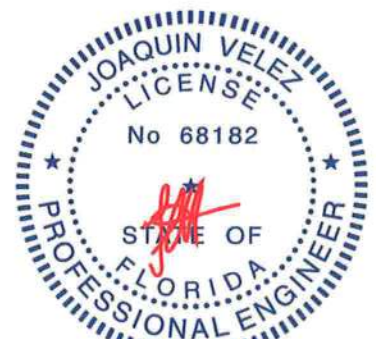
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 2=-94(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 19, 18, 17
 Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 23, 24, 19, 18, 17, 16 except 2=253(LC 1), 14=253(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 22-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 19, 18, 17.



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 Date:

April 2,2021

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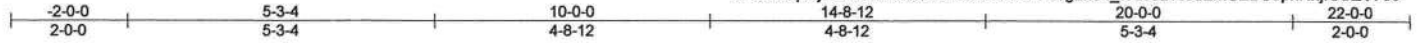


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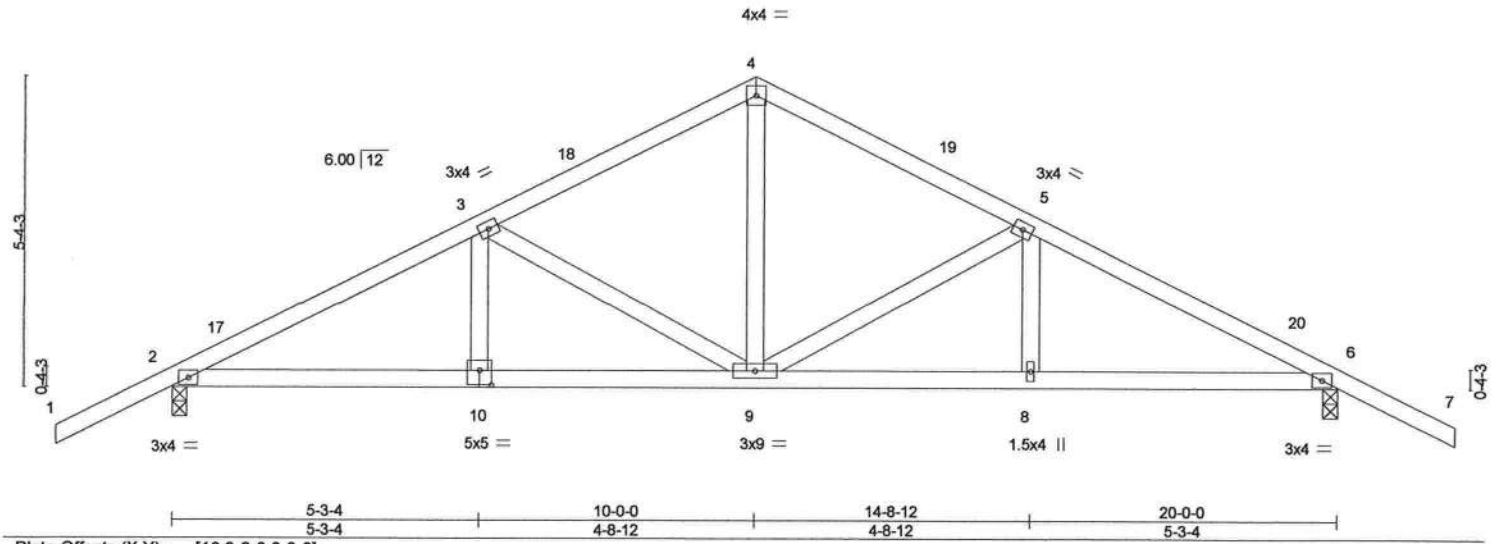
Job	Truss	Truss Type	Qty	Ply	Douglas	T23421763
DOUGLAS	B02	Common	4	1		

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

8.430 s Mar 22 2021 MiTek Industries, Inc. Thu Apr 1 09:59:03 2021 Page 1
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Scale = 1:38.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.25	Vert(LL)	-0.04	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.09				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.04				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-3-0, 6=0-3-0
Max Horz 2=-99(LC 10)
Max Uplift 2=-49(LC 12), 6=-49(LC 12)
Max Grav 2=920(LC 1), 6=920(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1368/126, 3-4=-954/137, 4-5=-954/137, 5-6=-1368/126
BOT CHORD 2-10=-14/1171, 9-10=-14/1171, 8-9=-33/1171, 6-8=-33/1171
WEBS 4-9=-13/524, 5-9=-447/83, 3-9=-447/83

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 22-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



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Date:

April 2,2021

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Tampa, FL 33610

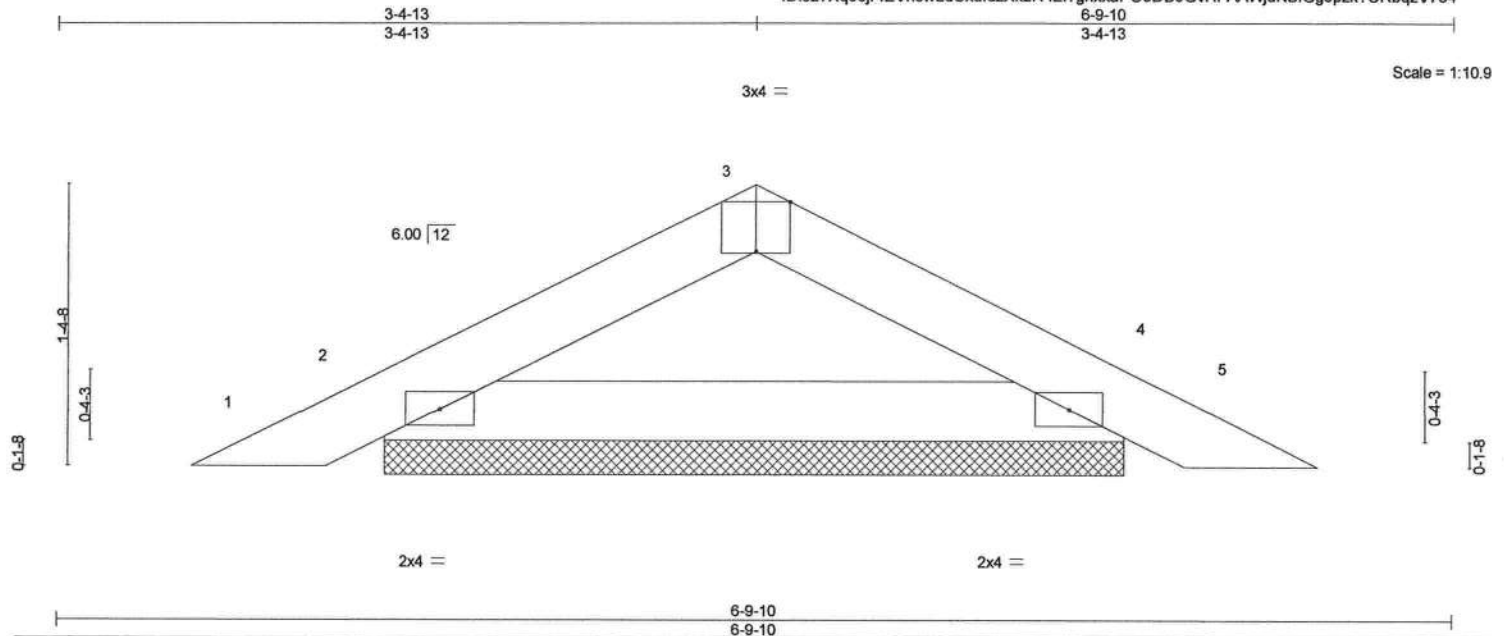


Plate Offsets (X,Y)--		[3:0-2:0,Edge]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00 4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.00 5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=3-7-6, 4=3-7-6
Max Horz 2=-20(LC 10)
Max Uplift 2=-15(LC 12), 4=-15(LC 12)
Max Grav 2=182(LC 1), 4=182(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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Xp B; EncL; GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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/TP1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-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" tall by 2'-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, 4.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

April 2, 2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 BEFORE USE

WARNING: - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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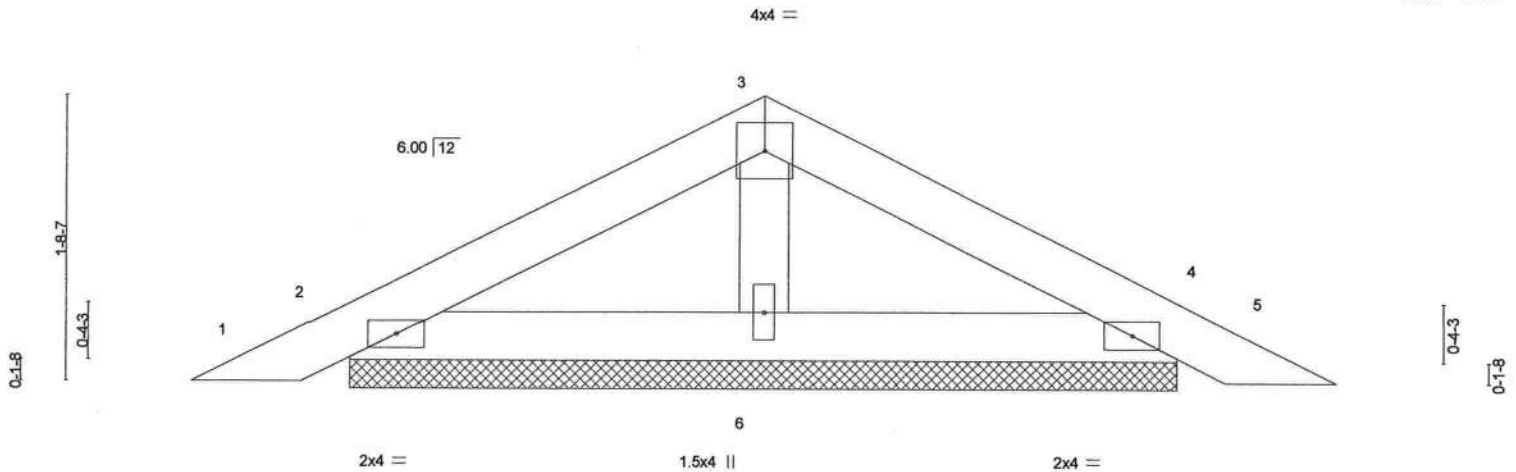
Job	Truss	Truss Type	Qty	Ply	Douglas	T23421765
DOUGLAS	PB02	Piggyback	26	1		

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

8.430 s Mar 22 2021 MiTek Industries, Inc. Thu Apr 1 09:59:06 2021 Page 1
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Scale = 1:13.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.09	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P							
									Weight: 20 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=4-11-0, 4=4-11-0, 6=4-11-0
Max Horz 2=-25(LC 10)
Max Uplift 2=-27(LC 12), 4=-27(LC 12)
Max Grav 2=140(LC 1), 4=140(LC 1), 6=187(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 2,2021

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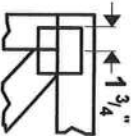
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



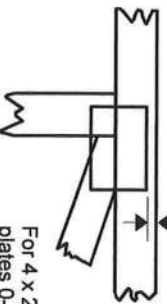
6904 Parke East Blvd.
Tampa, FL 33610

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

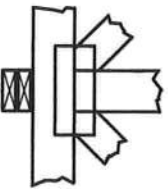
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



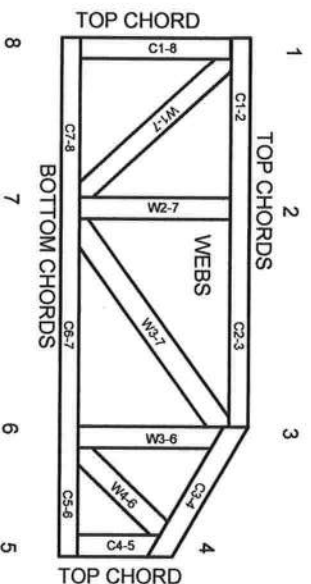
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/ITP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCS1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-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 BCS1.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.