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

RE: 211014-04KM - Bill Ladson

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

Site Information:

Customer Info: Bill Ladson Project Name: Leo & Robbie Brooks Model: .
Lot/Block: . Subdivision: .
Address: SR. 47, .
City: Lake City State: Fl.

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 34.0 psf Floor Load: N/A psf

This package includes 51 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	T25656935	CJ01	10/15/21	23	T25656957	M04	10/15/21
2	T25656936	CJ02	10/15/21	24	T25656958	PB02	10/15/21
3	T25656937	GE01	10/15/21	25	T25656959	PB04	10/15/21
4	T25656938	GE02	10/15/21	26	T25656960	PB05	10/15/21
5	T25656939	H01	10/15/21	27	T25656961	PB06	10/15/21
6	T25656940	H02	10/15/21	28	T25656962	PB07	10/15/21
7	T25656941	H03	10/15/21	29	T25656963	PB08	10/15/21
8	T25656942	H04	10/15/21	30	T25656964	T01	10/15/21
9	T25656943	H05	10/15/21	31	T25656965	T02	10/15/21
10	T25656944	H06	10/15/21	32	T25656966	T03	10/15/21
11	T25656945	H07	10/15/21	33	T25656967	T04	10/15/21
12	T25656946	H08	10/15/21	34	T25656968	T05	10/15/21
13	T25656947	H09	10/15/21	35	T25656969	T06	10/15/21
14	T25656948	H10	10/15/21	36	T25656970	T07	10/15/21
15	T25656949	J01	10/15/21	37	T25656971	T08	10/15/21
16	T25656950	J02	10/15/21	38	T25656972	T09	10/15/21
17	T25656951	J04	10/15/21	39	T25656973	T10	10/15/21
18	T25656952	J07	10/15/21	40	T25656974	T11	10/15/21
19	T25656953	J08	10/15/21	41	T25656975	T12	10/15/21
20	T25656954	M01	10/15/21	42	T25656976	T13	10/15/21
21	T25656955	M02	10/15/21	43	T25656977	T14	10/15/21
22	T25656956	M03	10/15/21	44	T25656978	T15	10/15/21

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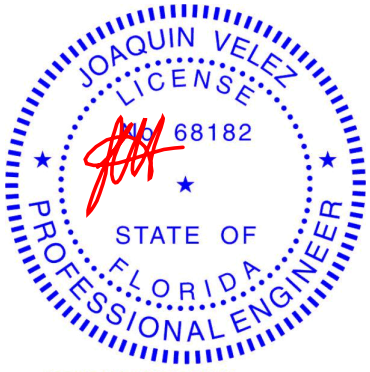
Universal Engineering Science

PX2707 11/18/2021
Florida-License No.

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

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

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



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

October 15,2021

RE: 211014-04KM - Bill Ladson

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

Site Information:

Customer Info: Bill Ladson Project Name: Leo & Robbie Brooks Model: .
Lot/Block: . Subdivision: .
Address: SR. 47, .
City: Lake City State: Fl.

No.	Seal#	Truss Name	Date
45	T25656979	T16	10/15/21
46	T25656980	T17	10/15/21
47	T25656981	T18	10/15/21
48	T25656982	T19	10/15/21
49	T25656983	T20	10/15/21
50	T25656984	T21	10/15/21
51	T25656985	TG01	10/15/21

Review for Code Compliance
Universal Engineering Science

PX2707 11/18/2021
Examiner-License No.

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	CJ01	Diagonal Hip Girder	2	1	T25656935
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:15 2021 Page 1
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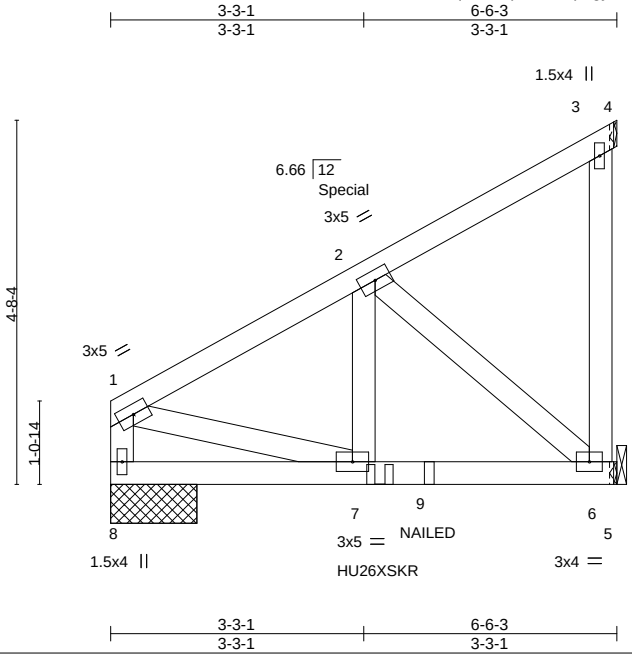


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	0.01	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.01	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 41 lb	FT = 20%

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

REACTIONS. (size) 8=1-1-5, 6=Mechanical
Max Horz 8=189(LC 5)
Max Uplift 8=-93(LC 8), 6=-183(LC 5)
Max Grav 8=257(LC 26), 6=306(LC 25)

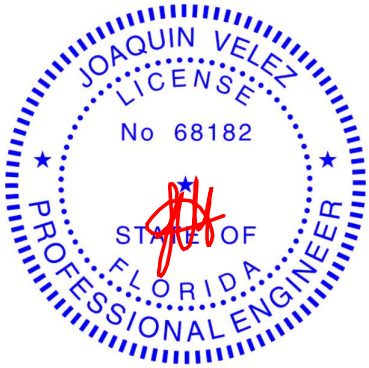
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-299/139
WEBS 1-7=-102/263, 2-6=-295/191

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.

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 6=183.
7) Use Simpson Strong-Tie HU26XSKR (4-10d Girder, 2-10dx1 1/2 Truss, Skew Right, Single Ply Girder) or equivalent at 3-5-9 from the left end to connect truss(es) to back face of bottom chord, skewed 56.3 deg.to the right, sloping 0.0 deg. down.
8) Fill all nail holes where hanger is in contact with lumber.
9) "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 99 lb up at 3-5-9 on top chord. The design/selection of such connection device(s) is the responsibility of others.
11) 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=-14, 5-8=-14
Concentrated Loads (lb)
Vert: 7=-4(B) 9=-56(F)



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	CJ02	Diagonal Hip Girder	2	1	T25656936
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:16 2021 Page 1
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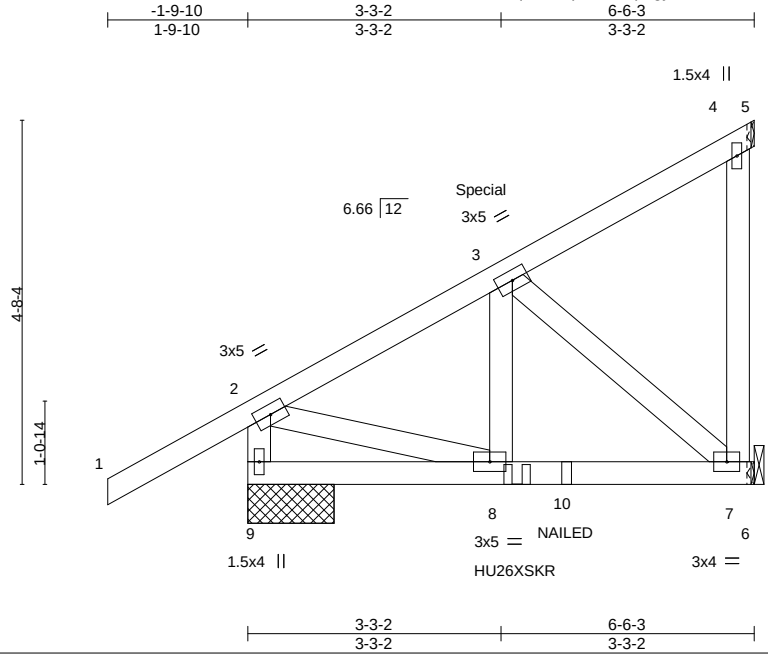

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.01	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 44 lb	FT = 20%

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

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

REACTIONS. (size) 9=1-1-5, 7=Mechanical
Max Horz 9=210(LC 5)
Max Uplift 9=-193(LC 8), 7=-181(LC 5)
Max Grav 9=353(LC 1), 7=291(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-340/212, 2-3=-296/136
WEBS 2-8=-106/262, 3-7=-261/174

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=193, 7=181.
7) Use Simpson Strong-Tie HU26XSKR (4-10d Girder, 2-10dx1 1/2 Truss, Skew Right, Single Ply Girder) or equivalent at 3-5-9 from the left end to connect truss(es) to back face of bottom chord, skewed 56.3 deg.to the right, sloping 0.0 deg. down.
8) Fill all nail holes where hanger is in contact with lumber.
9) "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 99 lb up at 3-5-9 on top chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 4-5=-14, 6-9=-14
Concentrated Loads (lb)
Vert: 8=-4(B) 10=-56(F)

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	GE01	GABLE	1	1	T25656937
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:18 2021 Page 1
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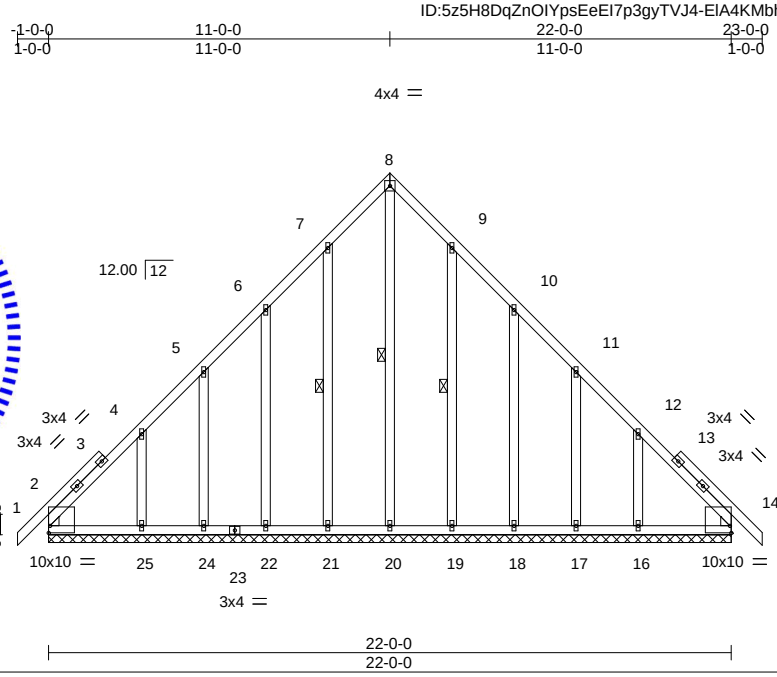

Plate Offsets (X,Y)-- [2:Edge,0-2-12], [14:Edge,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	14	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.01	14	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-S							Weight: 181 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 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.
WEBS 1 Row at midpt 8-20, 7-21, 9-19

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 2=-360(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14, 20, 21, 24, 19, 17 except 2=-141(LC 10), 22=-117(LC 12), 25=-170(LC 12), 18=-117(LC 12), 16=-170(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 21, 22, 24, 19, 18, 17 except 20=265(LC 12), 25=261(LC 17), 16=254(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-306/298, 7-8=-183/304, 8-9=-183/304, 12-14=-302/203
BOT CHORD 2-25=-158/307, 24-25=-158/307, 22-24=-158/307, 21-22=-158/307, 20-21=-158/307, 19-20=-158/307, 18-19=-158/307, 17-18=-158/307, 16-17=-158/307, 14-16=-158/307
WEBS 8-20=-336/162, 4-25=-213/267, 12-16=-206/267

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 23-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live l
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a recta 6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 20, 21, 24, 19, 17 except (jt=lb) 2=141, 22=117, 25=170, 18=117, 16=170.

Review for Code Compliance
Universal Engineering Science

October 15,2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	GE02	GABLE	1	1	T25656938
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:19 2021 Page 1
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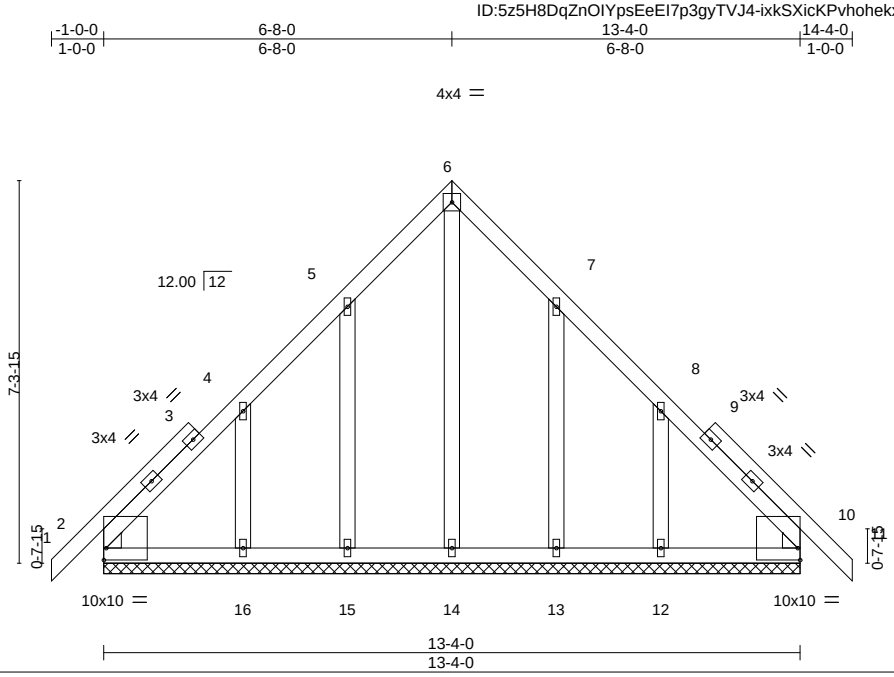


Plate Offsets (X,Y)-- [2:Edge,0-2-12], [10:Edge,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	-0.00	10	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	10	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%

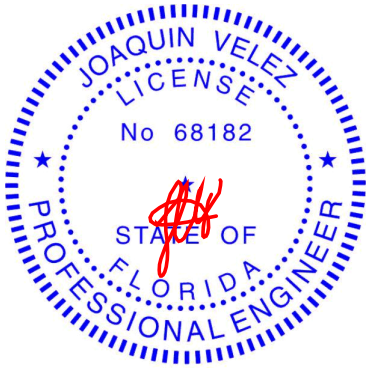
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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

REACTIONS. All bearings 13-4-0.
(lb) - Max Horz 2=-225(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 14 except 15=-103(LC 12), 16=-142(LC 12), 13=-103(LC 12), 12=-142(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-16=-200/305, 8-12=-200/304

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 6-8-0, Corner(3R) 6-8-0 to 9-8-0, Exterior(2N) 9-8-0 to 14-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 14 except (jt=lb) 15=103, 16=142, 13=103, 12=142.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

Examiner License No. PX2707 10/15/2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	H01	Hip Girder	1	2	T25656939

Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:21 2021 Page 1
ID:5z5H8DqZnOIYpsEeEl7p3gyTVJ4-eKrDyOdaxXxWxyuK5sa1VE4Qkwsj7lnWwNguzjyTTr8

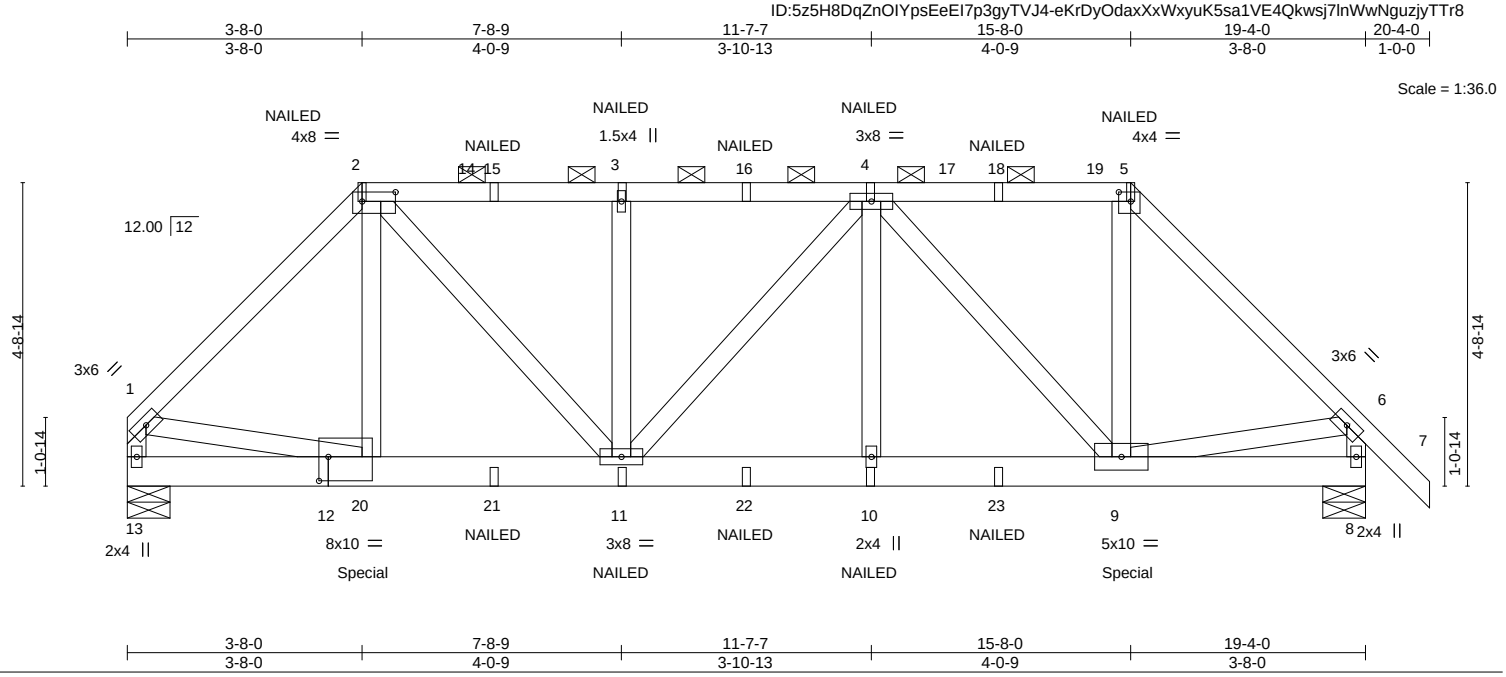


Plate Offsets (X,Y)-- [2:0-6-4,0-1-12], [5:0-2-4,0-1-12], [12:0-1-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.03	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.03	11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.01	8	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 281 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

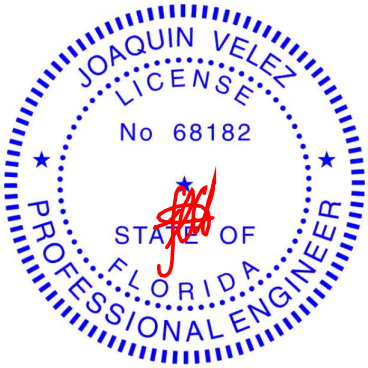
REACTIONS. (size) 13=0-8-0, 8=0-8-0
Max Horz 13=-165(LC 6)
Max Uplift 13=-671(LC 8), 8=-720(LC 8)
Max Grav 13=1299(LC 29), 8=1350(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1426/781, 2-3=-1455/840, 3-4=-1455/840, 4-5=-1001/608, 5-6=-1423/777, 1-13=-1298/703, 6-8=-1313/730
BOT CHORD 11-12=-487/1022, 10-11=-719/1486, 9-10=-719/1486
WEBS 2-11=-408/773, 3-11=-415/103, 4-10=-152/263, 4-9=-732/355, 5-9=-464/720, 1-12=-499/943, 6-9=-474/922

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) 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=671, 8=720.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 323 lb down and 299 lb up at 3-8-0, and 311 lb down and 297 lb up at 15-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

LOAD CASE(S) Standard



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 11/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-5=-54, 5-6=-54, 6-7=-54, 8-13=-14
   Concentrated Loads (lb)
   Vert: 2=-90(B) 5=-90(B) 11=-29(B) 3=-90(B) 10=-29(B) 4=-90(B) 9=-249(B) 15=-90(B) 16=-90(B) 18=-90(B) 20=-265(B) 21=-29(B) 22=-29(B) 23=-29(B)

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PX2707 11/18/2021
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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	H02	Hip Girder	1	2	T25656940

Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:22 2021 Page 1
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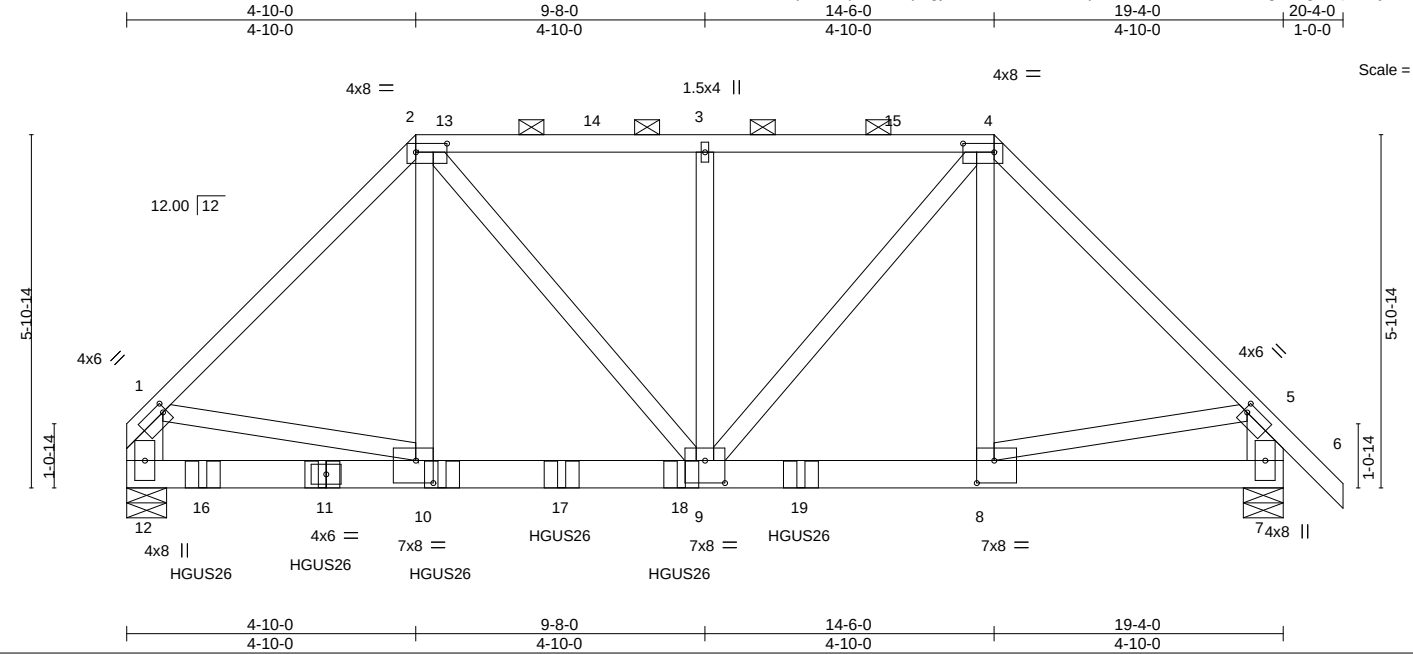

Plate Offsets (X,Y)-- [1:0-0-12,0-1-12], [2:0-6-4,0-1-12], [4:0-6-4,0-1-12], [5:0-0-12,0-1-12], [8:0-3-8,0-4-8], [9:0-4-0,0-4-8], [10:0-3-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.10	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.11	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.01	7	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 287 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
1-12,5-7: 2x8 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-8-0, 7=0-8-0
Max Horz 12=-206(LC 6)
Max Uplift 12=-1506(LC 8), 7=-1328(LC 8)
Max Grav 12=4521(LC 2), 7=2914(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4203/1505, 2-3=-3904/1796, 3-4=-3904/1796, 4-5=-3367/1577, 1-12=-3484/1265, 5-7=-2984/1427
BOT CHORD 10-12=-365/843, 9-10=-1009/2945, 8-9=-1010/2352
WEBS 2-10=-192/1670, 2-9=-1056/1653, 3-9=-288/151, 4-9=-980/2515, 4-8=-287/388, 1-10=-814/2239, 5-8=-1078/2312

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, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=1506, 7=1328.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie HGUS26 (20-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-3-4 from the left end to 9-3-4 to connect truss(es) to front face of bottom chord.
12) Use Simpson Strong-Tie HGUS26 (20-SD10212 Girder, 8-SD10212 Truss) or equivalent at 11-3-4 from the left end to connect truss(es) to front face of bottom chord.

Continued on page 2

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Review for Code Compliance
Universal Engineering Sciences

Joaquin Velez PE No.68182
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Date: October 15,2021

PX2707 11/15/2021

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6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-4=-54, 4-5=-54, 5-6=-54, 7-12=-14
   Concentrated Loads (lb)
   Vert: 11=-752(F) 10=-738(F) 16=-752(F) 17=-747(F) 18=-747(F) 19=-1887(F)

Review for Code Compliance
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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	H03	Hip Girder	1	2	T25656941
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:24 2021 Page 1
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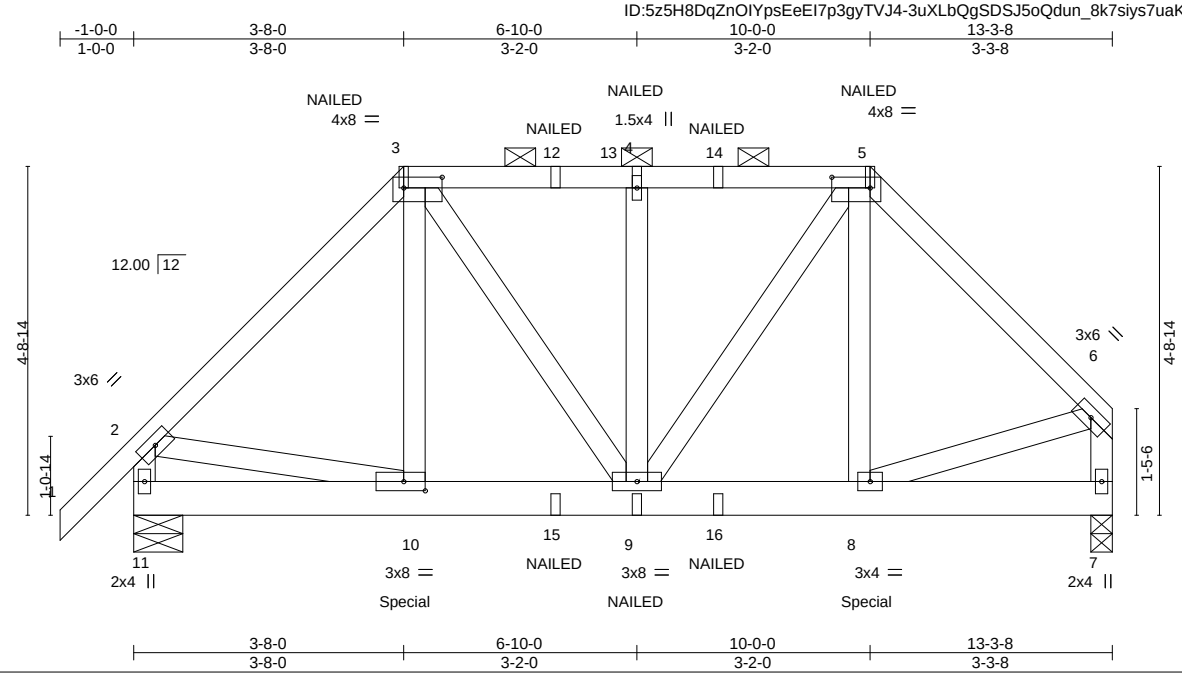


Plate Offsets (X,Y)-- [3:0-6-4,0-1-12], [5:0-6-4,0-1-12], [10:0-3-8,0-1-8]

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	0.12	Vert(LL)	-0.01	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	7	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 204 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

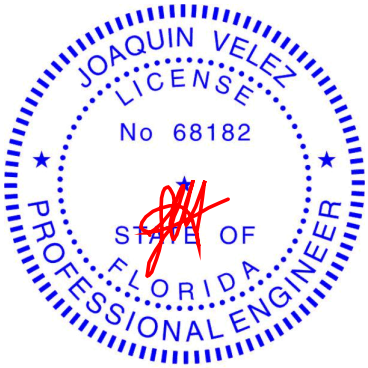
REACTIONS. (size) 11=0-8-0, 7=0-3-8
Max Horz 11=171(LC 7)
Max Uplift 11=-569(LC 8), 7=-539(LC 8)
Max Grav 11=1023(LC 29), 7=992(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1038/597, 3-4=-874/567, 4-5=-874/567, 5-6=-986/571, 2-11=-985/576, 6-7=-959/544
BOT CHORD 9-10=-429/752, 8-9=-380/683
WEBS 3-10=-212/252, 3-9=-196/336, 4-9=-422/78, 5-9=-230/389, 2-10=-390/656, 6-8=-376/682

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) 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=569, 7=539.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 311 lb down and 297 lb up at 3-8-0, and 323 lb down and 299 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

LOAD CASE(S) Standard



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 11/15/2021

Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-3=-54, 3-5=-54, 5-6=-54, 7-11=-14
   Concentrated Loads (lb)
   Vert: 3=-90(B) 5=-90(B) 10=-249(B) 4=-90(B) 9=-29(B) 8=-265(B) 12=-90(B) 14=-90(B) 15=-29(B) 16=-29(B)

Review for Code Compliance
Universal Engineering Science

PX2707 11/18/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	H04	Hip	1	1	T25656942
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:25 2021 Page 1
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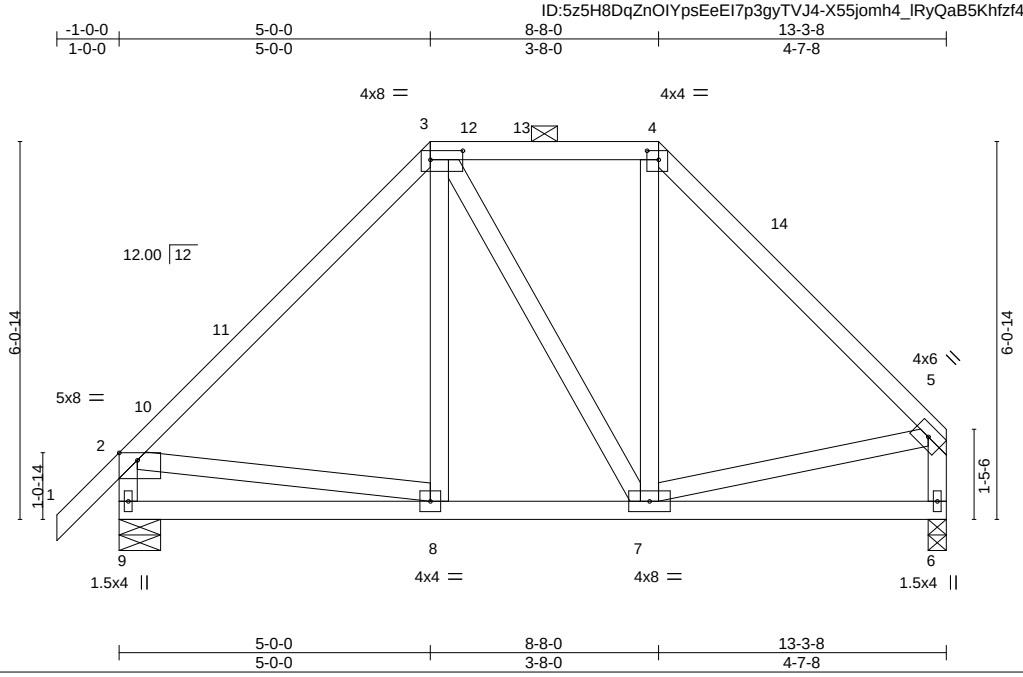


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-6-4,0-1-12], [4:0-2-4,0-1-12]

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	0.34	Vert(LL)	-0.02	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.03	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	6	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 90 lb	FT = 20%

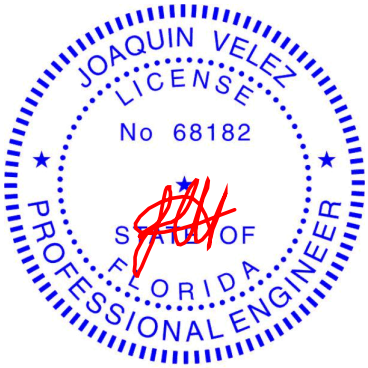
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 9=0-8-0, 6=0-3-8
Max Horz 9=215(LC 11)
Max Uplift 9=-174(LC 12), 6=-120(LC 12)
Max Grav 9=507(LC 1), 6=439(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-446/230, 4-5=-423/234, 2-9=-470/269, 5-6=-405/229
BOT CHORD 8-9=-349/298, 7-8=-129/292

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-0-0, Exterior(2E) 5-0-0 to 13-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=174, 6=120.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	H05	Hip Girder	1	2	T25656943
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:26 2021 Page 1
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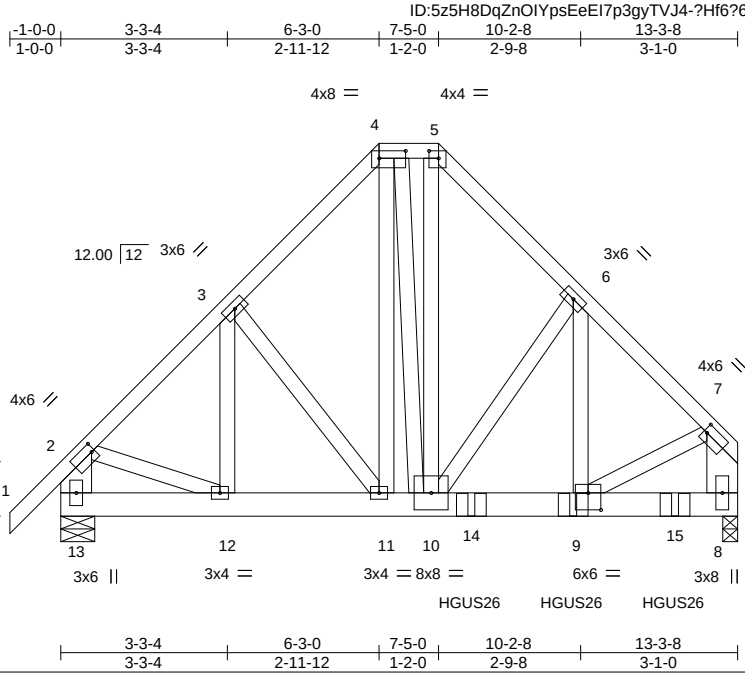

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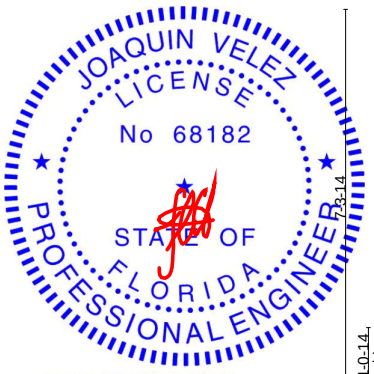

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Date:

Plate Offsets (X,Y)-- [2:0-0-12,0-2-0], [4:0-6-4,0-1-12], [5:0-2-4,0-1-12], [7:0-0-12,0-2-0], [9:0-3-0,0-4-0]

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	0.16	Vert(LL)	0.04	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.04	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	8	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 259 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
2-13,7-8: 2x8 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-8-0, 8=0-3-8
Max Horz 13=255(LC 7)
Max Uplift 13=-885(LC 8), 8=-1538(LC 8)
Max Grav 13=1727(LC 29), 8=3589(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1715/873, 3-4=-1940/1085, 4-5=-1542/932, 5-6=-2193/1246, 6-7=-2926/1404, 2-13=-1642/860, 7-8=-2968/1430
BOT CHORD 12-13=-262/294, 11-12=-634/1285, 10-11=-679/1375, 9-10=-932/2054
WEBS 3-12=-494/292, 3-11=-323/351, 4-11=-363/328, 4-10=-966/1623, 5-10=-833/1466, 6-10=-988/385, 6-9=-420/1253, 2-12=-503/1131, 7-9=-967/2046

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, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=885, 8=1538.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie HGUS26 (20-SD10212 Girder, 8-SD10212 Truss) or equivalent at 8-0-12 from the left end to connect truss(es) to front face of bottom chord.
12) Use Simpson Strong-Tie HGUS26 (20-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-0-12 from the left end to connect truss(es) to front face of bottom chord.

Continued on page 2

Review for Code Compliance
Universal Engineering Science

October 15,2021
PX2707 11/19/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-4=-54, 4-5=-54, 5-7=-54, 8-13=-14
   Concentrated Loads (lb)
   Vert: 9=-901(F) 14=-2305(F) 15=-901(F)

Review for Code Compliance
Universal Engineering Science

PX2707 11/18/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	H06	Half Hip	1	1	T25656944
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:27 2021 Page 1
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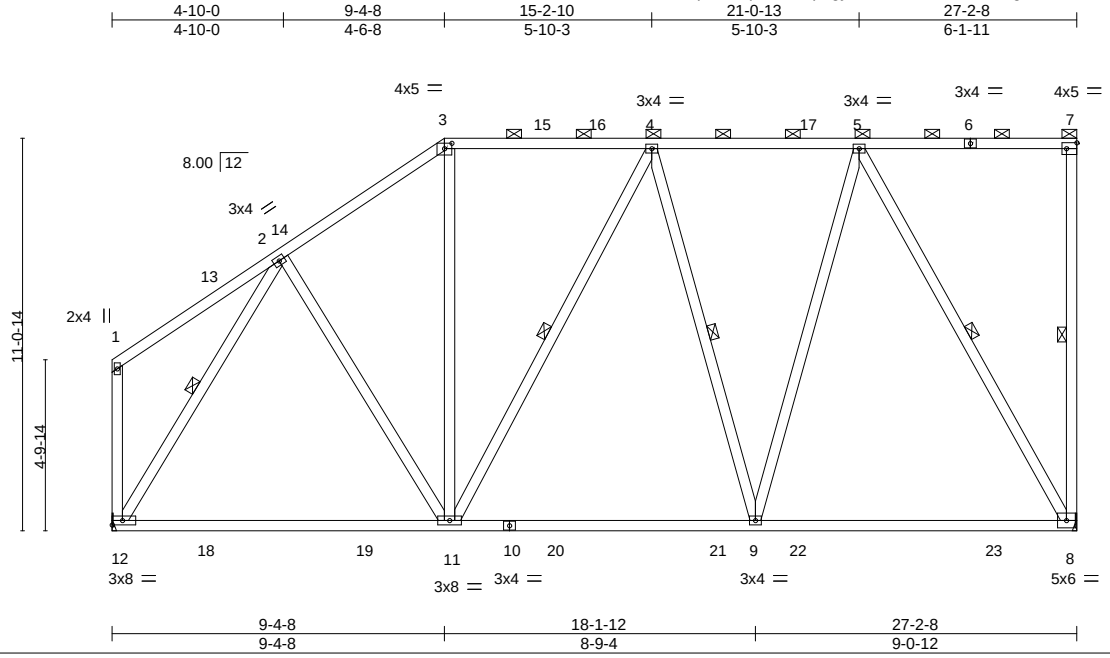


Plate Offsets (X,Y)-- [3:0-2-8,0-1-13], [7:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.31	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.45	11-12	>724	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.02	8	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 215 lb	FT = 20%

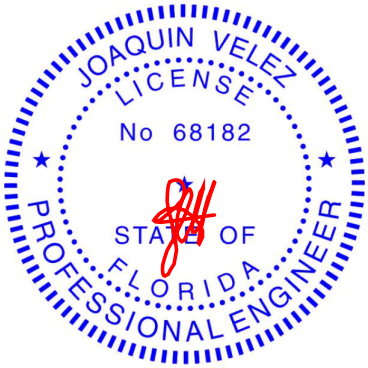
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-8, 4-11, 4-9, 5-8, 2-12

REACTIONS. (size) 8=Mechanical, 12=Mechanical
Max Horz 12=466(LC 9)
Max Uplift 8=-323(LC 9), 12=-239(LC 12)
Max Grav 8=1175(LC 17), 12=1138(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-907/327, 3-4=-725/314, 4-5=-702/298
BOT CHORD 11-12=-529/719, 9-11=-368/800, 8-9=-275/566
WEBS 2-11=-28/308, 3-11=-46/252, 4-9=-269/229, 5-9=-125/644, 5-8=-1048/337, 2-12=-988/271

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-4-8, Exterior(2R) 9-4-8 to 13-7-6, Interior(1) 13-7-6 to 27-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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 = 7.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=323, 12=239.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	H07	Half Hip Girder	1	1	T25656945
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:28 2021 Page 1
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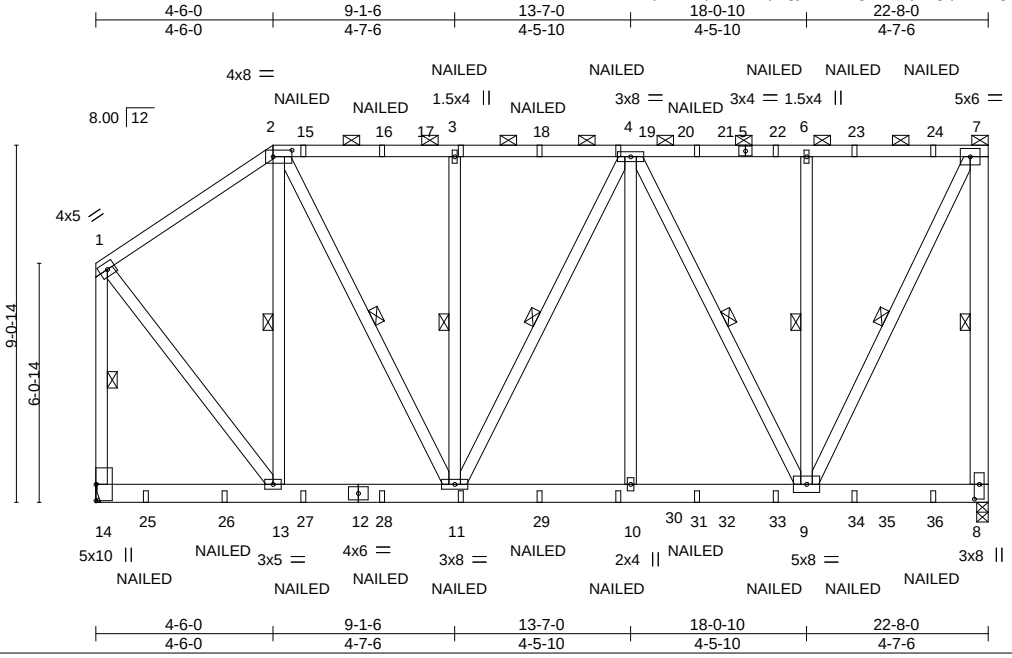


Plate Offsets (X,Y)-- [2:0-5-12,0-2-0], [8:0-4-8,0-1-8]

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	0.45	Vert(LL)	0.09	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.09	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	-0.02	8	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 231 lb	FT = 20%

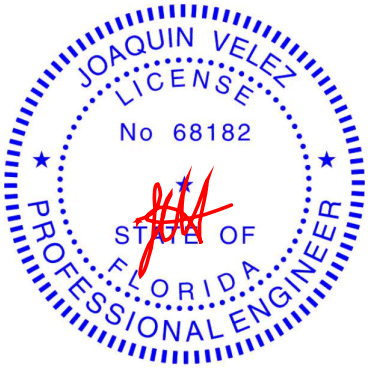
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
7-8: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-14 max.): 2-7.
BOT CHORD Rigid ceiling directly applied or 7-1-6 oc bracing.
WEBS 1 Row at midpt 7-8, 2-13, 2-11, 3-11, 4-11, 4-9, 6-9, 7-9, 1-14

REACTIONS. (size) 8=0-3-8, 14=Mechanical
Max Horz 14=369(LC 5)
Max Uplift 8=-1487(LC 5), 14=-1399(LC 8)
Max Grav 8=2353(LC 25), 14=2356(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1324/858, 2-3=-1512/1043, 3-4=-1512/1043, 4-6=-1058/736, 6-7=-1058/736, 7-8=-2101/1361, 1-14=-2058/1251
BOT CHORD 13-14=-346/222, 11-13=-828/1124, 10-11=-1051/1543, 9-10=-1051/1543
WEBS 2-13=-537/389, 2-11=-686/1080, 3-11=-391/345, 4-10=-269/587, 4-9=-1115/720, 6-9=-382/350, 7-9=-1386/2186, 1-13=-1002/1668

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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 = 7.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=1487, 14=1399.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
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
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-7=-54, 8-14=-14

Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 10/15/2021
Examiner License No.

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 11=-146(B) 3=-43(B) 15=-43(B) 16=-43(B) 18=-43(B) 19=-43(B) 21=-43(B) 22=-43(B) 23=-43(B) 24=-43(B) 25=-243(B) 26=-243(B) 27=-146(B) 28=-146(B) 29=-146(B) 30=-146(B) 31=-146(B) 33=-146(B) 34=-146(B) 36=-146(B)

Review for Code Compliance
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PX2707 11/18/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	H08	Half Hip	1	1	T25656946
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:29 2021 Page 1
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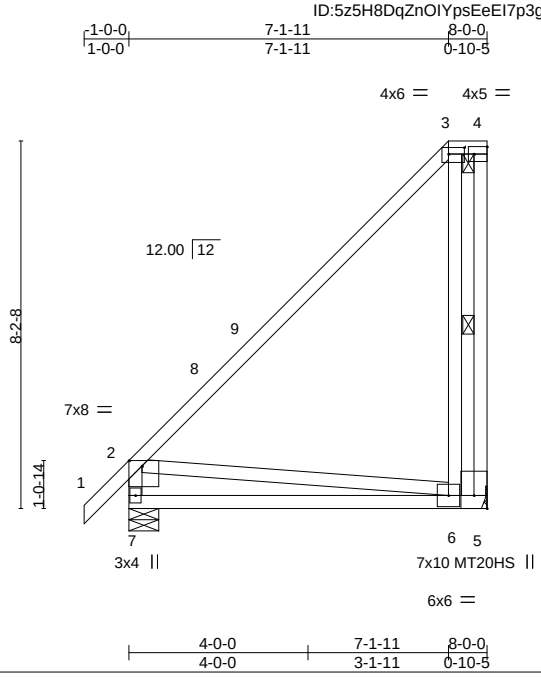


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-4-4,0-1-12], [4:Edge,0-2-0], [5:Edge,0-3-8]

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	0.82	Vert(LL)	0.11	6-7	>817	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.15	6-7	>623	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.63	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 65 lb	FT = 20%

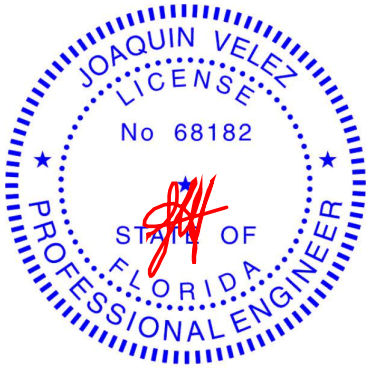
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-5

REACTIONS. (size) 5=Mechanical, 7=0-8-0
Max Horz 7=372(LC 9)
Max Uplift 5=-225(LC 9), 7=-100(LC 12)
Max Grav 5=350(LC 17), 7=361(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-442/275, 4-5=-262/134, 2-7=-303/212
BOT CHORD 6-7=-1344/861
WEBS 3-6=-462/805, 2-6=-699/1183

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-1-11, Exterior(2E) 7-1-11 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=225, 7=100.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

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Date: October 15,2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	H09	Half Hip	1	1	T25656947
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:30 2021 Page 1
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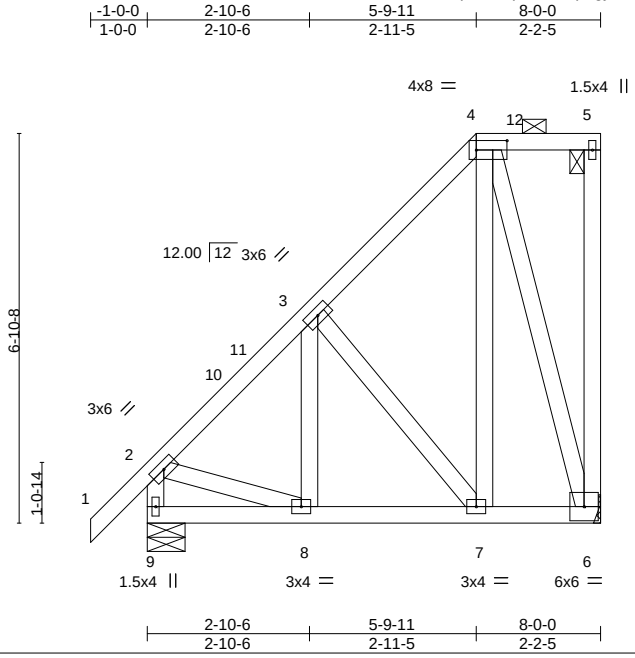


Plate Offsets (X,Y)-- [4:0-6-8,0-2-0]

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	0.57	Vert(LL)	0.01	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 75 lb	FT = 20%

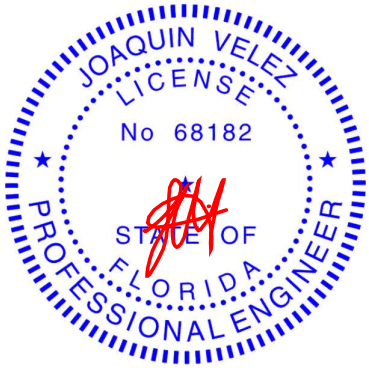
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=Mechanical, 9=0-8-0
Max Horz 9=313(LC 9)
Max Uplift 6=-183(LC 9), 9=-108(LC 12)
Max Grav 6=309(LC 17), 9=329(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-275/138, 2-9=-313/224
BOT CHORD 8-9=-674/407, 7-8=-457/336
WEBS 4-6=-337/453, 3-7=-205/358

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-9-11, Exterior(2E) 5-9-11 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=183, 9=108.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

Examiner License No. PX2707

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	H10	Half Hip	1	1	T25656948
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:31 2021 Page 1
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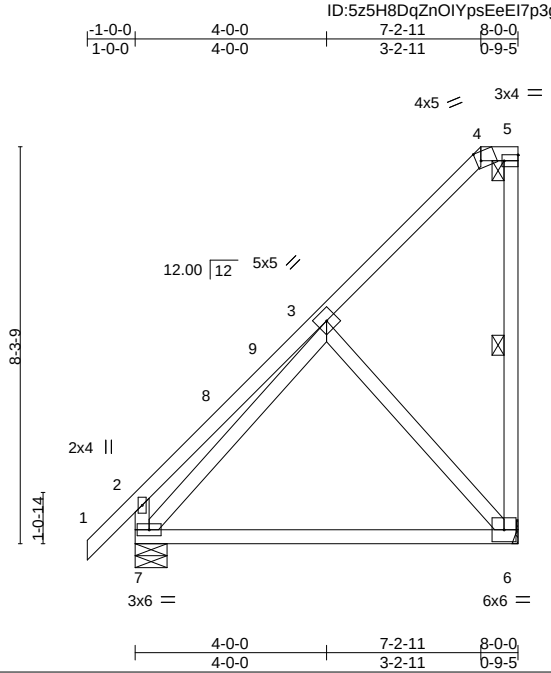


Plate Offsets (X,Y)-- [4:0-1-3,Edge], [5:Edge,0-1-8]

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	0.53	Vert(LL)	-0.11	6-7	>872	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.18	6-7	>517	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 60 lb	FT = 20%

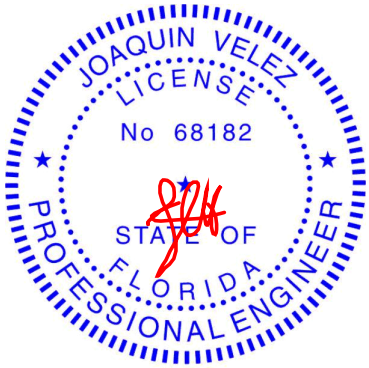
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-6

REACTIONS. (size) 6=Mechanical, 7=0-8-0
Max Horz 7=376(LC 9)
Max Uplift 6=-228(LC 9), 7=-99(LC 12)
Max Grav 6=353(LC 17), 7=364(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-317/272, 3-4=-263/186, 5-6=-176/269, 2-7=-281/360
BOT CHORD 6-7=-458/331
WEBS 3-6=-285/498, 3-7=-332/260

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-2-11, Exterior(2E) 7-2-11 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 6=228.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

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Date: October 15,2021

PX2707 Examiner License No. 10/15/2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	J01	Jack-Open	12	1	T25656949
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:31 2021 Page 1
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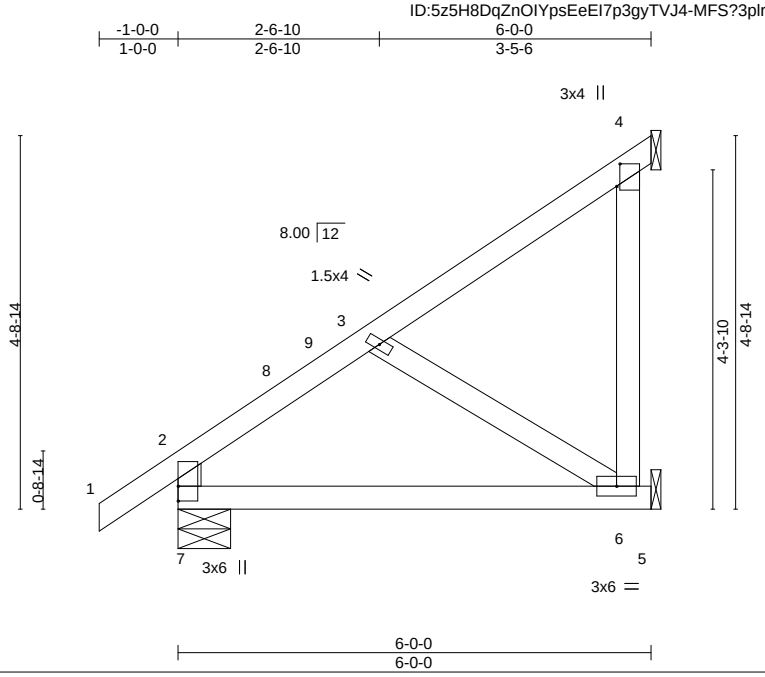


Plate Offsets (X,Y)-- [4:0-3-7,0-0-8]

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	0.47	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.10	6-7	>688	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	-0.19	4	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 33 lb	FT = 20%

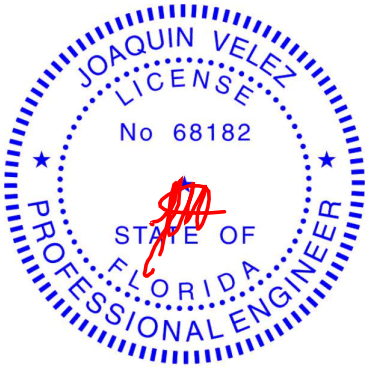
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 7=0-8-0, 4=Mechanical, 6=Mechanical
Max Horz 7=188(LC 12)
Max Uplift 7=-52(LC 12), 4=-17(LC 9), 6=-85(LC 12)
Max Grav 7=257(LC 1), 4=144(LC 1), 6=105(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 6-7=-277/141
WEBS 3-6=-166/326

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-8-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 6.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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Date: October 15,2021

PX2707 Examiner License No. 11/15/2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	J02	Jack-Open	4	1	T25656950
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:33 2021 Page 1
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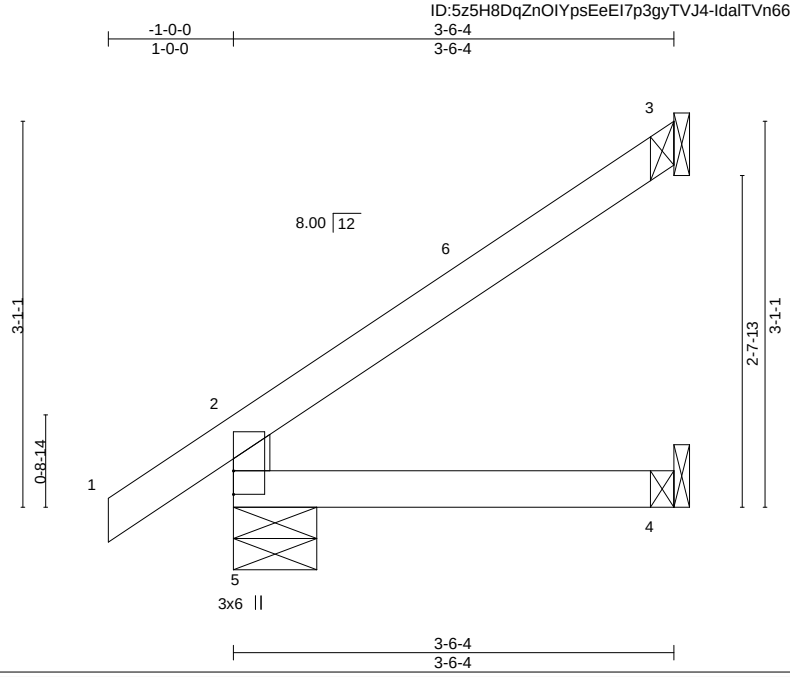


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 14 lb	FT = 20%

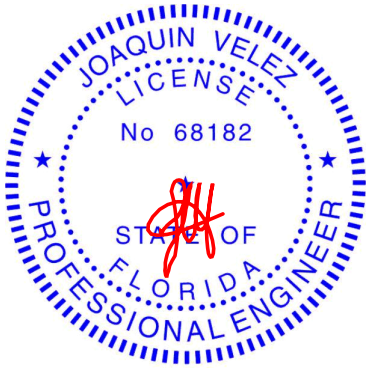
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-8-0, 3=Mechanical, 4=Mechanical
Max Horz 5=134(LC 12)
Max Uplift 5=-51(LC 12), 3=-63(LC 12)
Max Grav 5=185(LC 1), 3=87(LC 17), 4=52(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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-5-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.



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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	J04	Jack-Open Structural Gable	4	1	T25656951
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:33 2021 Page 1
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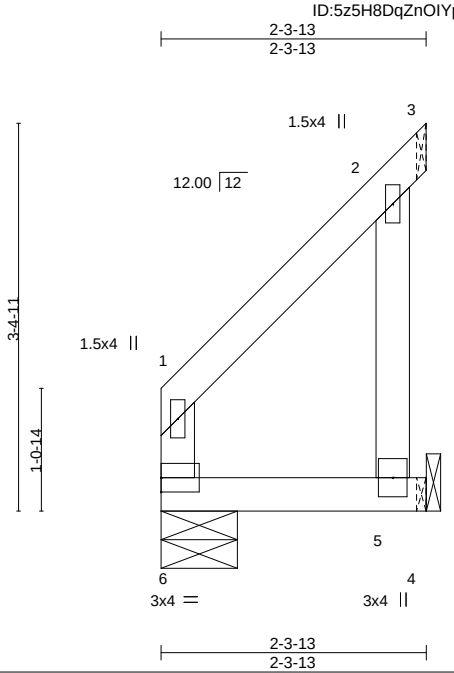

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.00	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00		n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 14 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-8-0, 5=Mechanical
Max Horz 6=100(LC 12)
Max Uplift 6=-3(LC 10), 5=-104(LC 12)
Max Grav 6=70(LC 18), 5=113(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-118/295

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
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) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 5=104.

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	J07	Jack-Open	9	1	T25656952
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:34 2021 Page 1
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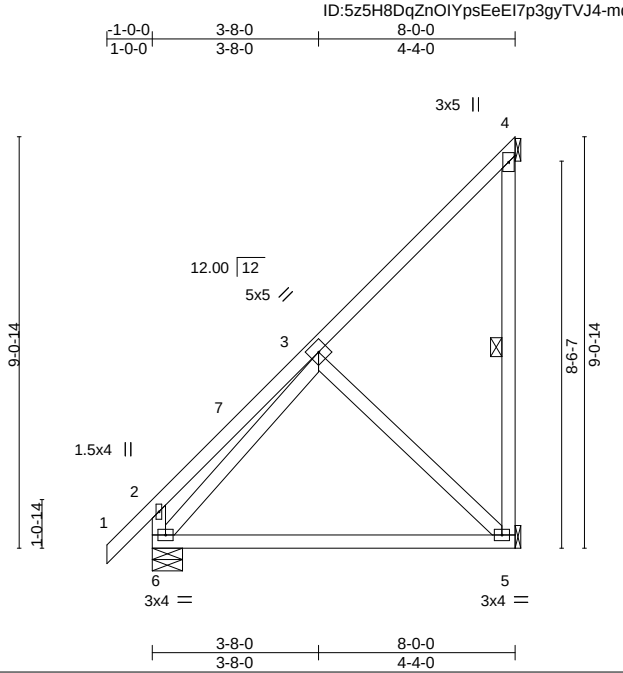


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.21	5-6	>437	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.36	5-6	>257	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 61 lb	FT = 20%

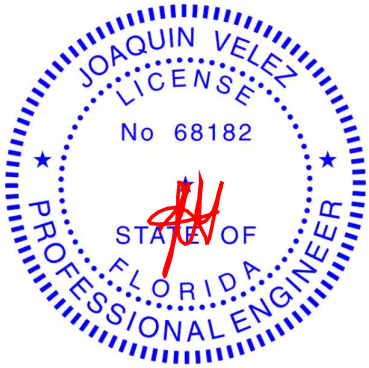
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-5

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 6=0-8-0
Max Horz 6=360(LC 12)
Max Uplift 4=-113(LC 12), 5=-126(LC 12)
Max Grav 4=129(LC 17), 5=212(LC 17), 6=329(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-174/318
BOT CHORD 5-6=-344/173
WEBS 3-5=-238/474, 3-6=-412/122

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=113, 5=126.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	J08	Jack-Open	10	1	T25656953
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:35 2021 Page 1
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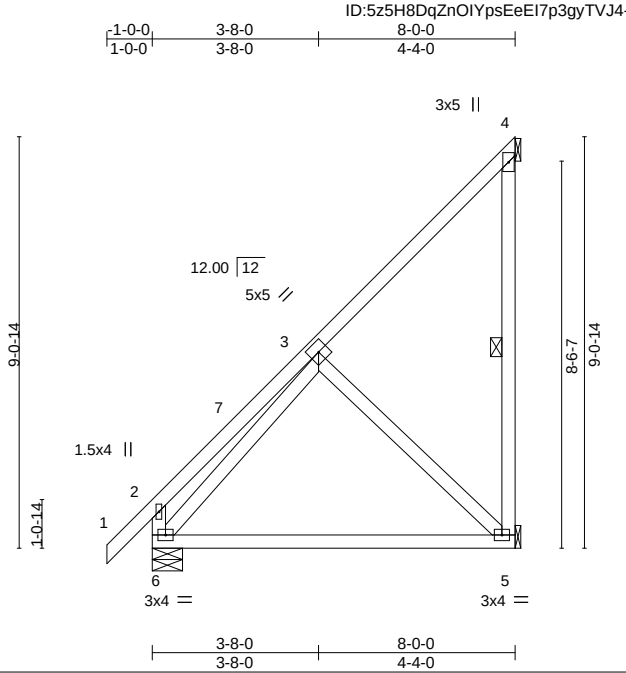


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.21	5-6	>437	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.36	5-6	>257	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 61 lb	FT = 20%

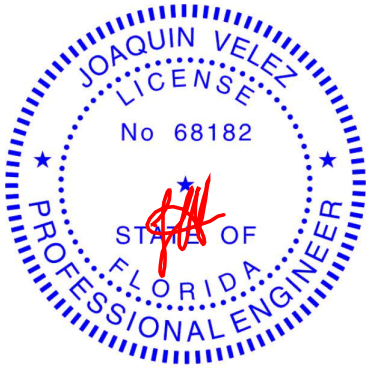
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-5

REACTIONS. (size) 6=0-8-0, 4=Mechanical, 5=Mechanical
Max Horz 6=360(LC 12)
Max Uplift 4=-113(LC 12), 5=-126(LC 12)
Max Grav 6=329(LC 1), 4=129(LC 17), 5=212(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-174/318
BOT CHORD 5-6=-344/173
WEBS 3-5=-238/474, 3-6=-412/122

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=113, 5=126.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	M01	Monopitch Supported Gable	1	1	T25656954
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:35 2021 Page 1
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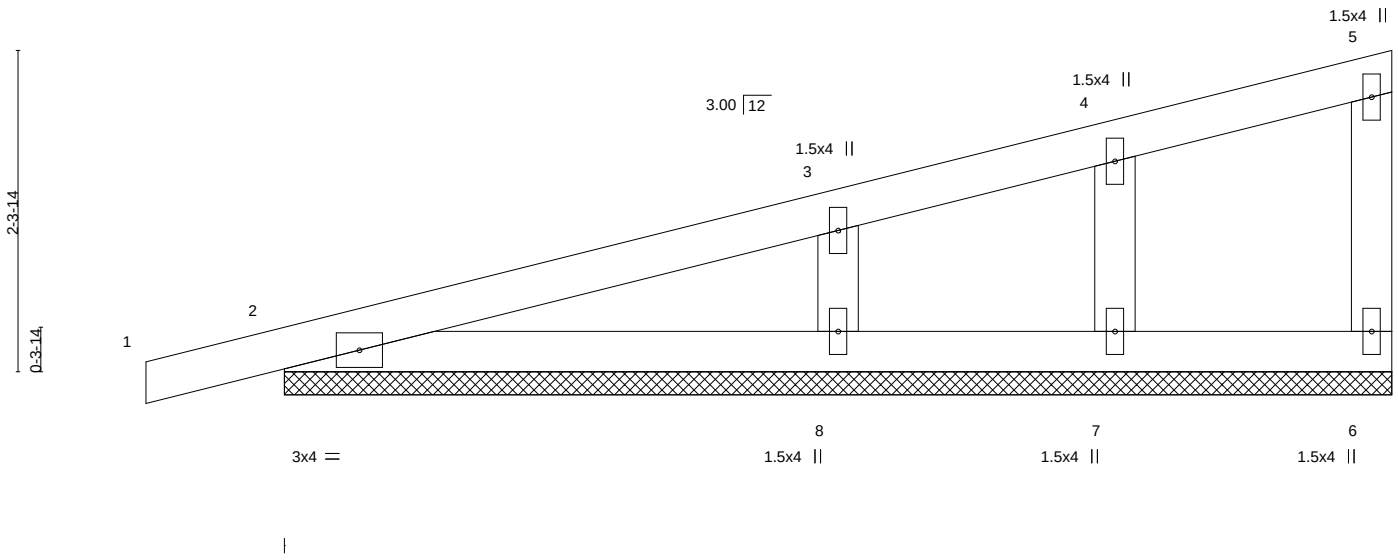
-1-0-0 1-0-0 | 8-0-0 8-0-0

Scale = 1:16.6



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	0.24	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 31 lb	FT = 20%

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

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

REACTIONS. All bearings 8-0-0.
(lb) - Max Horz 2=88(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8
Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=262(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=-205/381

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Review for Code Compliance
Universal Engineering Science

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Date: October 15,2021

PX2707 Examiner License No. 10/15/2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	M02	Monopitch	12	1	T25656955
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:36 2021 Page 1
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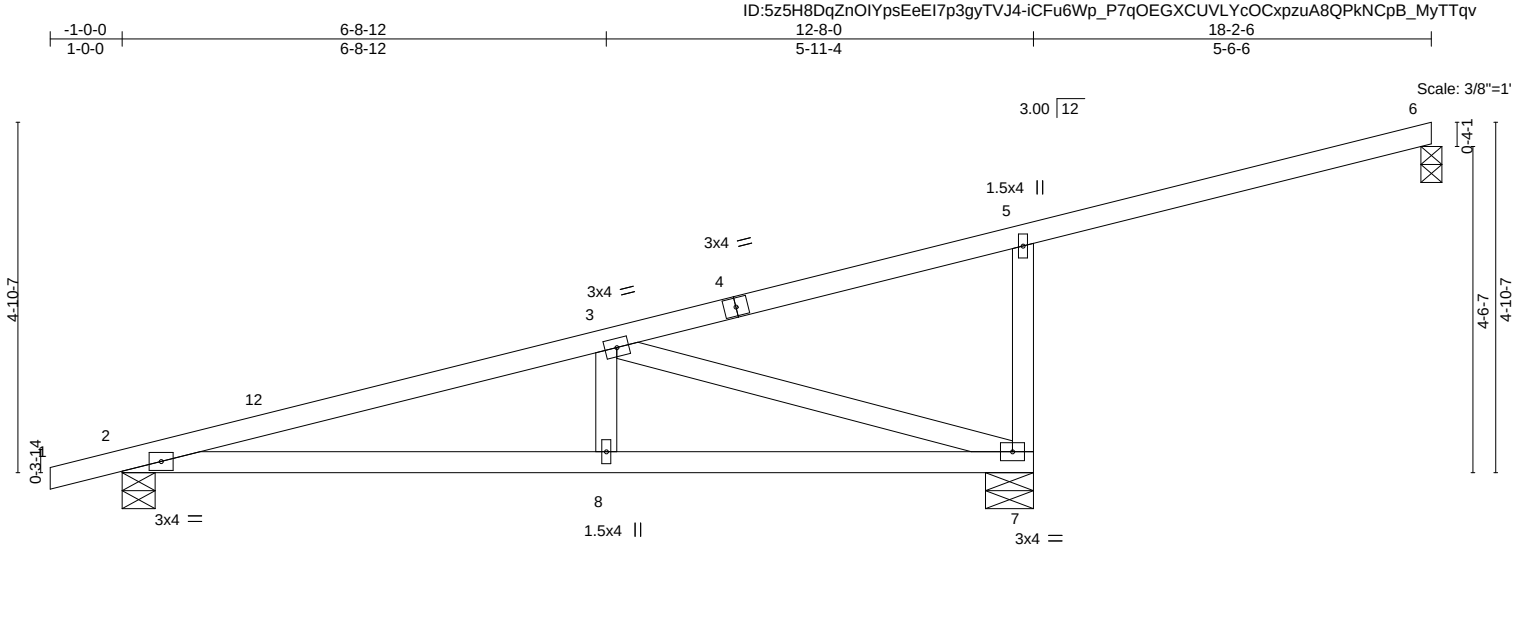


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.07	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.12	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.02	7	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 63 lb	FT = 20%

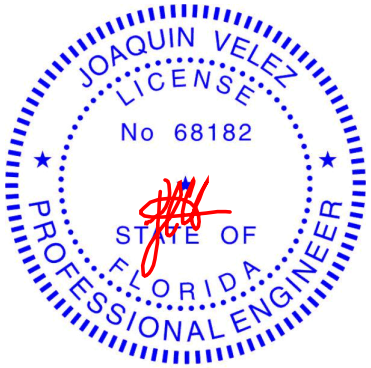
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 6=0-3-8, 2=0-5-8, 7=0-8-0
Max Horz 2=170(LC 9)
Max Uplift 6=-63(LC 12), 2=-141(LC 12), 7=-224(LC 12)
Max Grav 6=113(LC 1), 2=466(LC 1), 7=625(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-893/327, 5-7=-344/286
BOT CHORD 2-8=-454/846, 7-8=-454/846
WEBS 3-7=-886/446

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 18-0-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=141, 7=224.
6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Review for Code Compliance
Universal Engineering Science

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Date: October 15,2021

Laurence Parnell PX2707 10/15/2021
Examiner License No.

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	M03	Monopitch	4	1	T25656956
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:37 2021 Page 1
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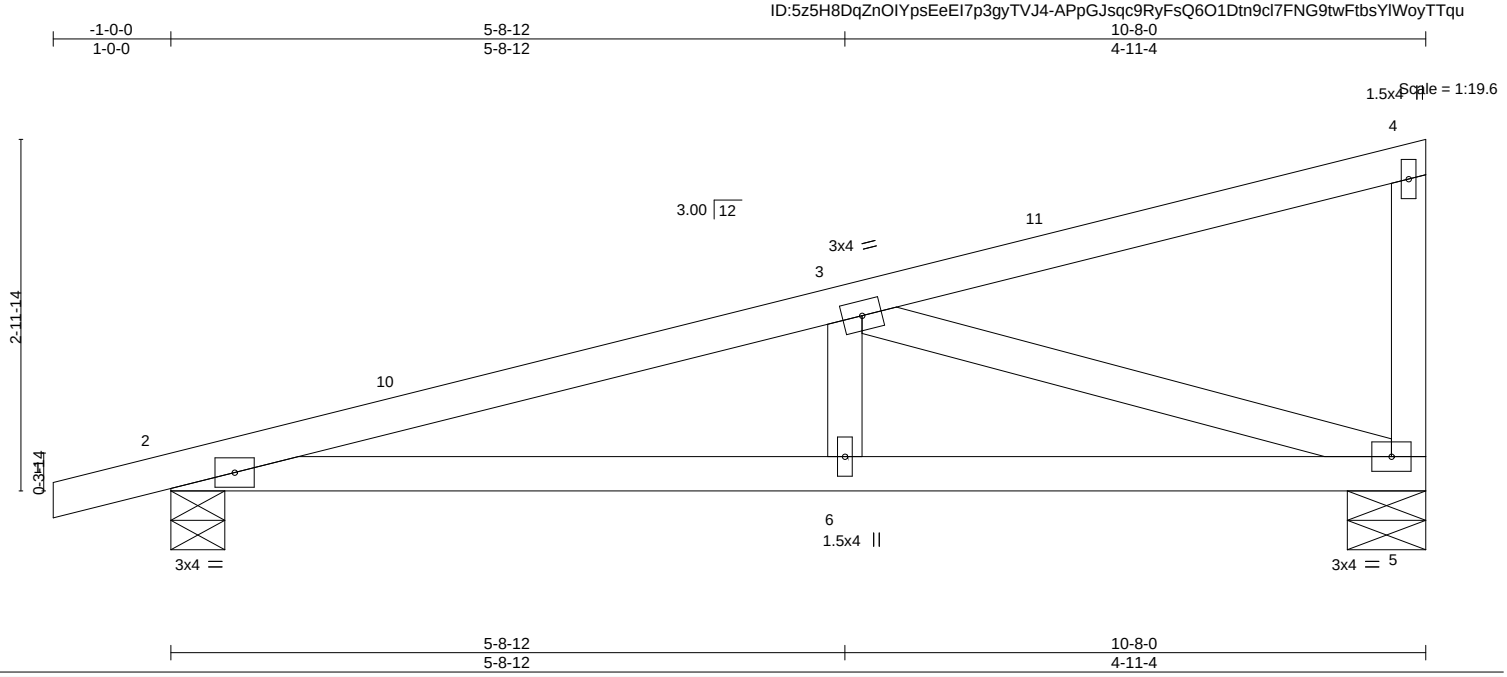


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.05	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.07	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.01	5	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 46 lb	FT = 20%

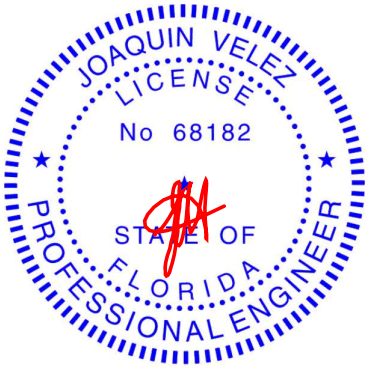
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-5-8, 5=0-8-0
Max Horz 2=116(LC 11)
Max Uplift 2=-144(LC 12), 5=-98(LC 12)
Max Grav 2=414(LC 1), 5=355(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-787/471
BOT CHORD 2-6=-552/748, 5-6=-552/748
WEBS 3-5=-756/521

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=144.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Review for Code Compliance
Universal Engineering Science

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6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	M04	Monopitch Supported Gable	1	1	T25656957
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:37 2021 Page 1
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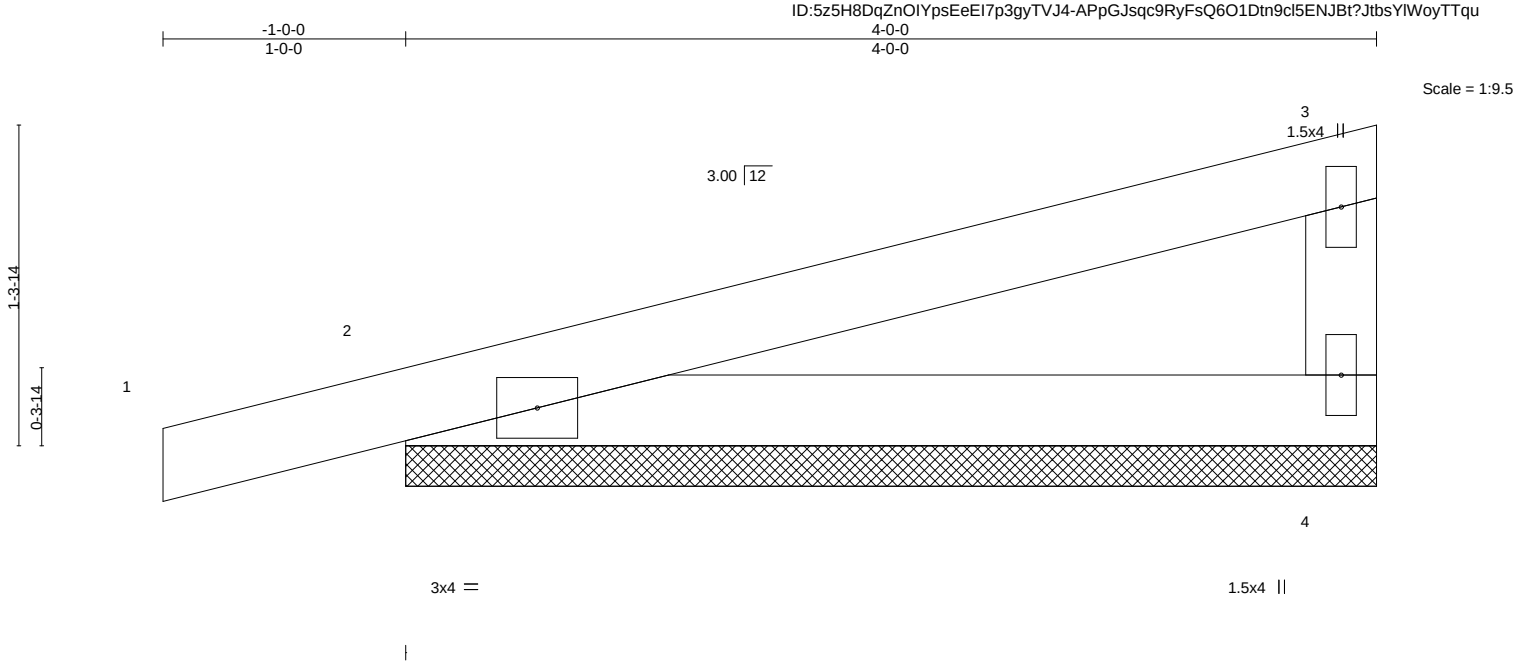


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

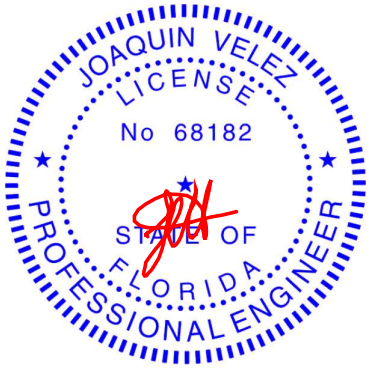
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 4=4-0-0, 2=4-0-0
Max Horz 2=46(LC 9)
Max Uplift 4=-30(LC 12), 2=-87(LC 12)
Max Grav 4=124(LC 1), 2=192(LC 1)

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 3-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	PB02	Piggyback	4	1	T25656958
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:38 2021 Page 1
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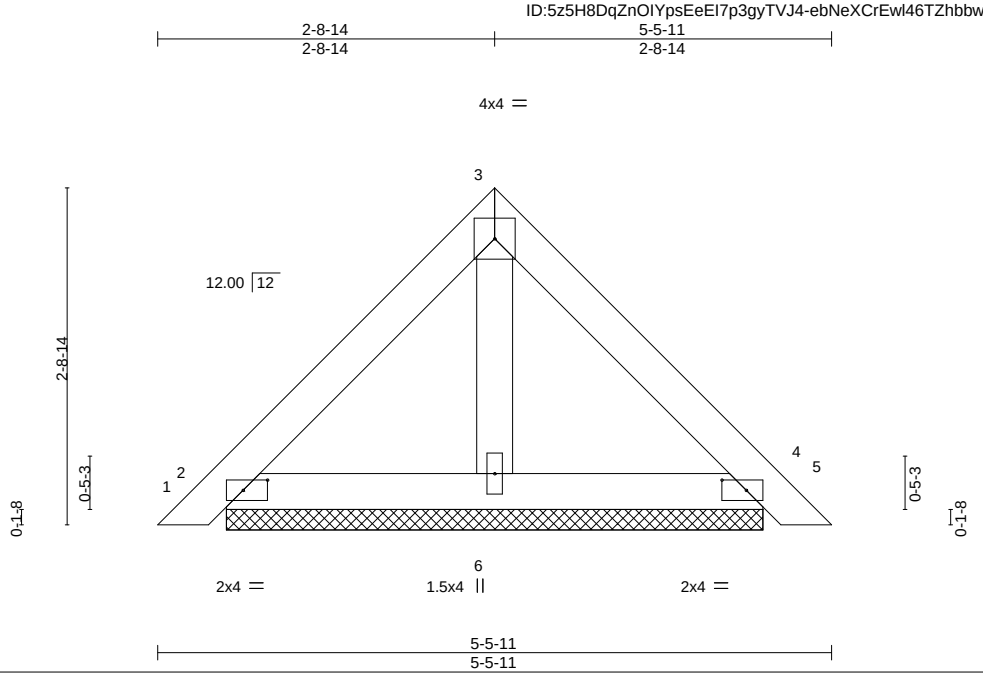


Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

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	0.23	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%

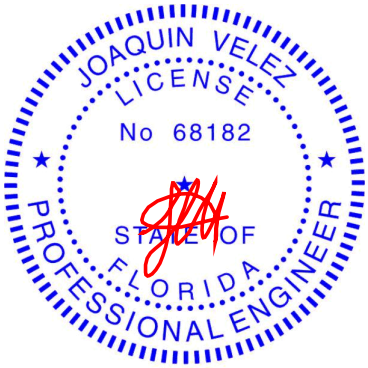
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-4-5, 4=4-4-5, 6=4-4-5
Max Horz 2=-79(LC 10)
Max Uplift 2=-59(LC 12), 4=-59(LC 12)
Max Grav 2=111(LC 1), 4=111(LC 1), 6=112(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Review for Code Compliance
Universal Engineering Science

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Date: October 15,2021

PX2707 Examiner License No. 10/15/2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	PB04	Piggyback	15	1	T25656959
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:39 2021 Page 1
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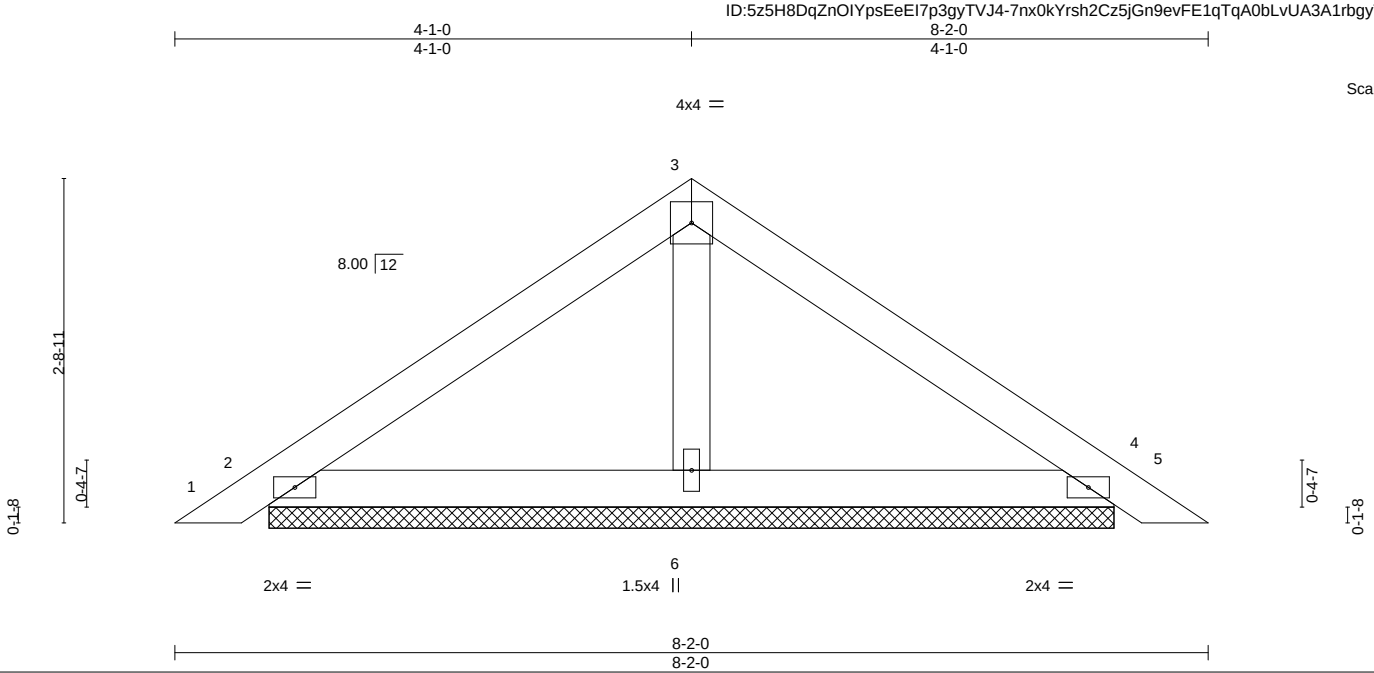


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

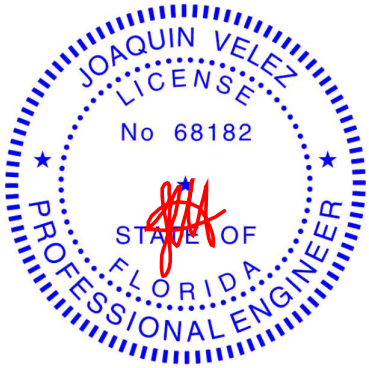
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. (size) 2=6-8-3, 4=6-8-3, 6=6-8-3
Max Horz 2=-69(LC 10)
Max Uplift 2=-77(LC 12), 4=-77(LC 12), 6=-14(LC 12)
Max Grav 2=152(LC 1), 4=152(LC 1), 6=203(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 4-1-0, Exterior(2R) 4-1-0 to 7-1-0, Interior(1) 7-1-0 to 7-10-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	PB05	Piggyback	1	1	T25656960
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:40 2021 Page 1
ID:5z5H8DqZnOlYpsEeEI7p3gyTVJ4-bzVOyusVSMKqjtrzjLQUmENdqaLG4MFJIqnP77yTTqr

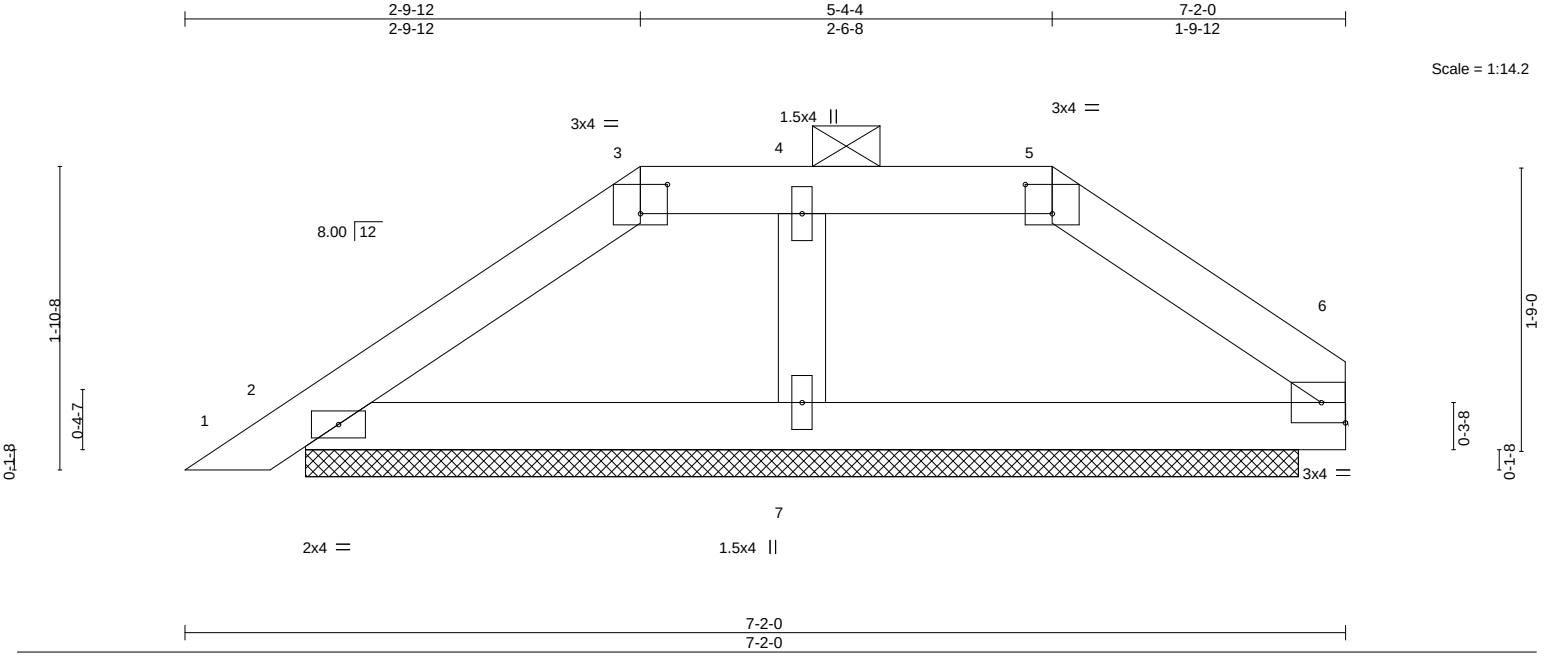


Plate Offsets (X,Y)-- [3:0-2-0,0-2-3], [5:0-2-0,0-2-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-S							Weight: 24 lb	FT = 20%

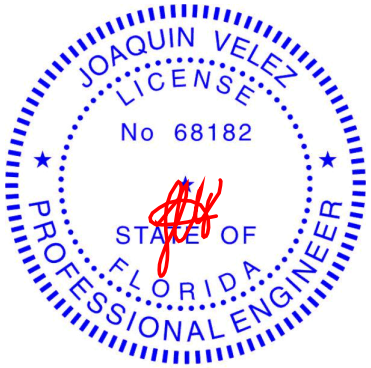
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 7-2-0 oc purlins, except 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=6-1-9, 7=6-1-9
Max Horz 2=45(LC 11)
Max Uplift 2=-68(LC 22), 7=-123(LC 12)
Max Grav 2=65(LC 21), 7=455(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-7=-363/299

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=123.
8) N/A
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

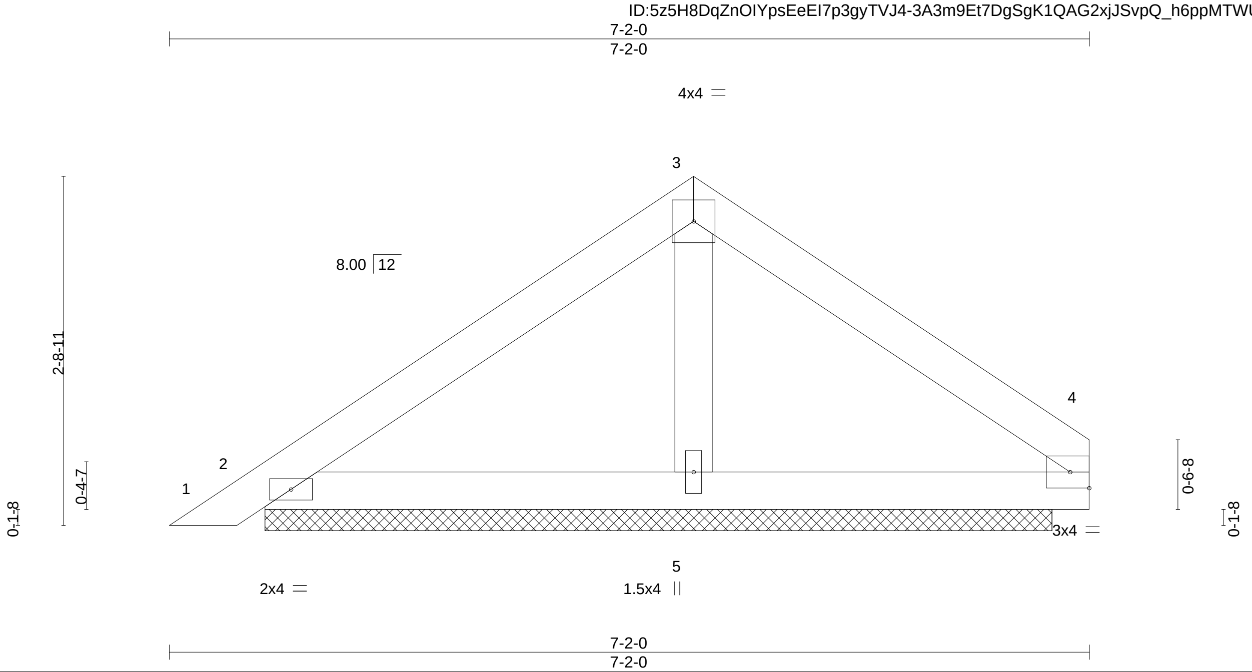
PX2707 Examiner License No. 10/15/2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	PB06	Piggyback	4	1	T25656961 Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:41 2021 Page 1

ID:5z5H8DqZnOIYpsEeEI7p3gyTVJ4-3A3m9Et7DgSgK1QAG2xjJSvpQ_h6ppMTWUWyfZyTTqq



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)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-P							Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 7-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=6-1-9, 5=6-1-9
Max Horz 2=67(LC 11)
Max Uplift 2=-43(LC 22), 5=-113(LC 12)
Max Grav 2=102(LC 21), 5=418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-5=-358/350

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 4-1-0, Exterior(2E) 4-1-0 to 7-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=113.
7) N/A
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Review for Code Compliance
Universal Engineering Sciences

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6904 Parke East Blvd. Tampa FL 33610
Date:

PX2707 October 15,2021 11/18/2021

Examiner License No.

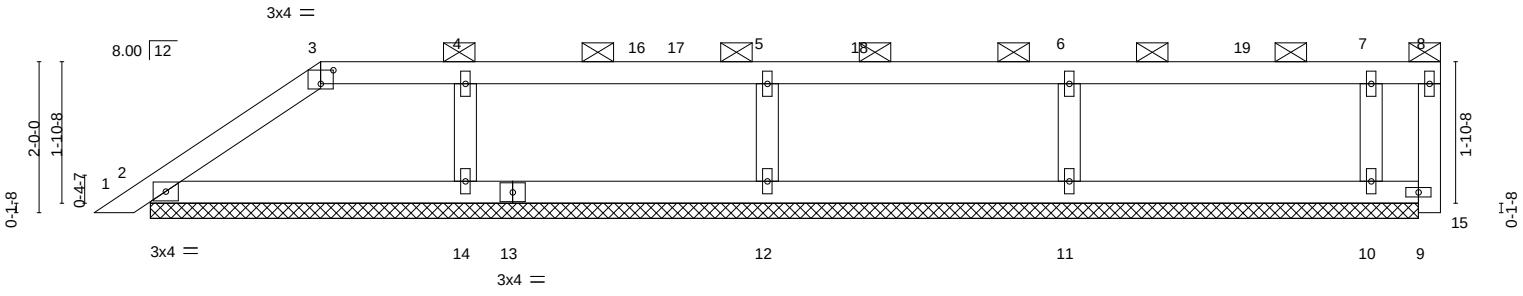
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	PB07	Piggyback	1	1	T25656962
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:42 2021 Page 1
ID:5z5H8DqZnOlYpsEeEl7p3gyTVJ4-XMd9Maul_zaXyB?MqmSysfS?3O0uYF9cl8GVC?yTTqp

3-0-0 / 3-0-0 — 17-10-0 / 14-10-0

Scale = 1:30.5



17-10-0 / 17-10-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%

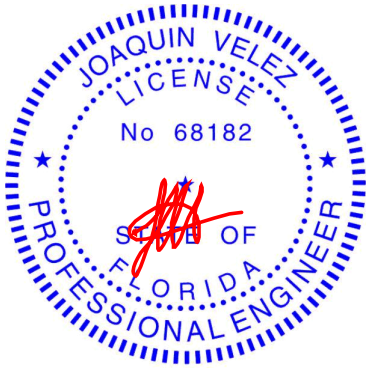
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-9-9.
(lb) - Max Horz 2=84(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 14, 11, 10, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 9 except 12=268(LC 22), 14=296(LC 1), 11=284(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-2 to 3-0-0, Exterior(2R) 3-0-0 to 7-2-15, Interior(1) 7-2-15 to 17-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 14, 11, 10, 9.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

Examiner License No. PX2707 11/15/2021

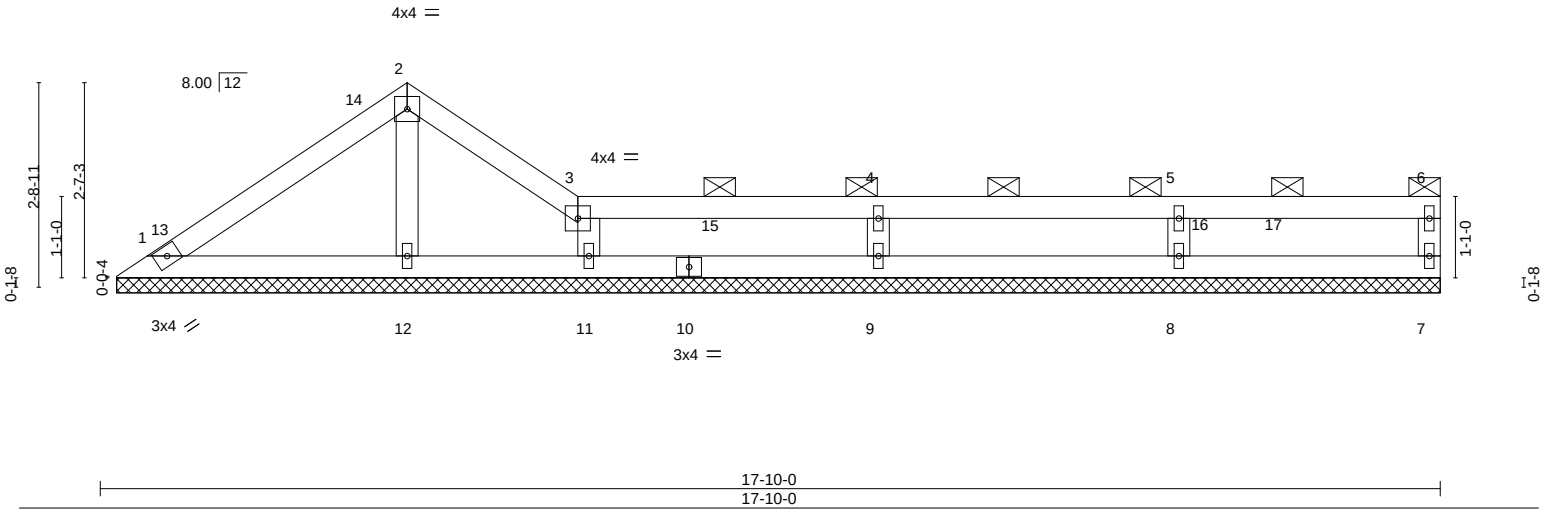
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	PB08	Piggyback	1	1	T25656963
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:43 2021 Page 1
ID:5z5H8DqZnOlYpsEeEl7p3gyTVJ4-?YBXawvNlHiOaLaYOTzBOt?A2nNUHiQm_o?3kSyTTqo

17-10-0
17-10-0

Scale = 1:30.7



17-10-0
17-10-0

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	7	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%

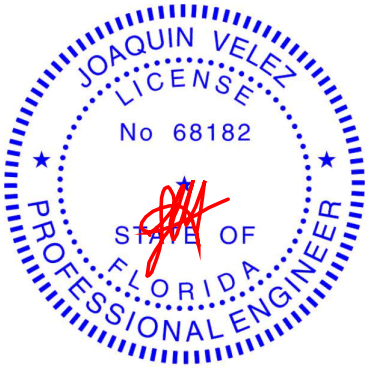
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-7-6.
(lb) - Max Horz 1=76(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 9, 8, 12
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 12 except 9=293(LC 1), 8=266(LC 22)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-8-0 to 3-8-0, Interior(1) 3-8-0 to 4-1-0, Exterior(2E) 4-1-0 to 6-4-4, Interior(1) 6-4-4 to 17-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11, 9, 8, 12.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T01	Attic	4	1	T25656964 Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:45 2021 Page 1

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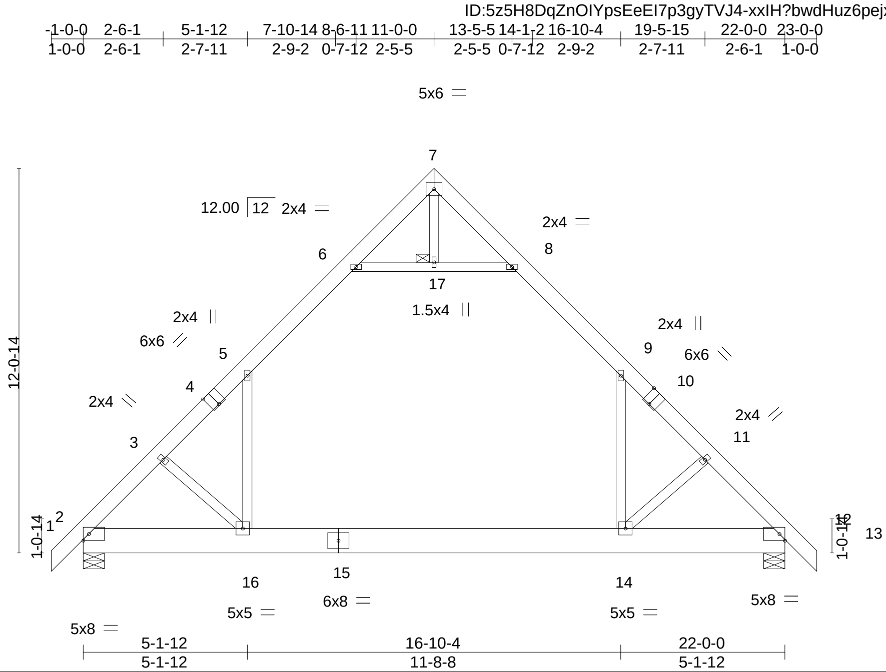

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [10:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.31	14-16	>844	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.45	14-16	>587	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	2	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS		Attic	-0.16	14-16	868	360	Weight: 204 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
1-4,10-13: 2x6 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 17

REACTIONS. (size) 2=0-8-0, 12=0-8-0
Max Horz 2=-373(LC 10)
Max Uplift 2=-139(LC 12), 12=-139(LC 12)
Max Grav 2=1213(LC 18), 12=1213(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1648/135, 3-5=-1580/146, 5-6=-860/224, 8-9=-859/224, 9-11=-1579/146, 11-12=-1647/135
BOT CHORD 2-16=-5/1282, 14-16=0/944, 12-14=-10/1156
WEBS 9-14=0/938, 5-16=0/938, 6-17=-1133/298, 8-17=-1133/298, 3-16=-471/170, 11-14=-474/170

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 13-9-0, Interior(1) 13-9-0 to 23-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-17, 8-17; Wall dead load (5.0psf) on member(s).9-14, 5-16
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (3.0 psf) applied only to room. 14-16
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=139, 12=139.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Attic room checked for L/360 deflection.

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Date:

Review for Code Compliance
Universal Engineering Sciences

PX2707 October 15,2021 11/18/2021

Examiner License No.

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T02	Attic	3	1	T25656965
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:46 2021 Page 1
ID:5z5H8DqZnOlYpsEeEI7p3gyTVJ4-P7sfCxxF2C5zRoI73cXu0VcU_?BpU?PCgmEjLmyTTql

2-6-1 | 5-1-12 | 7-10-14 | 8-6-11 | 11-0-0 | 13-5-5 | 14-1-2 | 16-10-4 | 19-5-15 | 22-0-0 | 23-0-0
2-6-1 | 2-7-11 | 2-9-2 | 0-7-12 | 2-5-5 | 2-5-5 | 0-7-12 | 2-9-2 | 2-7-11 | 2-6-1 | 1-0-0

Scale = 1:72.3

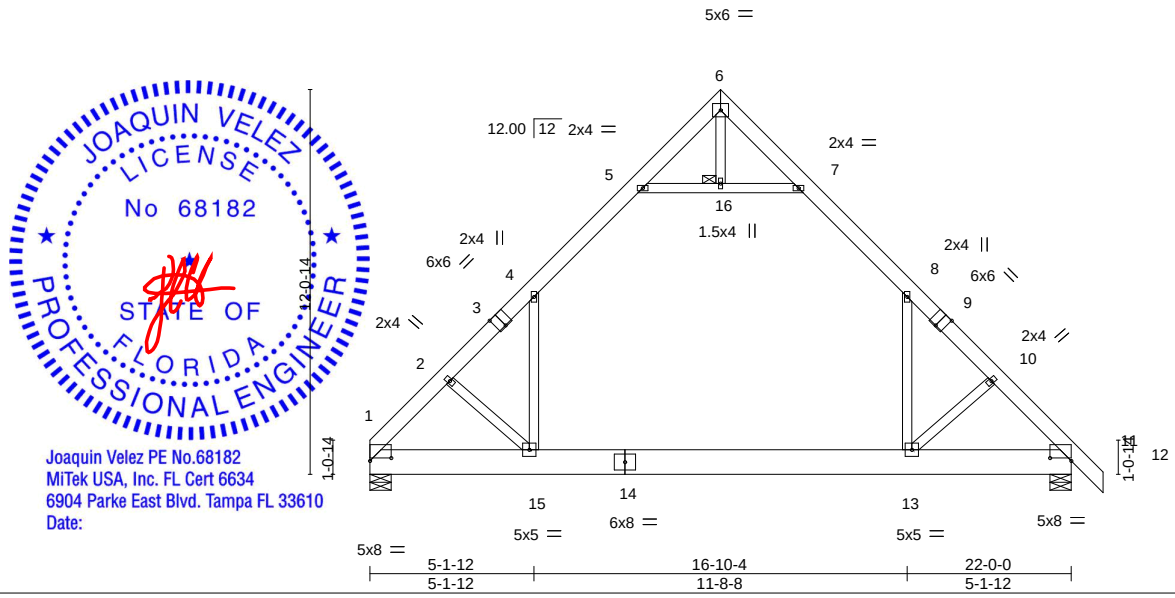


Plate Offsets (X,Y)-- [1:0-8-0,0-1-1], [3:0-3-0,Edge], [9:0-3-0,Edge], [11:0-8-0,0-1-1]

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	0.97	Vert(LL)	-0.31	13-15	>844	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.45	13-15	>587	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.01	1	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS		Attic	-0.16	13-15	868	360	Weight: 200 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
1-3,9-12: 2x6 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 1=0-8-0, 11=0-8-0
Max Horz 1=-361(LC 10)
Max Uplift 1=-92(LC 12), 11=-140(LC 12)
Max Grav 1=1167(LC 19), 11=1214(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1651/141, 2-4=-1583/152, 4-5=-860/226, 7-8=-861/225, 8-10=-1582/148, 10-11=-1650/136
BOT CHORD 1-15=-14/1290, 13-15=0/946, 11-13=-12/1158
WEBS 8-13=0/939, 4-15=0/940, 5-16=-1135/302, 7-16=-1135/302, 2-15=-479/174, 10-13=-474/170

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 13-9-0, Interior(1) 13-9-0 to 23-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-16, 7-16; Wall dead load (5.0psf) on member(s).8-13, 4-15
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (3.0 psf) applied only to room. 13-15
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 11=140.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Attic room checked for L/360 deflection.

Review for Code Compliance
Universal Engineering Science

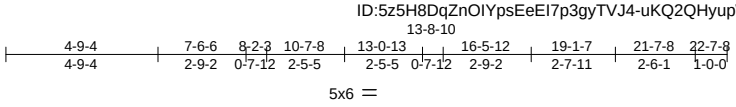
October 15,2021

PX2707 11/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T03	Attic	3	1	T25656966
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:47 2021 Page 1
ID:5z5H8DqZnOIYpsEeEI7p3gyTVJ4-uKQ2QHyupWDq2ytJdJ27Zj9g?PYQDSlLvQzGtDyTTqk



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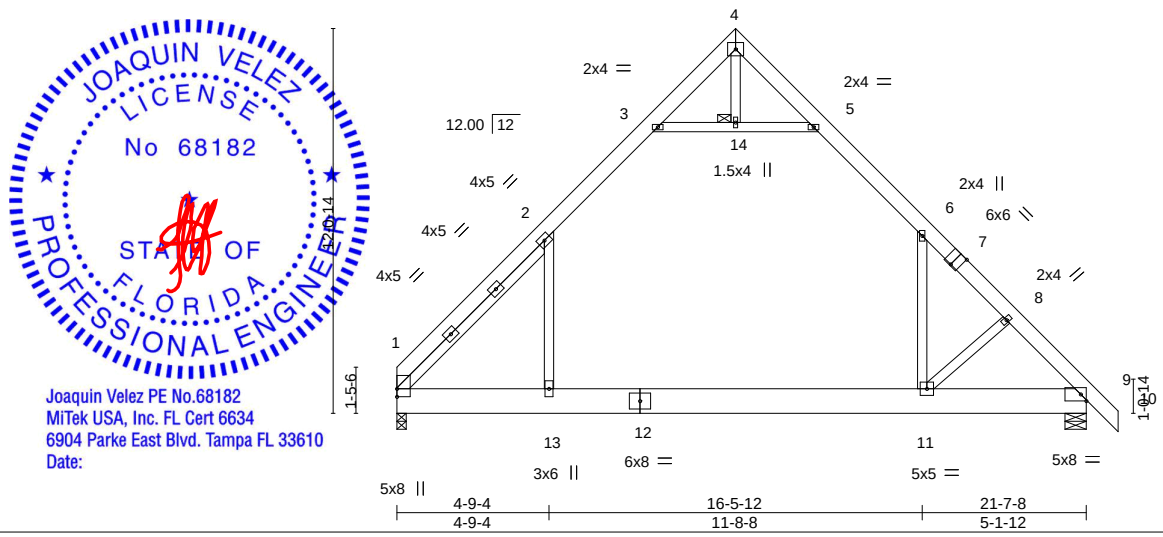

Plate Offsets (X,Y)-- [7:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	-0.30	11-13	>865	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.43	11-13	>605	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.03	1	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.16	11-13	893	360	Weight: 202 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
7-10: 2x6 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 6-6-12

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 14

REACTIONS. (size) 1=0-3-8, 9=0-8-0
Max Horz 1=-354(LC 10)
Max Uplift 1=-87(LC 12), 9=-139(LC 12)
Max Grav 1=1169(LC 19), 9=1194(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1038/190, 2-3=-846/227, 5-6=-839/222, 6-8=-1546/147, 8-9=-1614/136
BOT CHORD 1-13=0/923, 11-13=0/923, 9-11=-11/1135
WEBS 2-13=-10/766, 6-11=0/920, 3-14=-1110/305, 5-14=-1110/305, 8-11=-470/171

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-7-8, Exterior(2R) 10-7-8 to 13-4-8, Interior(1) 13-4-8 to 22-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-14, 5-14; Wall dead load (5.0psf) on member(s).2-13, 6-11
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (3.0 psf) applied only to room. 11-13
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=139.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Attic room checked for L/360 deflection.

Review for Code Compliance
Universal Engineering Science

October 15 2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T04	Common	1	1	T25656967
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:48 2021 Page 1
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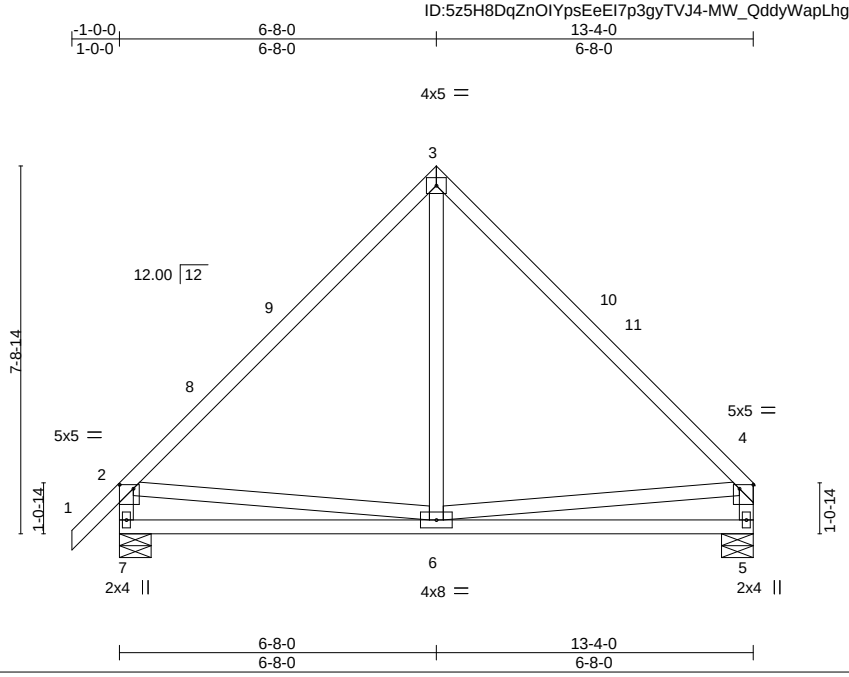


Plate Offsets (X,Y)-- [2:0-3-8,0-1-0], [4:Edge,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.06	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 82 lb	FT = 20%

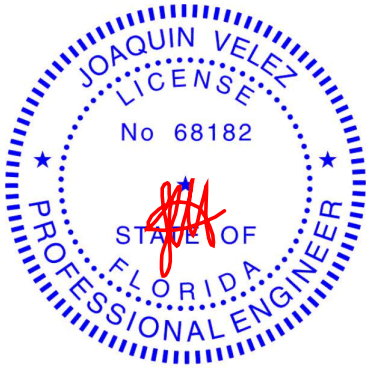
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 7=0-8-0, 5=0-8-0
Max Horz 7=260(LC 11)
Max Uplift 7=-175(LC 12), 5=-120(LC 12)
Max Grav 7=508(LC 1), 5=441(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-440/233, 3-4=-434/225, 2-7=-465/308, 4-5=-398/237
BOT CHORD 6-7=-381/471
WEBS 2-6=-268/360, 4-6=-221/277

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-8-0, Exterior(2R) 6-8-0 to 9-8-0, Interior(1) 9-8-0 to 13-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 100 lb uplift at joint(s) except (jt=lb) 7=175, 5=120.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

Lawrence Parnell PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T05	GABLE I I	1	1	T25656968
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:49 2021 Page 1
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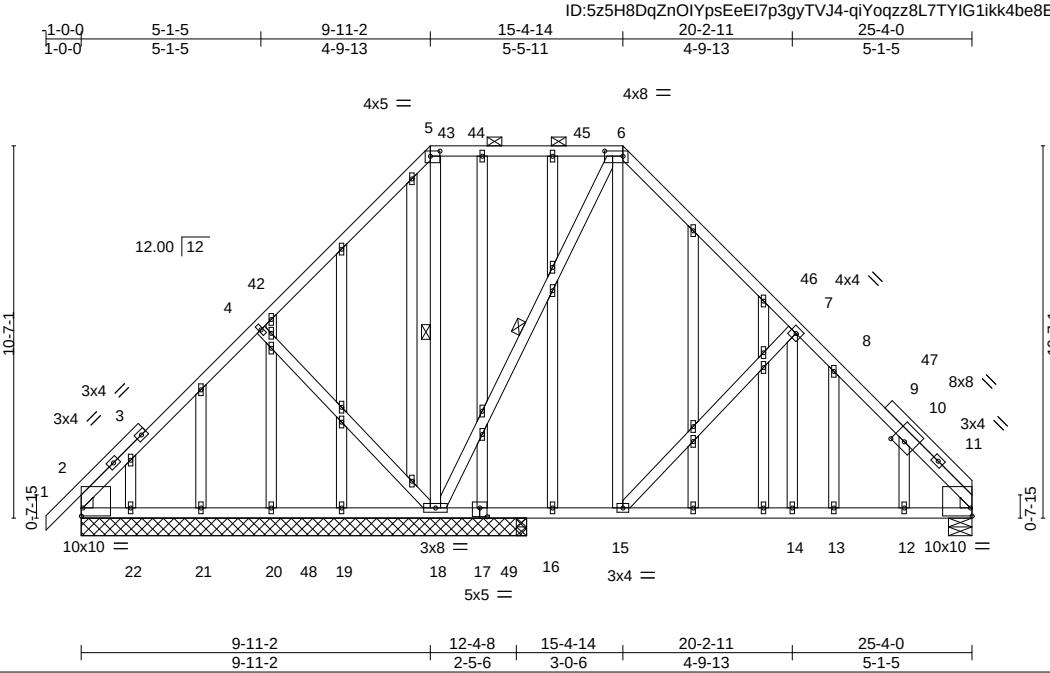

Plate Offsets (X,Y)-- [2:Edge,0-2-12], [5:0-3-4,0-1-12], [6:0-6-4,0-1-12], [10:0-4-0,0-2-8], [11:Edge,0-2-12], [17:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.02	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.03	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.01	11	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 274 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-18, 6-18

REACTIONS. All bearings 12-8-0 except (jt=length) 11=0-8-0, 16=0-3-8.
(lb) - Max Horz 2=327(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 22 except 2=-113(LC 12), 11=-138(LC 12), 18=-273(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 19, 20, 21, 22, 16 except 2=270(LC 21), 11=599(LC 18), 18=882(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-303/132, 6-7=-377/235, 7-8=-520/193, 8-10=-556/182, 10-11=-642/130
BOT CHORD 2-22=-197/262, 21-22=-197/262, 20-21=-197/262, 19-20=-197/262, 18-19=-197/262, 14-15=-27/366, 13-14=-28/363, 12-13=-28/363, 11-12=-28/363
WEBS 4-18=-265/254, 5-18=-313/90, 6-18=-513/160, 6-15=-124/401, 7-15=-389/233

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=4.2psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-11-2, Exterior(2R) 9-11-2 to 14-2-1, Interior(1) 14-2-1 to 15-4-14, Exterior(2R) 15-4-14 to 19-7-12, Interior(1) 19-7-12 to 25-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live l
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a recta 6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22 except (jt=lb) 2=113, 11=138, 18=273.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum applied directly to the bottom chord.

Continued on page 2

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Review for Code Compliance
Universal Engineering Sciences

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 11/14/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T05	GABLE I I	1	1	T25656968
					Job Reference (optional)

NOTES-

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Review for Code Compliance
Universal Engineering Science

Lawrence Parnell PX2707 11/18/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T06	Piggyback Base	2	1	T25656969 Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:50 2021 Page 1

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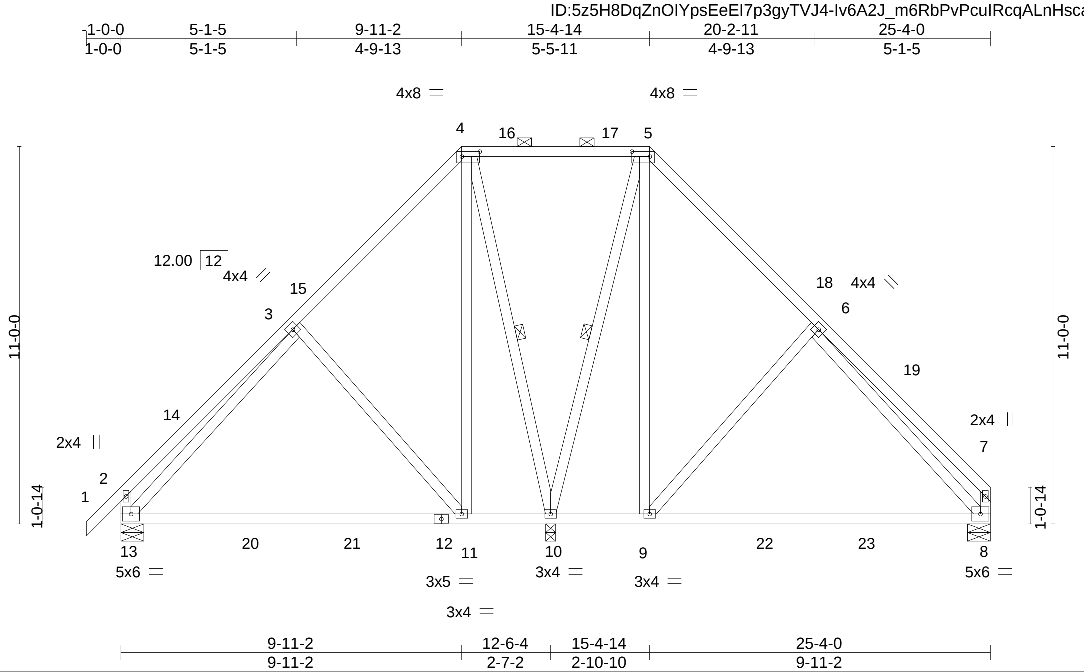

Plate Offsets (X,Y)-- [4:0-6-4,0-1-12], [5:0-6-4,0-1-12]

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	0.53	Vert(LL)	-0.31	8-9	>493	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.45	8-9	>335	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.01	8	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 198 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-10, 5-10

REACTIONS. (size) 10=0-3-8, 13=0-8-0, 8=0-8-0
Max Horz 13=365(LC 11)
Max Uplift 10=-254(LC 12), 13=-157(LC 12), 8=-107(LC 12)
Max Grav 10=857(LC 17), 13=629(LC 17), 8=631(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-567/180, 3-4=-411/199, 5-6=-424/188, 6-7=-572/151, 2-13=-542/228, 7-8=-481/151
BOT CHORD 11-13=-155/496, 10-11=-115/318, 9-10=-40/273, 8-9=-28/324
WEBS 3-11=-277/258, 4-11=-95/556, 4-10=-659/171, 5-10=-587/151, 5-9=-98/545, 6-9=-278/258

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=4.2psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-11-2, Exterior(2R) 9-11-2 to 14-2-1, Interior(1) 14-2-1 to 15-4-14, Exterior(2R) 15-4-14 to 19-7-12, Interior(1) 19-7-12 to 25-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 7.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=254, 13=157, 8=107.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Review for Code Compliance
Universal Engineering Science

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

PX2707 October 15,2021 11/18/2021

Examiner License No.

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

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T07	Piggyback Base Girder	1	2	T25656970
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:52 2021 Page 1
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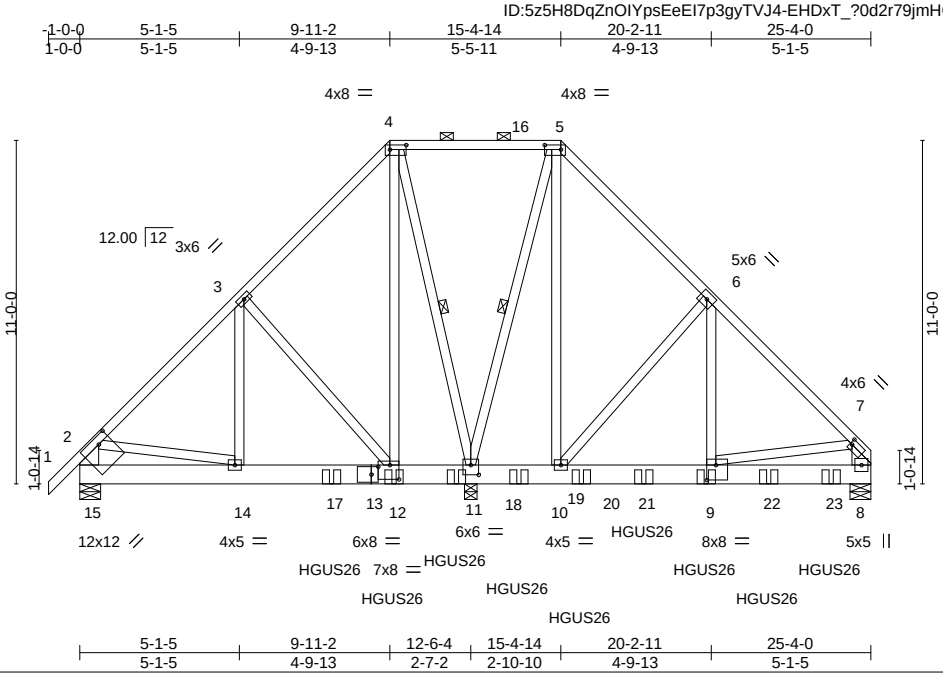

Plate Offsets (X,Y)-- [4:0-6-4,0-1-12], [5:0-6-4,0-1-12], [7:0-0-12,0-2-0], [9:0-3-8,0-5-12], [11:0-3-0,0-3-12], [12:0-3-8,0-5-8], [13:0-2-11,0-3-0], [15:0-4-12,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	0.08	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.10	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.01	8	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 492 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP No.2
WEBS 2x4 SP No.2 *Except*
2-15,7-8: 2x8 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.
WEBS 1 Row at midpt 4-11, 5-11

REACTIONS. (size) 15=0-8-0, 11=0-4-13, 8=0-8-0
Max Horz 15=363(LC 7)
Max Uplift 15=-767(LC 8), 11=-3025(LC 8), 8=-1005(LC 8)
Max Grav 15=1362(LC 29), 11=8145(LC 2), 8=4126(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1676/981, 3-4=-795/572, 5-6=-1064/358, 6-7=-3388/836, 2-15=-1517/908, 7-8=-2702/679
BOT CHORD 14-15=-351/431, 12-14=-829/1318, 11-12=-520/648, 10-11=-282/742, 9-10=-523/2345, 8-9=-245/929
WEBS 3-14=-689/1155, 3-12=-1075/716, 4-12=-1730/2775, 4-11=-2623/1520, 5-11=-3104/739, 5-10=-828/3467, 6-10=-2508/804, 6-9=-794/3324, 2-14=-717/1162, 7-9=-334/1439

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, 2x8 - 2 rows staggered 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=4.2psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=767, 11=3025, 8=1005.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie HGUS26 (20-SD10212 Girder, 8-SD10212 Truss) or equivalent at 8-0-12 from the left end to connect truss(es) to back face of bottom chord.

Continued on page 2

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Review for Code Compliance
Universal Engineering Sciences

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Date: October 15,2021

PX2707 Examiner License No. 11/19/2021

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NOTES-

12) Use Simpson Strong-Tie HGUS26 (20-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-0-12 from the left end to 24-0-12 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-4=-54, 4-5=-54, 5-7=-54, 8-15=-14
   Concentrated Loads (lb)
   Vert: 12=-901(B) 9=-1087(B) 17=-2122(B) 18=-901(B) 19=-1103(B) 20=-1103(B) 21=-1103(B) 22=-1087(B) 23=-1087(B)

Review for Code Compliance
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PX2707 11/18/2021
Examiner License No.

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6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T08	Roof Special Girder	1	1	T25656971
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:54 2021 Page 1
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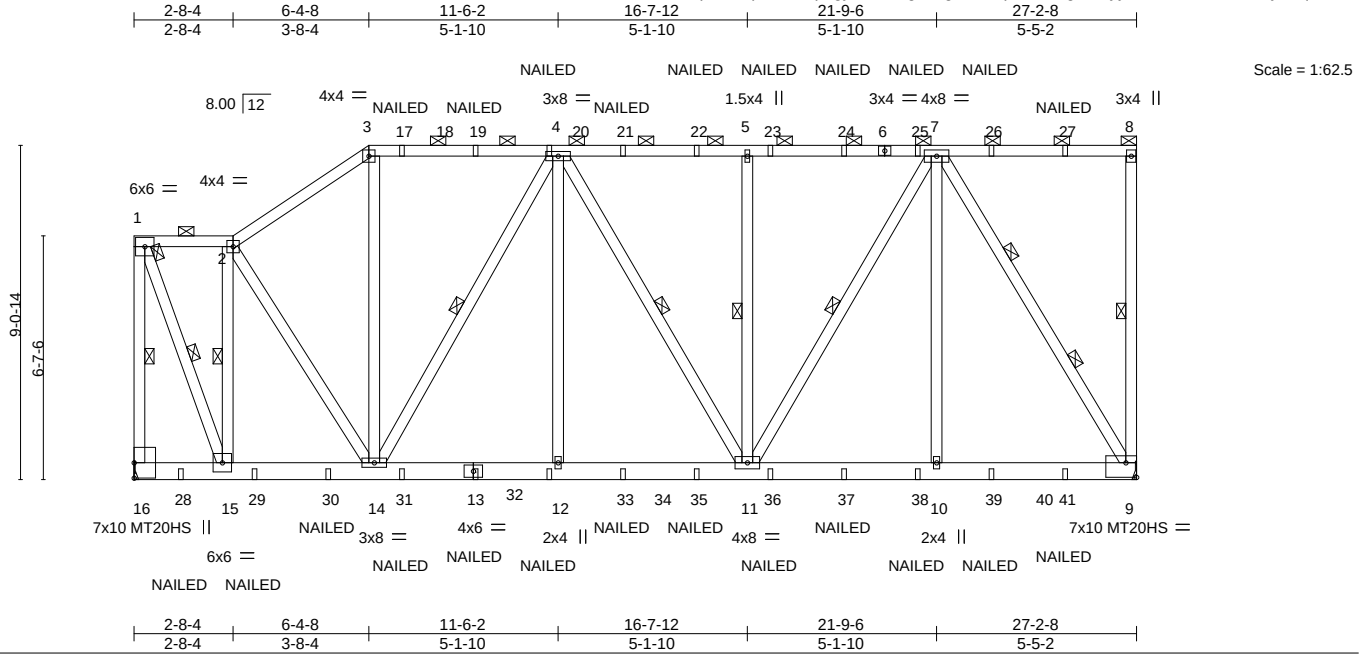

Plate Offsets (X,Y)-- [9:Edge,0-4-12]

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	0.59	Vert(LL)	0.14	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.14	11-12	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(CT)	-0.04	9	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 261 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-1 max.): 1-2, 3-8.
BOT CHORD Rigid ceiling directly applied or 6-0-2 oc bracing.
WEBS 1 Row at midpt 1-16, 8-9, 1-15, 2-15, 4-14, 4-11, 5-11, 7-11
2 Rows at 1/3 pts 7-9

REACTIONS. (size) 16=Mechanical, 9=Mechanical
Max Horz 16=368(LC 5)
Max Uplift 16=-1623(LC 8), 9=-1687(LC 5)
Max Grav 16=2869(LC 26), 9=2760(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-2698/1577, 1-2=-1088/677, 2-3=-2032/1271, 3-4=-1699/1111, 4-5=-2166/1426, 5-7=-2166/1426
BOT CHORD 15-16=-343/227, 14-15=-862/1224, 12-14=-1484/2296, 11-12=-1484/2296, 10-11=-986/1497, 9-10=-986/1497
WEBS 1-15=-1624/2799, 2-15=-2103/1250, 2-14=-701/1108, 3-14=-479/806, 4-14=-1190/754, 4-12=-286/654, 5-11=-396/348, 7-11=-869/1388, 7-10=-362/771, 7-9=-2802/1722

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=1623, 9=1687.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
11) 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

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Continued on page 2

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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: 1-2=-54, 2-3=-54, 3-8=-54, 9-16=-14
   Concentrated Loads (lb)
   Vert: 13=-146(F) 4=-43(F) 12=-146(F) 17=-43(F) 19=-43(F) 21=-43(F) 22=-43(F) 23=-43(F) 24=-43(F) 25=-43(F) 26=-43(F) 27=-43(F) 28=-243(F) 29=-243(F) 30=-243(F) 31=-146(F) 33=-146(F) 35=-146(F) 36=-146(F) 37=-146(F) 38=-146(F) 39=-146(F) 41=-146(F)

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T09	Piggyback Base	3	1	T25656972
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:56 2021 Page 1
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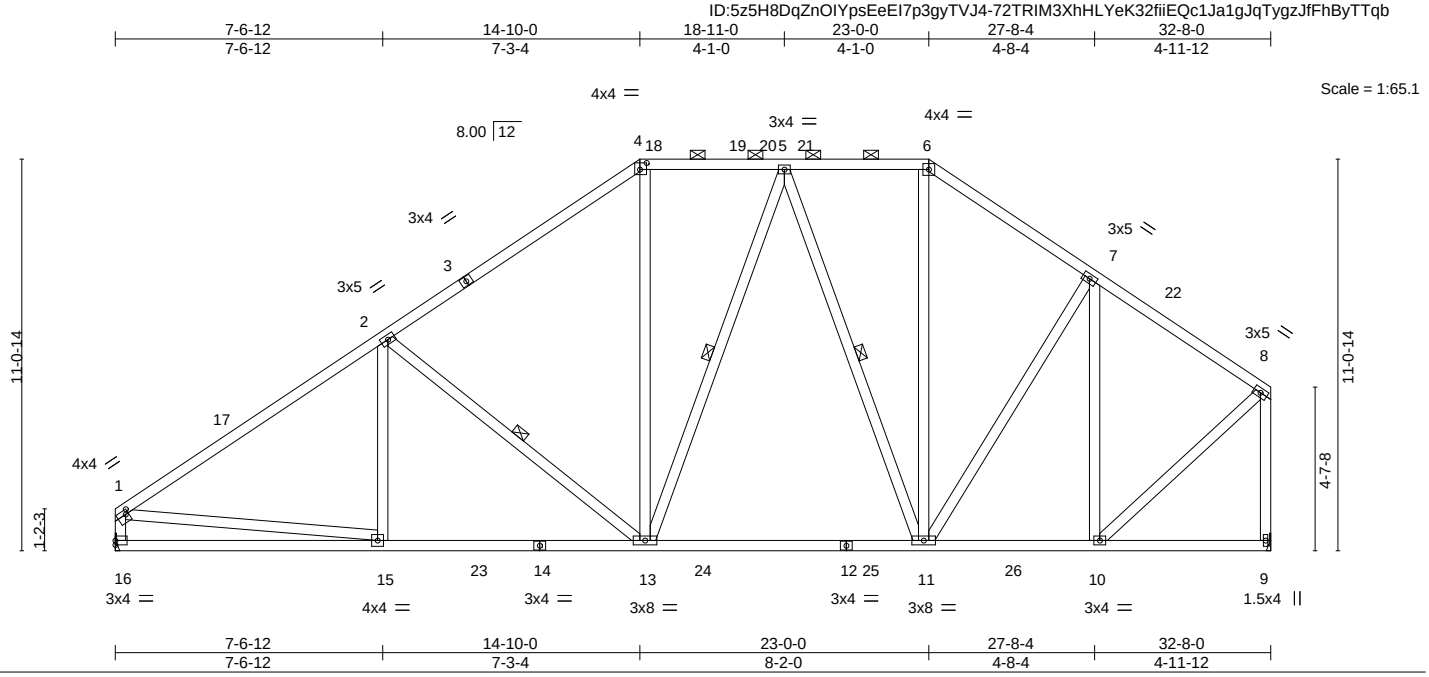


Plate Offsets (X,Y)-- [1:0-1-0,0-1-8], [4:0-2-4,0-2-4]

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	0.52	Vert(LL)	-0.17	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.25	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.04	9	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 242 lb	FT = 20%

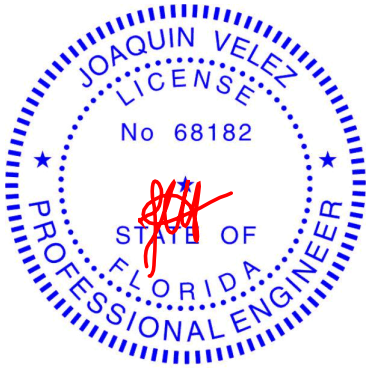
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-7-4 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 5-13, 5-11

REACTIONS. (size) 16=Mechanical, 9=Mechanical
Max Horz 16=374(LC 11)
Max Uplift 16=-299(LC 12), 9=-303(LC 12)
Max Grav 16=1335(LC 17), 9=1291(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1720/414, 2-4=-1316/424, 4-5=-1041/416, 5-6=-873/376, 6-7=-1089/401, 7-8=-957/300, 1-16=-1231/327, 8-9=-1226/325
BOT CHORD 15-16=-309/503, 13-15=-430/1544, 11-13=-264/1049, 10-11=-214/751
WEBS 2-13=-534/235, 4-13=-72/438, 5-11=-406/139, 6-11=-100/384, 1-15=-156/1071, 7-11=-62/293, 7-10=-511/193, 8-10=-218/969

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=4.2psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-4-15, Interior(1) 3-4-15 to 14-10-0, Exterior(2R) 14-10-0 to 19-5-7, Interior(1) 19-5-7 to 23-0-0, Exterior(2R) 23-0-0 to 27-8-4, Interior(1) 27-8-4 to 32-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 7.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=299, 9=303.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date: October 15,2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T10	Piggyback Base	9	1	T25656973
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:57 2021 Page 1
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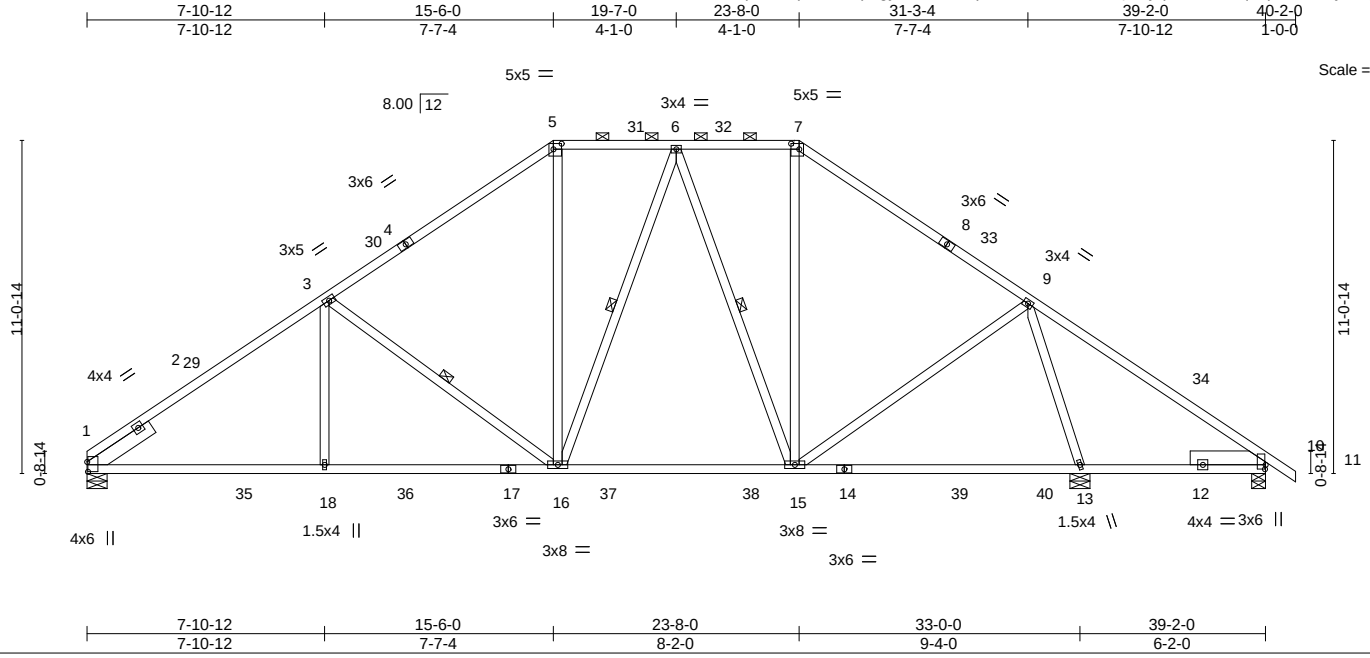

Plate Offsets (X,Y)-- [1:0-3-15,0-0-5], [5:0-3-4,0-2-4], [7:0-3-4,0-2-4], [10:0-1-11,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.19	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.29	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.05	13	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 248 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-6-4 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-16, 6-16, 6-15

REACTIONS. (size) 1=0-8-0, 13=0-8-0, 10=0-5-8
Max Horz 1=-316(LC 10)
Max Uplift 1=-324(LC 12), 13=-270(LC 12), 10=-180(LC 12)
Max Grav 1=1379(LC 17), 13=1747(LC 18), 10=234(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1792/467, 3-5=-1290/452, 5-6=-1027/445, 6-7=-832/413, 7-9=-1069/416, 9-10=-79/374
BOT CHORD 1-18=-257/1624, 16-18=-257/1624, 15-16=-78/1021, 13-15=-92/314, 10-13=-308/592
WEBS 3-18=0/321, 3-16=-615/246, 5-16=-72/395, 6-16=-69/326, 6-15=-465/130, 7-15=-56/298, 9-15=0/754, 9-13=-1478/347

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=4.2psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-11-0, Interior(1) 3-11-0 to 15-6-0, Exterior(2R) 15-6-0 to 21-0-7, Interior(1) 21-0-7 to 23-8-0, Exterior(2R) 23-8-0 to 29-2-7, Interior(1) 29-2-7 to 40-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=324, 13=270, 10=180.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T11	Roof Special	1	1	T25656974
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:58 2021 Page 1
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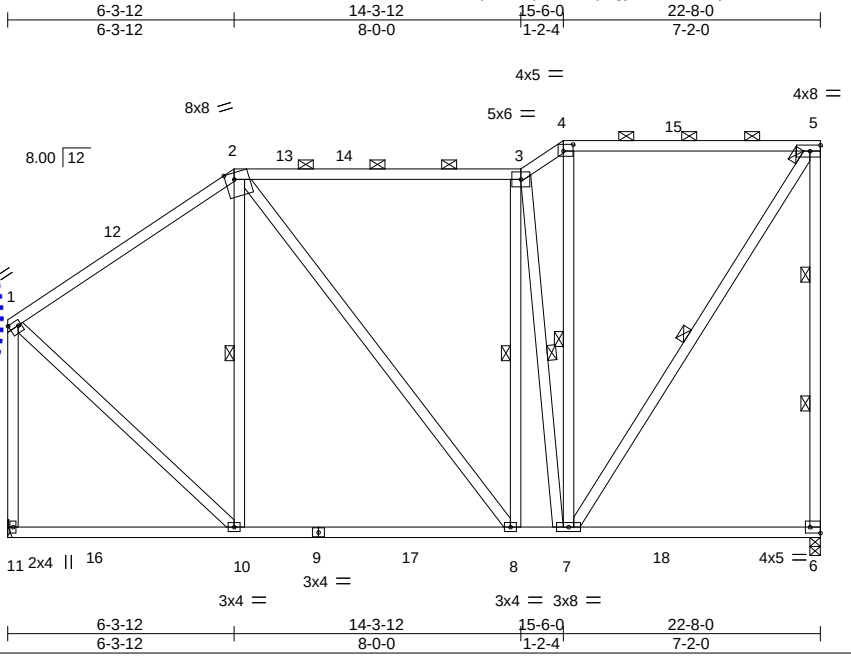

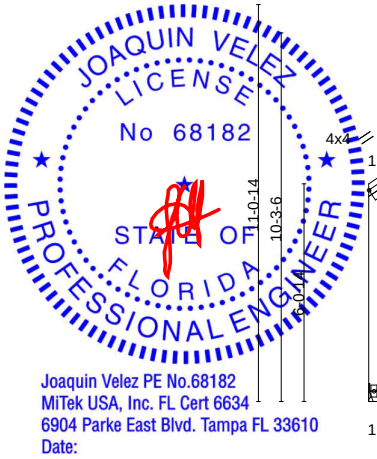

Joaquin Velez PE No.68182
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Date:

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	-0.13	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.19	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	6	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 202 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3, 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-10, 3-8, 3-7, 4-7, 5-7
2 Rows at 1/3 pts 5-6

REACTIONS. (size) 6=0-3-8, 11=Mechanical
Max Horz 11=462(LC 9)
Max Uplift 6=-315(LC 9), 11=-196(LC 12)
Max Grav 6=987(LC 17), 11=934(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-647/238, 2-3=-557/292, 3-4=-624/371, 4-5=-485/299, 5-6=-847/395, 1-11=-837/310
BOT CHORD 10-11=-572/529, 8-10=-497/654, 7-8=-375/584
WEBS 3-7=-629/297, 5-7=-388/838, 1-10=-196/657

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-3-12, Exterior(2R) 6-3-12 to 9-3-12, Interior(1) 9-3-12 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 22-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 7.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=315, 11=196.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Review for Code Compliance
Universal Engineering Science

October 15,2021

Examiner License No. PX2707

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T12	Piggyback Base	1	1	T25656975 Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:04:59 2021 Page 1
ID:5z5H8DqZnOIYpsEeEI7p3gyTVJ4-Xd8axO5P_Cj7VoodKqGx2FfiuEkV1r86fHtvIWyTTqY

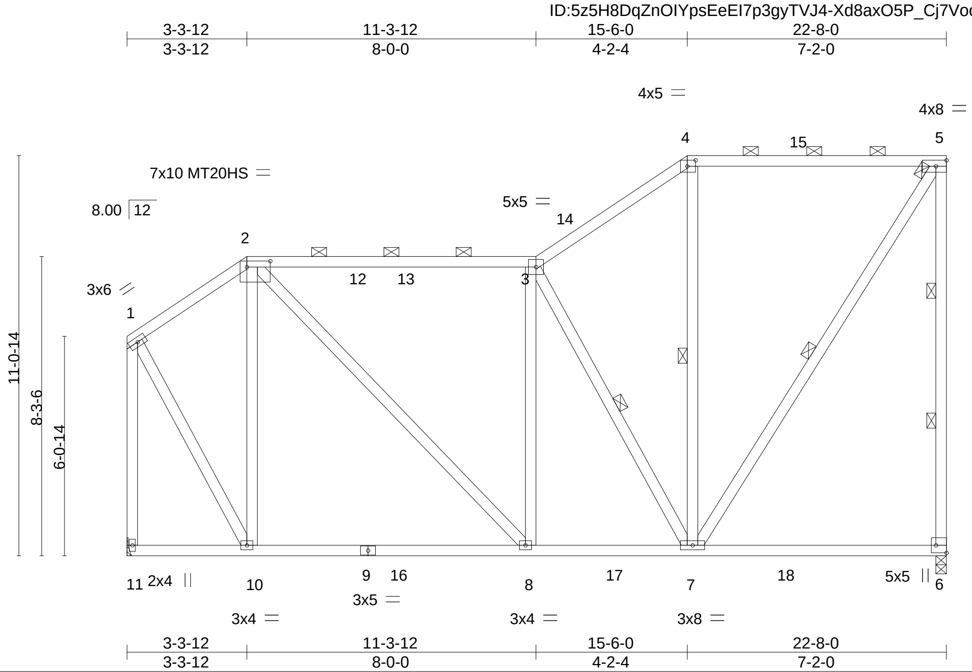

Plate Offsets (X,Y)-- [2:0-7-12,0-2-0], [4:0-2-12,0-2-0], [6:Edge,0-3-8]

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	0.96	Vert(LL)	-0.13	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.20	8-10	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.01	6	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 189 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-0 max.): 2-3, 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-7, 4-7, 5-7
2 Rows at 1/3 pts 5-6

REACTIONS. (size) 6=0-3-8, 11=Mechanical
Max Horz 11=462(LC 9)
Max Uplift 6=-300(LC 9), 11=-196(LC 12)
Max Grav 6=1002(LC 17), 11=931(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-510/200, 2-3=-715/269, 3-4=-642/312, 4-5=-474/296, 5-6=-857/405, 1-11=-931/289
BOT CHORD 10-11=-573/514, 8-10=-553/653, 7-8=-473/787
WEBS 2-10=-434/293, 2-8=-191/533, 3-7=-589/275, 5-7=-397/845, 1-10=-257/794

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-3-12, Exterior(2R) 3-3-12 to 6-3-12, Interior(1) 6-3-12 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 22-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=300, 11=196.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Review for Code Compliance
Universal Engineering Sciences

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 15,2021

PX2707 11/18/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T13	Piggyback Base	1	1	T25656976
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:05:00 2021 Page 1
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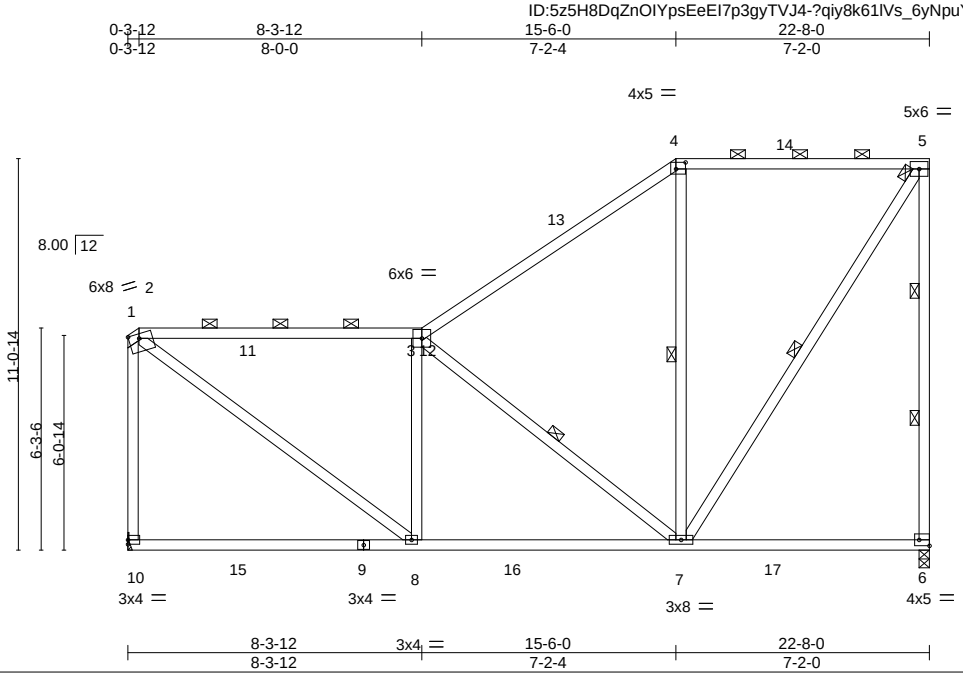


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-3-4,0-2-4], [6:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.14	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.21	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.01	6	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 164 lb	FT = 20%

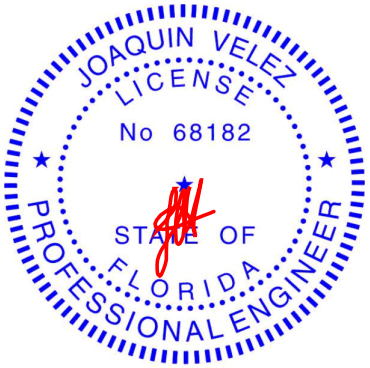
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-11 max.): 2-3, 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-7, 4-7, 5-7
2 Rows at 1/3 pts 5-6

REACTIONS. (size) 6=0-3-8, 10=Mechanical
Max Horz 10=463(LC 11)
Max Uplift 6=-290(LC 9), 10=-197(LC 12)
Max Grav 6=999(LC 17), 10=936(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-562/221, 2-3=-858/262, 3-4=-676/275, 4-5=-464/297, 5-6=-861/398, 1-10=-787/322
BOT CHORD 8-10=-563/545, 7-8=-555/992
WEBS 2-8=-337/1027, 3-8=-388/297, 3-7=-616/274, 4-7=-207/260, 5-7=-398/862

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 0-3-12, Exterior(2R) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior(1) 18-6-0 to 22-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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 = 7.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=290, 10=197.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

Examiner License No. PX2707 10/15/2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T14	Piggyback Base	2	1	T25656977
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:05:03 2021 Page 1
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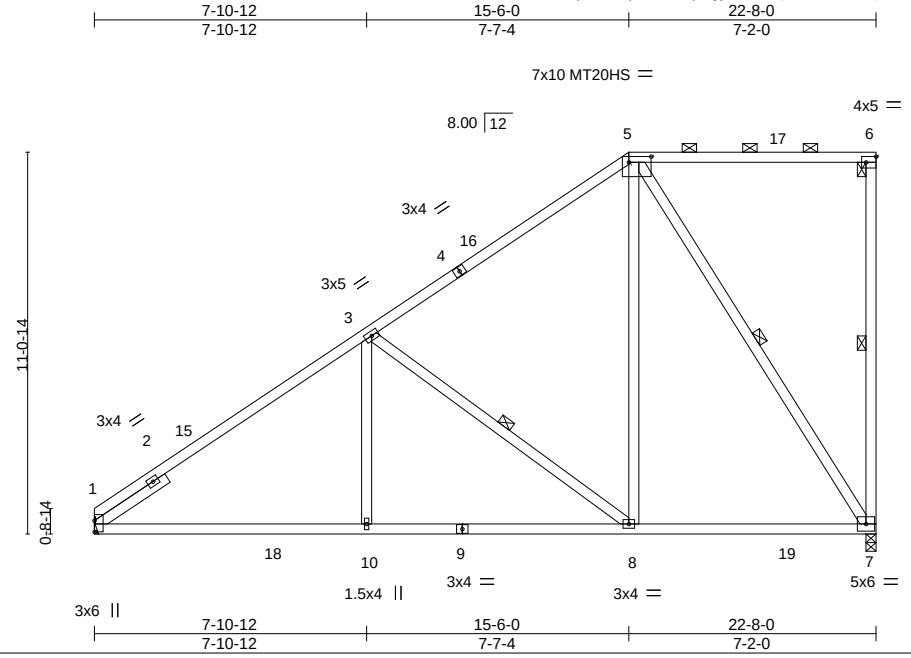


Scale = 1:66.8

Plate Offsets (X,Y)-- [1:Edge,0-0-0], [5:0-7-12,0-2-0], [6:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.11	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.15	7-8	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.03	7	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 148 lb	FT = 20%

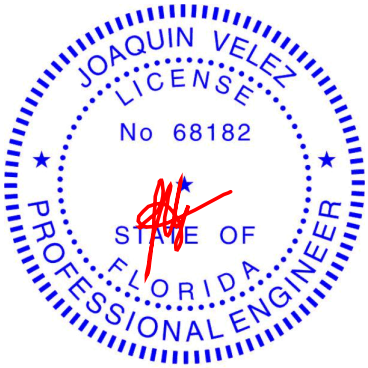
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 2-6-0

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

REACTIONS. (size) 7=0-3-8, 1=Mechanical
Max Horz 1=475(LC 11)
Max Uplift 7=-292(LC 9), 1=-193(LC 12)
Max Grav 7=1013(LC 17), 1=958(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1165/279, 3-5=-696/282
BOT CHORD 1-10=-505/1112, 8-10=-505/1112, 7-8=-313/550
WEBS 3-10=0/356, 3-8=-709/273, 5-8=-125/689, 5-7=-916/346

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 15-6-0, Exterior(2R) 15-6-0 to 19-8-14, Interior(1) 19-8-14 to 22-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=292, 1=193.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T15	Piggyback Base	1	1	T25656978
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:05:09 2021 Page 1
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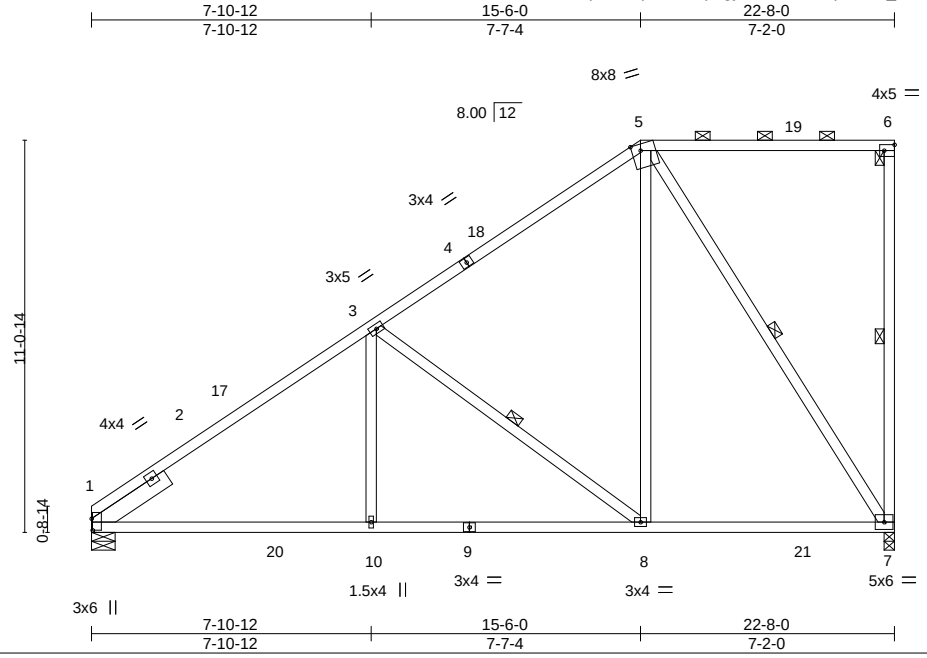


Plate Offsets (X,Y)-- [1:0-3-15,0-0-5], [5:0-3-0,Edge], [6:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.11	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.15	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.03	7	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 150 lb	FT = 20%

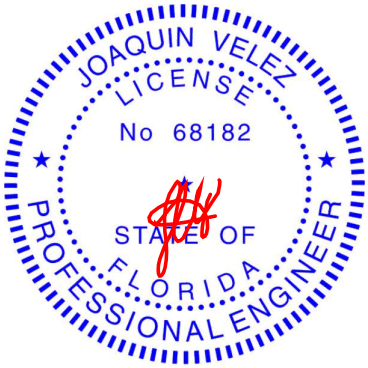
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 2-6-0

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

REACTIONS. (size) 7=0-3-8, 1=0-8-0
Max Horz 1=475(LC 11)
Max Uplift 7=-292(LC 9), 1=-196(LC 12)
Max Grav 7=999(LC 17), 1=972(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1149/271, 3-5=-684/279
BOT CHORD 1-10=-504/1061, 8-10=-504/1061, 7-8=-313/542
WEBS 3-10=0/339, 3-8=-655/262, 5-8=-119/663, 5-7=-903/346

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 15-6-0, Exterior(2R) 15-6-0 to 19-8-14, Interior(1) 19-8-14 to 22-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 7.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=292, 1=196.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

Laurence Parnell PX2707 10/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T16	Piggyback Base	1	1	T25656979
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:05:11 2021 Page 1
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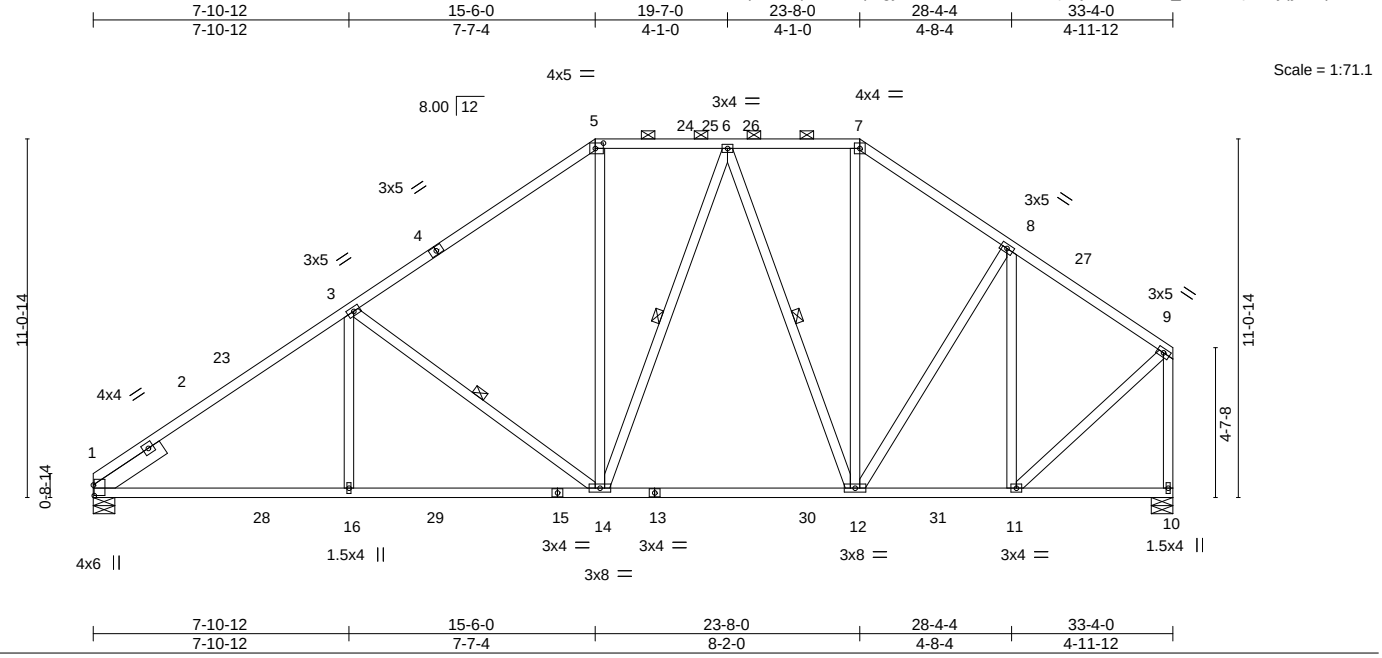


Plate Offsets (X,Y)-- [1:0-3-15,0-0-5], [5:0-3-0,0-2-0]

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	0.89	Vert(LL)	-0.18	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.27	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.05	10	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 239 lb	FT = 20%

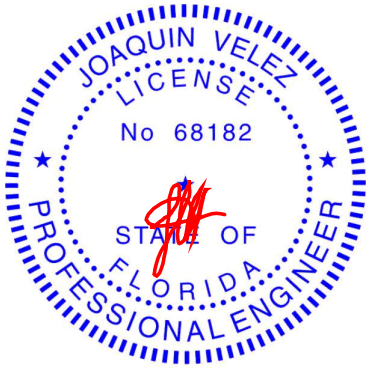
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-4-5 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-14, 6-14, 6-12

REACTIONS. (size) 1=0-8-0, 10=0-8-0
Max Horz 1=373(LC 11)
Max Uplift 1=-310(LC 12), 10=-307(LC 12)
Max Grav 1=1419(LC 17), 10=1315(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1857/444, 3-5=-1365/427, 5-6=-1089/424, 6-7=-895/380, 7-8=-1114/406, 8-9=-976/303, 9-10=-1251/330
BOT CHORD 1-16=-446/1655, 14-16=-446/1655, 12-14=-268/1081, 11-12=-216/767
WEBS 3-16=0/313, 3-14=-597/250, 5-14=-63/433, 6-14=-73/283, 6-12=-433/141, 7-12=-102/396, 8-12=-61/305, 8-11=-525/195, 9-11=-221/992

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=4.2psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-4-0, Interior(1) 3-4-0 to 15-6-0, Exterior(2R) 15-6-0 to 20-2-9, Interior(1) 20-2-9 to 23-8-0, Exterior(2R) 23-8-0 to 28-4-4, Interior(1) 28-4-4 to 33-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 7.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=310, 10=307.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

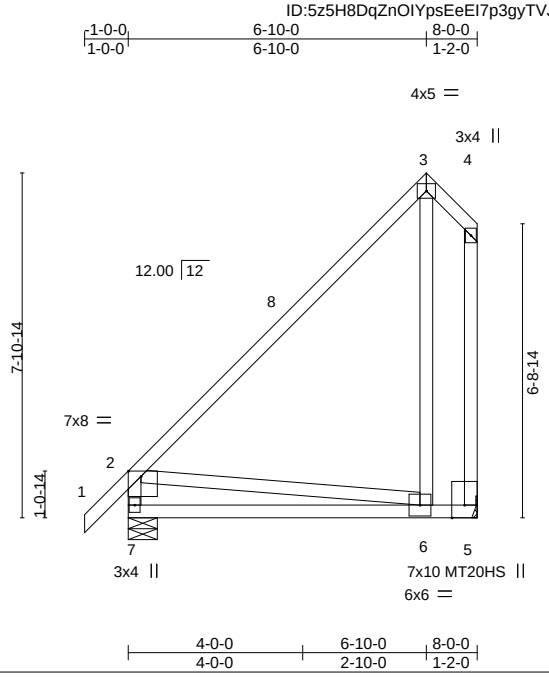
Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

PX2707 11/15/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T17	Common	2	1	T25656980
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:05:13 2021 Page 1
ID:5z5H8DqZnOIYpsEeEI7p3gyTVJ4-7K?ttAGBhVU8AysJ8nWDcCEAZtWJJ83AtTGeoiyTTqK



Scale = 1:52.8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	0.12	6-7	>782	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.13	6-7	>717	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 62 lb	FT = 20%

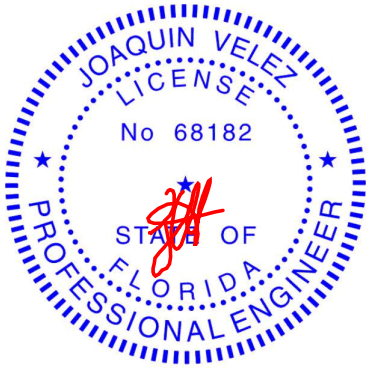
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 7=0-8-0, 5=Mechanical
Max Horz 7=342(LC 11)
Max Uplift 7=-108(LC 12), 5=-158(LC 9)
Max Grav 7=341(LC 18), 5=331(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-294/180, 3-4=-277/256, 2-7=-291/241
BOT CHORD 6-7=-1187/906
WEBS 3-6=-275/433, 2-6=-749/1039

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=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-10-0, Exterior(2E) 6-10-0 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=108, 5=158.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

Lauren Parnell
Examiner License No. PX2707

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T18	Piggyback Base	1	1	T25656981 Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:05:15 2021 Page 1

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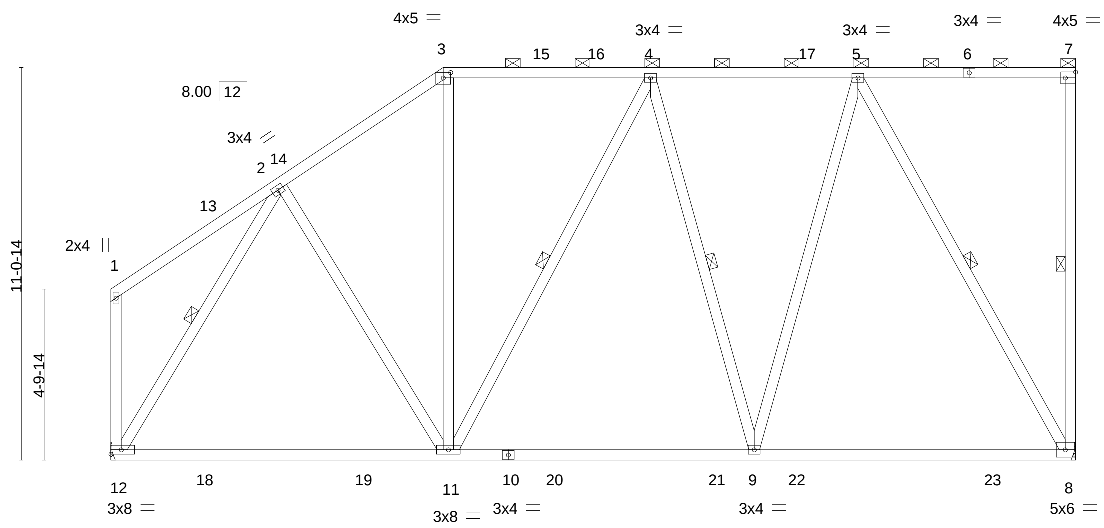

Plate Offsets (X,Y)-- [3:0-2-8,0-1-13], [7:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.31	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.45	11-12	>724	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.02	8	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 215 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-8, 4-11, 4-9, 5-8, 2-12

REACTIONS. (size) 8=Mechanical, 12=Mechanical
Max Horz 12=466(LC 9)
Max Uplift 8=-323(LC 9), 12=-239(LC 12)
Max Grav 8=1175(LC 17), 12=1138(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-907/327, 3-4=-725/314, 4-5=-702/298
BOT CHORD 11-12=-529/719, 9-11=-368/800, 8-9=-275/566
WEBS 2-11=-28/308, 3-11=-46/252, 4-9=-269/229, 5-9=-125/644, 5-8=-1048/337, 2-12=-988/271

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=4.2psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-4-8, Exterior(2R) 9-4-8 to 13-7-6, Interior(1) 13-7-6 to 27-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=323, 12=239.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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Date:

October 15,2021

Review for Code Compliance
Universal Engineering Sciences
PX2707 11/18/2021
Examiner License No.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T19	Piggyback Base	1	1	T25656982
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:05:16 2021 Page 1
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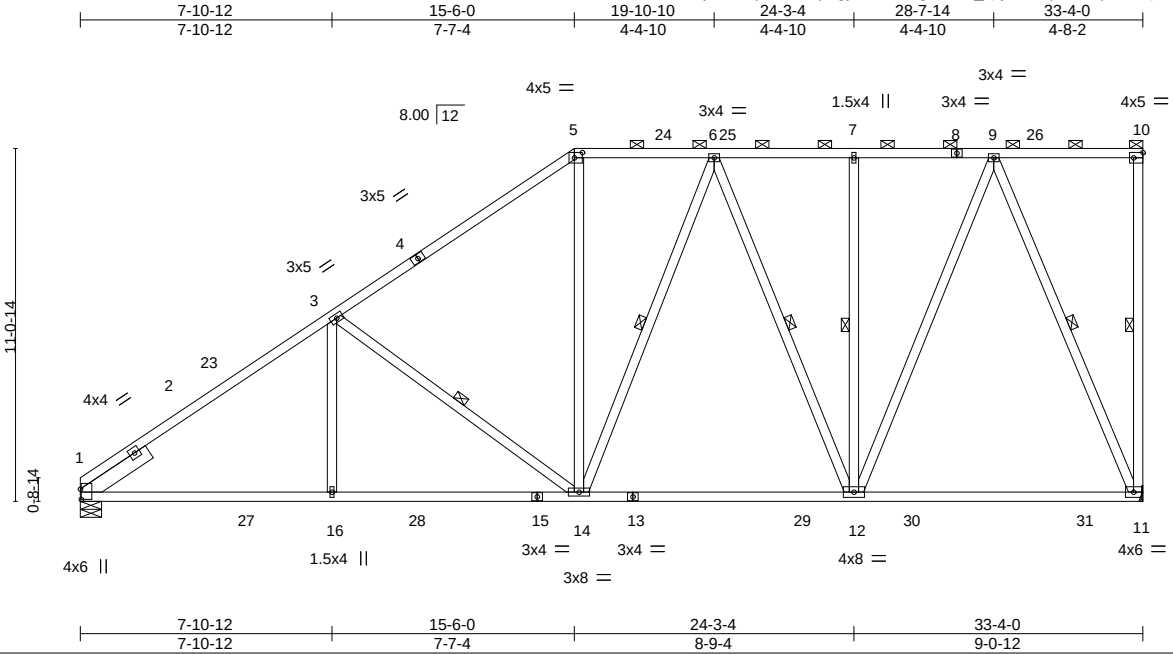


Plate Offsets (X,Y)-- [1:0-3-15,0-0-5], [5:0-3-0,0-2-0], [10:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.30	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.42	11-12	>951	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.06	11	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 246 lb	FT = 20%

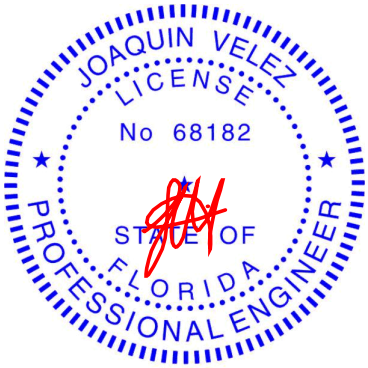
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-3-7 max.): 5-10.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 10-11, 3-14, 6-14, 6-12, 7-12, 9-11

REACTIONS. (size) 11=Mechanical, 1=0-8-0
Max Horz 1=475(LC 11)
Max Uplift 11=-334(LC 9), 1=-301(LC 12)
Max Grav 11=1420(LC 17), 1=1444(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1897/430, 3-5=-1407/410, 5-6=-1124/409, 6-7=-900/352, 7-9=-900/352
BOT CHORD 1-16=-638/1672, 14-16=-638/1672, 12-14=-404/1104, 11-12=-247/555
WEBS 3-16=0/313, 3-14=-594/253, 5-14=-51/439, 6-14=-164/258, 6-12=-434/224, 9-12=-214/1039, 9-11=-1290/365

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=4.2psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-4-0, Interior(1) 3-4-0 to 15-6-0, Exterior(2R) 15-6-0 to 20-2-9, Interior(1) 20-2-9 to 33-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 7.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=334, 1=301.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

Examiner License No. PX2707 10/15/2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T20	Piggyback Base	1	1	T25656983
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:05:18 2021 Page 1
ID:5z5H8DqZnOIYpsEeEI7p3gyTVJ4-THomwtKKV17QGjlHxK6OJFx_9u8i_Oiv1k_PTwyTTqF

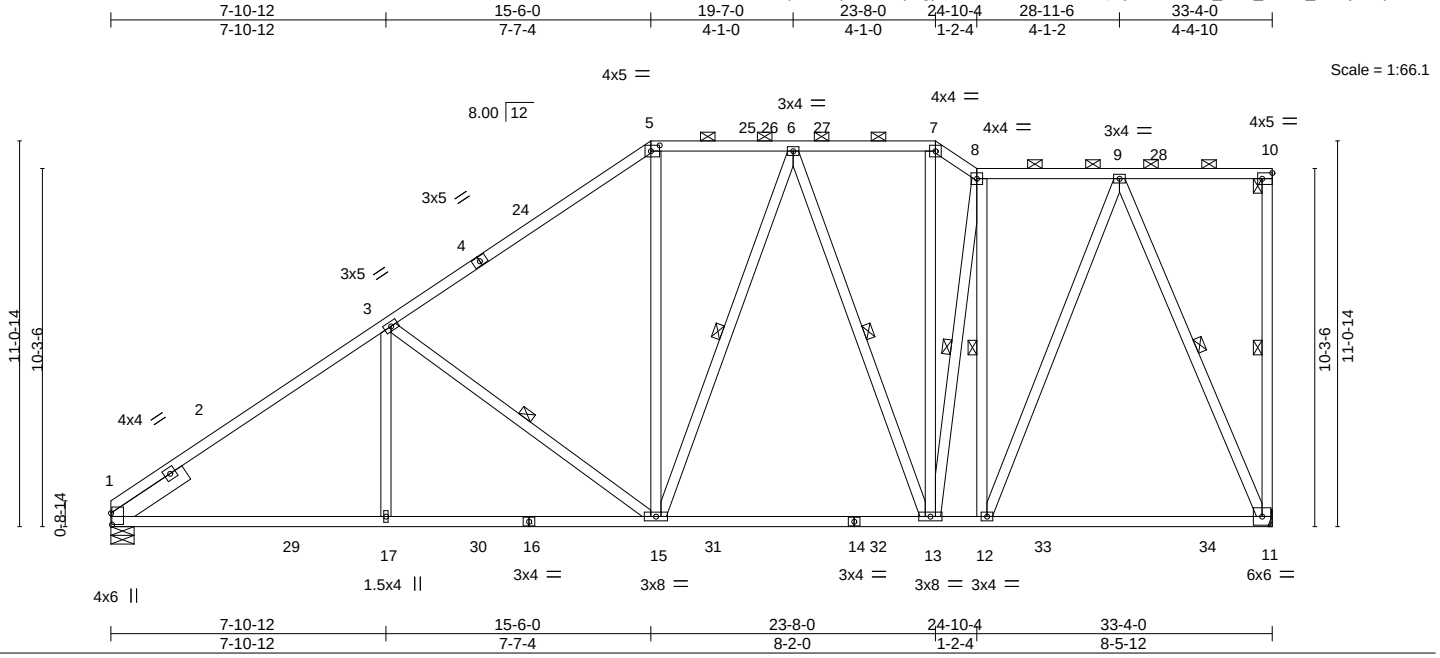


Plate Offsets (X,Y)-- [1:0-3-15,0-0-5], [5:0-3-0,0-2-0], [10:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	-0.23	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.33	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.06	11	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 271 lb	FT = 20%

LUMBER-

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

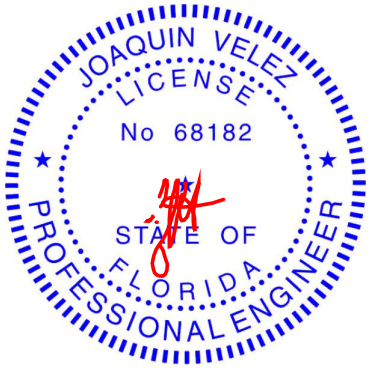
BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-3-12 max.): 5-7, 8-10.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 10-11, 3-15, 6-15, 6-13, 8-13, 8-12, 9-11

REACTIONS. (size) 11=Mechanical, 1=0-8-0
Max Horz 1=463(LC 11)
Max Uplift 11=-315(LC 12), 1=-302(LC 12)
Max Grav 11=1398(LC 17), 1=1435(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1883/498, 3-5=-1394/478, 5-6=-1113/469, 6-7=-905/418, 7-8=-1060/477, 8-9=-899/401
BOT CHORD 1-17=-765/1663, 15-17=-765/1663, 13-15=-498/1097, 12-13=-396/937, 11-12=-288/555
WEBS 3-17=0/312, 3-15=-594/280, 5-15=-68/440, 6-15=-119/268, 6-13=-417/228, 7-13=-176/419, 8-12=-704/354, 9-12=-282/1024, 9-11=-1291/486

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=4.2psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-4-0, Interior(1) 3-4-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-10-0, Interior(1) 18-10-0 to 23-8-0, Exterior(2E) 23-8-0 to 24-10-4, Interior(1) 24-10-4 to 33-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 7.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=315, 1=302.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

Lawrence Parnell
Examiner License No.

PX2707 10/15/2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	T21	Piggyback Base	1	1	T25656984
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:05:20 2021 Page 1
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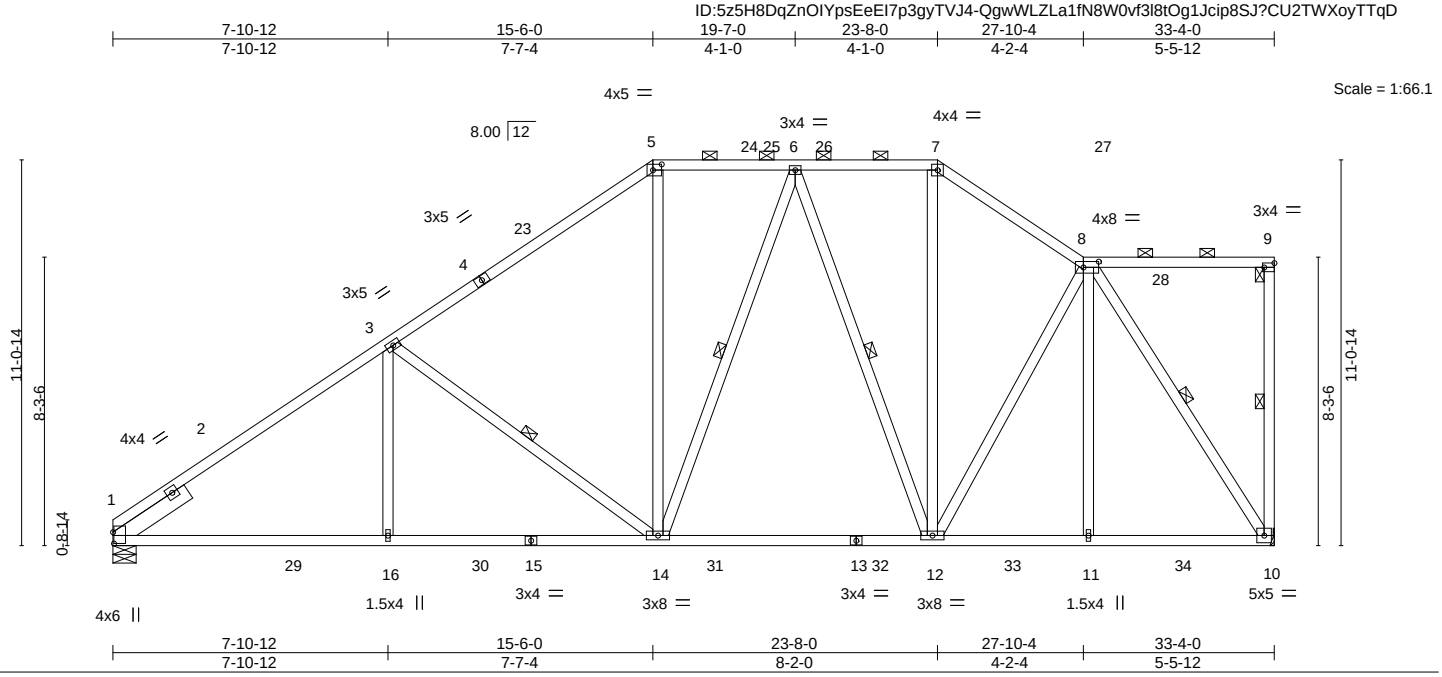


Plate Offsets (X,Y)-- [1:0-3-15,0-0-5], [5:0-3-0,0-2-0], [8:0-5-4,0-2-0], [9:Edge,0-1-8]

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	0.90	Vert(LL)	-0.19	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.27	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.06	10	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 247 lb	FT = 20%

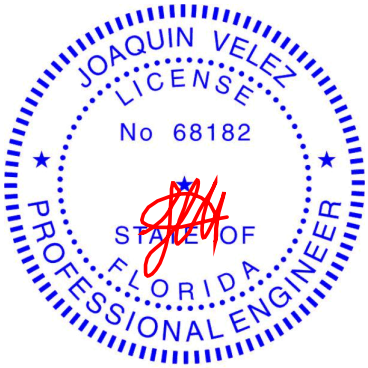
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-4-0 max.): 5-7, 8-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 9-10, 3-14, 6-14, 6-12, 8-10

REACTIONS. (size) 10=Mechanical, 1=0-8-0
Max Horz 1=430(LC 11)
Max Uplift 10=-312(LC 12), 1=-306(LC 12)
Max Grav 10=1376(LC 17), 1=1430(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1875/515, 3-5=-1384/496, 5-6=-1105/484, 6-7=-912/442, 7-8=-1120/464
BOT CHORD 1-16=-691/1661, 14-16=-691/1661, 12-14=-440/1093, 11-12=-327/821, 10-11=-326/824
WEBS 3-16=0/311, 3-14=-596/276, 5-14=-75/442, 6-14=-86/271, 6-12=-426/189, 7-12=-109/419, 8-12=-99/253, 8-10=-1412/434

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=4.2psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-4-0, Interior(1) 3-4-0 to 15-6-0, Exterior(2R) 15-6-0 to 18-10-0, Interior(1) 18-10-0 to 23-8-0, Exterior(2R) 23-8-0 to 27-0-0, Interior(1) 27-0-0 to 33-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 7.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=312, 1=306.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: October 15,2021

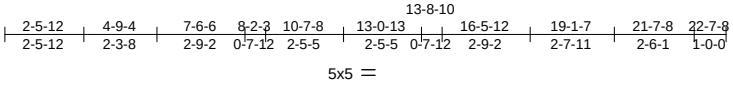
PX2707 11/15/2021
Examiner License No.

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

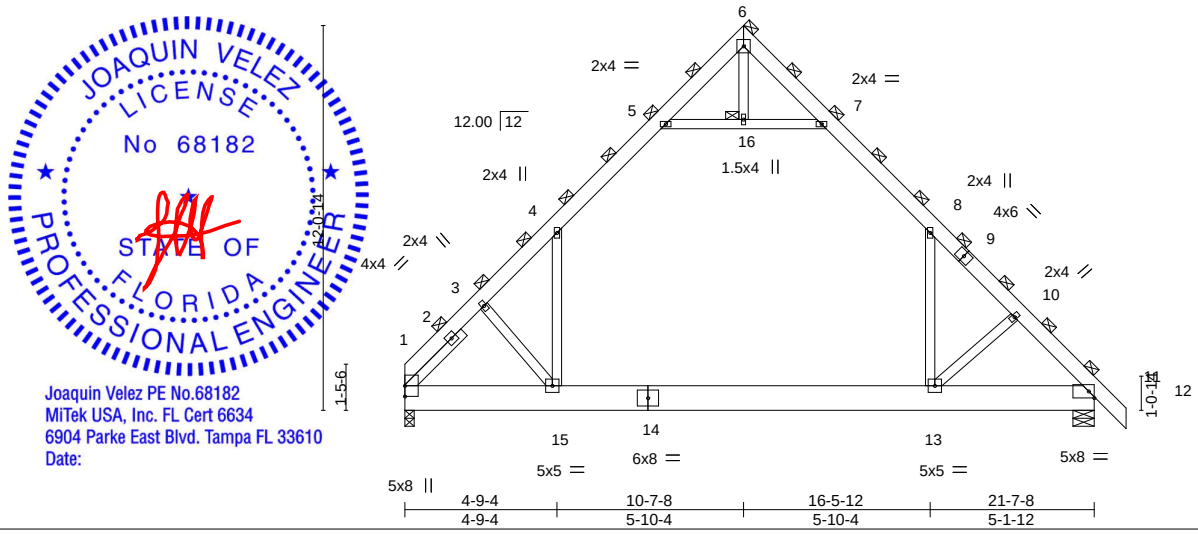
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Bill Ladson
211014-04KM	TG01	ATTIC GIRDER	1	3	T25656985
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 14 14:05:22 2021 Page 1
ID:5z5H8DqZnOIYpsEeEI7p3gyTVJ4-M31GmFNrZGdslK22AAALT56ksWZDwJ1VyMydchyTTqB



Scale = 1:72.3



LOADING (psf)		SPACING-	3-7-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.19	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.27	13-15	>972	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.01	1	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MS		Attic	-0.10	13-15	1446	360	Weight: 604 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1 *Except*
	9-12: 2x6 SP No.2
BOT CHORD	2x10 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 2-6-0

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.)
	(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 6, 16

REACTIONS. (size) 1=0-3-8, 11=0-8-0
Max Horz 1=-633(LC 10)
Max Uplift 1=-156(LC 12), 11=-248(LC 12)
Max Grav 1=2094(LC 19), 11=2139(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2748/225, 3-4=-2717/280, 4-5=-1502/400, 5-6=-110/381, 6-7=-106/385, 7-8=-1499/400, 8-10=-2736/254, 10-11=-2858/233
BOT CHORD 1-15=-16/2012, 13-15=0/1637, 11-13=-11/2002
WEBS 4-15=-3/1655, 8-13=0/1614, 5-16=-1893/530, 7-16=-1893/530, 3-15=-608/285, 10-13=-803/297

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-7-8, Exterior(2R) 10-7-8 to 13-4-8, Interior(1) 13-4-8 to 22-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-16, 7-16; Wall dead load (5.0psf) on member(s) [illegible]-13
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (3.0 psf) applied only to room[illegible]
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb u[illegible]oint(s) except (jt=lb) 1=156, 11=248.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

Review for Code Compliance
Universal Engineering Science

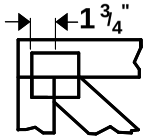
October 15,2021

PX2707 10/15/2021
Examiner License No.

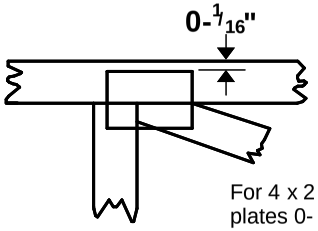
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

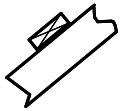
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

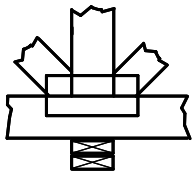
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

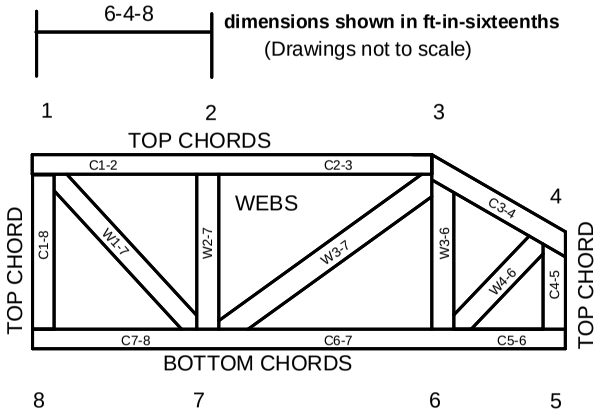


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

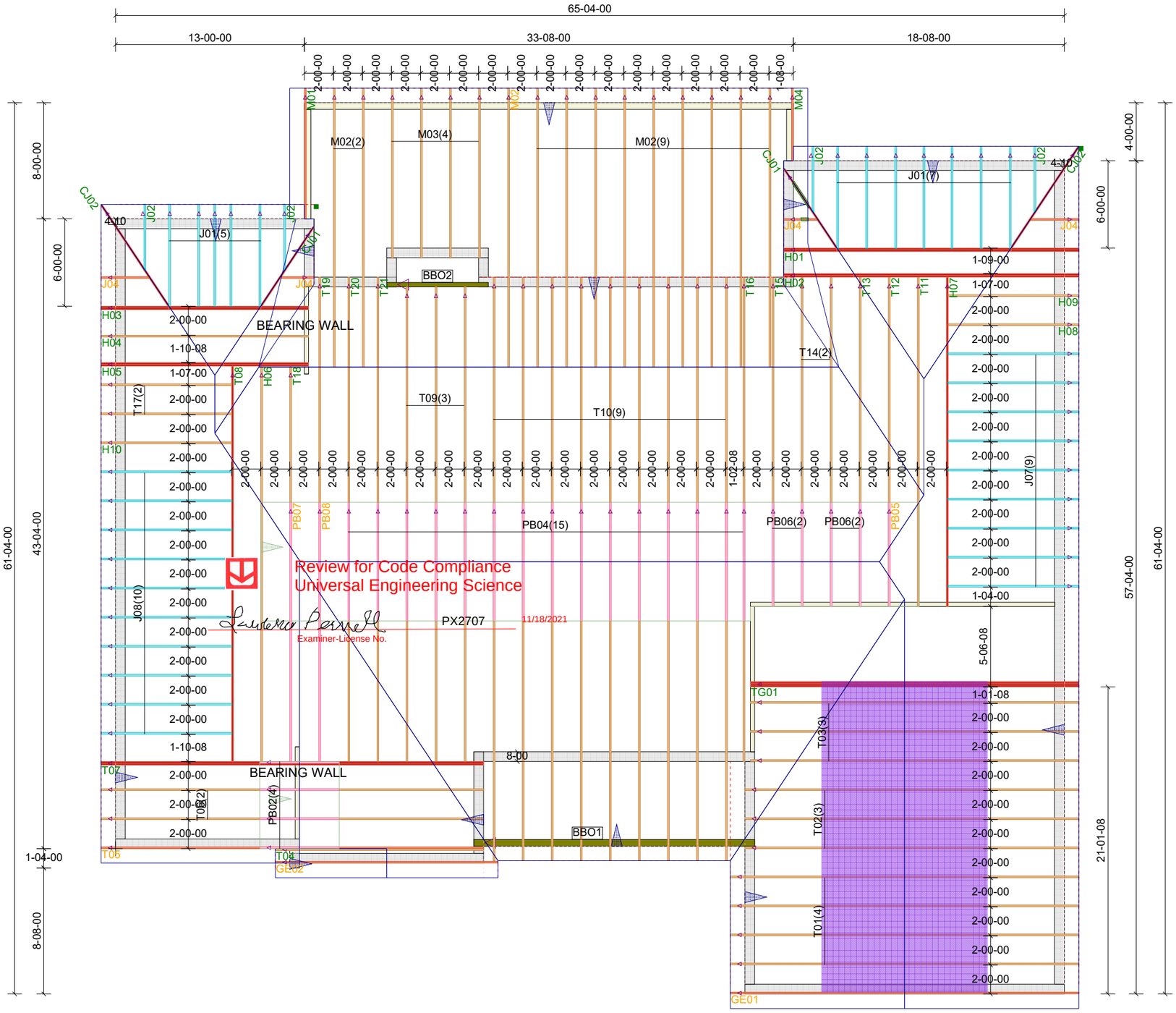
Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of the 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.



COASTAL TRUSS & VINYL SIDING
5933 Industrial Blvd.
Patterson, GA 31557
Ph. 912-647-8956
Fx. 912-647-5078

S 75

Hip Lines = 94.26
Ridge Lines = 102.72

Gable Lines = 123.37

LF Fascia = 307.14

Job Name:
Bill Ladson
Roof Area SF = 4662.13
LF of Valley = 106.78

Shipping Adddress:
Lake City, FL

Customer:
Walk-In
Job Number:
211014-04KM

Loads:

TC Live 20 BC Live 0
TC Dead 10 BC Dead 10
Duration Increase: 1.25
Total Load: 40 psf

MiTek

Reaction Summary

Coastal Truss & Vinyl Siding
5933 Industrial Blvd.
Patterson Georgia 31557
Business: (912) 647-5956

SOLD TO Walk-In

JOB NAME Bill Ladson

STRUCTURE 211014-04K MODEL

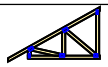
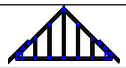
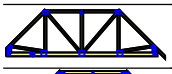
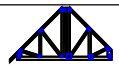
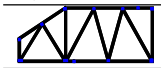
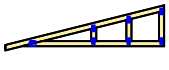
SHIP TO Leo & Robbie Brooks
SR. 47
Lake City Fl.

TRANSACTION # 211014-04KM
STATUS Quote
ORDERED This field intentionally left blank.
SCHD DELIVERY This field intentionally left blank.
SALES REP Kent Music
JOB CATEGORY

Roof Loading				Floor Loading			
TC Live:	TC Dead:	BC Live:	BC Dead:	TC Live:	TC Dead:	BC Live:	BC Dead:
20	7	0	7				

Building Code	Wind Design Method	Exp Cat	Occ Cat	Velocity	TC Dead	BC Dead
FBC2020/TPI2014	MWFRS (Directional)/C-C hybrid Wind ASCE 7-16	C	II	130	4.2	4.2

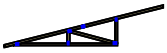
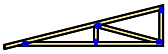
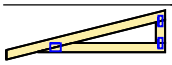
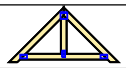
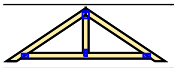
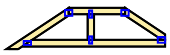
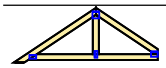
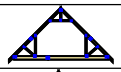
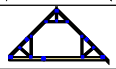
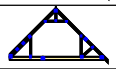
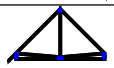
Component Item - Roof Trusses

DIAGRAM	QTY PLY	PITCH	LABEL	(Shipping) HEIGHT	*Base Span* SPAN	LUMBER	REACTIONS
	2	6.66 /12	CJ01	4-08-04	6-06-03	2 x 4	Joint 8 257 -93 Joint 6 306 -183
	2	6.66 /12	CJ02	(4-11-06) 4-08-04	6-06-03	2 x 4	Joint 9 353 -193 Joint 7 291 -181
	1	12 /12	GE01	(12-00-00) 11-07-15	22-00-00	2 x 4	Joint 2 248 -141 Joint 14 194 -70 Joint 20 265 -40 Joint 21 180 -96 Joint 22 176 -117 Joint 24 150 -93 Joint 25 261 -170 Joint 19 176 -96 Joint 18 178 -117 Joint 17 151 -93 Joint 16 254 -170
	1	12 /12	GE02	(7-08-00) 7-03-15	13-04-00	2 x 4	Joint 2 182 -54 Joint 10 154 -27 Joint 14 143 -6 Joint 15 172 -103 Joint 16 225 -142 Joint 13 171 -103 Joint 12 221 -142
	1 2-ply	12 /12	H01	(5-00-15) 4-08-14	19-04-00	2 x 4 2 x 6	Joint 13 1299 -671 Joint 8 1350 -720
	1 2-ply	12 /12	H02	(6-02-15) 5-10-14	19-04-00	2 x 4 2 x 6	Joint 12 4521 -1506 Joint 7 2914 -1327
	1 2-ply	12 /12	H03	(5-00-15) 4-08-14	13-03-08	2 x 4 2 x 6	Joint 11 1023 -569 Joint 7 992 -539
	1	12 /12	H04	(6-04-15) 6-00-14	13-03-08	2 x 4	Joint 9 507 -174 Joint 6 439 -120
	1 2-ply	12 /12	H05	(7-07-15) 7-03-14	13-03-08	2 x 4 2 x 6	Joint 13 1727 -885 Joint 8 3589 -1538
	1	8 /12	H06	11-00-14	27-02-08	2 x 4	Joint 12 1138 -239 Joint 8 1175 -323
	1	8 /12	H07	9-00-14	22-08-00	2 x 4 2 x 6	Joint 14 2356 -1399 Joint 8 [illegible]
	1	12 /12	H08	(8-06-10) 8-02-08	8-00-00	2 x 4	Joint 7 361 -100 [illegible] 350 -225
	1	12 /12	H09	(7-02-10) 6-10-08	8-00-00	2 x 4	Joint 9 329 -108 [illegible] 309 -183
	1	12 /12	H10	(8-07-10) 8-03-09	8-00-00	2 x 4	Joint 7 364 -99 Joint 6 353 -228
	12	8 /12	J01	(5-00-03) 4-08-14	6-00-00	2 x 4	Joint 7 257 -52 Joint 4 144 -17 Joint 6 105 -85
	4	8 /12	J02	(3-04-06) 3-01-01	3-06-04	2 x 4	Joint 5 185 -51 Joint 3 87 -63 Joint 4 52 0
	4	12 /12	J04	3-04-11	2-03-13	2 x 4	Joint 6 70 -3 Joint 5 113 -104
	9	12 /12	J07	(9-04-15) 9-00-14	8-00-00	2 x 4	Joint 6 329 43 Joint 4 129 -113 Joint 5 212 -126
	10	12 /12	J08	(9-04-15) 9-00-14	8-00-00	2 x 4	Joint 6 329 43 Joint 4 129 -113 Joint 5 212 -126
	1	3 /12	M01	(2-06-10) 2-03-14	8-00-00	2 x 4	Joint 6 59 -12 Joint 2 174 -77 Joint 7 94 -33 Joint 8 262 -72

Review for Code Compliance
Universal Engineering Science

[illegible] PX2707 11/18/2021
Examiner-License No.

Component Item - Roof Trusses

DIAGRAM	QTY PLY	PITCH	LABEL	(Shipping) HEIGHT	*Base Span* SPAN	LUMBER	REACTIONS
	12	3 /12	M02	(5-01-03) 4-10-07	12-08-00	2 x 4	Joint 2 466 -141 / Joint 7 625 -224 / Joint 6 113 -63
	4	3 /12	M03	(3-02-10) 2-11-14	10-08-00	2 x 4	Joint 2 414 -144 / Joint 5 355 -98
	1	3 /12	M04	(1-06-10) 1-03-14	4-00-00	2 x 4	Joint 4 124 -30 / Joint 2 192 -87
	4	12 /12	PB02	(2-08-14) 2-07-06	5-05-11	2 x 4	Joint 2 111 -59 / Joint 4 111 -59 / Joint 6 112 5
	15	8 /12	PB04	(2-08-11) 2-07-03	8-02-00	2 x 4	Joint 2 152 -77 / Joint 4 152 -77 / Joint 6 203 -14
	1	8 /12	PB05	(1-10-08) 1-09-00	7-02-00	2 x 4	Joint 2 65 -68 / Joint 7 455 -123
	4	8 /12	PB06	(2-08-11) 2-07-03	7-02-00	2 x 4	Joint 2 102 -43 / Joint 5 418 -113
	1	8 /12	PB07	(2-00-00) 1-10-08	17-10-00	2 x 4	Joint 2 158 -61 / Joint 12 268 -76 / Joint 14 296 -78 / Joint 11 284 -93 / Joint 10 205 -26
	1	8 /12	PB08	2-07-03	17-10-00	2 x 4	Joint 1 139 -57 / Joint 7 93 -30 / Joint 11 240 -87 / Joint 9 293 -87 / Joint 8 266 -86 / Joint 12 162 -2
	4	12 /12	T01	(12-07-12) 12-00-14	22-00-00	2 x 6 2 x 10	
	3	12 /12	T02	(12-07-12) 12-00-14	22-00-00	2 x 6 2 x 10	
	3	12 /12	T03	(12-07-12) 12-00-14	21-07-08	2 x 6 2 x 10	Joint 1 1169 -87
	1	12 /12	T04	(8-00-15) 7-08-14	13-04-00	2 x 4	Joint 7 508 -175 / Joint 5 441 -120
	1	12 /12	T05	(10-11-02) 10-07-01	25-04-00	2 x 4	Joint 2 270 -113 / Joint 18 882 -273 / Joint 19 86 19 / Joint 20 103 12 / Joint 21 88 13 / Joint 22 161 -73 / Joint 16 125 7 / Joint 16 125 7 Joint 11 599 -138
	2	12 /12	T06	(11-04-01) 11-00-00	25-04-00	2 x 4	Joint 13 629 -157 / Joint 10 857 -254 / Joint 8 631 -107
	1 2-ply	12 /12	T07	(11-04-01) 11-00-00	25-04-00	2 x 4 2 x 8	Joint 15 1362 -767 / Joint 11 8145 -3025 / Joint 8 4125 -1005
	1	8 /12	T08	9-00-14	27-02-08	2 x 4 2 x 6	Joint 16 2869 -1623 / Joint 9 2760 -1687
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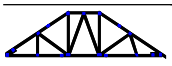
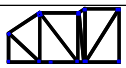
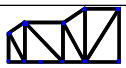
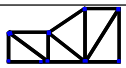
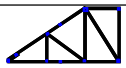
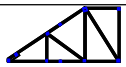
	9	8 /12	T10	(11-04-03) 11-00-14	39-02-00	2 x 4	Joint 1 1379 -324 / Joint 13 1747 -270 / Joint 10 234 -180
	1	8 /12	T11	11-00-14	22-08-00	2 x 4	Joint 11 934 -196 / Joint 6 987 -315
	1	8 /12	T12	11-00-14	22-08-00	2 x 4	Joint 11 931 -196 / Joint 6 1002 -300
	1	8 /12	T13	11-00-14	22-08-00	2 x 4	Joint 10 936 -197 / Joint 6 999 -290
	2	8 /12	T14	11-00-14	22-08-00	2 x 4	Joint 1 958 -193 / Joint 7 1013 -292
	1	8 /12	T15	11-00-14	22-08-00	2 x 4	Joint 1 972 -196 / Joint 7 999 -292
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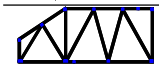
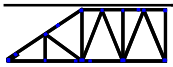
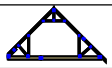
	2	12 /12	T17	(8-02-15) 7-10-14	8-00-00	2 x 4	Joint 7 341 -108 / Joint 5 331 -158
	1	8 /12	T18	11-00-14	27-02-08	2 x 4	Joint 12 1138 -239 / Joint 8 1175 -323

Component Item - Roof Trusses

DIAGRAM	QTY PLY	PITCH	LABEL	(Shipping) HEIGHT	*Base Span* SPAN	LUMBER	REACTIONS	
	1	8 /12	T19	11-00-14	33-04-00	2 x 4	Joint 1 1444 -301	Joint 11 1420 -334
	1	8 /12	T20	11-00-14	33-04-00	2 x 4	Joint 1 1435 -302	Joint 11 1398 -315
	1	8 /12	T21	11-00-14	33-04-00	2 x 4	Joint 1 1430 -306	Joint 10 1376 -312
	1 3-ply	12 /12	TG01	(12-07-12) 12-00-14	21-07-08	2 x 6 2 x 10	Joint 1 2094 -156	

Review for Code Compliance
Universal Engineering Science

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