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

RE: 3182083 - HOUSECRAFT - MIRANDA RES.

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

Site Information:

Customer Info: HOUSECRAFT HOMES Project Name: Miranda Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Gilchrist Cty State: FL

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

Name: License #:
Address:
City: State:

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

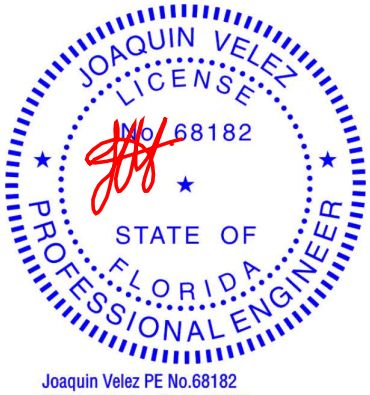
Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

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	T27761635	CJ01	5/19/22	23	T27761657	T14	5/19/22
2	T27761636	CJ03	5/19/22	24	T27761658	T15	5/19/22
3	T27761637	CJ05	5/19/22	25	T27761659	T16	5/19/22
4	T27761638	CJ05A	5/19/22	26	T27761660	T17	5/19/22
5	T27761639	EJ01	5/19/22	27	T27761661	T18	5/19/22
6	T27761640	EJ02	5/19/22	28	T27761662	T19	5/19/22
7	T27761641	EJ03	5/19/22	29	T27761663	T20	5/19/22
8	T27761642	HJ05	5/19/22	30	T27761664	T21	5/19/22
9	T27761643	HJ07	5/19/22	31	T27761665	T22	5/19/22
10	T27761644	HJ10	5/19/22	32	T27761666	T23	5/19/22
11	T27761645	T01	5/19/22	33	T27761667	T24	5/19/22
12	T27761646	T02	5/19/22	34	T27761668	T25	5/19/22
13	T27761647	T03	5/19/22	35	T27761669	T26	5/19/22
14	T27761648	T04	5/19/22	36	T27761670	T27	5/19/22
15	T27761649	T05	5/19/22	37	T27761671	T28	5/19/22
16	T27761650	T06	5/19/22				
17	T27761651	T07	5/19/22				
18	T27761652	T08	5/19/22				
19	T27761653	T09	5/19/22				
20	T27761654	T10	5/19/22				
21	T27761655	T11	5/19/22				
22	T27761656	T12	5/19/22				

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2023.



Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date:

May 19,2022

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	HOUSECRAFT - MIRANDA RES.
3182083	CJ01	Jack-Open	18	1	T27761635
					Job Reference (optional)

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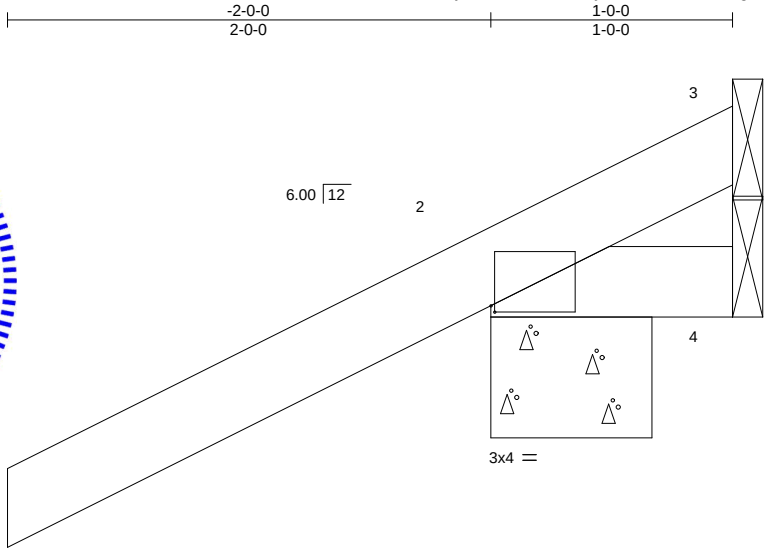

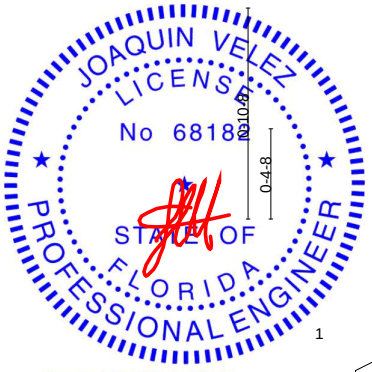

Joaquin Velez PE No.68182
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Date:

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=46(LC 12)
Max Uplift 3=-27(LC 1), 2=-102(LC 12), 4=-46(LC 1)
Max Grav 3=16(LC 16), 2=254(LC 1), 4=29(LC 16)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 102 lb uplift at joint 2 and 46 lb uplift at joint 4.

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	CJ03	Jack-Open	14	1	T27761636
					Job Reference (optional)

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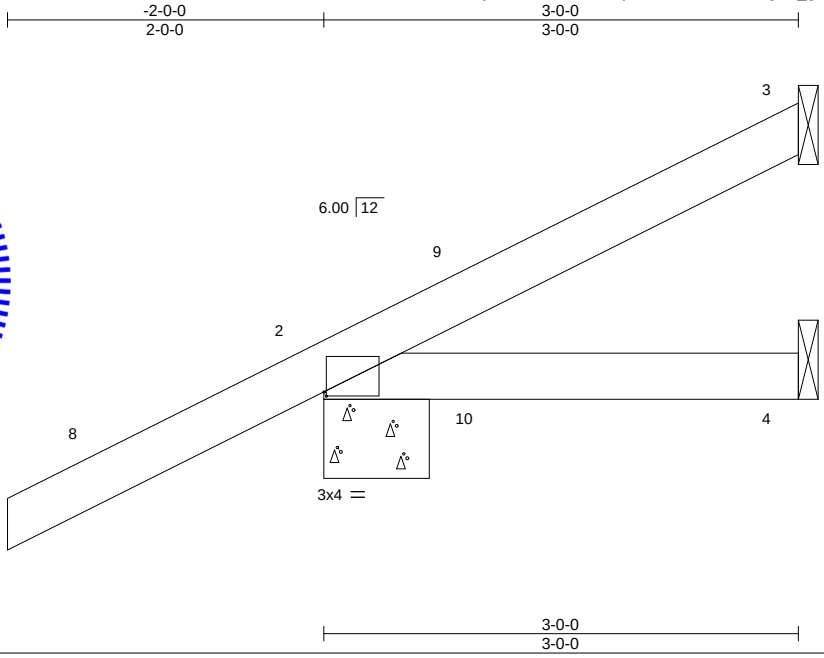

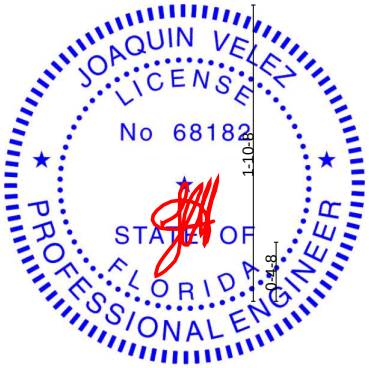

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Date:

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=80(LC 12)
Max Uplift 3=-31(LC 12), 2=-76(LC 12), 4=-14(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3, 76 lb uplift at joint 2 and 14 lb uplift at joint 4.

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	CJ05	Jack-Open	9	1	T27761637
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:26 2022 Page 1
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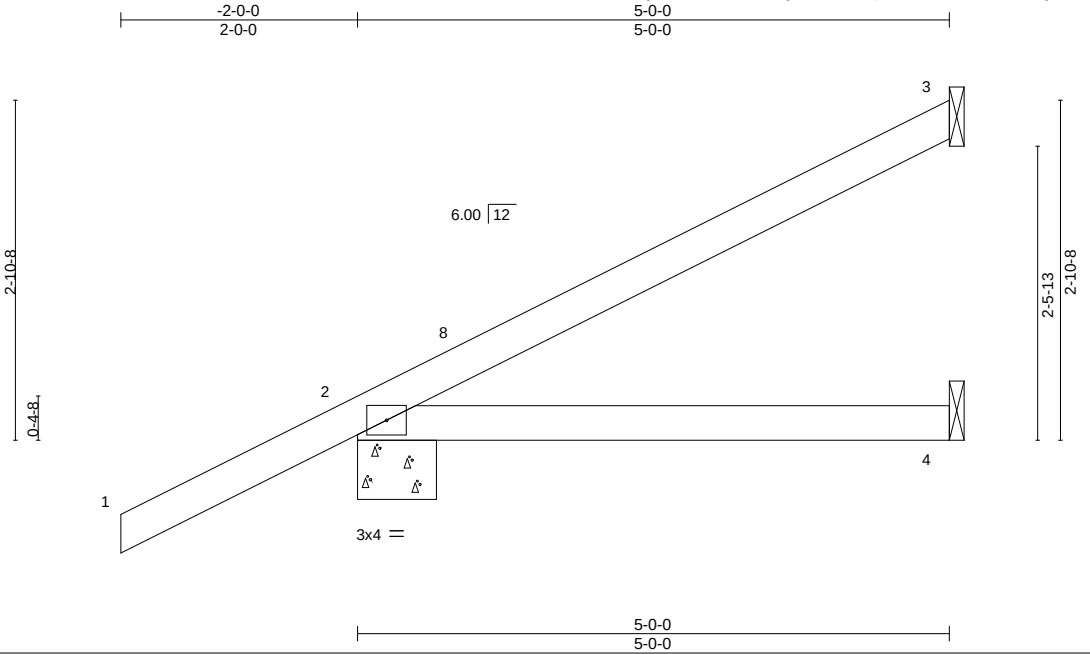


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 19 lb	FT = 20%

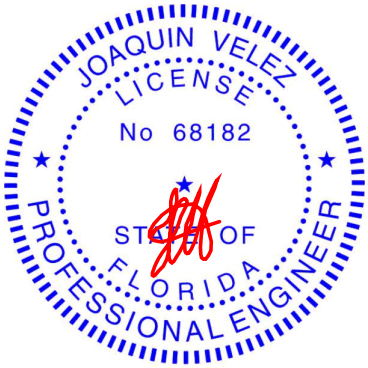
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 3=-64(LC 12), 2=-80(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 3 and 80 lb uplift at joint 2.



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Date:
May 19,2022

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	CJ05A	Jack-Open	1	1	T27761638
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:27 2022 Page 1
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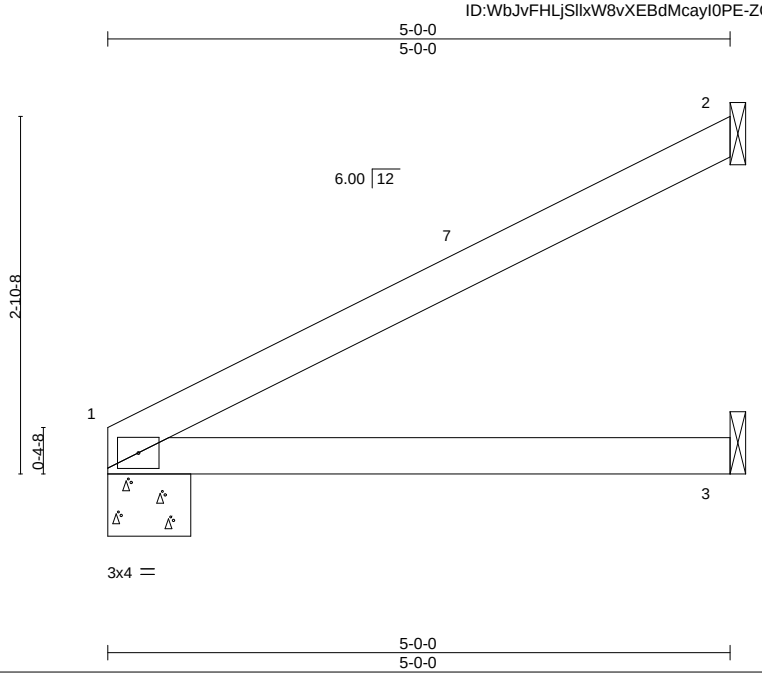

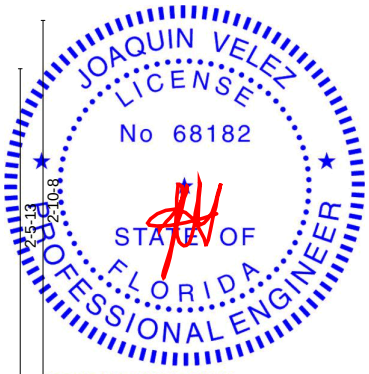

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

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)	0.04	3-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	3-6	>975	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 16 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 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-8-0, 2=Mechanical, 3=Mechanical
Max Horz 1=85(LC 12)
Max Uplift 1=-27(LC 12), 2=-70(LC 12), 3=-2(LC 12)
Max Grav 1=183(LC 1), 2=118(LC 1), 3=90(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1, 70 lb uplift at joint 2 and 2 lb uplift at joint 3.

May 19,2022

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	EJ01	Jack-Partial	31	1	T27761639
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:28 2022 Page 1
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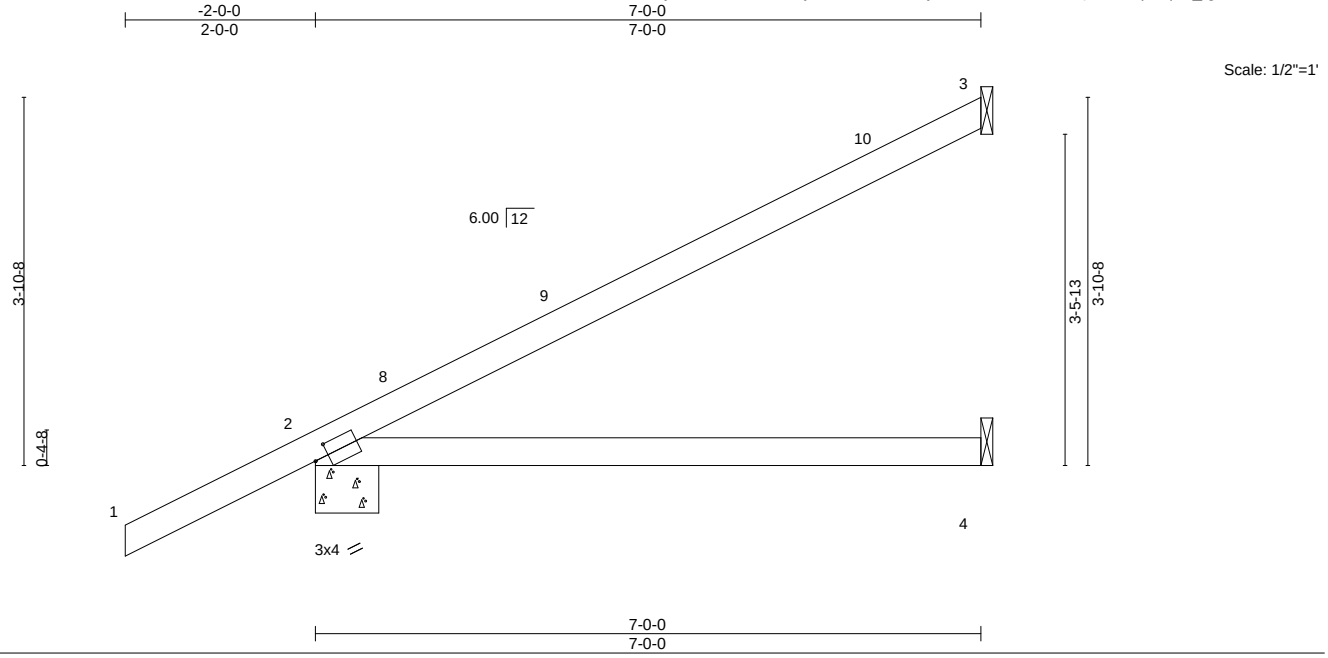


Plate Offsets (X,Y)-- [2:0-1-13,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.10	4-7	>876	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.21	4-7	>393	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 26 lb	FT = 20%

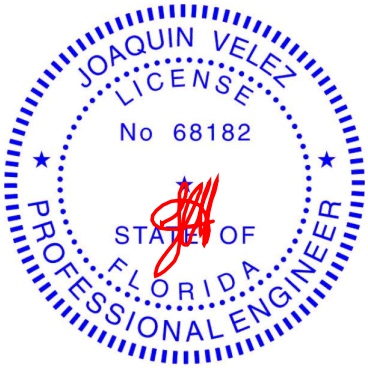
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=144(LC 12)
Max Uplift 3=-84(LC 12), 2=-90(LC 12)
Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 3 and 90 lb uplift at joint 2.



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6904 Parke East Blvd. Tampa FL 33610
Date:
May 19,2022

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	EJ02	Jack-Open	4	1	T27761640
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:29 2022 Page 1
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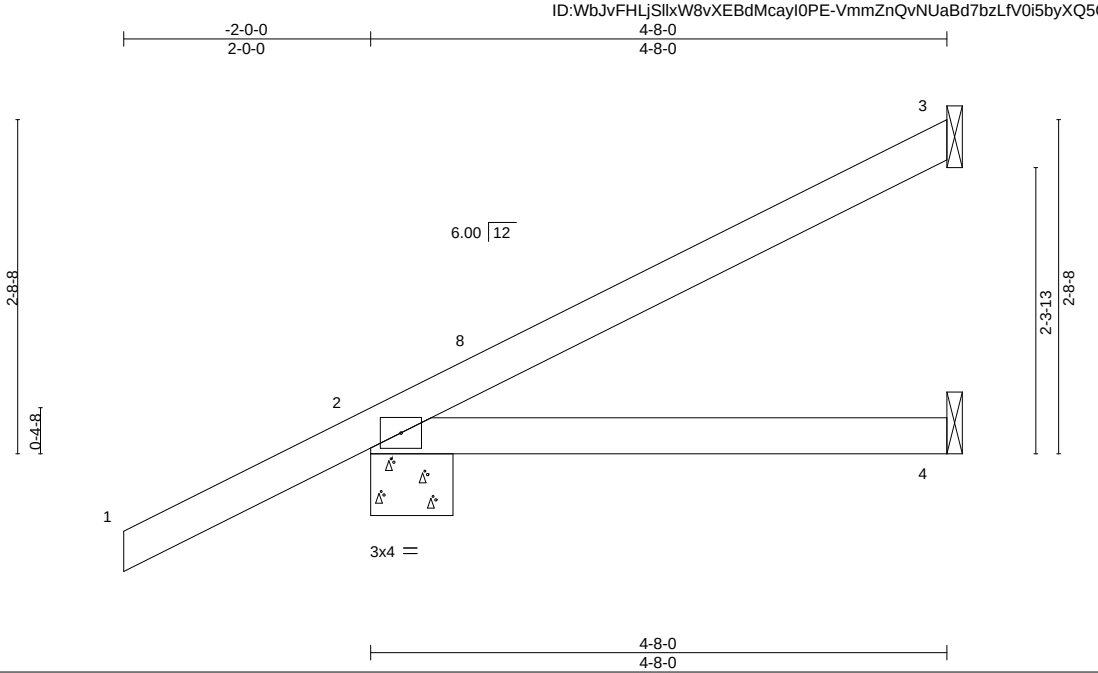


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.04	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 18 lb	FT = 20%

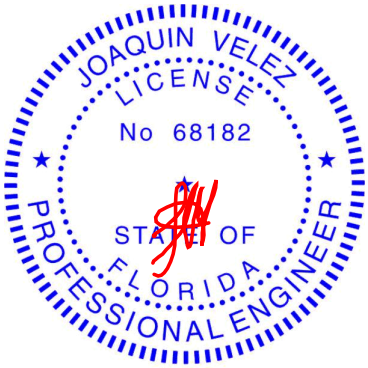
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=109(LC 12)
Max Uplift 3=-59(LC 12), 2=-79(LC 12)
Max Grav 3=99(LC 1), 2=302(LC 1), 4=80(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-7-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 3 and 79 lb uplift at joint 2.



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Date:
May 19,2022

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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	EJ03	Jack-Open	3	1	T27761641
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:30 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-zzKx?mw?FuJUllYYCDXxdoViAUobH0N7iIT_kPzFDzN

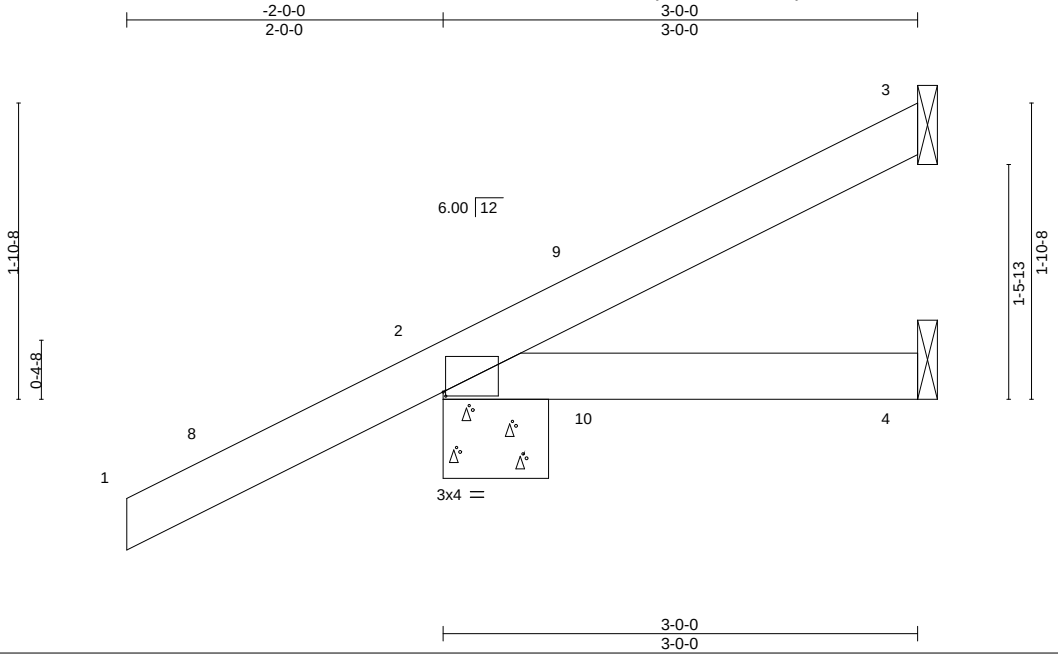


Plate Offsets (X,Y)-- [2:0-0-3,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%

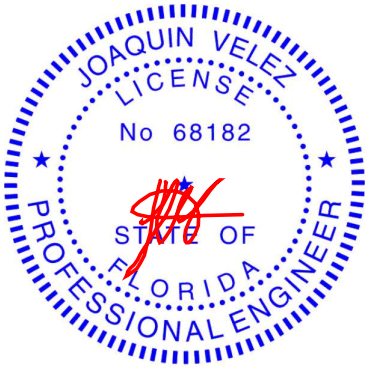
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=80(LC 12)
Max Uplift 3=-31(LC 12), 2=-76(LC 12), 4=-14(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3, 76 lb uplift at joint 2 and 14 lb uplift at joint 4.



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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	HJ05	Diagonal Hip Girder	2	1	T27761642
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:31 2022 Page 1
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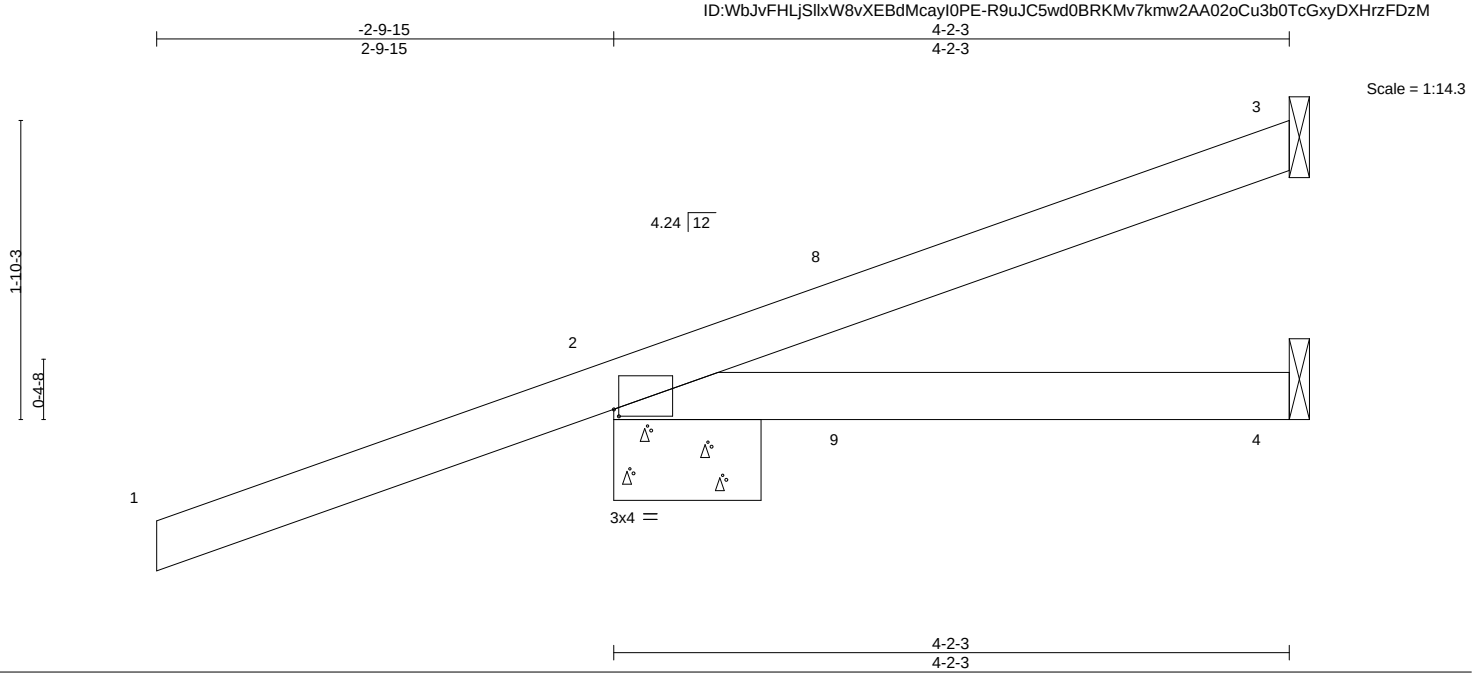


Plate Offsets (X,Y)-- [2:0-0-6,0-0-8]

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	0.56	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	0.05	4-7	>991	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 17 lb	FT = 20%

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

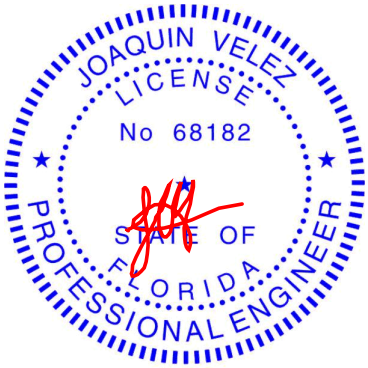
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-10-15, 4=Mechanical
Max Horz 2=96(LC 4)
Max Uplift 3=-24(LC 8), 2=-149(LC 4), 4=-36(LC 19)
Max Grav 3=56(LC 35), 2=282(LC 1), 4=50(LC 30)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 3, 149 lb uplift at joint 2 and 36 lb uplift at joint 4.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, and 56 lb down and 103 lb up at 1-6-1 on top chord, and 44 lb down and 74 lb up at 1-6-1, and 44 lb down and 74 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=50(F=25, B=25) 9=70(F=35, B=35)



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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	HJ07	Diagonal Hip Girder	2	1	T27761643
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:33 2022 Page 1
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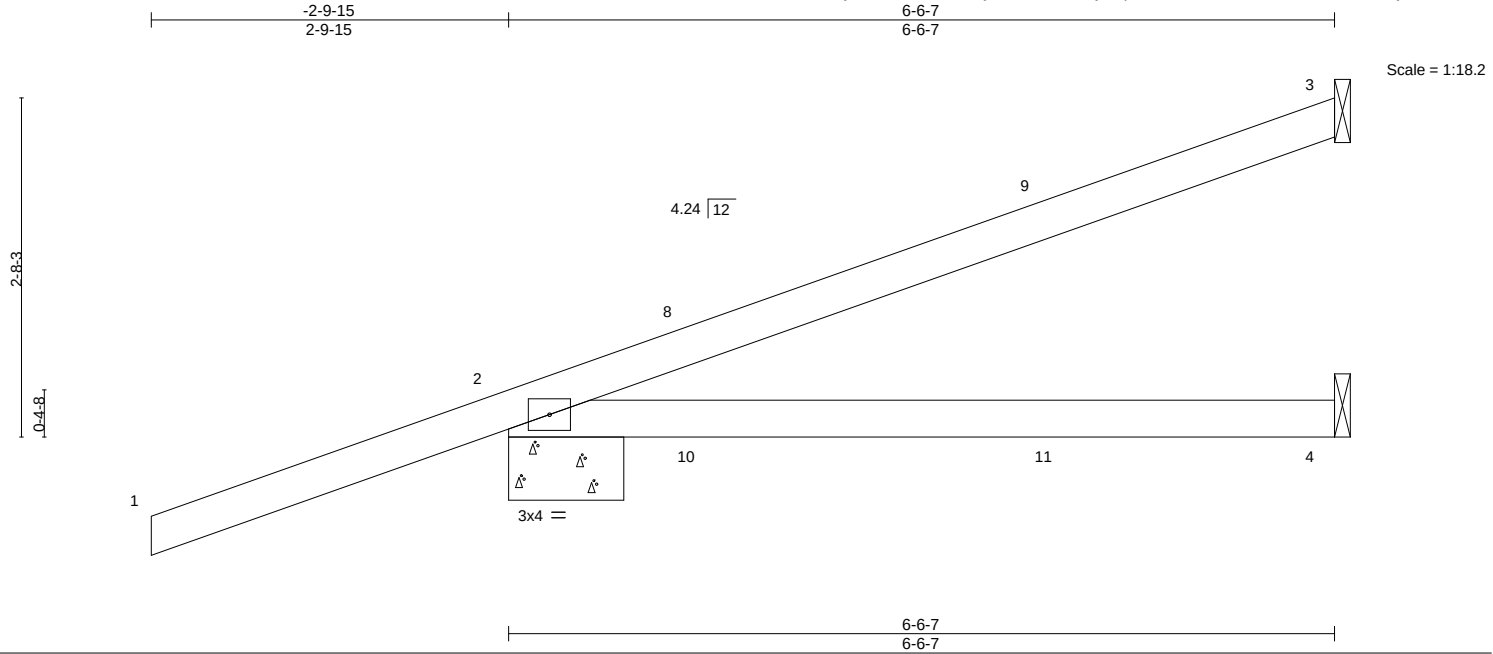


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.09	4-7	>870	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.12	4-7	>675	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

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

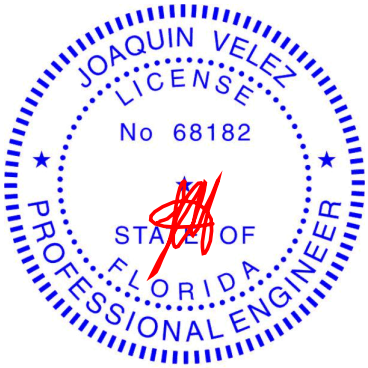
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-10-15, 4=Mechanical
Max Horz 2=125(LC 4)
Max Uplift 3=-69(LC 8), 2=-156(LC 4), 4=-16(LC 9)
Max Grav 3=126(LC 1), 2=332(LC 1), 4=99(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 3, 156 lb uplift at joint 2 and 16 lb uplift at joint 4.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, 56 lb down and 103 lb up at 1-6-1, and 20 lb down and 33 lb up at 4-4-0, and 20 lb down and 33 lb up at 4-4-0 on top chord, and 21 lb down and 74 lb up at 1-6-1, 21 lb down and 74 lb up at 1-6-1, and 19 lb down and 21 lb up at 4-4-0, and 19 lb down and 21 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=50(F=25, B=25) 10=70(F=35, B=35) 11=5(F=2, B=2)



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Date:
May 19,2022

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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	HJ10	Diagonal Hip Girder	5	1	T27761644
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:34 2022 Page 1
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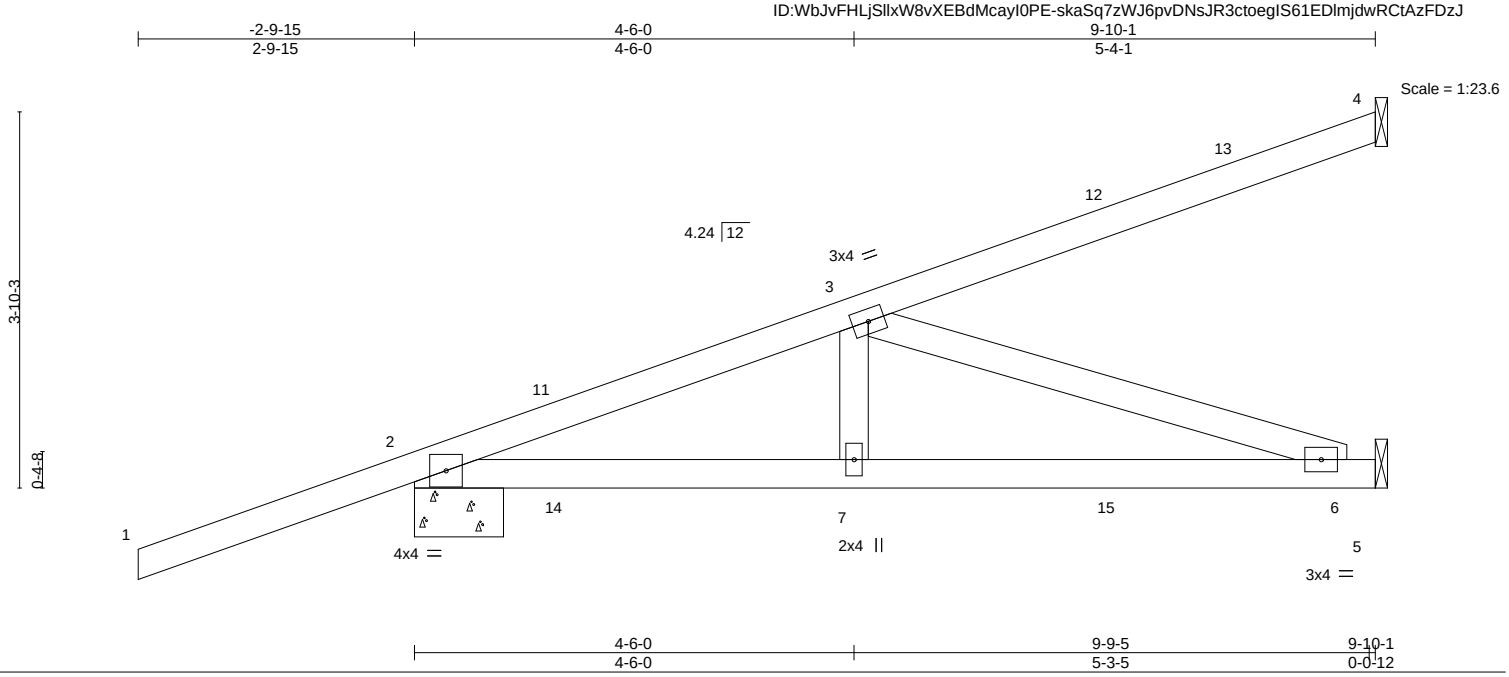


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	0.06	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.12	6-7	>952	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 44 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

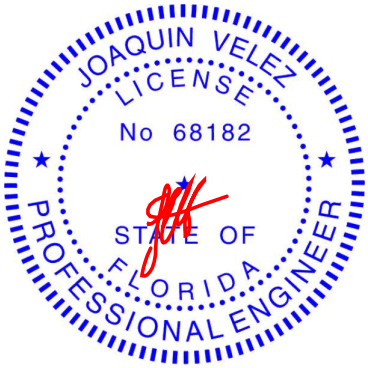
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-10-15, 5=Mechanical
Max Horz 2=160(LC 4)
Max Uplift 4=-83(LC 4), 2=-212(LC 4), 5=-112(LC 5)
Max Grav 4=154(LC 1), 2=469(LC 1), 5=269(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-651/246
BOT CHORD 2-7=-287/595, 6-7=-287/595
WEBS 3-6=-626/303

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 4, 212 lb uplift at joint 2 and 112 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, 56 lb down and 103 lb up at 1-6-1, 20 lb down and 33 lb up at 4-4-0, 20 lb down and 33 lb up at 4-4-0, and 44 lb down and 82 lb up at 7-1-15, and 41 lb down and 75 lb up at 7-1-15 on top chord, and 44 lb down and 74 lb up at 1-6-1, 44 lb down and 74 lb up at 1-6-1, 42 lb down and 21 lb up at 4-4-0, 42 lb down and 21 lb up at 4-4-0, and 42 lb down and 18 lb up at 7-1-15, and 65 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=5(F=2, B=2) 11=50(F=25, B=25) 12=-74(F=-42, B=-32) 14=70(F=35, B=35) 15=-60(F=-36, B=-24)



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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T01	Hip Girder	1	1	T27761645
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:36 2022 Page 1
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-2-0-0	3-11-15	7-0-0	10-8-0	14-4-0	17-4-1	21-3-12
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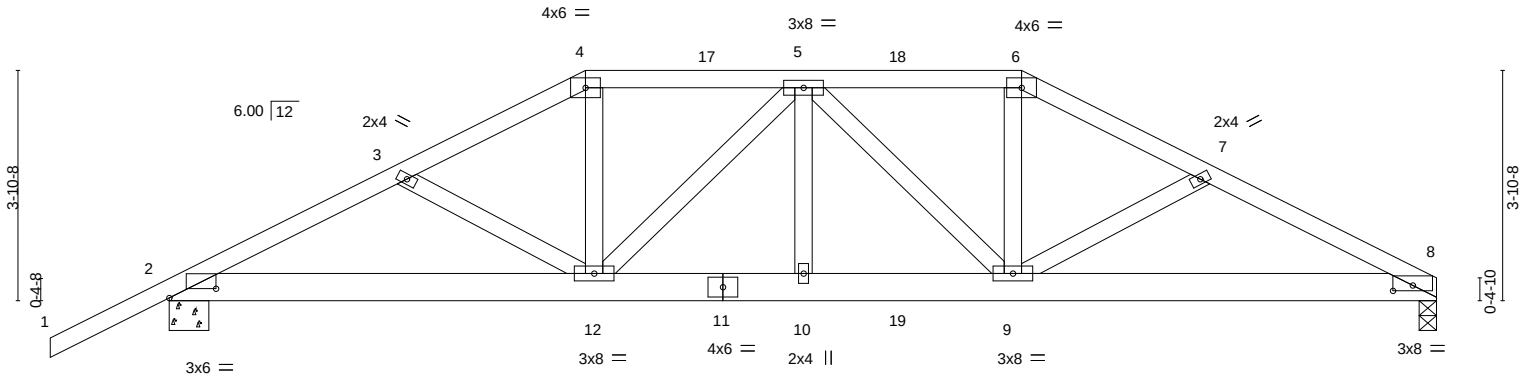


7-0-0	10-8-0	14-4-0	21-3-12
7-0-0	3-8-0	3-8-0	6-11-12

Plate Offsets (X,Y)-- [2:0-9-7,0-1-14], [8:0-4-0,0-1-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.10	10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.19	10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 125 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

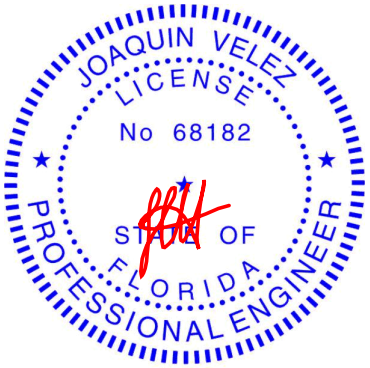
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-4 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-8-0
Max Horz 2=82(LC 27)
Max Uplift 8=-448(LC 9), 2=-484(LC 8)
Max Grav 8=1490(LC 1), 2=1578(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2902/899, 3-4=-2723/850, 4-5=-2444/791, 5-6=-2509/816, 6-7=-2806/880, 7-8=-2978/933
BOT CHORD 2-12=-809/2563, 10-12=-818/2798, 9-10=-818/2798, 8-9=-790/2640
WEBS 4-12=-224/891, 5-12=-552/197, 5-10=0/254, 5-9=-460/138, 6-9=-186/849

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 448 lb uplift at joint 8 and 484 lb uplift at joint 2.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 81 lb up at 10-8-0, and 106 lb down and 88 lb up at 12-3-4, and 231 lb down and 177 lb up at 14-4-0 on top chord, and 297 lb down and 145 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 10-8-0, and 85 lb down at 12-3-4, and 297 lb down and 145 lb up at 14-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-8=-54, 2-8=-20



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 19,2022

Continued on page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb)

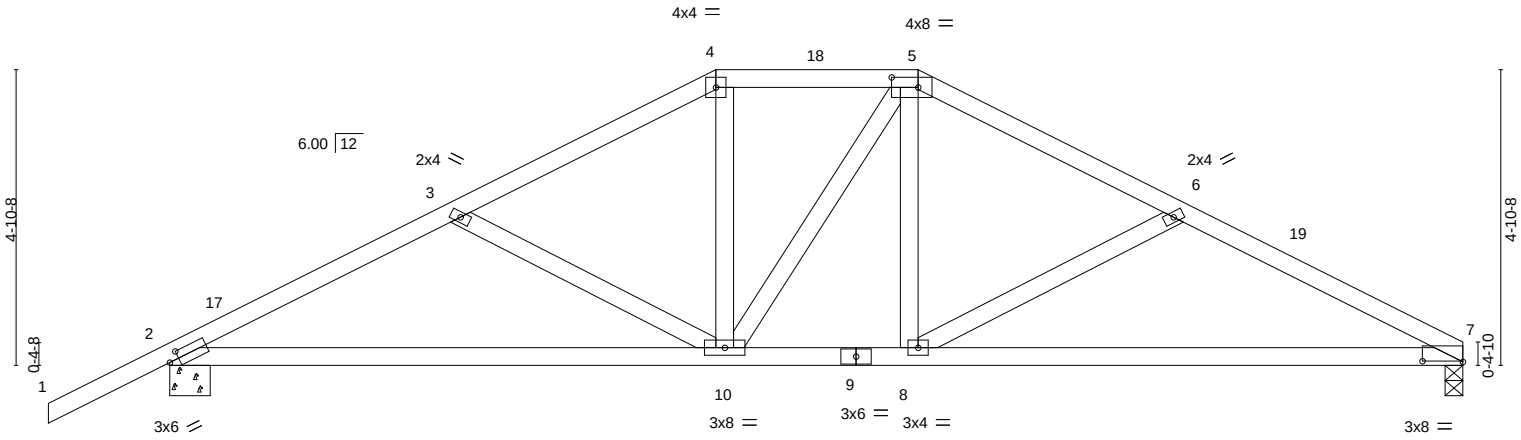
Vert: 4=-106(F) 6=-184(F) 11=-61(F) 12=-295(F) 10=-61(F) 5=-106(F) 9=-295(F) 17=-106(F) 18=-106(F) 19=-61(F)

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T02	Hip	1	1	T27761646
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:37 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-GJFbT9?Oc1BU4qau7B9aPHIsUJ2xQ9Y9JugsUVzFDzG

-2-0-0 2-0-0 | 4-9-8 4-9-8 | 9-0-0 4-2-8 | 12-4-0 3-4-0 | 16-6-8 4-2-8 | 21-3-12 4-9-3

Scale = 1:38.0



9-0-0 9-0-0 | 12-4-0 3-4-0 | 21-3-12 8-11-12

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [5:0-5-4,0-2-0], [7:0-8-0,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.15	10-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.32	8-13	>808	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 105 lb	FT = 20%

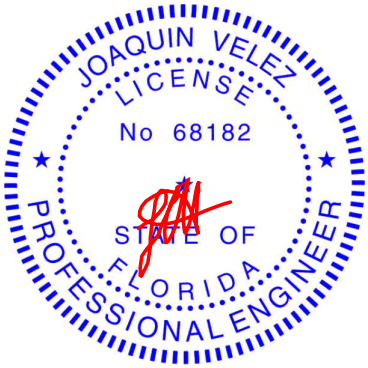
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-8-0
Max Horz 2=97(LC 12)
Max Uplift 7=-165(LC 13), 2=-211(LC 12)
Max Grav 7=783(LC 1), 2=902(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1335/341, 3-4=-1070/275, 4-5=-910/276, 5-6=-1076/278, 6-7=-1354/340
BOT CHORD 2-10=-276/1168, 8-10=-135/915, 7-8=-260/1192
WEBS 3-10=-303/164, 4-10=-41/307, 5-8=-52/309, 6-8=-326/177

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-4-0, Exterior(2R) 12-4-0 to 16-8-7, Interior(1) 16-8-7 to 21-3-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 7 and 211 lb uplift at joint 2.



Joaquin Velez PE No.68182
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Date:
May 19,2022

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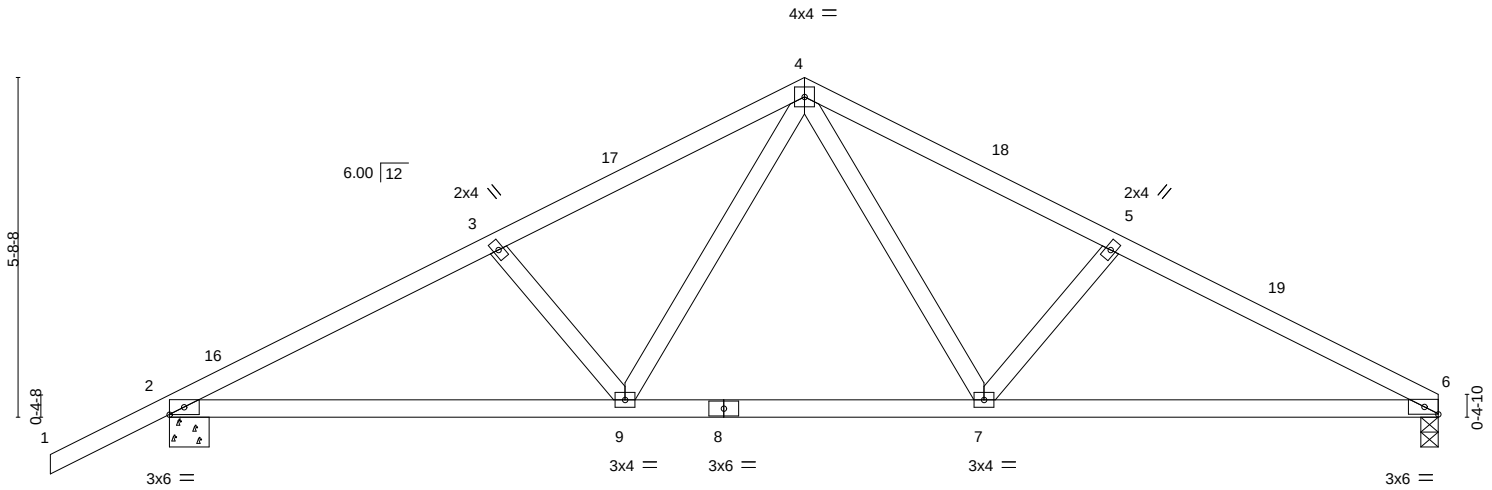
Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T03	Common	3	1	T27761647
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:38 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-kVpzgV00NLJLi_94gugpyUq3AjQX9ckIYYPP0xzFDzF

-2-0-0	5-6-5	10-8-0	15-9-11	21-3-12
2-0-0	5-6-5	5-1-11	5-1-11	5-6-1

Scale = 1:38.7



7-7-13	13-8-3	21-3-12
7-7-13	6-0-6	7-7-9

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)	-0.08	9-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.17	7-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%

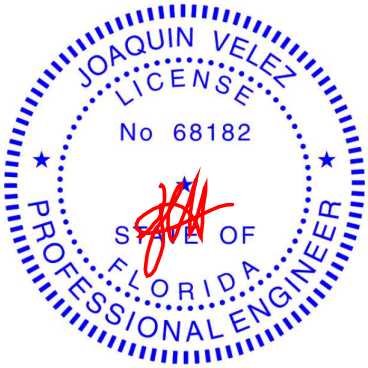
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-8-0
Max Horz 2=109(LC 12)
Max Uplift 6=-163(LC 13), 2=-208(LC 12)
Max Grav 6=783(LC 1), 2=902(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1338/357, 3-4=-1160/342, 4-5=-1174/355, 5-6=-1343/369
BOT CHORD 2-9=-270/1152, 7-9=-121/778, 6-7=-275/1172
WEBS 4-7=-124/440, 5-7=-305/182, 4-9=-111/417, 3-9=-292/175

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 21-3-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 6 and 208 lb uplift at joint 2.



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Date:
May 19,2022

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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T04	Half Hip	1	1	T27761648
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:39 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-DhNLtr1f8fRCK8kGEcB2ViN7P7i4u?ZSnC9zZNzFDzE

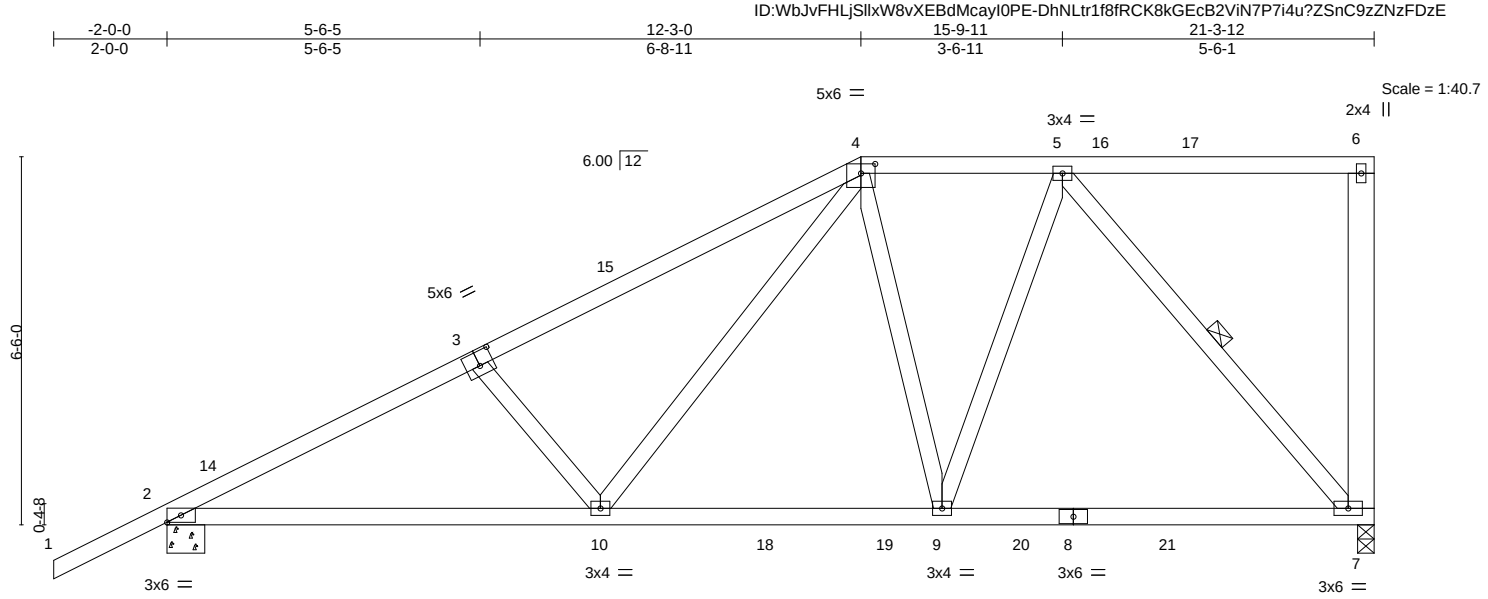


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-3-0,0-2-0]

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	0.73	Vert(LL)	-0.12	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.22	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 129 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
6-7: 2x6 SP No.2

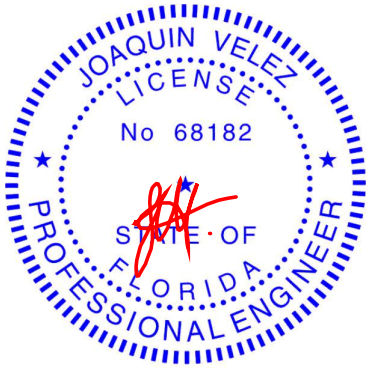
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-9 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS. (size) 7=0-3-8, 2=0-8-0
Max Horz 2=241(LC 12)
Max Uplift 7=-231(LC 9), 2=-265(LC 12)
Max Grav 7=1034(LC 2), 2=1102(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1793/416, 3-4=-1649/400, 4-5=-915/242
BOT CHORD 2-10=-528/1581, 9-10=-273/944, 7-9=-191/708
WEBS 3-10=-328/205, 4-10=-216/792, 5-9=-156/663, 5-7=-1060/297

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 12-3-0, Exterior(2R) 12-3-0 to 16-5-15, Interior(1) 16-5-15 to 21-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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 231 lb uplift at joint 7 and 265 lb uplift at joint 2.
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: 1-4=-54, 4-6=-54, 10-11=-20, 9-10=-80(F=-60), 7-9=-20



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May 19,2022

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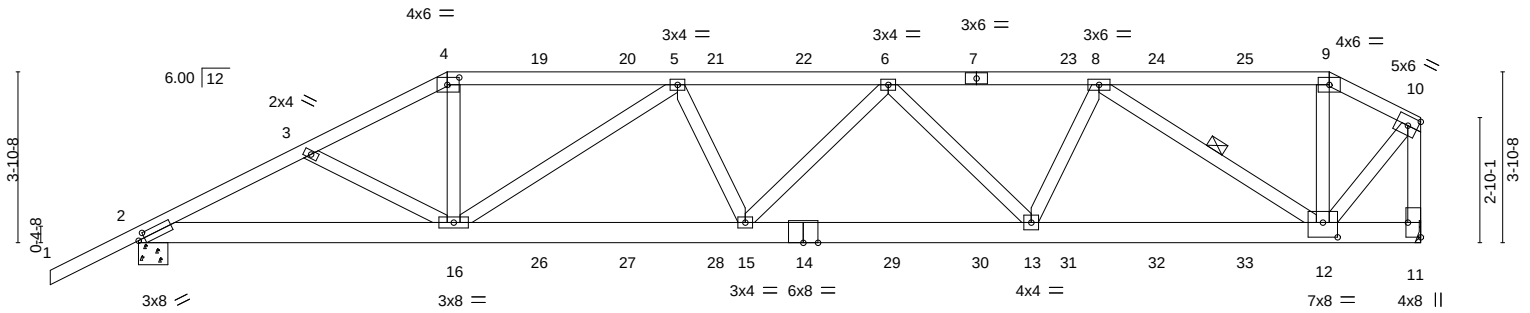
Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T05	Hip Girder	1	1	T27761649
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:41 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-94V5IW2vfGhwZRufM1EWa7SPDwLWMmQkEWe3dGzFDzC

-2-0-0	3-10-15	7-0-0	12-2-11	17-0-0	21-9-5	27-0-0	29-0-14
2-0-0	3-10-15	3-1-1	5-2-10	4-9-5	4-9-5	5-2-10	2-0-14

Scale = 1:52.2



7-0-0	13-9-2	20-2-14	27-0-0	29-0-14
7-0-0	6-9-1	6-5-13	6-9-1	2-0-14

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [4:0-3-4,0-2-0], [11:Edge,0-3-8], [12:0-4-0,0-4-0]

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	0.97	Vert(LL)	-0.23	15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.44	15-16	>794	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 180 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-8 oc bracing.
WEBS 1 Row at midpt 8-12

REACTIONS. (size) 2=0-8-0, 11=Mechanical
Max Horz 2=131(LC 27)
Max Uplift 2=-599(LC 8), 11=-560(LC 4)
Max Grav 2=2114(LC 1), 11=2208(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4101/1147, 3-4=-3943/1104, 4-5=-3562/1025, 5-6=-4726/1260, 6-8=-3981/1043, 8-9=-1312/342, 9-10=-1458/366, 10-11=-2233/543
BOT CHORD 2-16=-1081/3628, 15-16=-1288/4650, 13-15=-1255/4576, 12-13=-969/3555
WEBS 4-16=-286/1343, 5-16=-1371/401, 5-15=0/344, 6-15=-33/311, 6-13=-877/346, 8-13=-174/1060, 8-12=-2726/781, 9-12=0/371, 10-12=-511/2028

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 599 lb uplift at joint 2 and 560 lb uplift at joint 11.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 88 lb up at 13-0-12, 106 lb down and 88 lb up at 15-0-12, 106 lb down and 81 lb up at 17-0-12, 106 lb down and 88 lb up at 19-0-12, 106 lb down and 88 lb up at 21-0-12, 106 lb down and 88 lb up at 23-0-12, and 106 lb down and 88 lb up at 25-0-12, and 128 lb down and 88 lb up at 27-0-0 on top chord, and 297 lb down and 145 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, and 85 lb down at 25-0-12, and 85 lb down at 27-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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

Continued on page 2

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Date:
May 19,2022

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Tampa, FL 36610

LOAD CASE(S) Standard

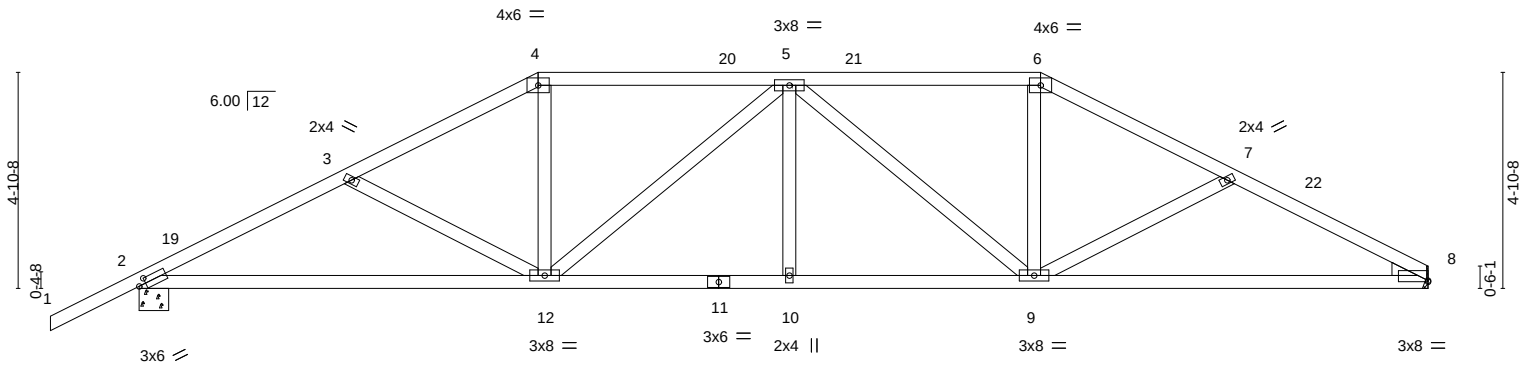
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-9=-54, 9-10=-54, 2-11=-20
   Concentrated Loads (lb)
   Vert: 4=-106(B) 7=-106(B) 9=-106(B) 14=-61(B) 16=-295(B) 6=-106(B) 12=-61(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-106(B) 23=-106(B) 24=-106(B) 25=-106(B) 26=-61(B) 27=-61(B) 28=-61(B) 29=-61(B) 30=-61(B) 31=-61(B) 32=-61(B) 33=-61(B)

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T06	Hip	1	1	T27761650
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:42 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-dG3UWs3XQapnBbTrvkll6K?kRKky5MouTANd9izFDzB

-2-0-0	4-9-8	9-0-0	14-8-0	20-4-0	24-6-8	29-0-14
2-0-0	4-9-8	4-2-8	5-8-0	5-8-0	4-2-8	4-6-6

Scale = 1:52.0



9-0-0	14-8-0	20-4-0	29-0-14
9-0-0	5-8-0	5-8-0	8-8-14

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [8:0-0-0,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.15	12-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.32	12-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 148 lb	FT = 20%

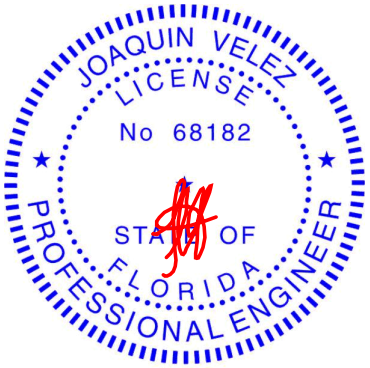
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-3-2 oc bracing.

REACTIONS. (size) 8=Mechanical, 2=0-8-0
Max Horz 2=99(LC 12)
Max Uplift 8=-230(LC 13), 2=-277(LC 12)
Max Grav 8=1072(LC 1), 2=1187(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1964/432, 3-4=-1702/363, 4-5=-1487/354, 5-6=-1470/350, 6-7=-1680/364, 7-8=-1917/431
BOT CHORD 2-12=-402/1717, 10-12=-308/1737, 9-10=-308/1737, 8-9=-336/1663
WEBS 3-12=-281/156, 4-12=-70/501, 5-12=-412/147, 5-9=-434/147, 6-9=-68/484

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 20-4-0, Exterior(2R) 20-4-0 to 24-8-7, Interior(1) 24-8-7 to 29-0-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 8 and 277 lb uplift at joint 2.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 19,2022

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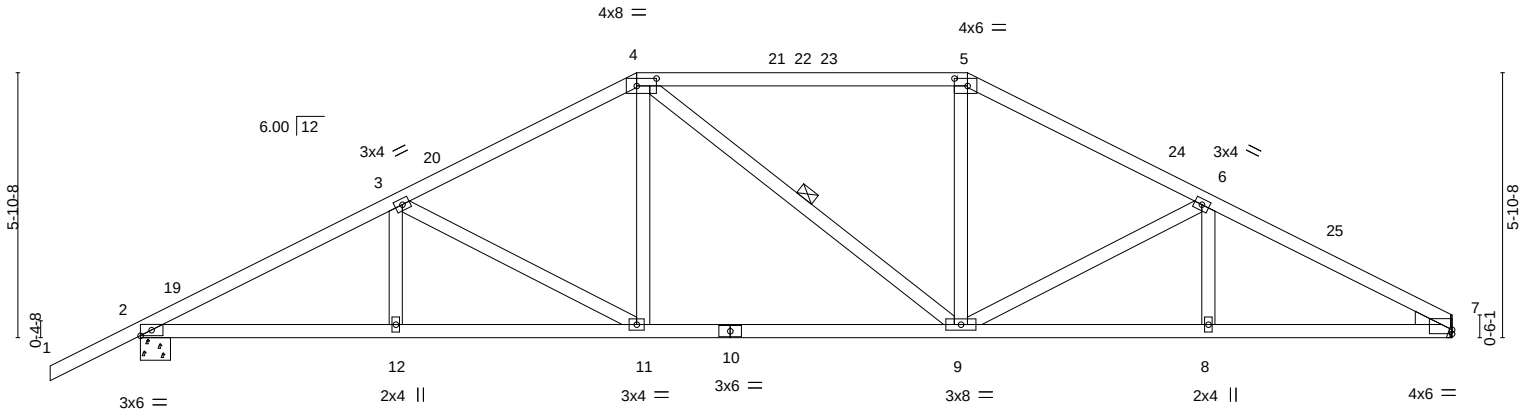
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T07	Hip	1	1	T27761651
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:43 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayl0PE-5TdsjC49Btxdol22TSG_fYYnrk5lqqI1iq7Ai8zFDzA

-2-0-0	5-7-15	11-0-0	18-4-0	23-8-1	29-0-14
2-0-0	5-7-15	5-4-1	7-4-0	5-4-1	5-4-13

Scale = 1:51.1



5-7-15	11-0-0	18-4-0	23-8-1	29-0-14
5-7-15	5-4-1	7-4-0	5-4-1	5-4-13

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [5:0-3-8,0-2-0], [7:0-0-0,0-1-1]

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	0.83	Vert(LL)	-0.14	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.26	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 149 lb	FT = 20%

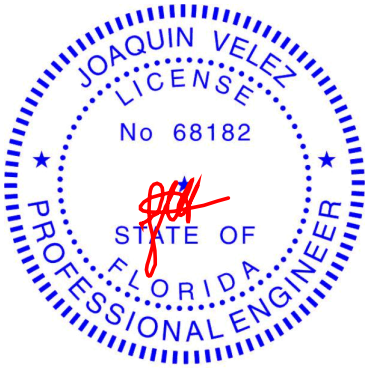
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-4 oc bracing.
WEBS 1 Row at midpt 4-9

REACTIONS. (size) 7=Mechanical, 2=0-8-0
Max Horz 2=114(LC 12)
Max Uplift 7=-227(LC 13), 2=-274(LC 12)
Max Grav 7=1157(LC 2), 2=1256(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2136/403, 3-4=-1691/357, 4-5=-1459/346, 5-6=-1669/357, 6-7=-2063/402
BOT CHORD 2-12=-385/1868, 11-12=-385/1868, 9-11=-226/1477, 8-9=-305/1793, 7-8=-305/1793
WEBS 3-11=-471/181, 4-11=-45/477, 5-9=-37/441, 6-9=-410/180

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 18-4-0, Exterior(2R) 18-4-0 to 22-6-15, Interior(1) 22-6-15 to 29-0-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 7 and 274 lb uplift at joint 2.



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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T08	Hip	1	1	T27761652
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:44 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-ZfBExY4nyB4UQvdE19nDCl4208TPZE_BwUsjEbzFDz9

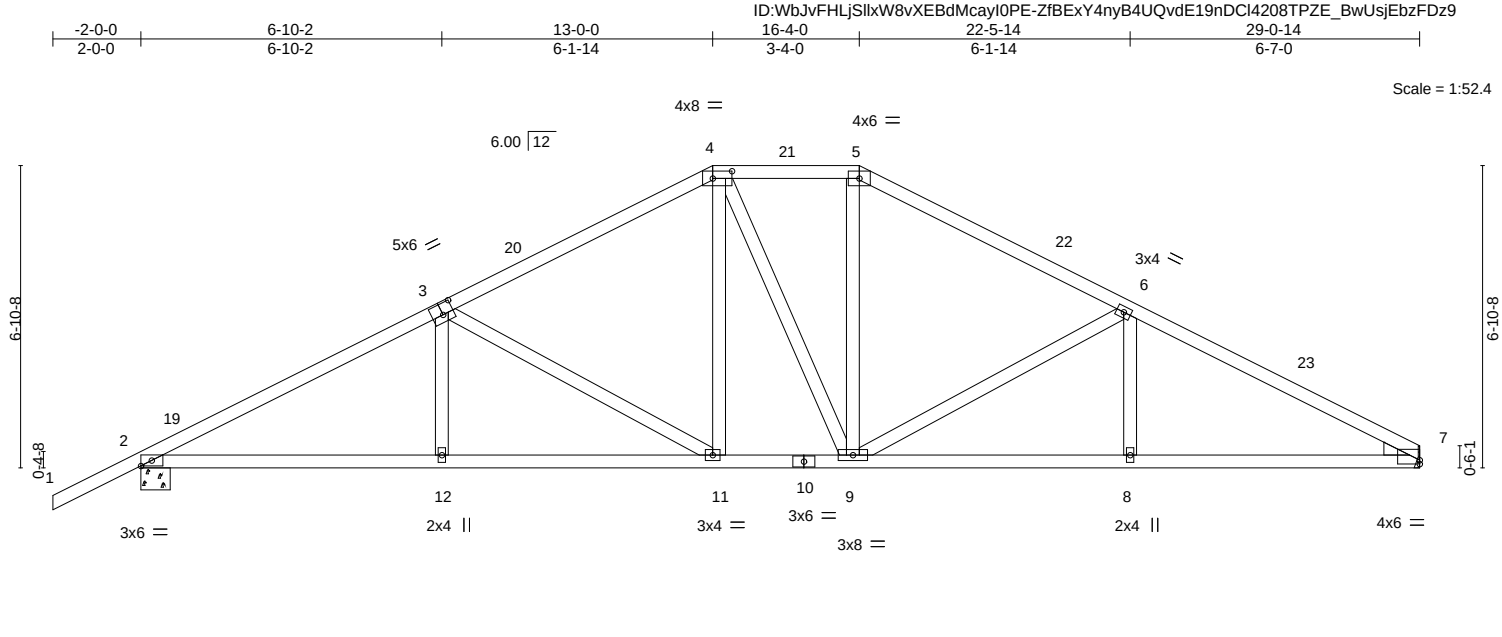


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-5-4,0-2-0], [7:0-0-0,0-1-1]

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)	-0.09	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.19	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 154 lb	FT = 20%

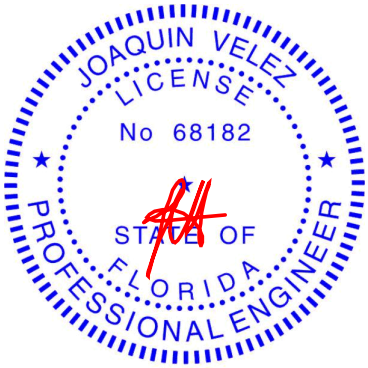
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-8-0
Max Horz 2=129(LC 12)
Max Uplift 7=-224(LC 13), 2=-271(LC 12)
Max Grav 7=1072(LC 1), 2=1187(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1940/389, 3-4=-1399/336, 4-5=-1182/330, 5-6=-1397/338, 6-7=-1900/386
BOT CHORD 2-12=-376/1673, 11-12=-375/1675, 9-11=-178/1182, 8-9=-283/1631, 7-8=-283/1631
WEBS 3-12=0/281, 3-11=-575/227, 4-11=-80/375, 5-9=-75/368, 6-9=-534/225, 6-8=0/257

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2E) 13-0-0 to 16-4-0, Exterior(2R) 16-4-0 to 20-6-15, Interior(1) 20-6-15 to 29-0-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 7 and 271 lb uplift at joint 2.



Joaquin Velez PE No.68182
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Date:
May 19,2022

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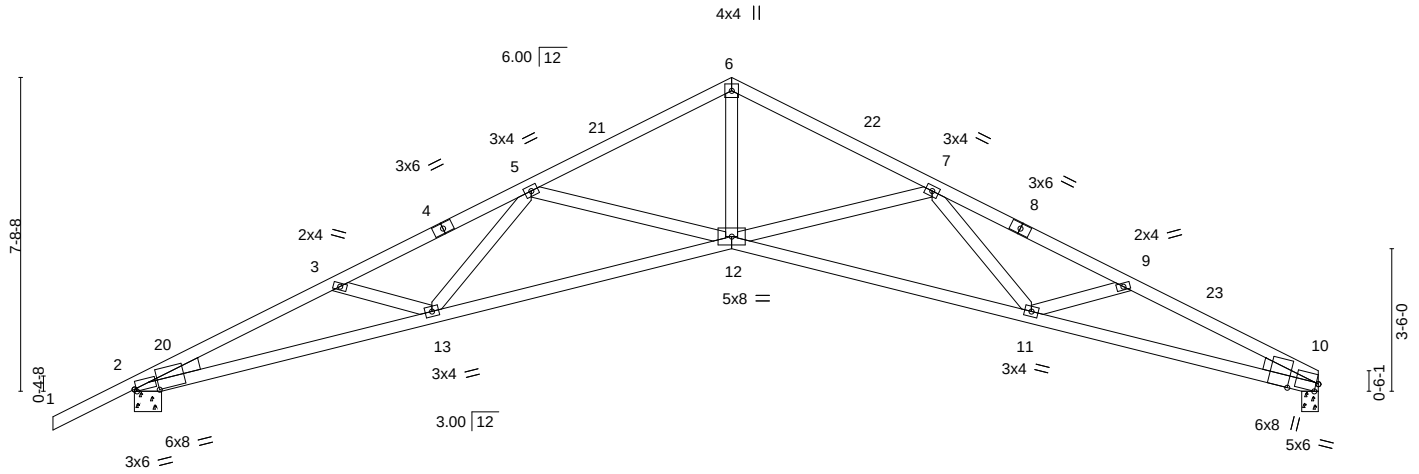
Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T09	Scissor	1	1	T27761653
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:45 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-1rkc8u5PjVCL23CQbsISkzd71XkqIfPK98cHm1zFDz8

-2-0-0	5-0-10	9-8-15	14-8-0	19-7-1	24-3-6	29-0-14
2-0-0	5-0-10	4-8-5	4-11-1	4-11-1	4-8-5	4-9-8

Scale = 1:56.6



7-3-11	14-8-0	22-0-5	29-0-14
7-3-11	7-4-5	7-4-5	7-0-9

Plate Offsets (X,Y)-- [2:0-0-9,Edge], [2:0-7-3,0-1-14], [10:0-0-11,Edge], [10:0-3-4,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	0.79	Vert(LL)	-0.32	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.63	11-12	>551	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.38	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 139 lb	FT = 20%

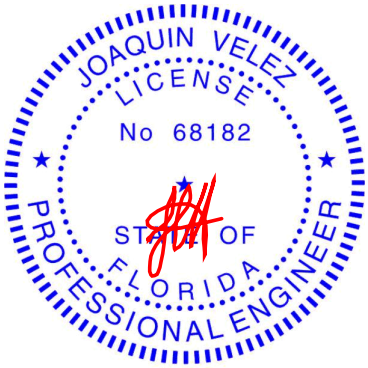
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-12: 2x4 SP M 31
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-11-7 oc bracing.

REACTIONS. (size) 2=0-8-0, 10=0-4-14
Max Horz 2=141(LC 12)
Max Uplift 2=-267(LC 12), 10=-221(LC 13)
Max Grav 2=1187(LC 1), 10=1072(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3338/745, 3-5=-3109/648, 5-6=-2332/448, 6-7=-2331/459, 7-9=-3077/596, 9-10=-3238/656
BOT CHORD 2-13=-740/2992, 12-13=-561/2700, 11-12=-436/2685, 10-11=-547/2912
WEBS 6-12=-295/1795, 7-12=-616/291, 7-11=-53/368, 5-12=-626/284, 5-13=-42/403

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 29-0-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2, 10 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 267 lb uplift at joint 2 and 221 lb uplift at joint 10.



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Date:
May 19,2022

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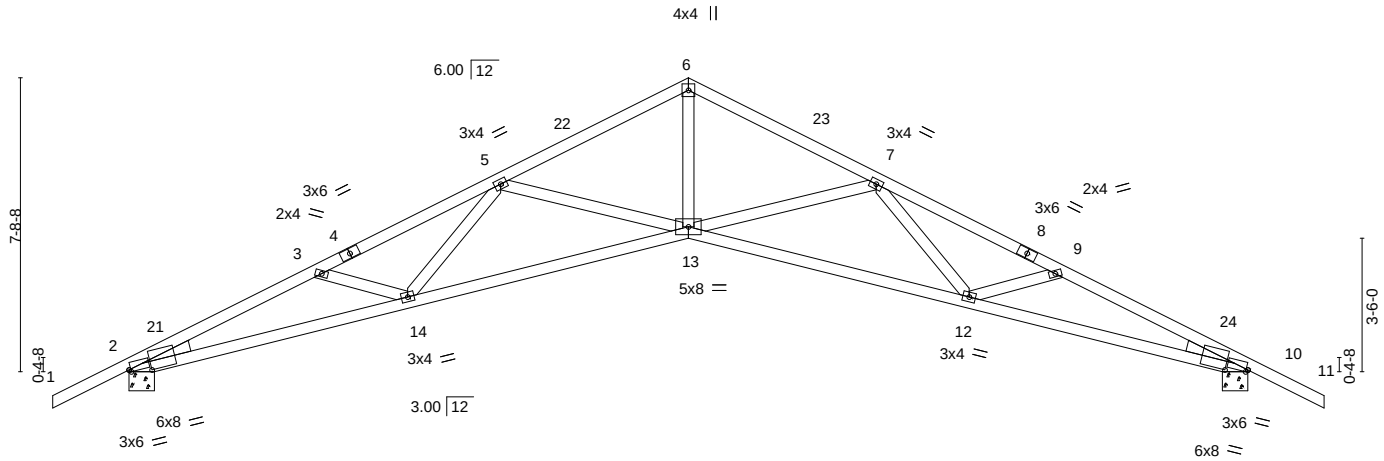
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T10	Scissor	4	1	T27761654
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:47 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-_EsMZa7gF6S3HMLpiHLwpOiTSLVRmZmdcS5OrwzFDz6

-2-0-0	5-0-10	9-8-15	14-8-0	19-7-1	24-3-6	29-4-0	31-4-0
2-0-0	5-0-10	4-8-5	4-11-1	4-11-1	4-8-5	5-0-10	2-0-0

Scale = 1:60.4



7-3-11	14-8-0	22-0-5	29-4-0
7-3-11	7-4-5	7-4-5	7-3-11

Plate Offsets (X,Y)-- [2:0-0-9,Edge], [2:0-7-0,0-1-11], [10:0-0-9,Edge], [10:0-7-0,0-1-11]

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	0.79	Vert(LL)	-0.33	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.64	12-13	>550	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.38	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 144 lb	FT = 20%

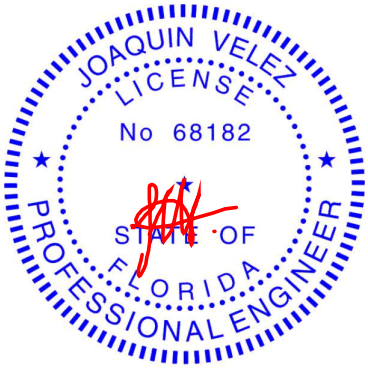
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-2-14 oc bracing.

REACTIONS. (size) 2=0-8-0, 10=0-8-0
Max Horz 2=124(LC 16)
Max Uplift 2=-268(LC 12), 10=-268(LC 13)
Max Grav 2=1193(LC 1), 10=1193(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3359/732, 3-5=-3131/634, 5-6=-2358/409, 6-7=-2358/422, 7-9=-3131/539, 9-10=-3359/619
BOT CHORD 2-14=-710/3011, 13-14=-530/2722, 12-13=-372/2722, 10-12=-481/3011
WEBS 6-13=-282/1819, 7-13=-625/289, 7-12=-53/401, 5-13=-625/284, 5-14=-42/401

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 31-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2, 10 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 268 lb uplift at joint 2 and 268 lb uplift at joint 10.



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May 19,2022

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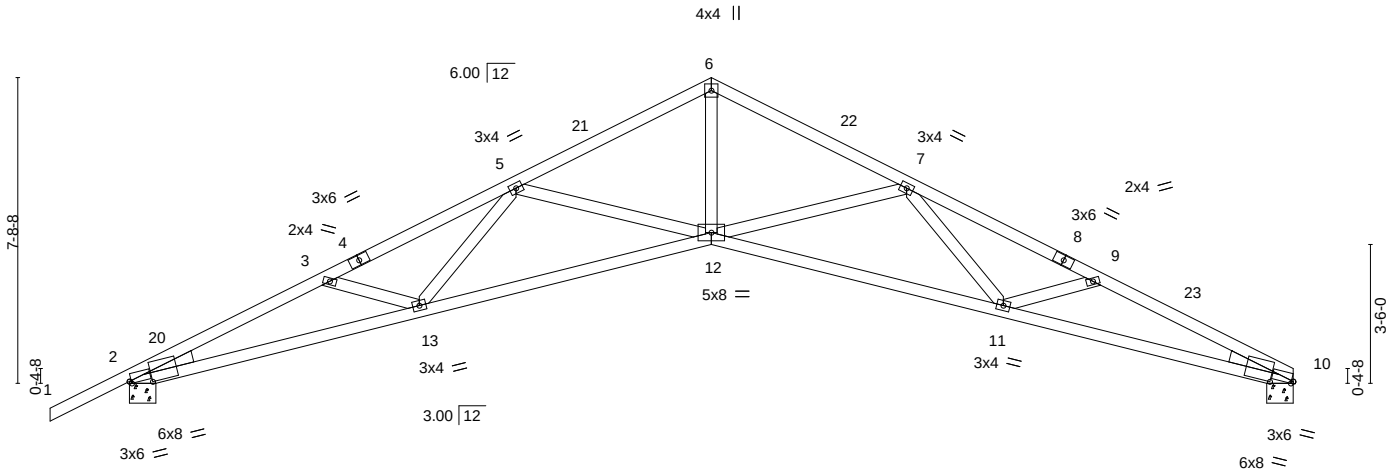
Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T11	Scissor	5	1	T27761655
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:49 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayl0PE-wc_7_F8wnjinXgVBqiNOupnpu9BtESBw4maUvozFDz4

-2-0-0	5-0-10	9-8-15	14-8-0	19-7-1	24-3-6	29-4-0
2-0-0	5-0-10	4-8-5	4-11-1	4-11-1	4-8-5	5-0-10

Scale = 1:58.1



7-3-11	14-8-0	22-0-5	29-4-0
7-3-11	7-4-5	7-4-5	7-3-11

Plate Offsets (X,Y)-- [2:0-0-9,Edge], [2:0-6-13,0-1-12], [10:0-0-9,Edge], [10:0-6-13,0-1-12]

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	0.80	Vert(LL)	-0.33	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.64	12-13	>548	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.38	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 140 lb	FT = 20%

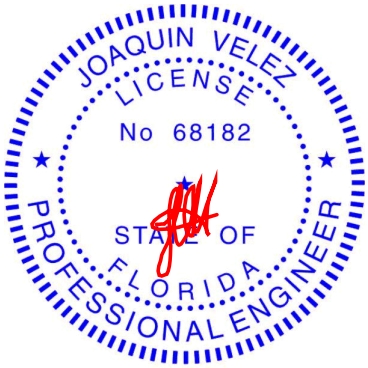
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-0-11 oc bracing.

REACTIONS. (size) 2=0-8-0, 10=0-8-0
Max Horz 2=138(LC 16)
Max Uplift 2=-268(LC 12), 10=-224(LC 13)
Max Grav 2=1197(LC 1), 10=1082(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3373/747, 3-5=-3145/650, 5-6=-2373/449, 6-7=-2373/460, 7-9=-3186/608, 9-10=-3430/683
BOT CHORD 2-13=-739/3024, 12-13=-561/2736, 11-12=-437/2751, 10-11=-576/3083
WEBS 6-12=-298/1831, 7-12=-641/295, 7-11=-65/409, 5-12=-625/284, 5-13=-41/401

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 29-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2, 10 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 268 lb uplift at joint 2 and 224 lb uplift at joint 10.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 19,2022

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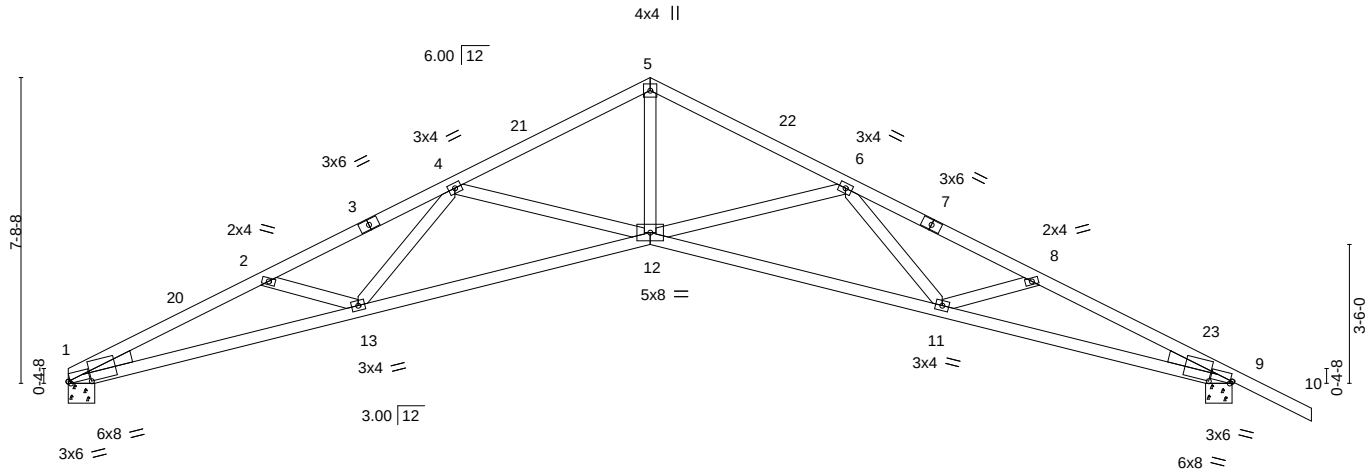
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T12	Scissor	4	1	T27761656
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:50 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayl0PE-OpYVBb9YY1qe8q4ONQudR0K_eYX6zvQ3JQJ2SEzFDz3

5-0-10	9-8-15	14-8-0	19-7-1	24-3-6	29-4-0	31-4-0
5-0-10	4-8-5	4-11-1	4-11-1	4-8-5	5-0-10	2-0-0

Scale = 1:58.1



7-3-11	14-8-0	22-0-5	29-4-0
7-3-11	7-4-5	7-4-5	7-3-11

Plate Offsets (X,Y)-- [1:0-0-9,Edge], [1:0-6-14,0-1-10], [9:0-0-9,Edge], [9:0-6-14,0-1-10]

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)	-0.33	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.64	11-12	>548	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.39	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 140 lb	FT = 20%

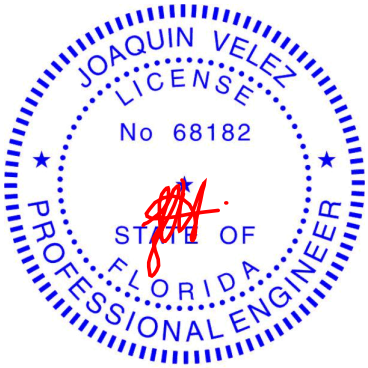
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-0-8 oc bracing.

REACTIONS. (size) 1=0-8-0, 9=0-8-0
Max Horz 1=-138(LC 13)
Max Uplift 1=-224(LC 12), 9=-268(LC 13)
Max Grav 1=1082(LC 1), 9=1197(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3430/764, 2-4=-3186/660, 4-5=-2373/428, 5-6=-2373/429, 6-8=-3145/557, 8-9=-3373/621
BOT CHORD 1-13=-744/3083, 12-13=-544/2751, 11-12=-389/2736, 9-11=-496/3024
WEBS 5-12=-288/1831, 6-12=-625/289, 6-11=-53/401, 4-12=-641/292, 4-13=-57/409

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 31-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 1, 9 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 224 lb uplift at joint 1 and 268 lb uplift at joint 9.



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May 19,2022

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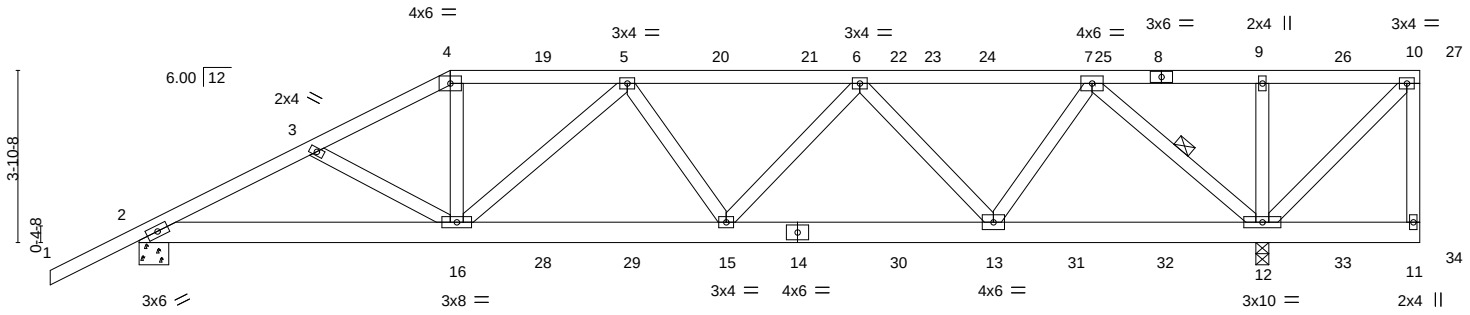
Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T14	Half Hip Girder	1	1	T27761657
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:52 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-KBfFcHBo4e4MO8EmVrw5WRPMbM91RrGMmko9W7zFDz1

-2-0-0	3-11-15	7-0-0	10-11-13	16-2-9	21-5-4	25-3-4	28-9-12
2-0-0	3-11-15	3-0-1	3-11-13	5-2-13	5-2-11	3-10-0	3-6-8

Scale = 1:51.8



7-0-0	13-2-8	19-2-10	25-3-4	25-5-0	28-9-12
7-0-0	6-2-8	6-0-2	6-0-10	0-1-12	3-4-12

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	0.70	Vert(LL)	-0.14	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.27	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 179 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

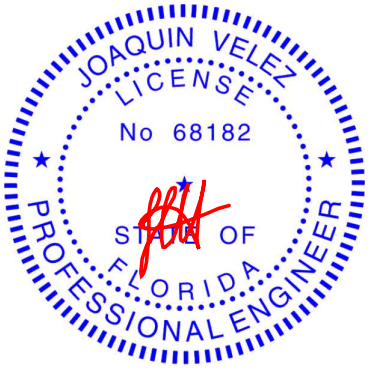
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-1 oc bracing.
WEBS 1 Row at midpt 7-12

REACTIONS. (size) 2=0-8-0, 12=0-3-8
Max Horz 2=151(LC 8)
Max Uplift 2=-515(LC 8), 12=-727(LC 5)
Max Grav 2=1771(LC 1), 12=2723(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3340/964, 3-4=-3165/915, 4-5=-2849/851, 5-6=-3381/917, 6-7=-2307/596, 7-9=-86/286, 9-10=-86/286
BOT CHORD 2-16=-936/2952, 15-16=-1000/3392, 13-15=-877/3097, 12-13=-445/1547
WEBS 4-16=-247/1084, 5-16=-735/254, 6-15=-63/502, 6-13=-1211/448, 7-13=-297/1420, 7-12=-2482/718, 9-12=-425/214, 10-12=-426/131

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 515 lb uplift at joint 2 and 727 lb uplift at joint 12.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 88 lb up at 13-0-12, 106 lb down and 88 lb up at 15-0-12, 106 lb down and 87 lb up at 17-0-12, 106 lb down and 88 lb up at 19-0-12, 106 lb down and 88 lb up at 21-0-12, 106 lb down and 88 lb up at 23-0-12, 106 lb down and 88 lb up at 25-0-12, and 106 lb down and 88 lb up at 27-0-12, and 125 lb down and 87 lb up at 28-4-4 on top chord, and 297 lb down and 145 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, 85 lb down at 25-0-12, and 85 lb down at 27-0-12, and 99 lb down at 28-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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



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May 19,2022

Continued on page 2

MiTek
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Tampa, FL 36610

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-54, 4-10=-54, 2-11=-20

Concentrated Loads (lb)

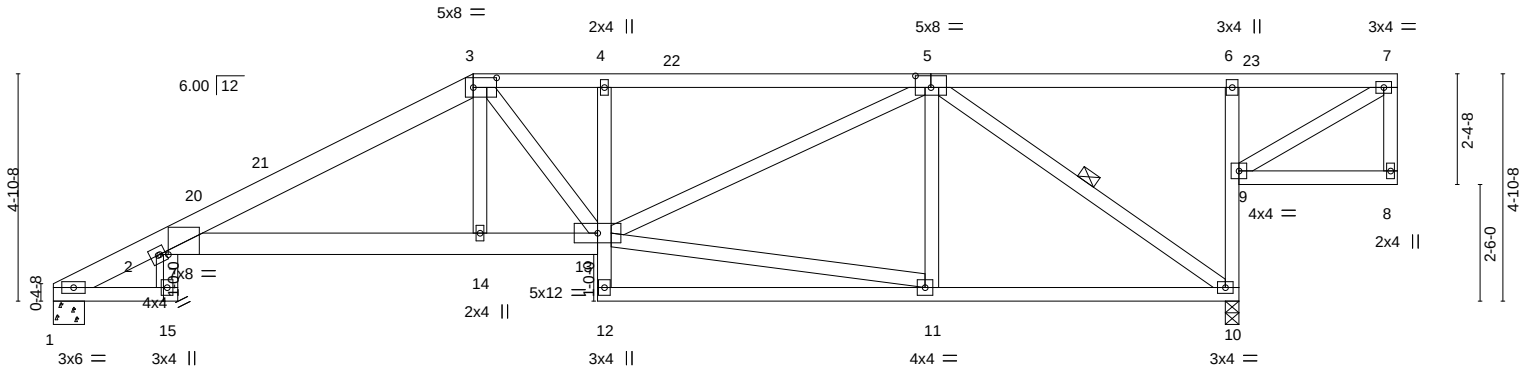
Vert: 4=-106(F) 8=-106(F) 14=-61(F) 16=-295(F) 5=-106(F) 15=-61(F) 13=-61(F) 12=-61(F) 9=-106(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-106(F) 24=-106(F) 25=-106(F) 26=-106(F) 27=-125(F) 28=-61(F) 29=-61(F) 30=-61(F) 31=-61(F) 32=-61(F) 33=-61(F) 34=-68(F)

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T15	Half Hip	1	1	T27761658
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:53 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-oODepdBRryCD?Hpz3YSK3fyapmXlAKOW?NYi2ZzFDz0

2-8-0	9-0-0	11-8-0	18-10-0	25-5-0	28-9-12
2-8-0	6-4-0	2-8-0	7-2-0	6-7-0	3-4-12

Scale = 1:49.4



2-8-0	9-0-0	11-8-0	18-10-0	25-5-0	28-9-12
2-8-0	6-4-0	2-8-0	7-2-0	6-7-0	3-4-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.19	2-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.36	2-14	>838	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.19	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 176 lb	FT = 20%

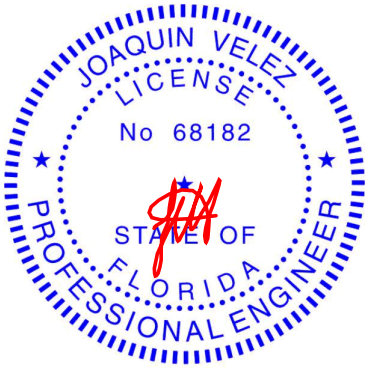
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
2-15: 2x6 SP No.2, 2-13: 2x6 SP M 26, 4-12,6-10: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 5-10

REACTIONS. (size) 1=0-8-0, 10=0-3-8
Max Horz 1=153(LC 12)
Max Uplift 1=-218(LC 12), 10=-311(LC 9)
Max Grav 1=916(LC 1), 10=1191(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-484/14, 2-3=-1807/474, 3-4=-1561/455, 4-5=-1581/467
BOT CHORD 2-14=-479/1588, 13-14=-484/1609, 4-13=-283/145, 10-11=-242/962, 9-10=-424/155, 6-9=-300/149
WEBS 3-14=-109/522, 11-13=-219/781, 5-13=-256/692, 5-10=-1240/309

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 28-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 1 and 311 lb uplift at joint 10.



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Date:
May 19,2022

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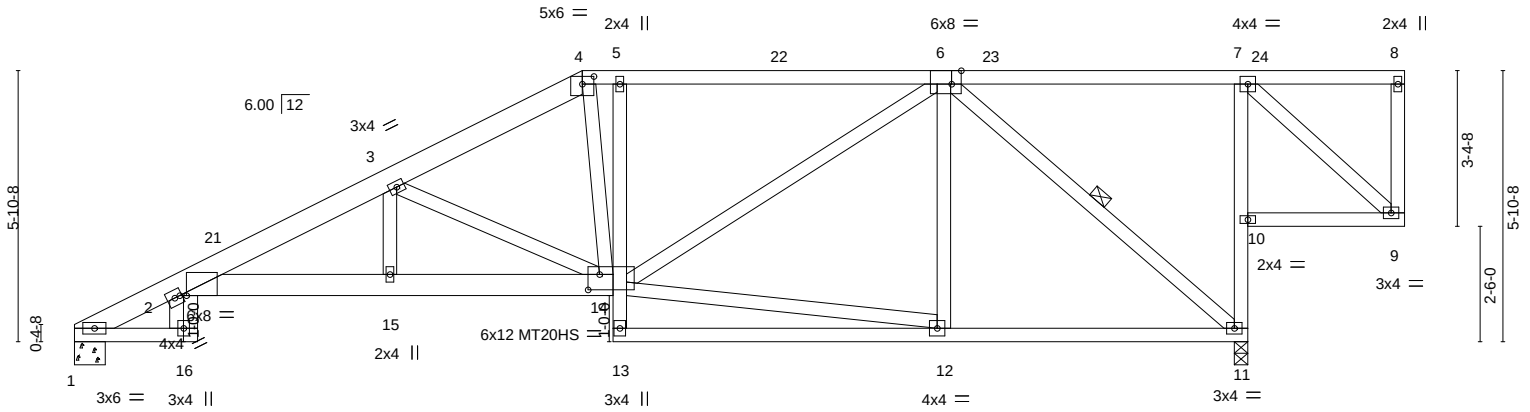
Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T16	Half Hip	1	1	T27761659
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:54 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayl0PE-Gan01zC3cGK4dRO9cFzZbsVlaAtWvmMfE1HFb0zFDz?

2-8-0	6-10-0	11-0-0	11-8-0	18-10-0	25-5-0	28-9-12
2-8-0	4-2-0	4-2-0	0-8-0	7-2-0	6-7-0	3-4-12

Scale = 1:49.9



2-8-0	6-10-0	11-0-0	11-8-0	18-10-0	25-5-0	28-9-12
2-8-0	4-2-0	4-2-0	0-8-0	7-2-0	6-7-0	3-4-12

Plate Offsets (X,Y)-- [2:0-1-12,0-0-0], [4:0-3-0,0-2-0], [6:0-2-8,Edge], [14:0-3-0,0-4-0]

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	0.48	Vert(LL)	-0.14	2-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.26	2-15	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.16	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 193 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 1-4: 2x6 SP M 26
BOT CHORD	2x4 SP No.2 *Except* 2-16: 2x8 SP 2400F 2.0E, 2-14: 2x6 SP M 26, 5-13,7-11: 2x4 SP No.3
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11,9-10.
WEBS	1 Row at midpt 6-11

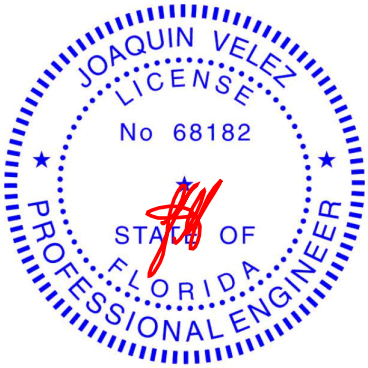
REACTIONS. (size) 1=0-8-0, 11=0-3-8
Max Horz 1=187(LC 12)
Max Uplift 1=-215(LC 12), 11=-305(LC 9)
Max Grav 1=915(LC 1), 11=1191(LC 1)

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

TOP CHORD	2-20=-513/0, 2-3=-2242/615, 3-4=-1348/379, 4-5=-1245/394, 5-6=-1251/398
BOT CHORD	2-15=-687/2034, 14-15=-687/2034, 5-14=-362/185, 11-12=-214/788, 10-11=-420/153, 7-10=-374/163
WEBS	3-14=-995/363, 6-14=-218/549, 6-11=-1101/287, 3-15=-63/402, 4-14=-205/639, 12-14=-199/685

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 28-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 1 and 305 lb uplift at joint 11.



Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date:
May 19,2022

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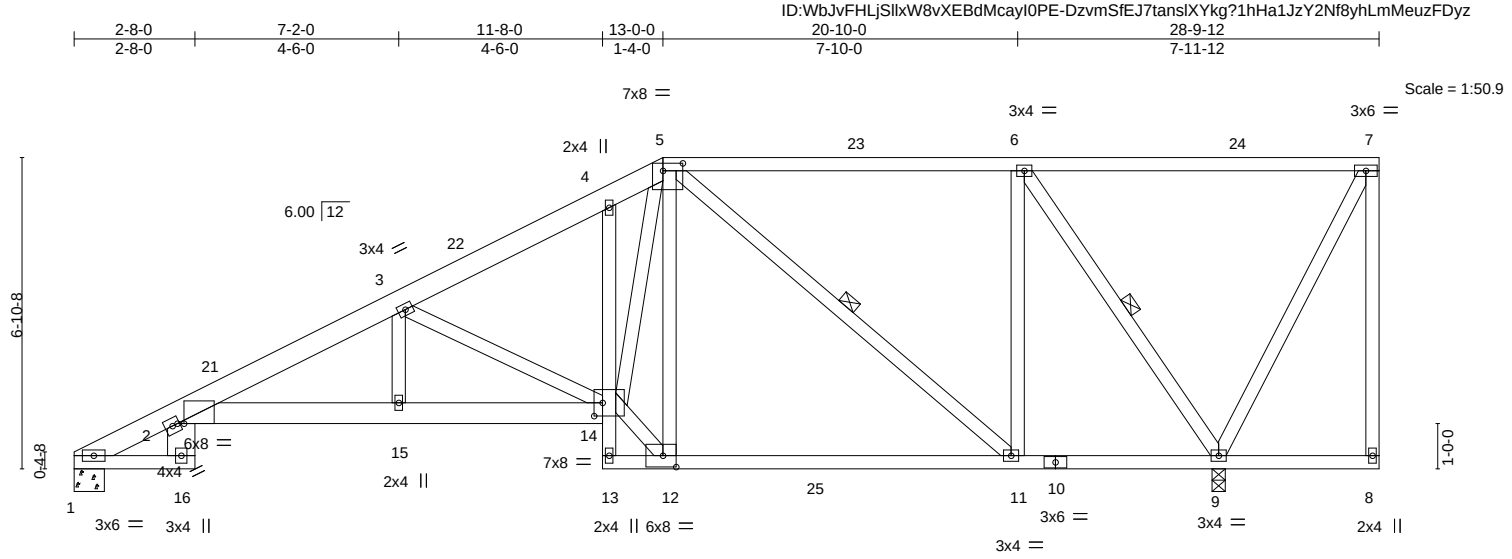
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T17	Half Hip	1	1	T27761660
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:56 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-DzvmSfEJ7tanslXYkg?1hHa1JzY2Nf8yhLmMeuzFDyz



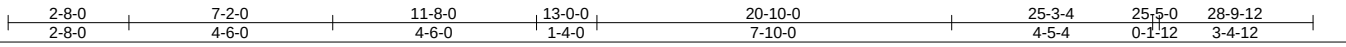


Plate Offsets (X,Y)-- [2:0-1-12,0-0-0], [5:0-5-4,0-2-0], [12:0-3-8,0-3-0], [14:0-2-4,0-3-8]

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	0.72	Vert(LL)	-0.17	2-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.30	2-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.19	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 204 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP M 26 *Except* 5-7: 2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-16: 2x8 SP 2400F 2.0E, 2-14: 2x6 SP M 26, 4-13: 2x4 SP No.3
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.
WEBS	1 Row at midpt 5-11, 6-9

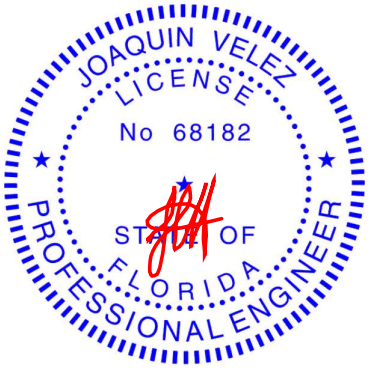
REACTIONS. (size) 1=0-8-0, 9=0-3-8
Max Horz 1=222(LC 12)
Max Uplift 1=-210(LC 12), 9=-297(LC 9)
Max Grav 1=1003(LC 2), 9=1300(LC 2)

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

TOP CHORD	2-20=-557/0, 2-3=-2396/605, 3-4=-1469/369, 4-5=-1344/375, 5-6=-573/151
BOT CHORD	2-15=-709/2187, 14-15=-709/2187, 11-12=-286/990, 9-11=-151/573
WEBS	3-14=-1073/378, 12-14=-300/1169, 5-14=-377/1097, 5-12=-465/242, 5-11=-544/177, 6-11=-71/584, 6-9=-1185/292, 3-15=-70/465

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 28-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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 210 lb uplift at joint 1 and 297 lb uplift at joint 9.



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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T18	Half Hip	1	1	T27761661
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:57 2022 Page 1
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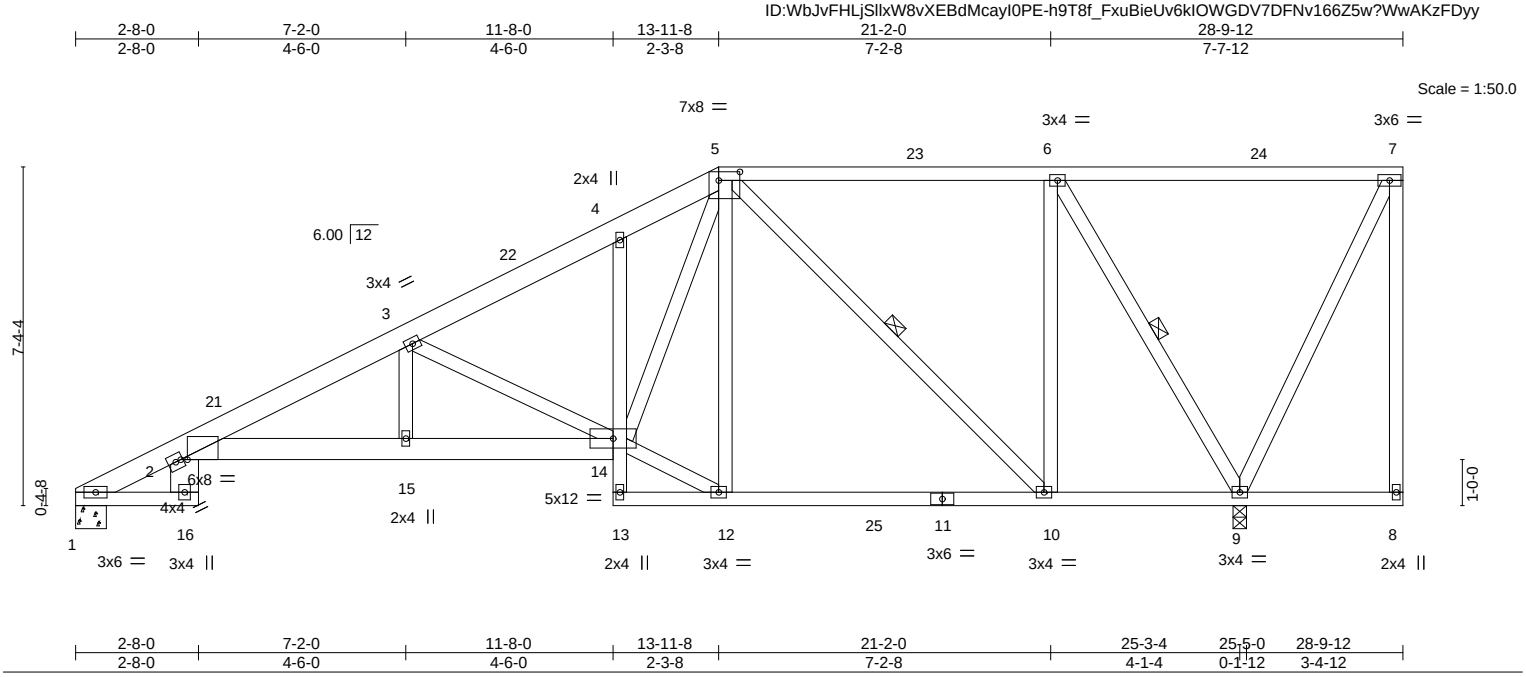


Plate Offsets (X,Y)-- [2:0-1-12,0-0-0], [5:0-5-8,0-2-4]

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	0.64	Vert(LL)	-0.17	2-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.29	2-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.18	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 210 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP M 26 *Except* 5-7: 2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-16: 2x8 SP 2400F 2.0E, 2-14: 2x6 SP M 26, 4-13: 2x4 SP No.3
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.
WEBS	1 Row at midpt 5-10, 6-9

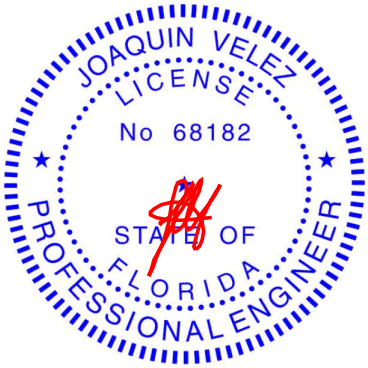
REACTIONS. (size) 1=0-8-0, 9=0-3-8
Max Horz 1=238(LC 12)
Max Uplift 1=-206(LC 12), 9=-294(LC 9)
Max Grav 1=1001(LC 2), 9=1302(LC 2)

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

TOP CHORD	2-20=-556/0, 2-3=-2385/600, 3-4=-1475/368, 4-5=-1404/406, 5-6=-496/134
BOT CHORD	2-15=-722/2177, 14-15=-722/2177, 10-12=-267/902, 9-10=-134/496
WEBS	3-14=-1049/374, 12-14=-254/937, 5-14=-348/999, 5-10=-567/186, 6-10=-91/618, 6-9=-1149/284, 3-15=-68/458

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 13-11-8, Exterior(2R) 13-11-8 to 18-2-7, Interior(1) 18-2-7 to 28-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 1 and 294 lb uplift at joint 9.



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May 19,2022

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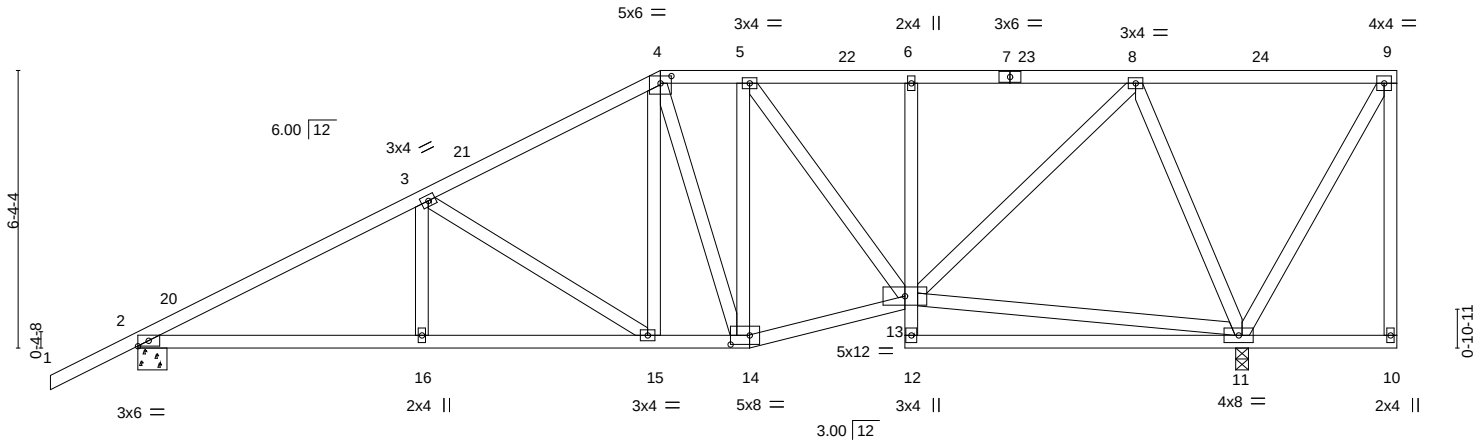
Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T19	Half Hip	1	1	T27761662
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:58 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-9L1XtKFZfUqV63hwr51VmifTRnG6rU4F8fFTjnzFDyx

-2-0-0 2-0-0 | 6-6-0 6-6-0 | 11-11-8 5-5-8 | 14-0-0 2-0-8 | 17-6-10 3-6-10 | 22-10-0 5-3-6 | 28-9-12 5-11-12

Scale = 1:52.7



6-6-0 6-6-0 | 11-11-8 5-5-8 | 14-0-0 2-0-8 | 17-6-10 3-6-10 | 25-3-4 7-8-10 | 25-5-0 0-1-12 | 28-9-12 3-4-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.09	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.18	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 197 lb	FT = 20%

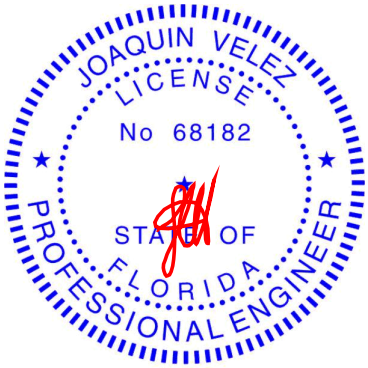
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-12: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-6-10 oc bracing: 2-16
8-7-14 oc bracing: 15-16.

REACTIONS. (size) 2=0-8-0, 11=0-3-8
Max Horz 2=236(LC 12)
Max Uplift 2=-263(LC 12), 11=-303(LC 9)
Max Grav 2=1028(LC 1), 11=1202(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1599/371, 3-4=-1132/301, 4-5=-919/285, 5-6=-900/268, 6-8=-896/267
BOT CHORD 2-16=-471/1370, 15-16=-471/1370, 14-15=-299/935, 13-14=-294/949
WEBS 3-16=0/254, 3-15=-503/200, 4-15=-78/349, 8-13=-254/851, 8-11=-1014/315

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-11-8, Exterior(2R) 11-11-8 to 16-2-7, Interior(1) 16-2-7 to 28-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 2 and 303 lb uplift at joint 11.



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Date:
May 19,2022

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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T20	Roof Special	1	1	T27761663
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:14:59 2022 Page 1
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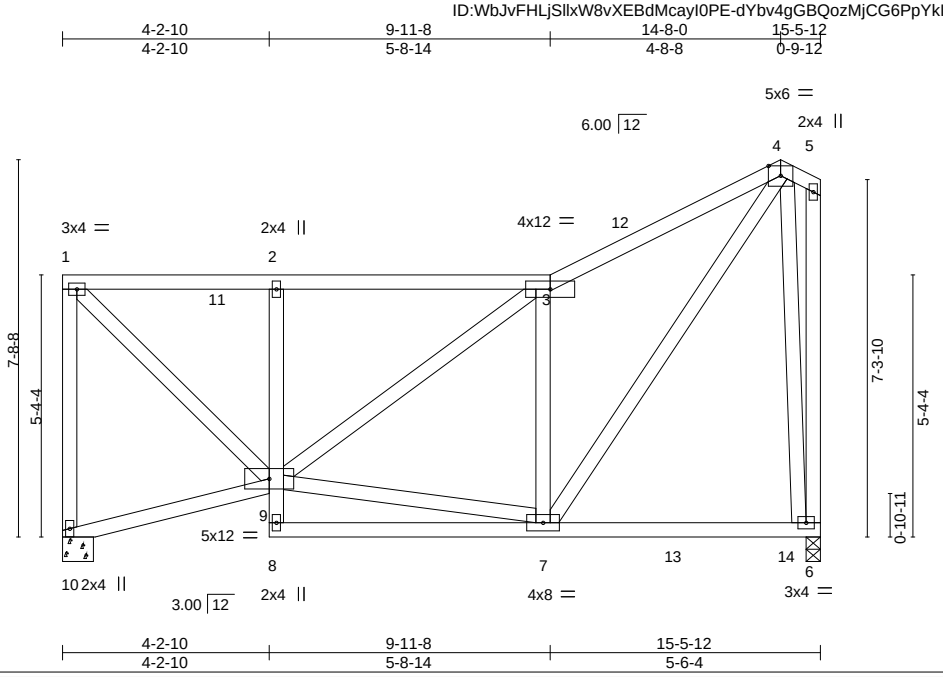


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.07	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 128 lb	FT = 20%

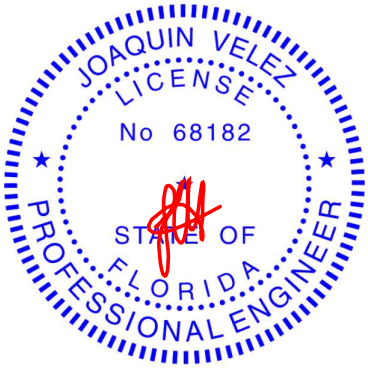
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-8: 2x4 SP No.3
WEBS 2x4 SP No.3

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) 10=0-7-9, 6=0-3-8
Max Horz 10=74(LC 12)
Max Uplift 10=-123(LC 8), 6=-173(LC 12)
Max Grav 10=604(LC 2), 6=631(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-531/178, 1-2=-473/128, 2-3=-471/130, 3-4=-561/133
BOT CHORD 2-9=-306/164
WEBS 1-9=-178/654, 7-9=-138/415, 3-7=-501/253, 4-7=-227/746, 4-6=-549/291

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-8-0, Exterior(2E) 14-8-0 to 15-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 10 and 173 lb uplift at joint 6.



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Date:
May 19,2022

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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T21	Roof Special	1	1	T27761664
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:15:00 2022 Page 1
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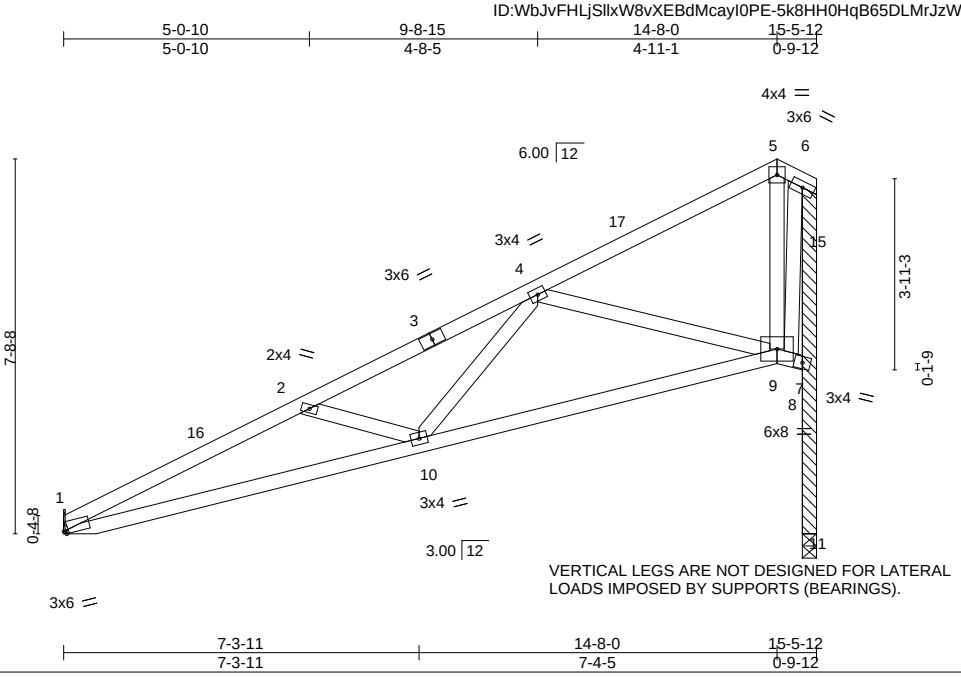


VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).

Plate Offsets (X,Y)-- [1:0-0-9,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	0.28	Vert(LL)	-0.09	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.20	9-10	>909	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 6-11: 2x4 SP No.2
OTHERS	2x4 SP No.2
LBR SCAB	6-11 2x4 SP No.2 one side

BRACING-

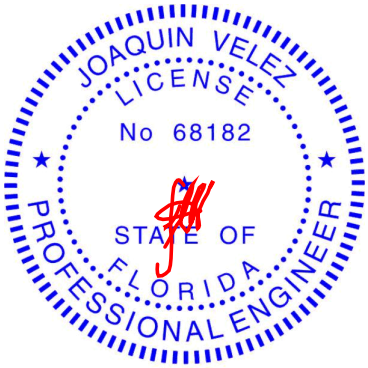
TOP CHORD	Structural wood sheathing directly applied or 4-6-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 11=0-3-8
Max Horz 1=246(LC 12)
Max Uplift 1=-92(LC 12), 11=-205(LC 12)
Max Grav 1=567(LC 1), 11=567(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1540/479, 2-4=-1237/348, 7-11=-567/263, 6-7=-694/276
BOT CHORD 1-10=-653/1378, 9-10=-400/825
WEBS 2-10=-274/211, 4-10=-107/538, 4-9=-708/350, 6-8=-264/591

NOTES-

1) Attached 7-1-7 scab 6 to 11, front face(s) 2x4 SP No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c..
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-8-0, Exterior(2E) 14-8-0 to 15-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 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) Bearing at joint(s) 11 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 92 lb uplift at joint 1 and 205 lb uplift at joint 11.



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May 19,2022

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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T22	Half Hip Girder	1	1	T27761665
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:15:01 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-ZwifVMISyPD4zWQVXDbCOLH_6_Lr2_WhrdU7J6zFDyu

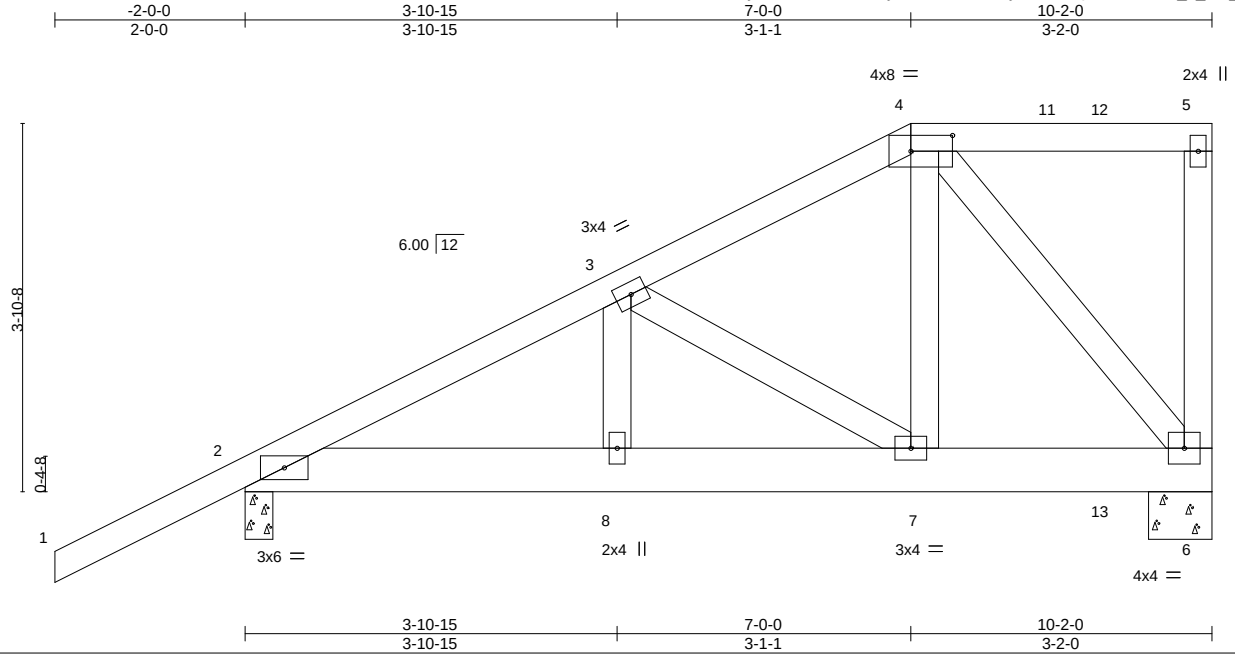


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]

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	0.27	Vert(LL)	-0.01	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.02	8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 66 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

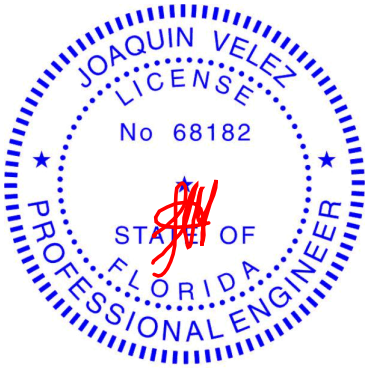
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-8-0
Max Horz 2=151(LC 8)
Max Uplift 2=-180(LC 8), 6=-378(LC 5)
Max Grav 2=622(LC 1), 6=931(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-821/264, 3-4=-578/198, 5-6=-287/151
BOT CHORD 2-8=-281/703, 7-8=-281/703, 6-7=-195/503
WEBS 3-7=-257/115, 4-7=-162/555, 4-6=-747/289

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 2 and 378 lb uplift at joint 6.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 88 lb up at 7-0-0, and 107 lb down and 85 lb up at 9-0-12, and 133 lb down and 86 lb up at 10-0-4 on top chord, and 297 lb down and 145 lb up at 7-0-0, and 86 lb down at 9-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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: 1-4=-54, 4-5=-54, 2-6=-20
Concentrated Loads (lb)
Vert: 5=-133(F) 7=-295(F) 4=-106(F) 12=-107(F) 13=-61(F)



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May 19,2022

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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T23	Half Hip	1	1	T27761666
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:15:02 2022 Page 1
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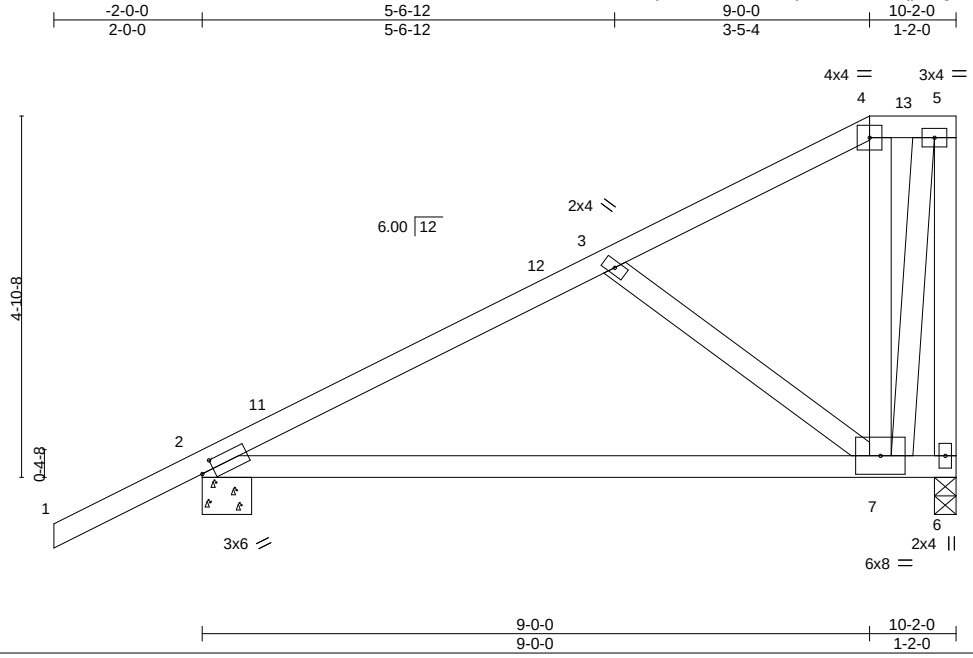


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.13	7-10	>947	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.26	7-10	>461	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 61 lb	FT = 20%

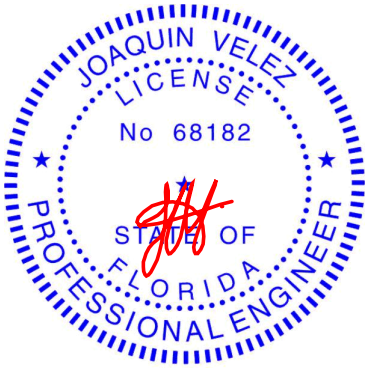
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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) 6=0-3-8, 2=0-8-0
Max Horz 2=185(LC 12)
Max Uplift 6=-123(LC 12), 2=-112(LC 12)
Max Grav 6=360(LC 1), 2=490(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-406/81, 5-6=-555/150
BOT CHORD 2-7=-200/333
WEBS 3-7=-299/208, 5-7=-148/535

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 10-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 6 and 112 lb uplift at joint 2.



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Date:
May 19,2022

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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T24	Monopitch	1	1	T27761667
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:15:02 2022 Page 1
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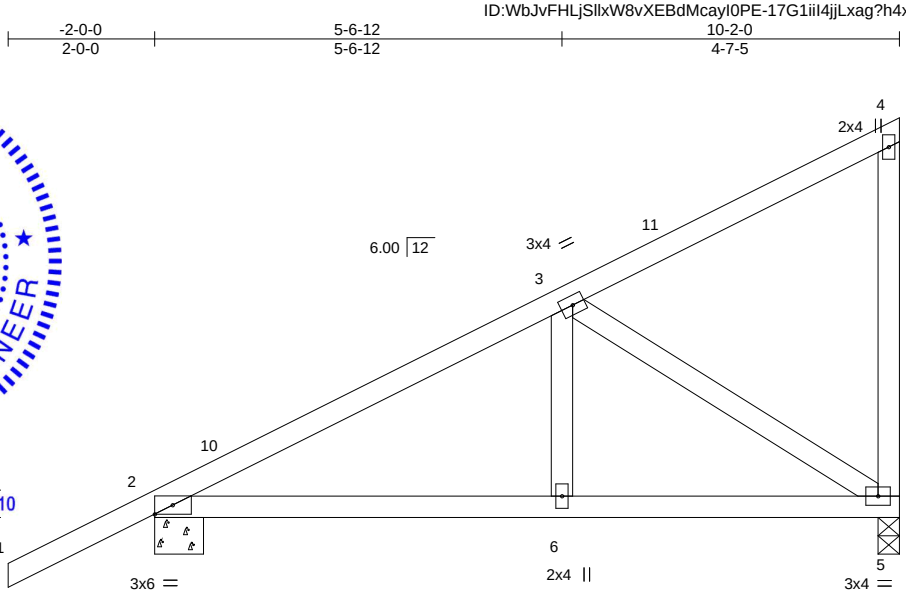

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.02	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.05	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 54 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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=0-8-0, 5=0-3-8
Max Horz 2=202(LC 12)
Max Uplift 2=-104(LC 12), 5=-139(LC 12)
Max Grav 2=490(LC 1), 5=360(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-470/55
BOT CHORD 2-6=-202/371, 5-6=-202/371
WEBS 3-5=-433/234

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 2 and 139 lb uplift at joint 5.

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Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T25	Monopitch Girder	1	2	T27761668
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:15:03 2022 Page 1
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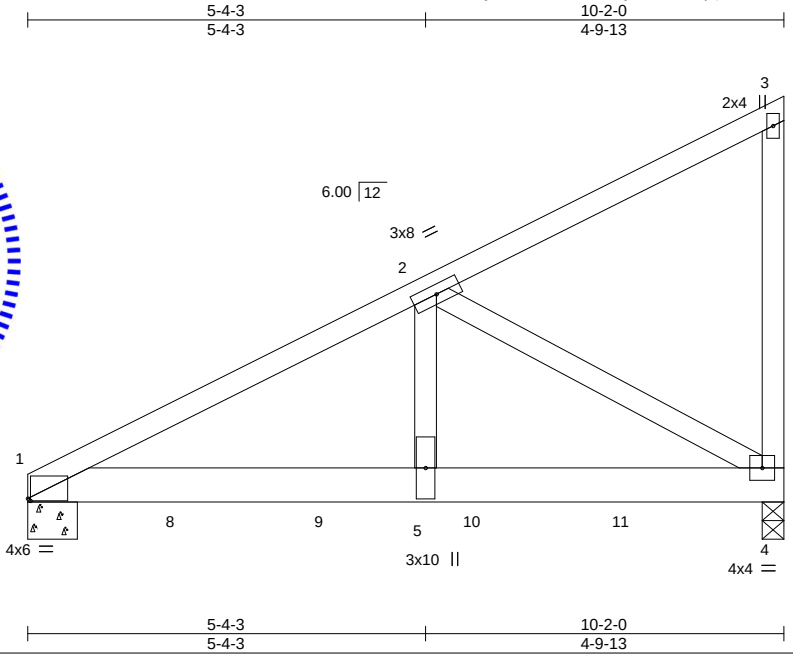

Plate Offsets (X,Y)-- [1:0-0-7,0-0-6]

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	0.33	Vert(LL)	-0.05	5-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.10	5-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 117 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

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) 1=0-8-0, 4=0-3-8
Max Horz 1=172(LC 23)
Max Uplift 1=-490(LC 8), 4=-499(LC 8)
Max Grav 1=2387(LC 1), 4=2087(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3427/675
BOT CHORD 1-5=-724/3054, 4-5=-724/3054
WEBS 2-5=-572/2902, 2-4=-3496/827

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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
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) 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 490 lb uplift at joint 1 and 499 lb uplift at joint 4.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1062 lb down and 244 lb up at 2-0-4, 1062 lb down and 244 lb up at 4-0-4, and 1062 lb down and 244 lb up at 6-0-4, and 547 lb down and 112 lb up at 8-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 1-4=-20

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Continued on page 2

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Tampa, FL 36610

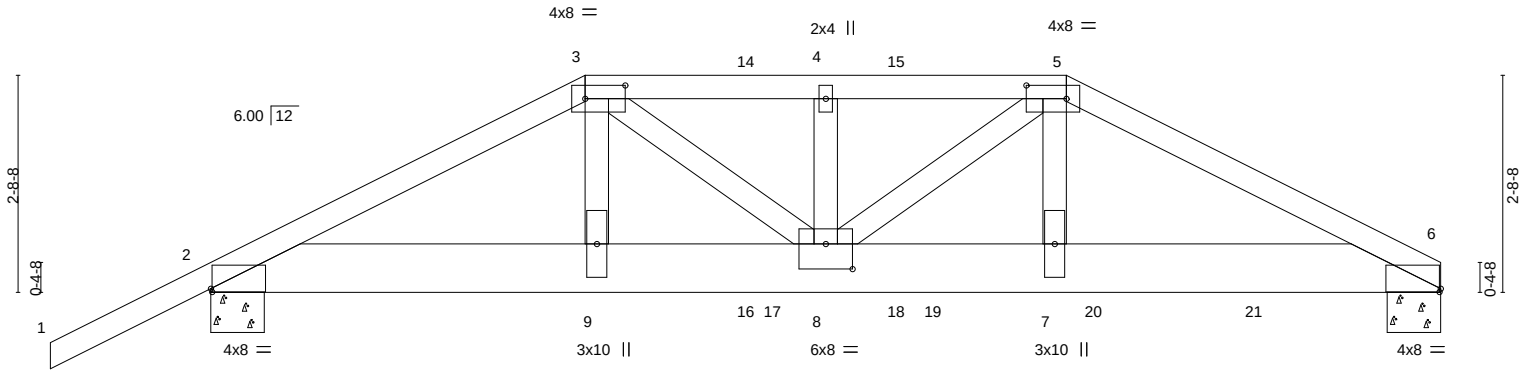
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 8=-1062(B) 9=-1062(B) 10=-1062(B) 11=-547(B)

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T26	Hip Girder	1	2	T27761669
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:15:05 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-ShyALkLy0ejWR7jGm3f8YBSeCbhk_l2HlFSLStzFDyq

-2-0-0	4-8-0	7-8-0	10-8-0	15-4-0
2-0-0	4-8-0	3-0-0	3-0-0	4-8-0

Scale = 1:28.7



4-8-0	7-8-0	10-8-0	15-4-0
4-8-0	3-0-0	3-0-0	4-8-0

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

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	0.39	Vert(LL)	-0.09	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.17	8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 186 lb	FT = 20%

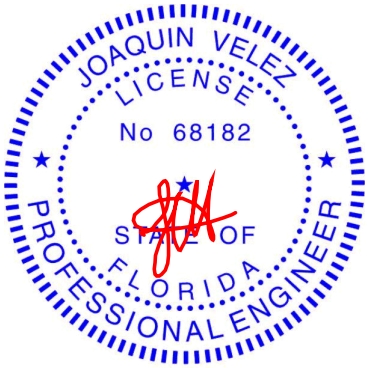
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-8-0, 2=0-8-0
Max Horz 2=64(LC 31)
Max Uplift 6=-974(LC 9), 2=-757(LC 8)
Max Grav 6=4011(LC 1), 2=2908(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6053/1535, 3-4=-7530/1901, 4-5=-7530/1901, 5-6=-7540/1862
BOT CHORD 2-9=-1348/5365, 8-9=-1360/5421, 7-8=-1645/6882, 6-7=-1608/6713
WEBS 3-9=-192/866, 3-8=-676/2685, 5-8=-289/877, 5-7=-569/2614

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: 2x8 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 974 lb uplift at joint 6 and 757 lb uplift at joint 2.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 63 lb up at 4-8-0, 45 lb down and 63 lb up at 6-8-12, and 45 lb down and 63 lb up at 8-7-4, and 64 lb down and 63 lb up at 10-8-0 on top chord, and 105 lb down and 26 lb up at 4-8-0, 41 lb down at 6-8-12, 2188 lb down and 582 lb up at 7-0-12, 41 lb down at 8-7-4, 1052 lb down and 250 lb up at 9-0-12, 105 lb down and 26 lb up at 10-7-4, and 1137 lb down and 247 lb up at 11-0-12, and 1052 lb down and 244 lb up at 13-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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Date: May 19,2022

LOAD CASE(S) Standard

Continued on page 2

MiTek
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LOAD CASE(S) Standard

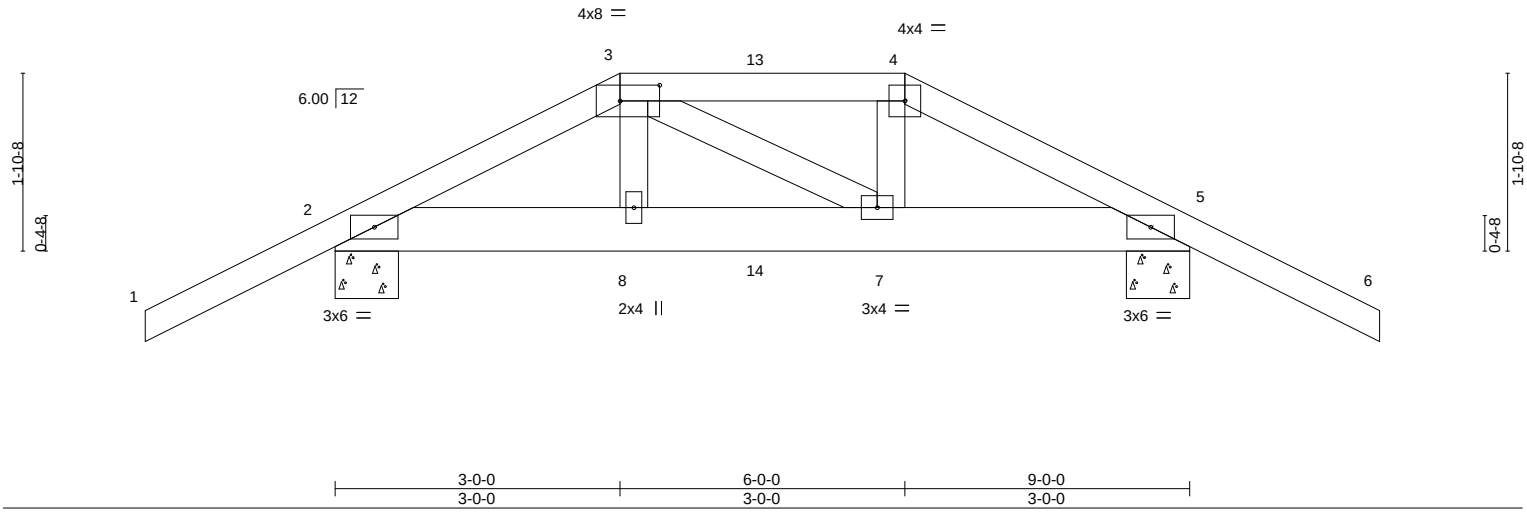
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 5-6=-54, 2-6=-20
   Concentrated Loads (lb)
   Vert: 3=-45(B) 5=-45(B) 9=-48(B) 7=-48(B) 14=-45(B) 15=-45(B) 16=-28(B) 17=-2188(F) 18=-28(B) 19=-1052(F) 20=-1052(F) 21=-1052(F)

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T27	Hip Girder	1	1	T27761670
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:15:07 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-O43wlPMDYFzEhRtftUicdcX0bPPDSlkZDZxRXlzFDyo

-2-0-0 3-0-0 6-0-0 9-0-0 11-0-0
2-0-0 3-0-0 3-0-0 3-0-0 2-0-0

Scale = 1:24.3



3-0-0 6-0-0 9-0-0
3-0-0 3-0-0 3-0-0

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

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	0.27	Vert(LL)	0.01	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

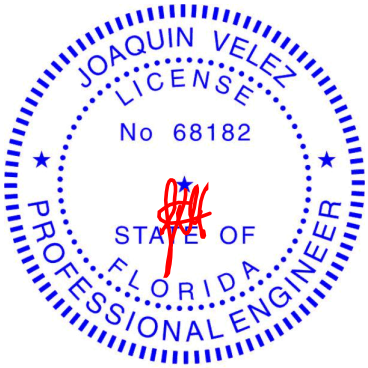
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-8-0, 5=0-8-0
Max Horz 2=-37(LC 13)
Max Uplift 2=-179(LC 8), 5=-179(LC 9)
Max Grav 2=443(LC 19), 5=443(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-456/246, 3-4=-403/231, 4-5=-469/244
BOT CHORD 2-8=-192/434, 7-8=-197/443, 5-7=-179/444

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 2 and 179 lb uplift at joint 5.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 21 lb down and 31 lb up at 3-0-0, and 21 lb down and 23 lb up at 4-6-0, and 91 lb down and 43 lb up at 6-0-0 on top chord, and 102 lb down and 71 lb up at 3-0-0, and 38 lb down and 21 lb up at 4-6-0, and 102 lb down and 71 lb up at 5-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-6=-54, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-3(F) 4=-3(F) 8=3(F) 7=3(F) 13=-3(F) 14=-1(F)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 19,2022

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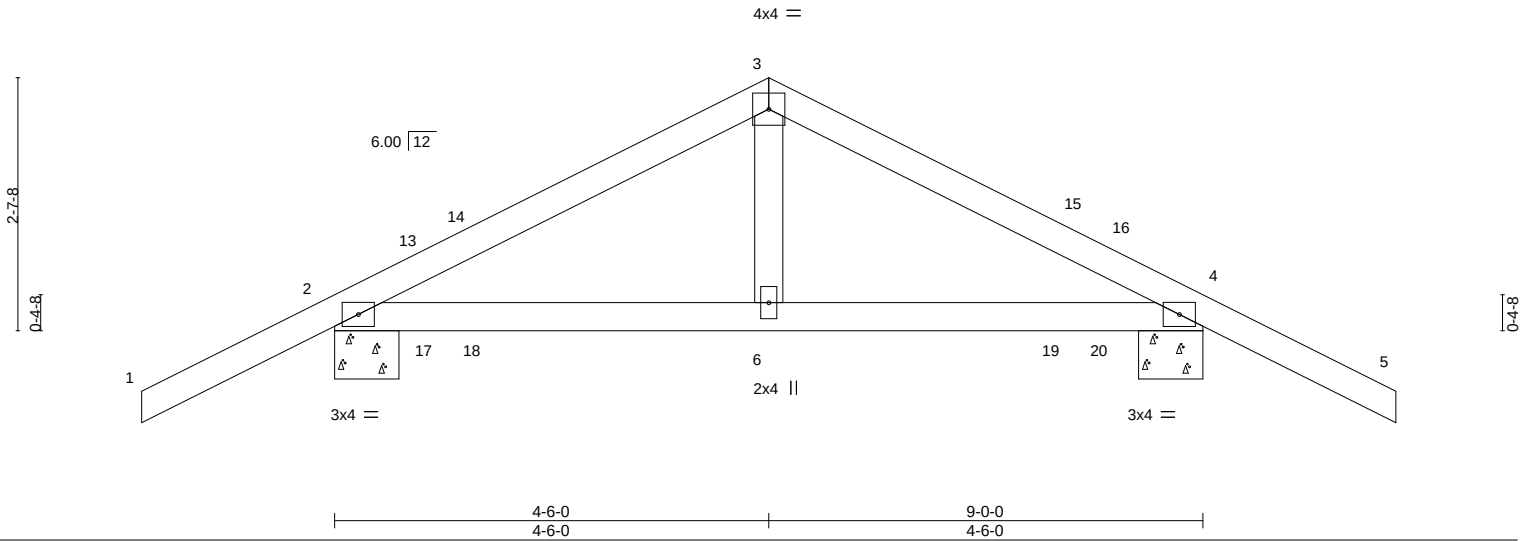
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	HOUSECRAFT - MIRANDA RES.
3182083	T28	Common	1	1	T27761671
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed May 18 15:15:07 2022 Page 1
ID:WbJvFHLjSllxW8vXEBdMcayI0PE-O43wlPMDYFzEhRtftUicdcX0nPOSSkOZDZxRXlzFDyo

-2-0-0 4-6-0 9-0-0 11-0-0
2-0-0 4-6-0 4-6-0 2-0-0

Scale: 1/2"=1'



4-6-0 9-0-0
4-6-0 4-6-0

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	0.26	Vert(LL)	0.03	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	0.03	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 38 lb	FT = 20%

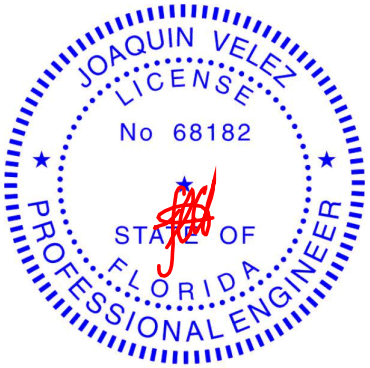
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.

REACTIONS. (size) 2=0-8-0, 4=0-8-0
Max Horz 2=-48(LC 17)
Max Uplift 2=-115(LC 12), 4=-115(LC 13)
Max Grav 2=441(LC 1), 4=441(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-401/545, 3-4=-401/545
BOT CHORD 2-6=-363/314, 4-6=-363/314
WEBS 3-6=-287/192

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-6-0, Exterior(2R) 4-6-0 to 7-6-0, Interior(1) 7-6-0 to 11-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 2 and 115 lb uplift at joint 4.



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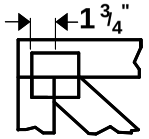
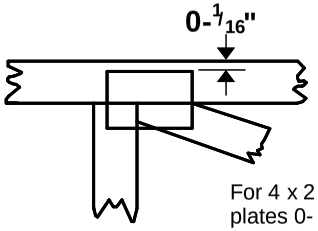
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

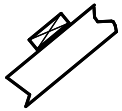
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

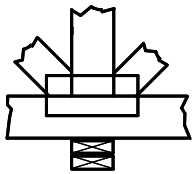
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

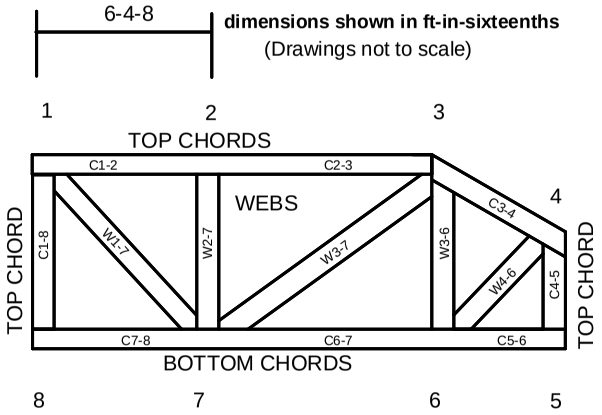


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

21.The design does not take into account any dynamic or other loads other than those expressly stated.