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

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RE: 211022-06KM - James Cardin

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

Site Information:
Customer Info: James Cardin Project Name: Cardin Res. Model: .
Lot/Block: . Subdivision: .
Address: 2113 SW Centerville Ave. , .
City: Fort White State: Fl.

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

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 34.0 psf Floor Load: N/A psf

This package includes 13 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T25754479	G01	10/26/21
2	T25754480	GE01	10/26/21
3	T25754481	M01	10/26/21
4	T25754482	M02	10/26/21
5	T25754483	M03	10/26/21
6	T25754484	T01	10/26/21
7	T25754485	T03	10/26/21
8	T25754486	T04	10/26/21
9	T25754487	V01	10/26/21
10	T25754488	V02	10/26/21
11	T25754489	V03	10/26/21
12	T25754490	V04	10/26/21
13	T25754491	V05	10/26/21

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 26,2021

Reaction Summary

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

SOLD TO James Cardin

JOB NAME James Cardin

STRUCTURE 211022-06K MODEL

SHIP TO Cardin Res.
2113 SW Centerville Ave.
Fort White Fl.

TRANSACTION # 211022-06KM

STATUS Quote

ORDERED This field intentionally left blank.

SCHD DELIVERY This field intentionally left blank.

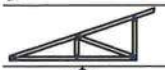
SALES REP Kent Music

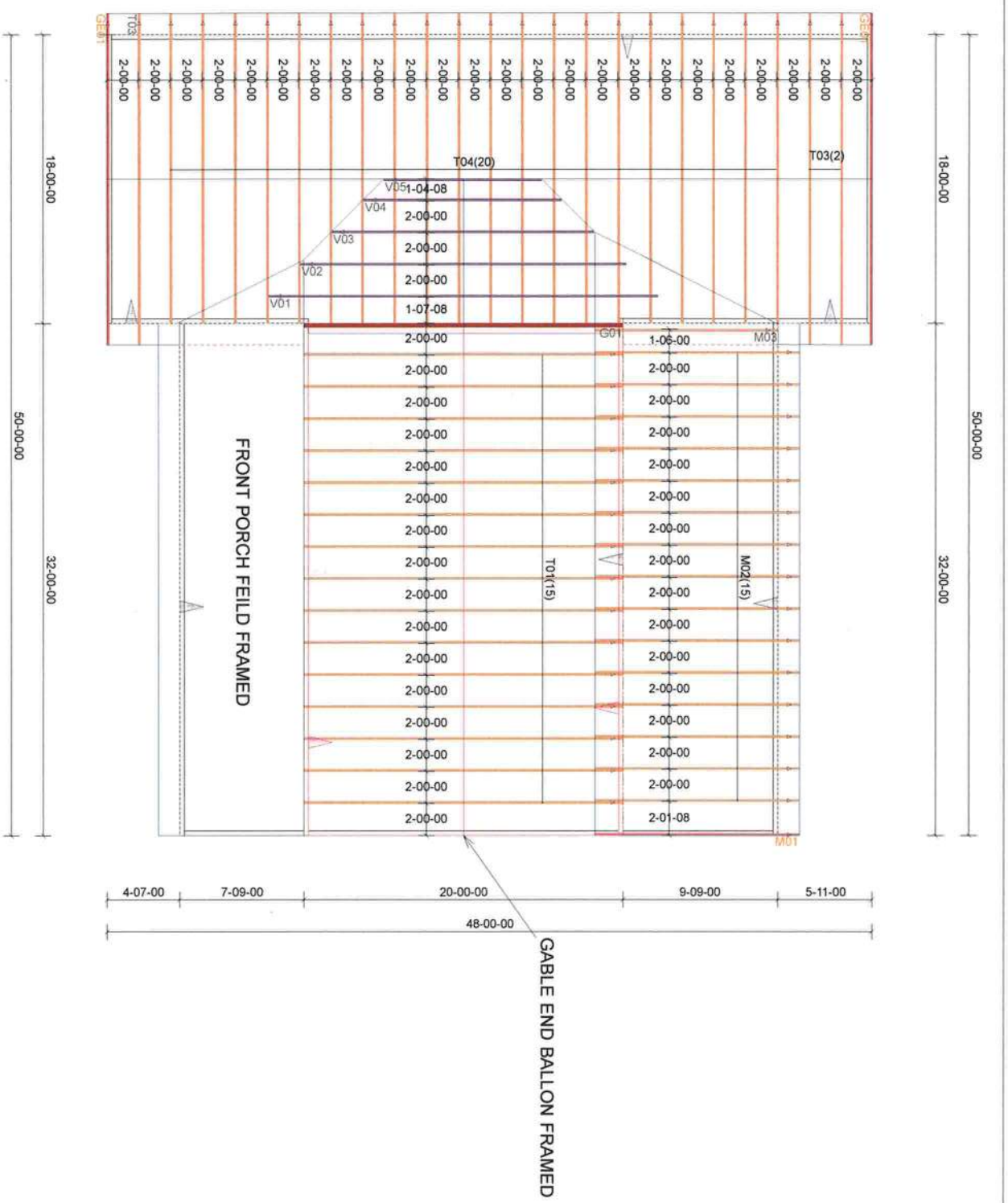
JOB CATEGORY

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
	1 2-ply	8 /12	G01	9-08-00	20-00-00	2 x 4 2 x 6	Joint 11 3893 -1112 Joint 6 3406 -976
	2	8 /12	GE01	(6-10-11) 6-00-04	18-00-00	2 x 4	Joint 2 187 -86 Joint 10 187 -86 Joint 15 122 9 Joint 16 160 -68 Joint 17 133 -73 Joint 19 189 -58 Joint 14 158 -68 Joint 13 138 -73 Joint 12 187 -58
	1	4 /12	M01	(3-09-08) 3-04-07	10-00-08	2 x 4	Joint 2 177 -89 Joint 9 18 -16 Joint 12 120 -44 Joint 13 180 -39 Joint 11 145 -47 Joint 10 109 -35
	15	4 /12	M02	(4-06-15) 4-01-14	10-00-08	2 x 4	Joint 2 406 -138 Joint 6 424 -180
	1	4 /12	M03	4-01-14	10-00-08	2 x 4	Joint 1 330 -72 Joint 5 429 -185
	15	8 /12 8 /12	T01	9-08-00	20-00-00	2 x 4	Joint 8 670 -183 Joint 6 670 -183
	3	8 /12	T03	(7-02-14) 6-04-07	18-00-00	2 x 4	Joint 2 684 -228 Joint 6 684 -228
	20	8 /12	T04	(7-02-14) 6-04-07	18-00-00	2 x 4	Joint 2 687 -232 Joint 6 609 -164
	1	8 /12	V01	8-01-09	24-04-10	2 x 4	Joint 1 169 -18 Joint 7 137 12 Joint 10 347 54 Joint 12 395 -144 Joint 13 378 -147 Joint 9 397 -144 Joint 8 378 -147
	1	8 /12	V02	6-09-09	20-04-10	2 x 4	Joint 1 89 -59 Joint 7 62 -23 Joint 10 335 54 Joint 11 417 -151 Joint 13 286 -112 Joint 9 416 -151 Joint 8 286 -112
	1	8 /12	V03	5-05-09	16-04-10	2 x 4	Joint 1 122 -9 Joint 5 113 -9 Joint 7 207 38 Joint 9 340 -158 Joint 6 339 -158
	1	8 /12	V04	4-01-09	12-04-10	2 x 4	Joint 1 59 -35 Joint 5 44 -14 Joint 7 225 5 Joint 8 274 -129 Joint 6 274 -129
	1	8 /12	V05	3-03-09	9-10-10	2 x 4	Joint 1 76 -9 Joint 5 74 -9 Joint 7 88 23 Joint 8 203 -93 Joint 6 202 -93



MiTek

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

Customer: James Cardin
Job Number: 211022-06KM

Job Name: James Cardin
Shipping Adddress: Fort White, Fl.

QASTM
TRUSS & VINYL SIDING
5933 Industrial Blvd.
Patterson, GA 31557
Ph. 912-647-5956
Fx. 912-647-5976

Roof Area SF = 2566.32	Hip Lines = 0	Gable Lines = 109.87	Sq Ft Siding = 3009.12
LF of Valley = 35.7	Ridge Lines = 89	LF Fascia = 158.44	

Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	G01	COMMON GIRDER	1	2	T25754479
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:50:55 2021 Page 1
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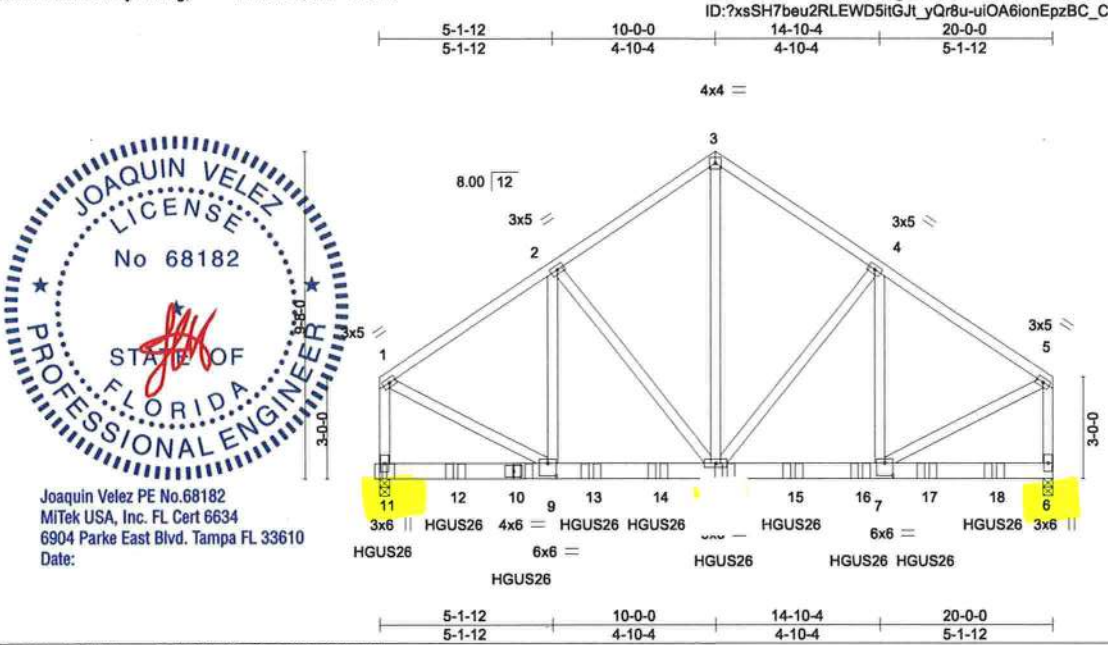

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.04	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.07	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	6	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 316 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 6=0-3-8
Max Horz 11=-290(LC 6)
Max Uplift 11=-1112(LC 8), 6=-976(LC 8)
Max Grav 11=3893(LC 1), 6=3406(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2877/871, 2-3=-2442/821, 3-4=-2442/821, 4-5=-2881/872, 1-11=-2901/857, 5-6=-2902/857
BOT CHORD 9-11=-290/284, 8-9=-683/2336, 7-8=-609/2339
WEBS 3-8=-783/2378, 4-8=-635/269, 4-7=-239/520, 2-8=-630/268, 2-9=-237/514, 1-9=-677/2568, 5-7=-676/2566

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) 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 1112 lb uplift at joint 11 and 976 lb uplift at joint 6.
9) Use Simpson Strong-Tie HGUS26 (20-10d Girder, 6-10d Truss) or equivalent spaced at 2-1-8 oc max. starting at 0-1-12 from the left end to 18-3-4 to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

October 26,2021

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	G01	COMMON GIRDER	1	2	T25754479 Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:50:55 2021 Page 2
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 6-11=-14
   Concentrated Loads (lb)
   Vert: 11=-601(F) 10=-595(F) 8=-595(F) 12=-595(F) 13=-595(F) 14=-595(F) 15=-595(F) 16=-595(F) 17=-595(F) 18=-595(F)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	GE01	Common Supported Gable	2	1	T25754480
					Job Reference (optional)

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:50:57 2021 Page 1
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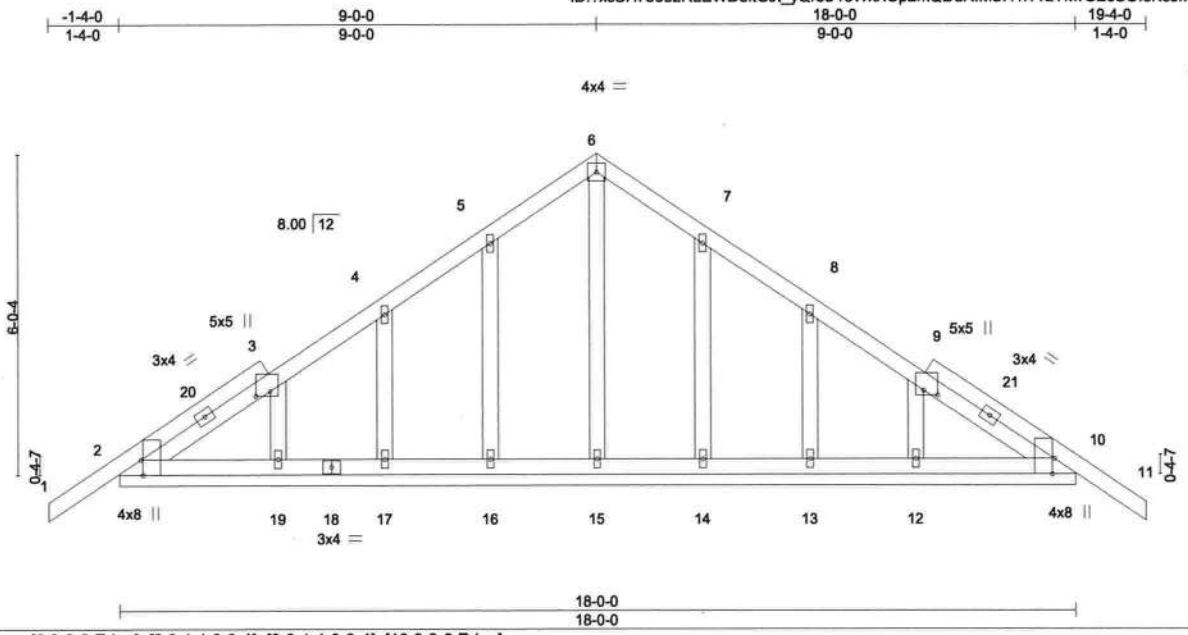

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-1-1,0-3-4], [9:0-1-1,0-3-4], [10:0-3-8,Edge]

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	0.17	Vert(LL)	-0.00	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	10	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-S							Weight: 105 lb	FT = 20%

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

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

REACTIONS. All bearings 18-0-0.
(lb) - Max Horz 2=178(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 19, 14, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 19, 14, 13, 12

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=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 9-0-0, Corner(3R) 9-0-0 to 12-0-0, Exterior(2N) 12-0-0 to 19-4-0 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, 16, 17, 19, 14, 13, 12.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 26,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	M01	Monopitch Supported Gable	1	1	T25754481
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:50:59 2021 Page 1
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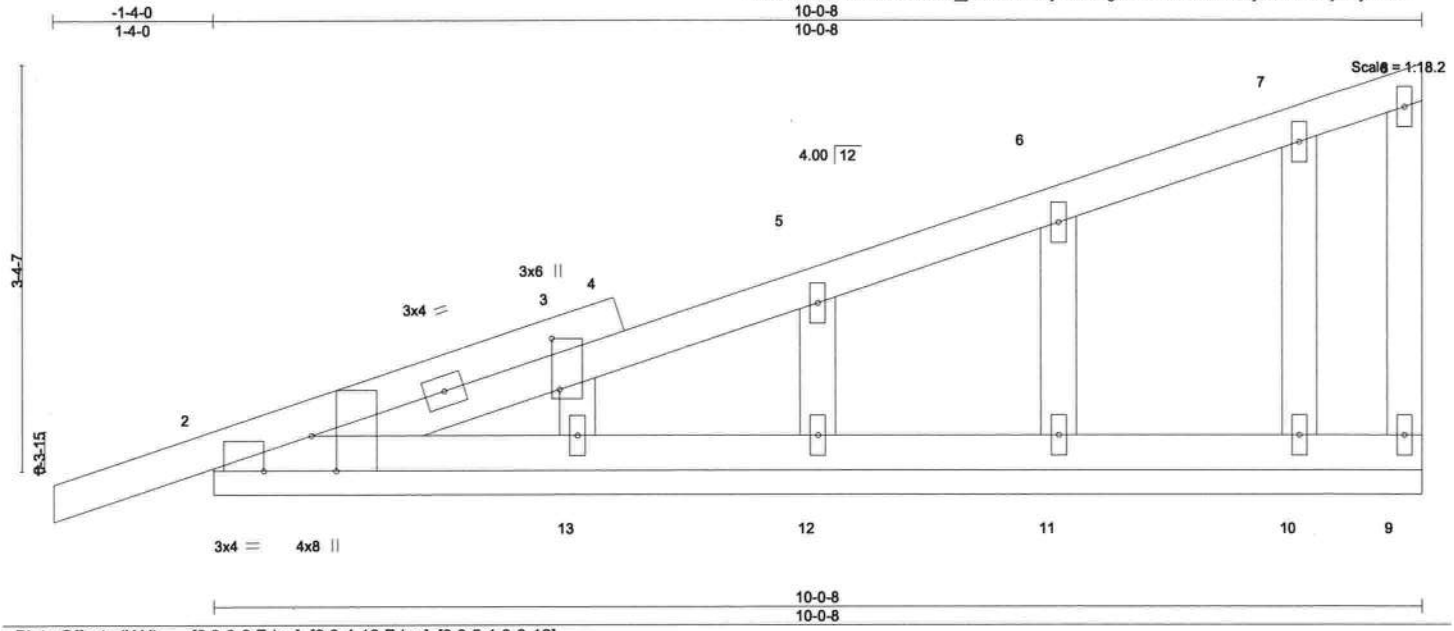

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-4-12,Edge], [3:0-5-1,0-0-12]

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	0.18	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	9	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-S							Weight: 50 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 10-0-8.
(lb) - Max Horz 2=140(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 9, 12, 13, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 9, 12, 13, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-284/133

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) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 9-10-12 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) 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) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9, 12, 13, 11, 10.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
October 26,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	M02	Monopitch	15	1	T25754482
					Job Reference (optional)

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:50:59 2021 Page 1
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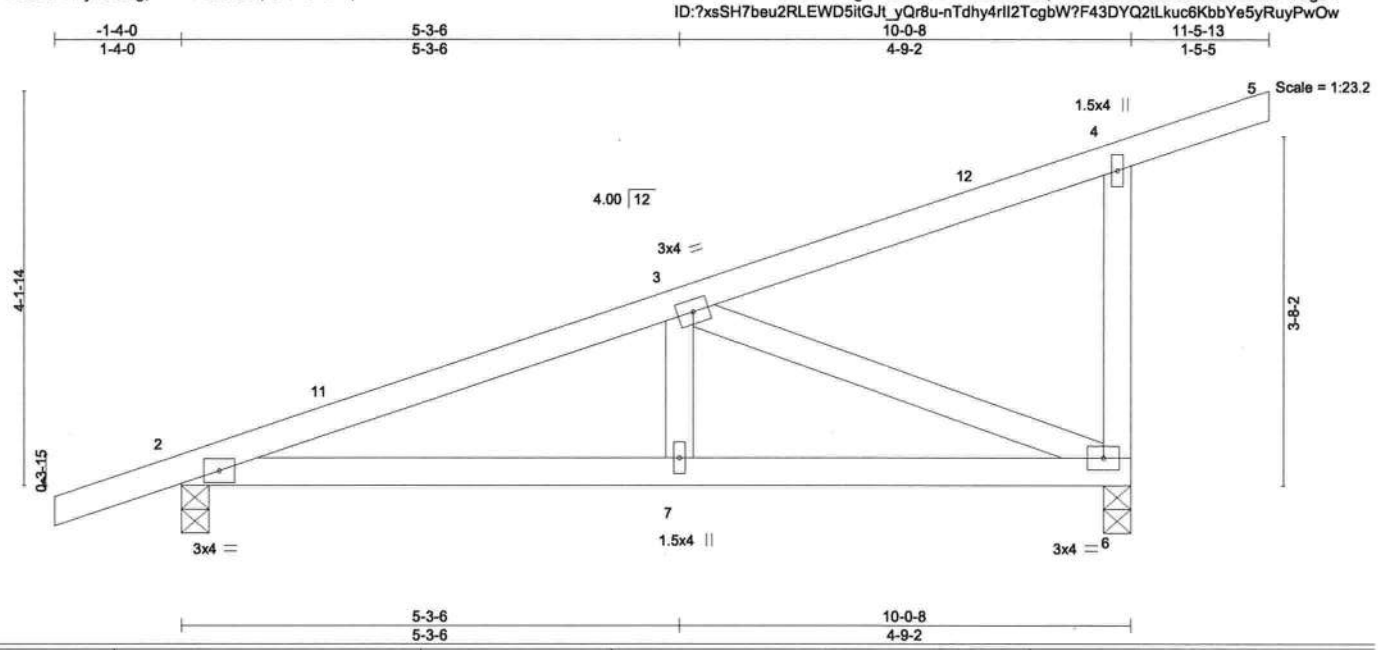

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	0.03	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.04	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.01	6	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 49 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=176(LC 9)
Max Uplift 2=-138(LC 12), 6=-180(LC 12)
Max Grav 2=406(LC 1), 6=424(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-563/279, 4-6=-202/253
BOT CHORD 2-7=-446/513, 6-7=-446/513
WEBS 3-6=-541/426

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) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-5-13 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) except (jt=lb) 2=138, 6=180.
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.

Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date:
October 26,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	M03	Monopitch	1	1	T25754483
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:51:00 2021 Page 1
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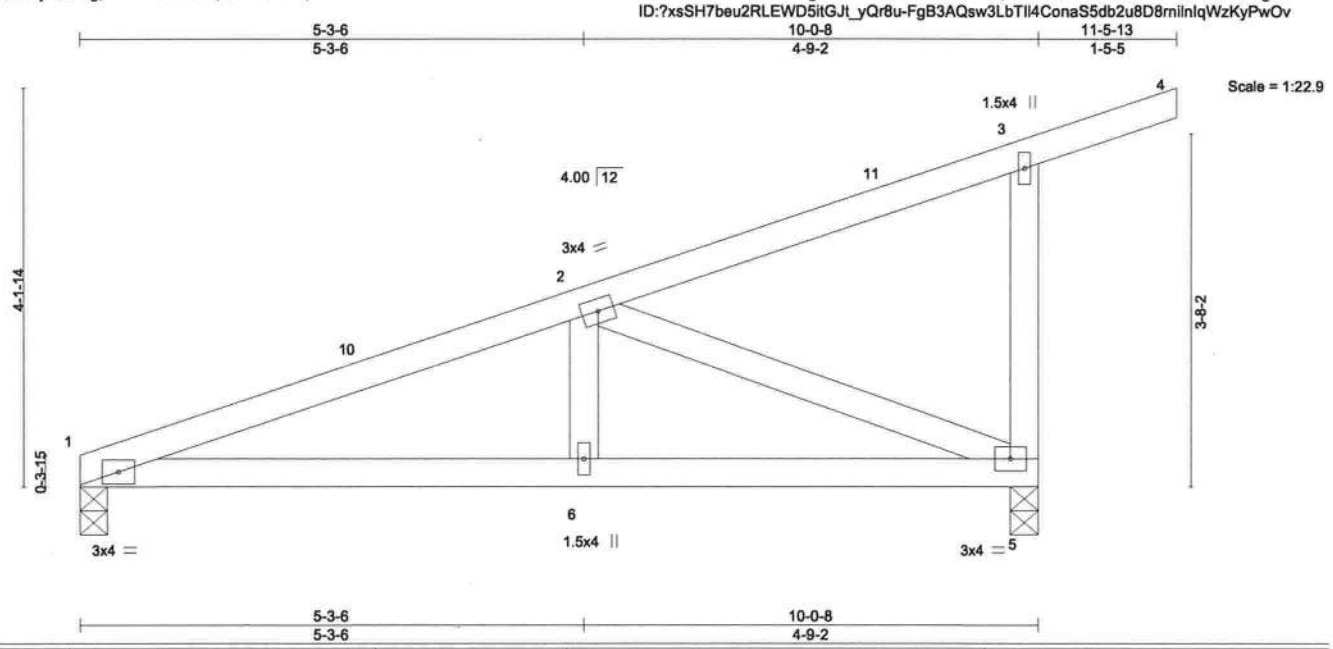

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.03	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.05	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	5	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 47 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=168(LC 9)
Max Uplift 1=-72(LC 12), 5=-185(LC 12)
Max Grav 1=330(LC 1), 5=429(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-582/307, 3-5=-200/250
BOT CHORD 1-6=-465/532, 5-6=-465/532
WEBS 2-5=-563/448

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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-5-13 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) 1 except (jt=lb) 5=185.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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October 26,2021

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Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	T01	Roof Special	15	1	T25754484
					Job Reference (optional)

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:51:01 2021 Page 1
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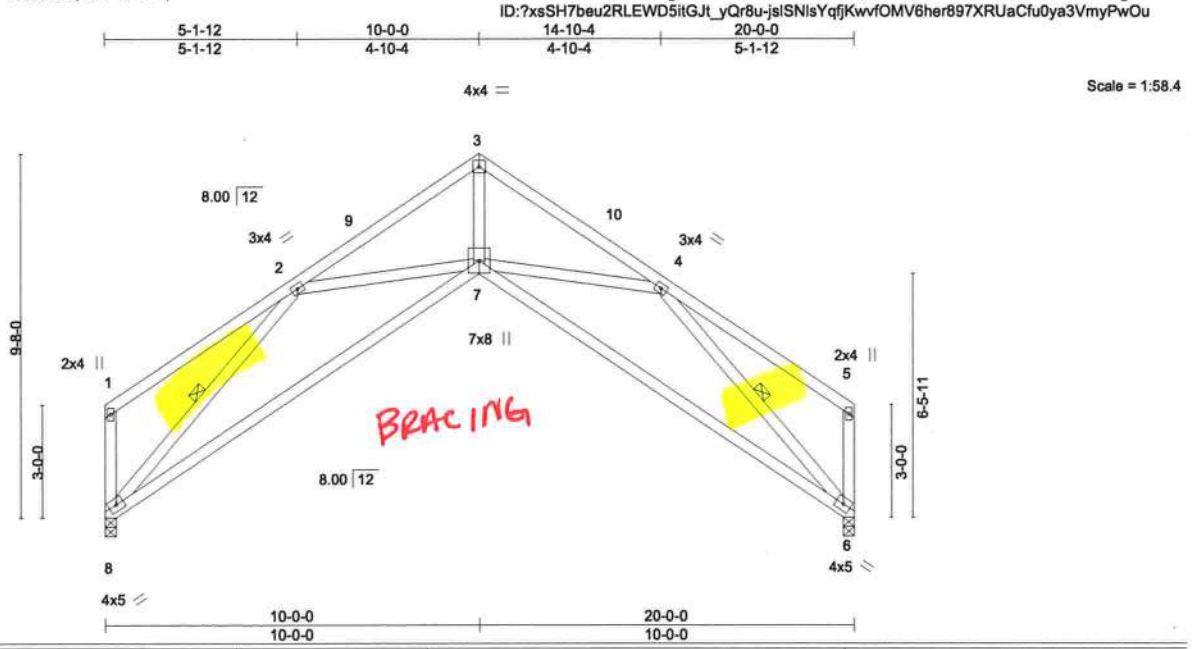

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.29	6-7	>817	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.51	6-7	>461	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.27	6	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 121 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 4-6, 2-8

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=-297(LC 10)
Max Uplift 8=-183(LC 12), 6=-183(LC 12)
Max Grav 8=670(LC 1), 6=670(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1566/559, 3-4=-1597/571
BOT CHORD 7-8=-575/1333, 6-7=-501/1100
WEBS 3-7=-471/1477, 4-7=-193/512, 4-6=-1312/580, 2-7=0/359, 2-8=-1316/508

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 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 19-10-4 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) Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=183, 6=183.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	T03	Common	3	1	T25754485
					Job Reference (optional)

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:51:02 2021 Page 1
ID:?xsSH7beu2RLEWD5itGJt_yQr8u-B2Jqa5tAazrBX3EawCdwA2gM5xp_Jil1EcJd2DyPwOt

-1-4-0	4-8-7	9-0-0	13-3-9	18-0-0	19-4-0
1-4-0	4-8-7	4-3-9	4-3-9	4-8-7	1-4-0

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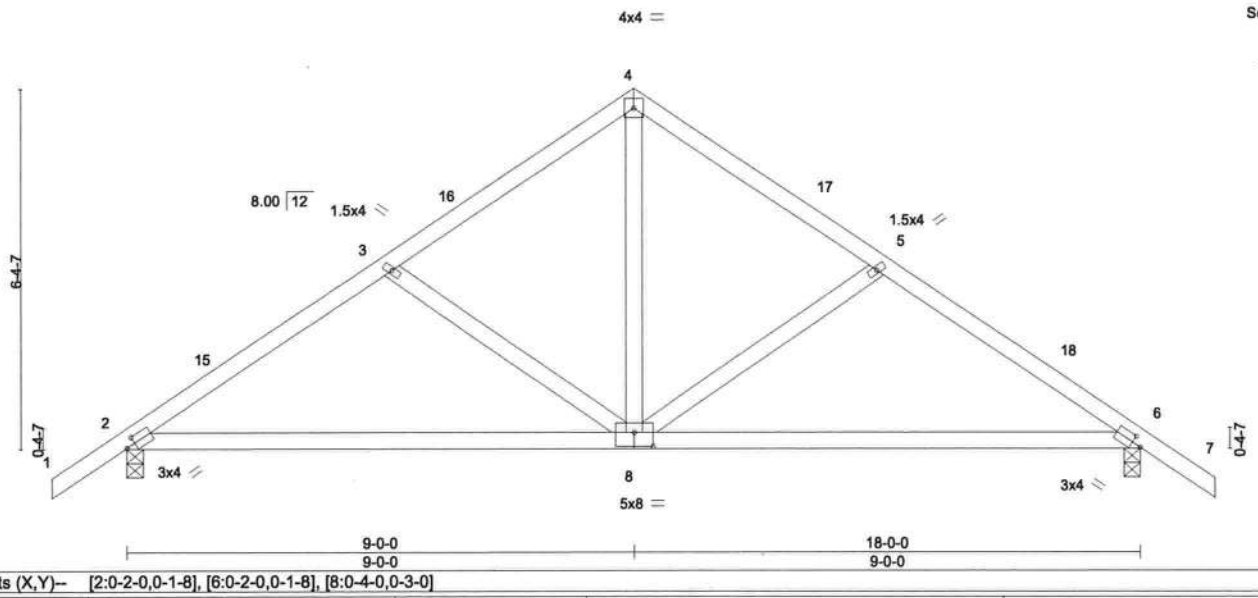

9-0-0	18-0-0
9-0-0	9-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.10	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.18	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.02	6	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 88 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=188(LC 11)
Max Uplift 2=-228(LC 12), 6=-228(LC 12)
Max Grav 2=684(LC 1), 6=684(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-843/294, 3-4=-643/254, 4-5=-643/254, 5-6=-843/294
BOT CHORD 2-8=-137/713, 6-8=-149/673
WEBS 4-8=-127/448, 5-8=-277/188, 3-8=-277/188

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) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior(1) 12-0-0 to 19-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=228, 6=228.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	T04	Common	20	1	T25754486
					Job Reference (optional)

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:51:03 2021 Page 1
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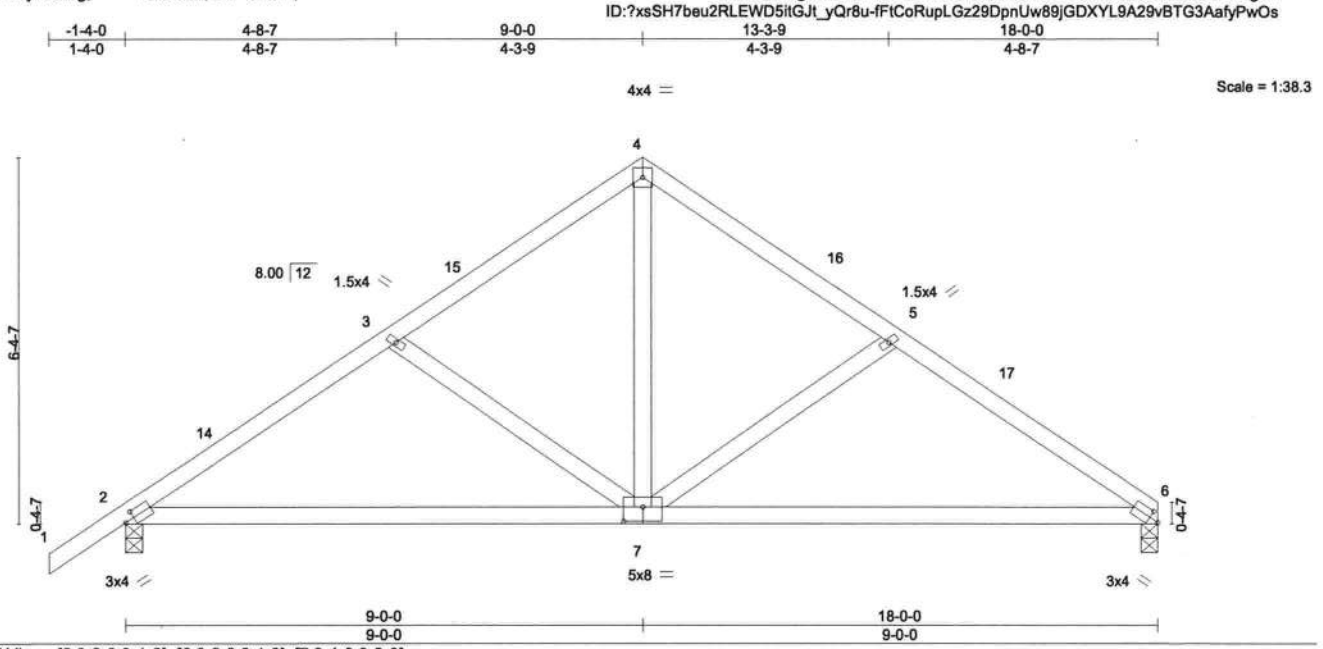

Plate Offsets (X,Y)-- [2:0-2-0,0-1-8], [6:0-2-0,0-1-8], [7:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.10	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.19	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.02	6	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 86 lb	FT = 20%

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

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

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=180(LC 11)
Max Uplift 6=-164(LC 12), 2=-232(LC 12)
Max Grav 6=609(LC 1), 2=687(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-849/300, 3-4=-648/258, 4-5=-649/264, 5-6=-853/309
BOT CHORD 2-7=-196/702, 6-7=-190/686
WEBS 4-7=-139/450, 5-7=-287/194, 3-7=-277/188

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) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior(1) 12-0-0 to 18-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=164, 2=232.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	V01	Valley	1	1	T25754487
					Job Reference (optional)

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:51:04 2021 Page 1
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12-2-5 / 12-2-5 — 24-4-10 / 12-2-5

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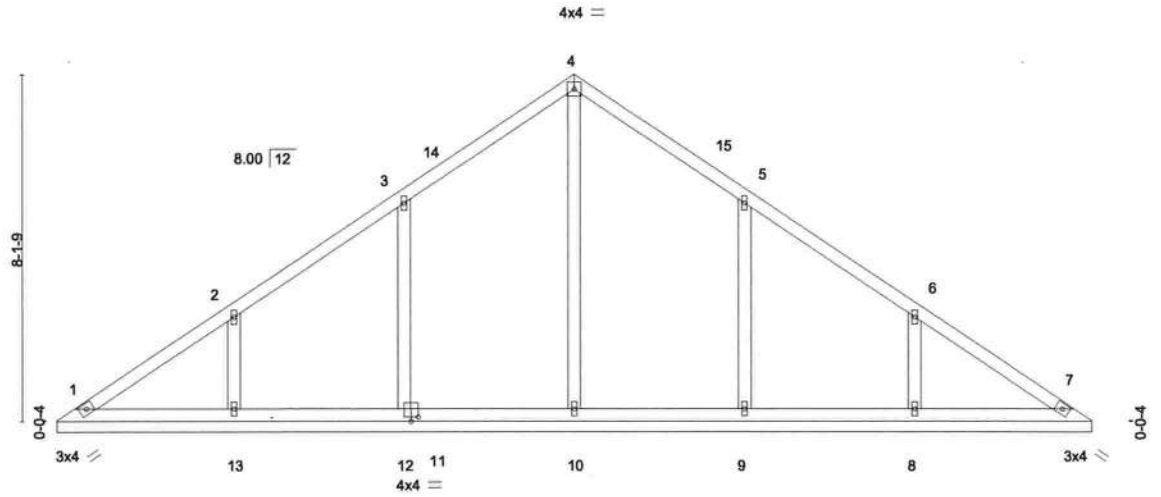

0-0-6 / 0-0-6 — 24-4-10 / 24-4-4

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

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	7	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%

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

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

REACTIONS. All bearings 24-3-14.
(lb) - Max Horz 1=-213(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 12=-144(LC 12), 13=-147(LC 12), 9=-144(LC 12), 8=-147(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=347(LC 17), 12=395(LC 17), 13=378(LC 17), 9=397(LC 18), 8=378(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-256/202, 2-13=-251/184, 5-9=-256/202, 6-8=-251/184

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 12-2-5, Exterior(2R) 12-2-5 to 15-2-5, Interior(1) 15-2-5 to 23-10-14 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) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=144, 13=147, 9=144, 8=147.

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Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	V02	Valley	1	1	T25754488
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:51:05 2021 Page 1
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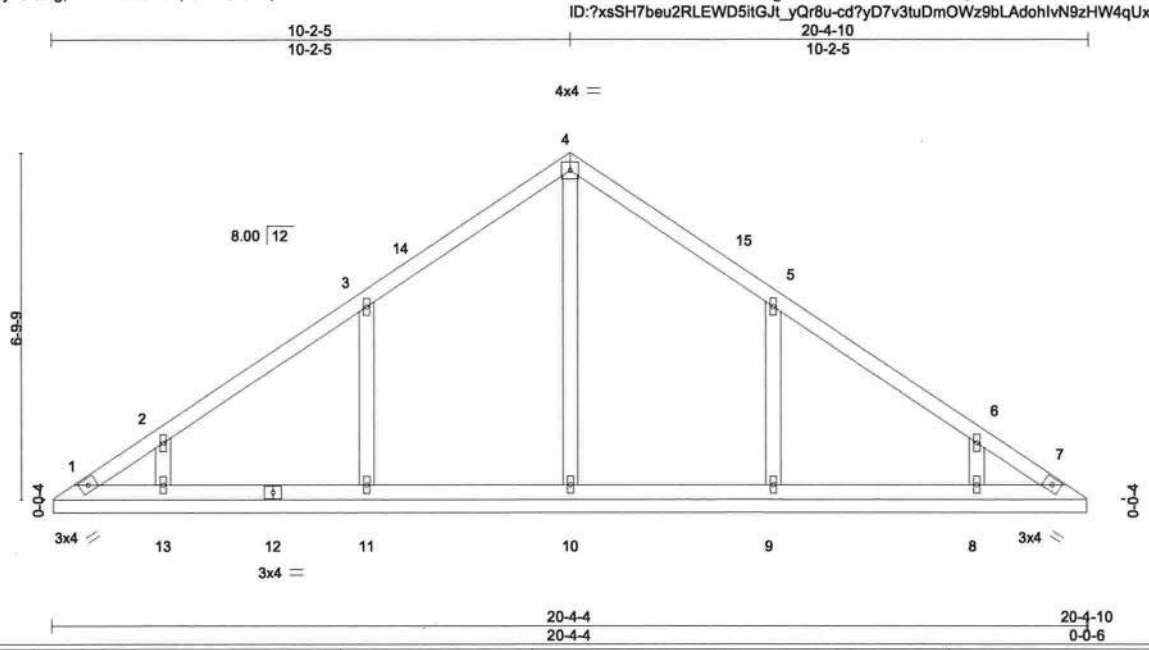

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%

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

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

REACTIONS. All bearings 20-3-14.
(lb) - Max Horz 1=-176(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-151(LC 12), 13=-112(LC 12), 9=-151(LC 12), 8=-112(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=335(LC 17), 11=417(LC 17), 13=286(LC 17), 9=416(LC 18), 8=286(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-267/210, 5-9=-267/210

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 10-2-5, Exterior(2R) 10-2-5 to 13-2-5, Interior(1) 13-2-5 to 19-10-14 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) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=151, 13=112, 9=151, 8=112.

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October 26,2021

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Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	V03	Valley	1	1	T25754489
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577, 8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:51:06 2021 Page 1
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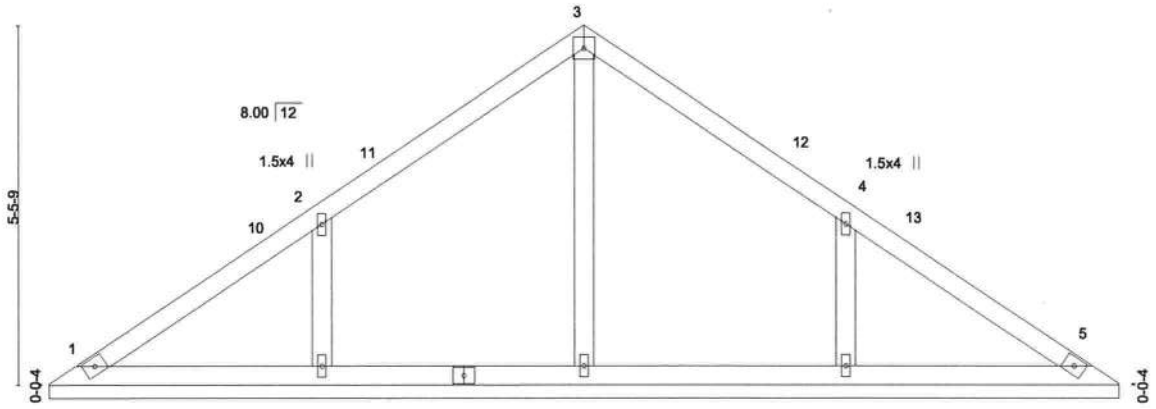
8-2-5 16-4-10
8-2-5 8-2-5

Scale = 1:33.4



0-0-6 16-4-10
0-0-6 16-4-4

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	0.21	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	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 66 lb	FT = 20%

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

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

REACTIONS. All bearings 16-3-14.
(lb) - Max Horz 1=-140(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-158(LC 12), 6=-158(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=340(LC 17), 6=339(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-273/223, 4-6=-272/223

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 8-2-5, Exterior(2R) 8-2-5 to 11-2-5, Interior(1) 11-2-5 to 15-10-14 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) 1, 5 except (jt=lb) 9=158, 6=158.

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Job	Truss	Truss Type	Qty	Ply	James Cardin	
211022-06KM	V04	Valley	1	1	Job Reference (optional)	T25754490

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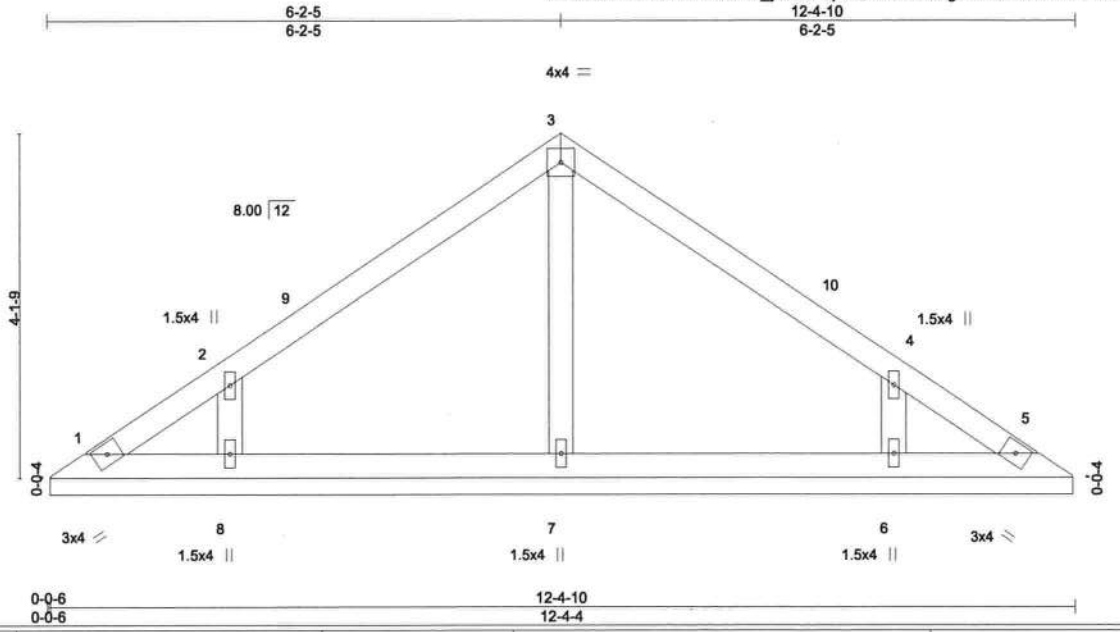

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	7.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 47 lb	FT = 20%

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

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

REACTIONS. All bearings 12-3-14.
(lb) - Max Horz 1=-104(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-129(LC 12), 6=-129(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=274(LC 17), 6=274(LC 18)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-2-5, Exterior(2R) 6-2-5 to 9-2-5, Interior(1) 9-2-5 to 11-10-14 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) 1, 5 except (jt=lb) 8=129, 6=129.

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Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	V05	GABLE	1	1	T25754491
					Job Reference (optional)

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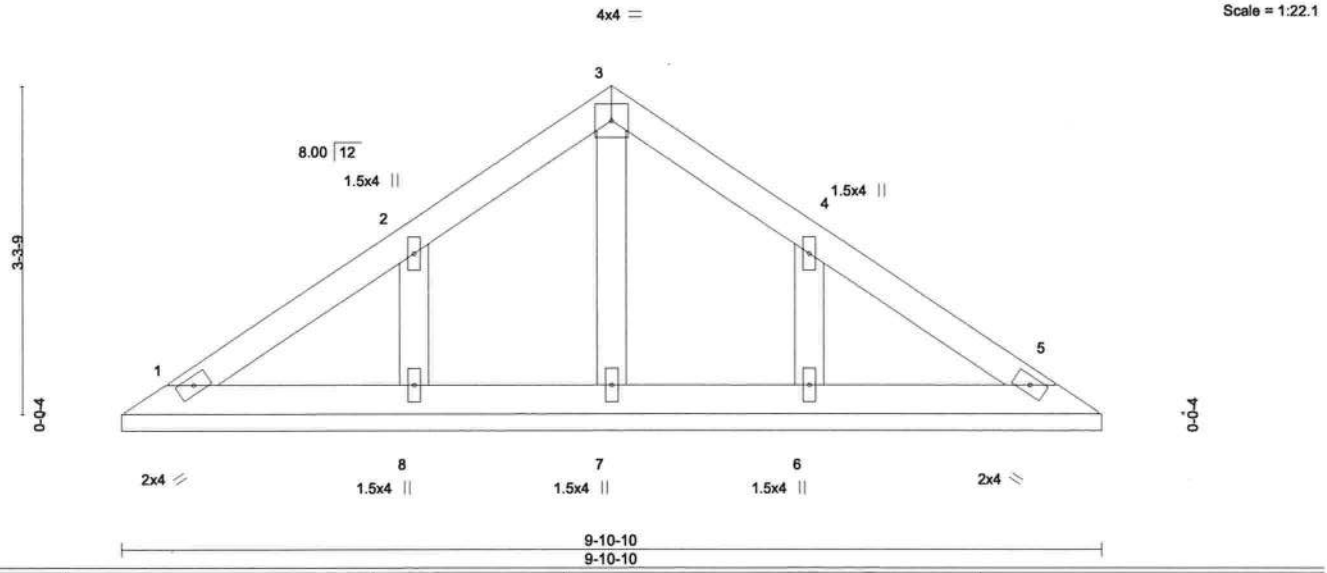

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-S							Weight: 39 lb	FT = 20%

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

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

REACTIONS. All bearings 9-10-10.
(lb) - Max Horz 1=81(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-11-5, Exterior(2R) 4-11-5 to 7-11-5, Interior(1) 7-11-5 to 9-4-14 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) 1, 5, 8, 6.

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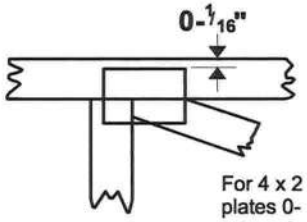
Symbols

PLATE LOCATION AND ORIENTATION

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



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

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

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

PLATE SIZE

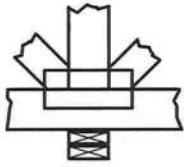
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

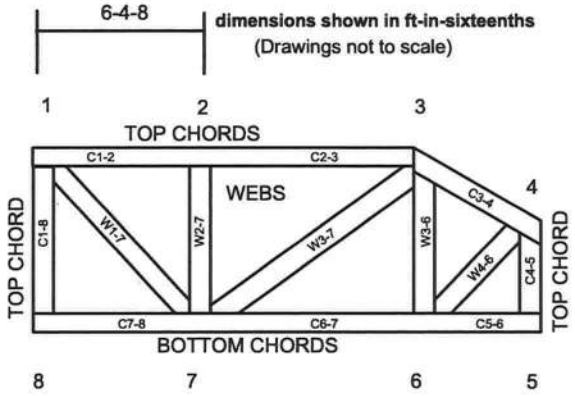


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	M03	Monopitch	1	1	T25754483
					Job Reference (optional)

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8.520 s Aug 27 2021 MiTek Industries, Inc. Mon Oct 25 08:51:00 2021 Page 1
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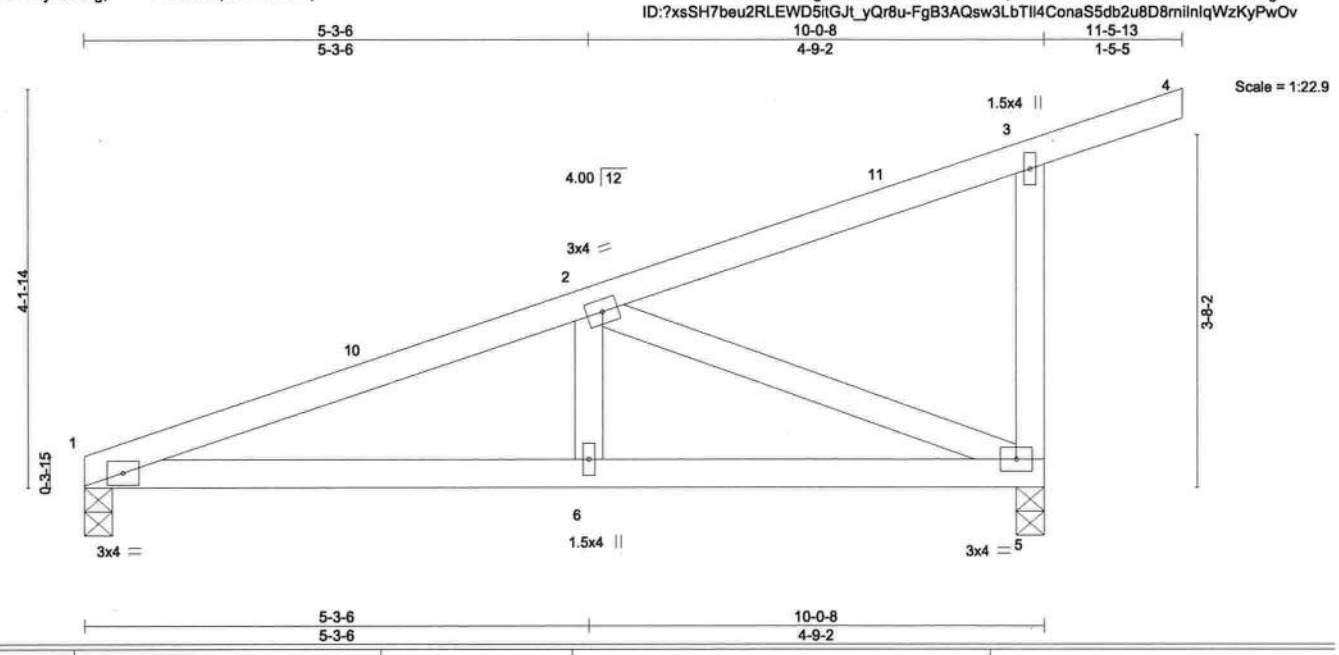

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.03	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.05	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	5	n/a	n/a		
BCDL	7.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 47 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=168(LC 9)
Max Uplift 1=-72(LC 12), 5=-185(LC 12)
Max Grav 1=330(LC 1), 5=429(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-582/307, 3-5=-200/250
BOT CHORD 1-6=-465/532, 5-6=-465/532
WEBS 2-5=-563/448

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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-5-13 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) 1 except (jt=lb) 5=185.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	James Cardin
211022-06KM	G01	COMMON GIRDER	1	2	T25754479 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 6-11=-14
   Concentrated Loads (lb)
   Vert: 11=-601(F) 10=-595(F) 8=-595(F) 12=-595(F) 13=-595(F) 14=-595(F) 15=-595(F) 16=-595(F) 17=-595(F) 18=-595(F)