

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Sapp Residence	Bedrooms:	4	Address Type:	Street Address								
Building Type:	User	Conditioned Area:	2436	Lot #	24								
Owner Name:	Ed Sapp	Total Stories:	1	Block/Subdivision:	River Rise								
# of Units:	1	Worst Case:	No	PlatBook:									
Builder Name:		Rotate Angle:	0	Street:									
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia								
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL , 32024								
Family Type:	Single-family												
New/Existing:	New (From Plans)												
Comment:													
CLIMATE													
✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range				
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium				
BLOCKS													
	Number	Name	Area	Volume									
	1	Block1	2436	21924									
SPACES													
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated		
	1	Main	2436	21924	Yes	8	4	1	Yes	Yes	Yes		
FLOORS													
✓	#	Floor Type	Space	Perimeter	R-Value	Area			Tile	Wood	Carpet		
_____	1	Slab-On-Grade Edge Insulation	Main	242 ft	0	2436 ft²	----		0	0	1		
ROOF													
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	2724 ft²	0 ft²	Medium	N	0.96	No	0.9	No	19	26.6
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
_____	1	Full attic	Unvented	0	2436 ft²	N	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
_____	1	Under Attic (Unvented)	Main	0	Double Batt	2558 ft²	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	S	Exterior	Frame - Wood	Main	13	18		9		162.0 ft²		0.23	0.75	0
2	W	Exterior	Frame - Wood	Main	13	4	8	9		42.0 ft²		0.23	0.75	0
3	S	Exterior	Frame - Wood	Main	13	14		9		126.0 ft²		0.23	0.75	0
4	E	Exterior	Frame - Wood	Main	13	51	4	9		462.0 ft²		0.23	0.75	0
5	N	Exterior	Frame - Wood	Main	13	12	6	9		112.5 ft²		0.23	0.75	0
6	W	Exterior	Frame - Wood	Main	13	13	4	9		120.0 ft²		0.23	0.75	0
7	N	Exterior	Frame - Wood	Main	13	28	8	9		258.0 ft²		0.23	0.75	0
8	E	Exterior	Frame - Wood	Main	13	8	4	9		75.0 ft²		0.23	0.75	0
9	N	Exterior	Frame - Wood	Main	13	16	10	9		151.5 ft²		0.23	0.75	0
10	W	Exterior	Frame - Wood	Main	13	46	8	9		420.0 ft²		0.23	0.75	0
11	S	Garage	Frame - Wood	Main	13	26		9		234.0 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	S	Insulated	Main	None	.46	3		6	8	20 ft²
2	S	Insulated	Main	None	.46	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	2 ft 0 in	1 ft 0 in	None	None
2	S	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	2 ft 0 in	1 ft 0 in	None	None
3	E	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	45.0 ft²	2 ft 0 in	1 ft 0 in	None	None
4	E	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft²	2 ft 0 in	1 ft 0 in	None	None
5	N	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	2 ft 0 in	1 ft 0 in	None	None
6	W	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	8 ft 0 in	1 ft 0 in	None	None
7	N	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	45.0 ft²	13 ft 0 in	1 ft 0 in	None	None
8	N	7	TIM	Low-E Double	Yes	0.36	0.25	N	24.0 ft²	13 ft 0 in	1 ft 0 in	None	None
9	N	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft²	13 ft 0 in	1 ft 0 in	None	None
10	E	8	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft²	8 ft 0 in	1 ft 0 in	None	None
11	N	9	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	2 ft 0 in	1 ft 0 in	None	None
12	W	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft²	2 ft 0 in	1 ft 0 in	None	None
13	W	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft²	2 ft 0 in	1 ft 0 in	None	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	797.342 ft²	797.342 ft²	87.33 ft	9 ft	1

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION												
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50				
1	Wholehouse	Proposed ACH(50)	.000286	1827	100.3	188.63	.1128	5				

HEATING SYSTEM									
<input checked="" type="checkbox"/>	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts		
<input type="checkbox"/>	1	Electric Heat Pump/	None	HSPF:8.2	35.61 kBtu/hr	1	sys#1		

COOLING SYSTEM									
<input checked="" type="checkbox"/>	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
<input type="checkbox"/>	1	Central Unit/	None	SEER: 16	24.74 kBtu/hr	750 cfm	0.7	1	sys#1

HOT WATER SYSTEM									
<input checked="" type="checkbox"/>	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
<input type="checkbox"/>	1	Electric	None	Main	0.92	50 gal	40 gal	120 deg	None

SOLAR HOT WATER SYSTEM							
<input checked="" type="checkbox"/>	FSEC	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
<input type="checkbox"/>	None	None				ft ²	

DUCTS														
<input checked="" type="checkbox"/>	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area							Heat	Cool
<input type="checkbox"/>	1	Attic	6	609 ft ²	Attic	121.8 ft ²	Default Leakage	Garage	(Default)	c(Default)	c		1	1

TEMPERATURES																								
Programable Thermostat: Y						Ceiling Fans:																		
Cooling	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Heating	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input type="checkbox"/>	Jun	<input type="checkbox"/>	Jul	<input type="checkbox"/>	Aug	<input type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input type="checkbox"/>	Nov	<input type="checkbox"/>	Dec
Venting	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input type="checkbox"/>	Jun	<input type="checkbox"/>	Jul	<input type="checkbox"/>	Aug	<input type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input type="checkbox"/>	Nov	<input type="checkbox"/>	Dec

INPUT SUMMARY CHECKLIST REPORT

Thermostat Schedule: HERS 2006 Reference		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
MASS													
Mass Type		Area		Thickness		Furniture Fraction		Space					
Default(8 lbs/sq.ft.		0 ft²		0 ft		0.3		Main					

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* =99

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level	
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts	R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts	R <u>6.0</u>
4. Number of bedrooms	4. <u>4</u>	c) AHU location	Garage
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system:	Capacity <u>24.7</u>
6. Conditioned floor area (sq. ft.)	6. <u>2436</u>	a) Split system	SEER <u> </u>
7. Windows, type and area		b) Single package	SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.360</u>	c) Ground/water source	SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.250</u>	d) Room unit/PTAC	EER <u> </u>
c) Area	7c. <u>278.0</u>	e) Other	<u>16.0</u>
8. Skylights		14. Heating system:	Capacity <u>35.6</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump	HSPF <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump	HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance	COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas	AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u> </u>	e) Gas furnace, LPG	AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other	<u>8.20</u>
10. Wall type and insulation:		15. Water heating system	
A. Exterior:		a) Electric resistance	EF <u>0.92</u>
1. Wood frame (Insulation R-value)	10A1. <u>13.0</u>	b) Gas fired, natural gas	EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG	EF <u> </u>
B. Adjacent:		d) Solar system with tank	EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u>13.0</u>	e) Dedicated heat pump with tank	EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit	HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other	
a) Under attic	11a. <u>0.0</u>	16. HVAC credits claimed (Performance Method)	
b) Single assembly	11b. <u> </u>	a) Ceiling fans	<u> </u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation	<u>Yes</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan	<u>No</u>
		d) Multizone cooling credit	<u> </u>
		e) Multizone heating credit	<u> </u>
		f) Programmable thermostat	<u>Yes</u>

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL display card will be completed based on installed code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: Lake City, FL 32024

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction: _____

Permit #: _____

Job Information

Builder: _____

Community: _____

Lot: NA

Address: _____

City: Lake City

State: FL

Zip: 32024

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

☐ **PRESCRIPTIVE METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

☐ **PERFORMANCE or ERI METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 5.000

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div 21924 = \text{ACH}(50)$$



PASS

☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.

Method for calculating building volume:

☐ Retrieved from architectural plans

☒ Code software calculated

☐ Field measured and calculated

R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7) *Florida Statutes* or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official*. Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope*.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____



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

RE: LMSAPP -

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: LDM CONSTRUCTION Project Name: SAPP RESIDENCE Model:
Lot/Block: Subdivision:
Address: 422 SW GREY WAY
City: HIGH SPRINGS State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 35 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	T18452780	A1	10/23/19	15	T18452794	A15	10/23/19
2	T18452781	A2	10/23/19	16	T18452795	A16	10/23/19
3	T18452782	A3	10/23/19	17	T18452796	A17	10/23/19
4	T18452783	A4	10/23/19	18	T18452797	A18	10/23/19
5	T18452784	A5	10/23/19	19	T18452798	A19	10/23/19
6	T18452785	A6	10/23/19	20	T18452799	A20	10/23/19
7	T18452786	A7	10/23/19	21	T18452800	A21	10/23/19
8	T18452787	A8	10/23/19	22	T18452801	B	10/23/19
9	T18452788	A9	10/23/19	23	T18452802	BET	10/23/19
10	T18452789	A10	10/23/19	24	T18452803	C	10/23/19
11	T18452790	A11	10/23/19	25	T18452804	CET	10/23/19
12	T18452791	A12	10/23/19	26	T18452805	CGT	10/23/19
13	T18452792	A13	10/23/19	27	T18452806	CJ09	10/23/19
14	T18452793	A14	10/23/19	28	T18452807	CJ09A	10/23/19



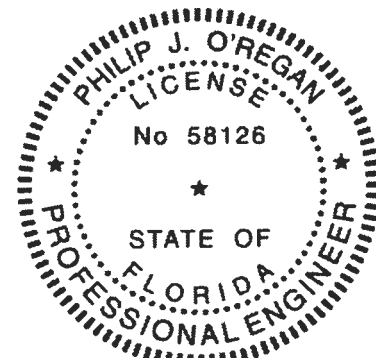
This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

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

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.



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

October 23, 2019

O'Regan, Philip

1 of 2



RE: LMSAPP -

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: LDM CONSTRUCTION Project Name: SAPP RESIDENCE Model:
Lot/Block: Subdivision:
Address: 422 SW GREY WAY
City: HIGH SPRINGS State: FL

No.	Seal#	Truss Name	Date
29	T18452808	EJ7	10/23/19
30	T18452809	EJ7A	10/23/19
31	T18452810	J01	10/23/19
32	T18452811	J03	10/23/19
33	T18452812	J03A	10/23/19
34	T18452813	J05	10/23/19
35	T18452814	J05A	10/23/19

Job	Truss	Truss Type	Qty	Ply	T18452780
LMSAPP	A1	Half Hip Girder	1	1	

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 Mitek Industries, Inc. Tue Oct 22 16 24 17 2019 Page 1

ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-HmjomS7e5bJVua1sw?Kq88EDKJn4fx5nm9M54yQp1y

Job Reference (optional)

2-0-0 2-2-8 7-0-0 12-3-8 18-4-0 24-1-1 29-8-6 35-3-10 40-10-15 46-8-0

2-0-0 2-2-8 4-9-8 5-3-8 6-0-8 5-9-1 5-7-5 5-7-5 5-7-5 5-9-1

Scale = 1/83 4

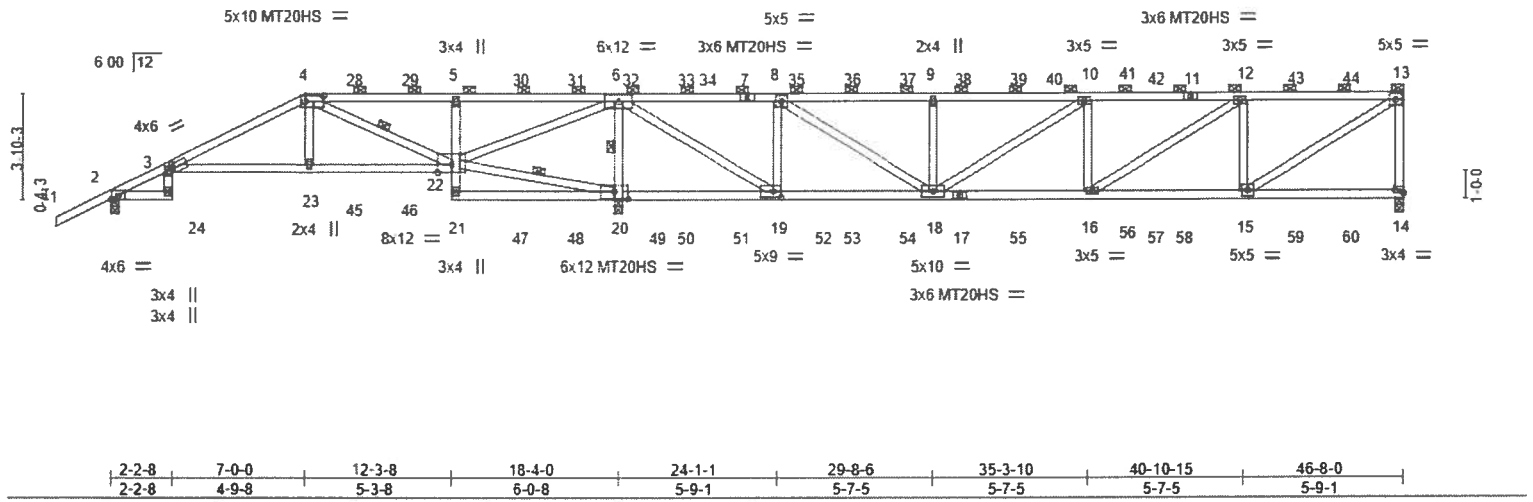


Plate Offsets (X,Y)--																	
[3 0-0-12,0-2-0],			[4 0-8-0,0-2-8],			[14 Edge,0-1-8],			[19 0-3-8,0-2-8],			[20 0-6-0,0-3-4]					
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	-0.24	3-23	>903	360	MT20	244/190					
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.49	3-23	>445	240	MT20HS	187/143					
BCLL	0.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.21	14	n/a	n/a							
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Wind(LL)	0.19	3-23	>999	240	Weight: 254 lb	FT = 15%					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 1 *Except*	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-6-9 max).
1-4, 2x4 SP SS, 11-13, 2x4 SP No 2	4-13 Rigid ceiling directly applied or 10-0-0 oc bracing, Except.
BOT CHORD 2x4 SP No 2 *Except*	6-0-0 oc bracing 20-21, 18-19
3-22, 2x4 SP No 1	2-4-3 oc bracing 19-20
WEBS 2x4 SP No 2 *Except*	WEBS 1 Row at midpt 4-22, 20-22, 6-20
6-19, 2x4 SP No 1	

REACTIONS. (lb/size) 14=1917/0-3-8, 2=603/0-3-8, 20=5450/0-3-8

Max Horz 2=145(LC 8)

Max Uplift 14=-184(LC 5), 2=-80(LC 8), 20=-391(LC 8)

Max Grav 14=1961(LC 18), 2=603(LC 1), 20=5450(LC 1)

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

TOP CHORD 3-26=-316/0, 3-4=-719/108, 4-5=-106/1474, 5-6=-98/1464, 6-8=-29/437, 8-9=-2214/179, 9-10=-2214/179, 10-12=-3002/226, 12-13=-2335/174, 13-14=-1854/234

BOT CHORD 3-23=-62/631, 22-23=-55/673, 5-22=-702/216, 19-20=-4344/309, 18-19=-437/29, 16-18=-226/3002, 15-16=-174/2335

WEBS 4-23=0/771, 4-22=-2372/154, 20-22=-4255/281, 6-22=-230/3139, 6-20=-4434/485, 6-19=-329/4674, 8-19=-2172/326, 8-18=-208/2809, 9-18=-685/215, 10-18=-1015/72, 12-16=-62/789, 12-15=-1156/265, 13-15=-202/2702

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TC DL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=47ft, eave=6ft, Cat II, Exp B, Encl, GCp=0.18, MWFRS (directional), Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 14=184, 20=391.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
Mitek USA, Inc. FL Cert 6434
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2015 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/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T18452780
MSAPP	A1	Half Hip Girder	1	1	

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries Inc. Tue Oct 22 16 24 17 2019 Page 2

ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-HmjomS7e5bjVua1sw?Kq88EDKJn4fx5xnm9M54yQp1y

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 138 lb up at 7-0-0, 109 lb down and 69 lb up at 8-8-12, 109 lb down and 69 lb up at 10-8-12, 121 lb down and 80 lb up at 12-8-12, 121 lb down and 80 lb up at 14-8-12, 121 lb down and 80 lb up at 16-8-12, 121 lb down and 80 lb up at 18-8-12, 121 lb down and 80 lb up at 20-8-12, 121 lb down and 80 lb up at 22-8-12, 121 lb down and 80 lb up at 24-8-12, 121 lb down and 80 lb up at 26-8-12, 121 lb down and 80 lb up at 28-8-12, 121 lb down and 80 lb up at 30-8-12, 121 lb down and 80 lb up at 32-8-12, 121 lb down and 80 lb up at 34-8-12, 121 lb down and 80 lb up at 36-8-12, 121 lb down and 80 lb up at 38-8-12, 121 lb down and 80 lb up at 40-8-12, 121 lb down and 80 lb up at 42-8-12, and 121 lb down and 80 lb up at 44-8-12, and 154 lb down and 68 lb up at 46-6-4 on top chord and 442 lb down and 18 lb up at 7-0-0, 78 lb down at 8-8-12, 78 lb down at 10-8-12, 83 lb down at 12-5-4, 83 lb down at 14-8-12, 83 lb down at 16-8-12, 83 lb down at 18-8-12, 83 lb down at 20-8-12, 83 lb down at 22-8-12, 83 lb down at 24-8-12, 83 lb down at 26-8-12, 83 lb down at 28-8-12, 83 lb down at 30-8-12, 83 lb down at 32-8-12, 83 lb down at 34-8-12, 83 lb down at 36-8-12, 83 lb down at 38-8-12, 83 lb down at 40-8-12, and 83 lb down at 42-8-12, and 83 lb down at 44-8-12 on bottom 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=-60, 3-4=-60, 4-13=-60, 24-25=-20, 3-22=-20, 14-21=-20

Concentrated Loads (lb)

Vert: 4=-109(F) 7=-121(F) 13=-154(F) 22=-59(F) 5=-121(F) 23=-442(F) 12=-121(F) 15=-59(F) 11=-121(F) 17=-59(F) 28=-109(F) 29=-109(F) 30=-121(F) 31=-121(F) 32=-121(F) 33=-121(F) 35=-121(F) 36=-121(F) 37=-121(F) 38=-121(F) 39=-121(F) 41=-121(F) 42=-121(F) 43=-121(F) 44=-121(F) 45=-71(F) 46=-71(F) 47=-59(F) 48=-59(F) 49=-59(F) 50=-59(F) 51=-59(F) 52=-59(F) 53=-59(F) 54=-59(F) 55=-59(F) 56=-59(F) 57=-59(F) 58=-59(F) 59=-59(F) 60=-59(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2015 BEFORE USE.

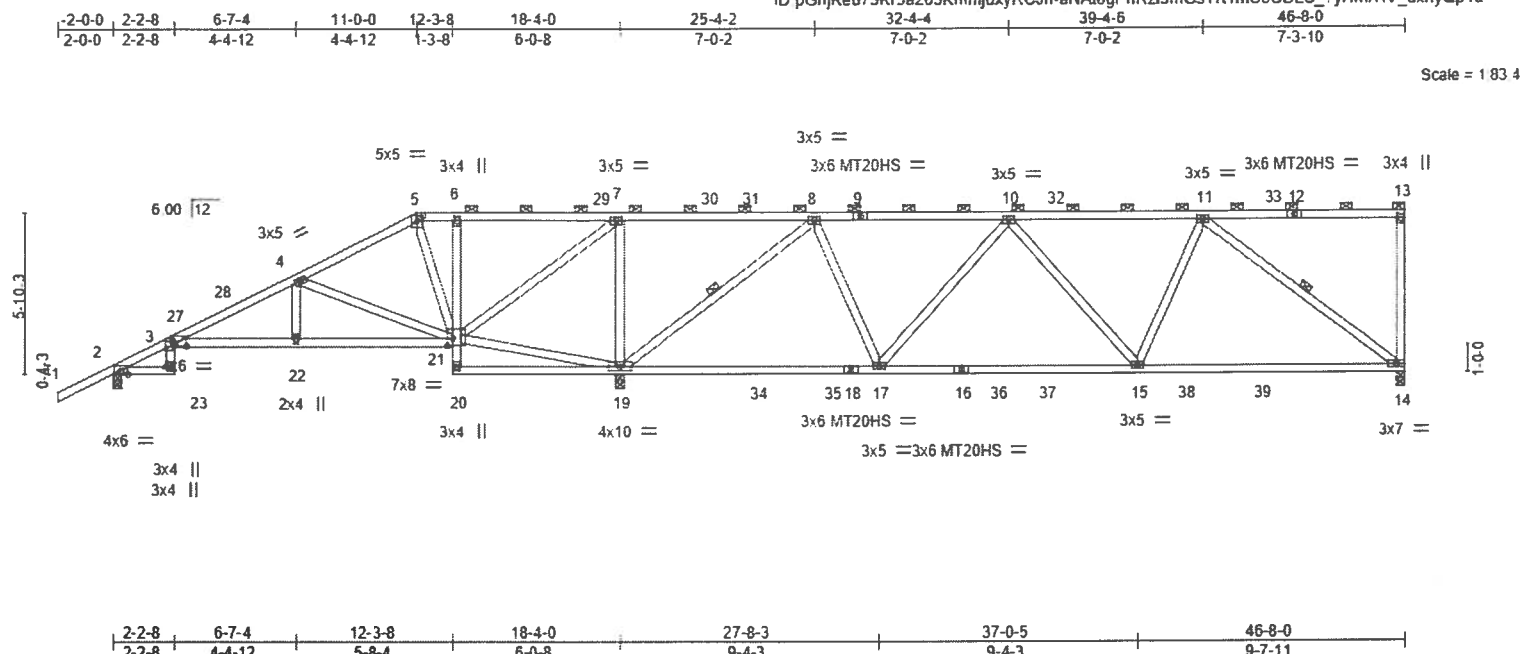
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
LMSAPP	A3	Half Hip	1	1	T18452782

SANTA FE TRUSS COMPANY INC. BELL FL 8 240 s Jul 14 2019 Mitek Industries, Inc. Tue Oct 22 16 24 41 2019 Page 1
 ID pGnjKcu79Kr3a2o3KmmjuxyRCJn-aNAIogPhRzI5mGsTK1mS6CDLS_7yHmITIV_dxyQp1a



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.80	Vert(LL) -0.19 14-15 >999 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.95	Vert(CT) -0.38 14-15 >890 240		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Horz(CT) 0.09 14 n/a n/a		
			Wind(LL) 0.08 3-22 >999 240	Weight 270 lb	FT = 15%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (5-6-5 max.). 5-13.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied
	WEBS 1 Row at midpt 8-19, 11-14

REACTIONS. (lb/size)	14=803/0-3-8, 2=360/0-3-8, 19=2679/0-3-8
	Max Horz 2=203(LC 12)
	Max Uplift 14=-57(LC 9), 2=-45(LC 12), 19=-203(LC 12)
	Max Grav 14=911(LC 22), 2=360(LC 1), 19=2679(LC 1)

FORCES. (lb) - Max Comp./Max Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 4-5=-190/703, 5-6=-166/715, 6-7=-159/704, 7-8=-379/1580, 8-10=-589/35
10-11=-960/57
BOT CHORD 6-21=-259/115, 17-19=-219/303, 15-17=-83/919, 14-15=-95/853
4-22=0/260, 4-21=-600/187, 5-21=-429/162, 19-21=-1513/373, 7-21=-278/1129,
7-19=-1097/313, 8-19=-1851/306, 8-17=-40/856, 10-17=-706/196, 10-15=-9/252,
11-15=0/276, 11-14=-1030/122

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=47ft, eave=6ft, Cat II, Exp B, Encl., GCp=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 2-8-0, Interior(1) 2-8-0 to 11-0-0, Exterior(2) 11-0-0 to 17-7-3, Interior(1) 17-7-3 to 46-6-4 zone C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding
 - 4) All plates are MT20 plates unless otherwise indicated
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 2 except (jt=lb) 19=203
 - 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

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
 Mitek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M1-7473 rev. 10/03/2015 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 ANSITP1 Quality Criteria, DSB-89 and BCS Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply		T18452783
MSAPP	A4	Roof Special	1	1		

SANTA FE TRUSS COMPANY INC.

BELL FL

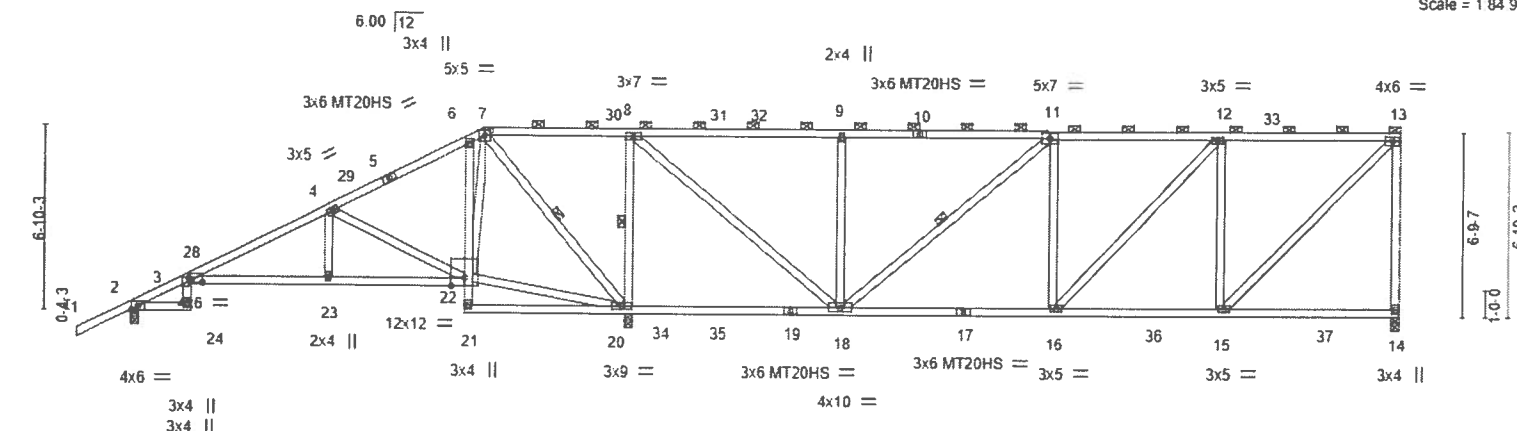
Job Reference (optional)

8/24/2019 14:20:19 Mitek Industries, Inc. Tue Oct 22 16:24:42 2019 Page 1

ID pGnjKou79Kr3a2o3KmmjuxyRCJn-2ZjF?0QJCGtyOQRfuiHhePmWTOP70L_cW9jBU7yQp1Z

2-0-0	2-2-8	7-3-0	12-3-8	13-0-0	18-4-0	26-1-10	33-8-0	33-8-8	40-1-0	46-8-0
2-0-0	2-2-8	5-0-8	5-0-8	0-8-8	5-4-0	7-9-10	7-6-6	0-1-8	6-3-8	6-7-0

Scale = 1/84.9



2-2-8	7-3-0	12-3-8	18-4-0	26-1-10	33-9-8	40-1-0	46-8-0
2-2-8	5-0-8	5-0-8	6-0-8	7-9-10	7-7-14	6-3-8	6-7-0

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1 25	TC 0.77	Vert(LL)	-0.09	18-20	>999	360	MT20 244/190
TCDL 10.0	Lumber DOL	1 25	BC 0.55	Vert(CT)	-0.18	16-18	>999	240	MT20HS 187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.06	20	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS	Wind(LL)	0.07	3-23	>999	240	
									Weight: 295 lb FT = 15%

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 (5-8-7 max.). 7-13.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-20, 8-20, 11-18

REACTIONS.

(lb/size) 14=826/0-3-8, 2=323/0-3-8, 20=2693/0-3-8
 Max Horz 2=230(LC 12)
 Max Uplift 14=-55(LC 9), 2=-28(LC 12), 20=-221(LC 12)
 Max Grav 14=999(LC 24), 2=323(LC 1), 20=2693(LC 1)

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

TOP CHORD 3-4=-175/324, 4-6=-202/849, 6-7=-110/811, 7-8=-271/1364, 8-9=-491/84, 9-11=-493/84,
 11-12=-931/73, 12-13=-748/69, 13-14=-890/131
 BOT CHORD 18-20=-1247/250, 16-18=-75/929, 15-16=-69/748
 WEBS 4-23=0/253, 4-22=-582/134, 20-22=-730/132, 7-22=-133/326, 7-20=-1055/253,
 8-20=-1557/306, 8-18=-243/1756, 9-18=-482/174, 11-18=-778/131, 12-16=-20/266,
 12-15=-591/148, 13-15=-95/1031

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph: TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=47ft, eave=6ft, Cat II, Exp B, Encl, GCPI=0.18. MWFRS (directional) and C-C Exterior(2) 2-0-0 to 2-8-0, Interior(1) 2-8-0 to 13-0-0, Exterior(2) 13-0-0 to 17-8-0, Interior(1) 17-8-0 to 46-6-4 zone C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding
- All plates are MT20 plates unless otherwise indicated
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0 psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 2 except (jt=lb) 20=221.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
 Mitek USA, Inc. FL Cert 0634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
 Tampa, FL 33610

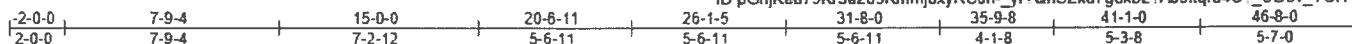
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MSAPP	A5	Roof Special	1	1	

T18452784

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16:24:44 2019 Page 1

ID pGnjKau79Kr3a2a3KmmjuxyRCJn-yr?QhSZku7gdkb2?AJ9kqr4C?_UD3v_TCIY0yQp1X



Scale = 1:83.4

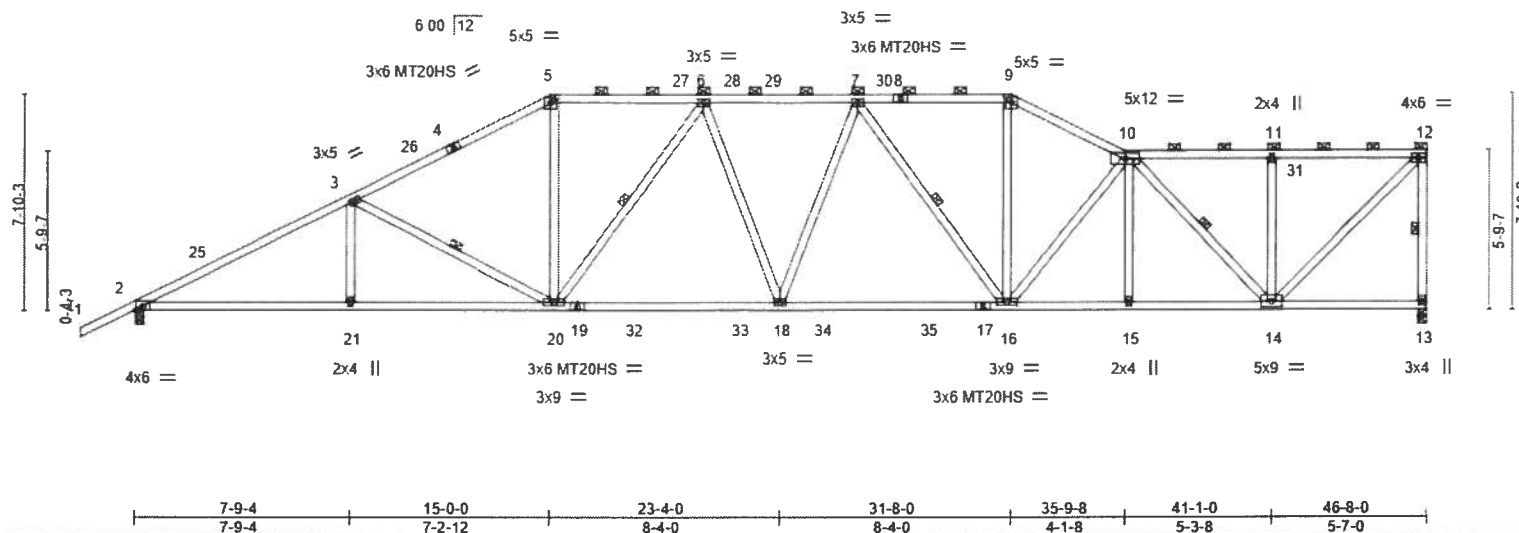


Plate Offsets (X,Y) [5 0-2-8 0-2-4], [9 0-2-8 0-2-4]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.70	Vert(LL)	-0.30 18-20	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.59 18-20	>944	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.19 13	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS	Wind(LL)	0.18 18	>999	240		
								Weight 289 lb	FT = 15%

LUMBER-

TOP CHORD 2x4 SP No 2
 BOT CHORD 2x4 SP No 2 *Except*
 17-19 2x4 SP No 1
 WEBS 2x4 SP No 2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-3-1 max). 5-9, 10-12.
 BOT CHORD Rigid ceiling directly applied
 WEBS 1 Row at midpt 12-13, 3-20, 6-20, 7-16, 10-14

REACTIONS.

(lb/size) 13=1858/0-3-8, 2=1983/0-3-8
 Max Horz 2=201(LC 12)
 Max Uplift 13=120(LC 12), 2=168(LC 12)

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

TOP CHORD 2-3=-3599/464, 3-5=-2923/451, 5-6=-2541/457, 6-7=-2878/458, 7-9=-2519/428,
 9-10=-2846/438, 10-11=-1664/238, 11-12=-1664/238, 12-13=-1805/302
 BOT CHORD 2-21=-534/3154, 20-21=-534/3154, 18-20=-428/2845, 16-18=-422/2829, 15-16=-402/2803,
 14-15=-400/2804
 WEBS 3-21=0/306, 3-20=-711/158, 5-20=-45/929, 6-20=-641/99, 7-18=-5/251, 7-16=-655/118,
 9-16=-77/993, 10-16=-495/103, 10-14=-1643/246, 11-14=-364/145, 12-14=-333/2338

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind. ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=47ft, eave=6ft, Cat. II, Exp B, Encl. GCpf=0.18. MWFRS (directional) and C-C Exterior(2) 2-0-0 to 2-8-0, Interior(1) 2-8-0 to 15-0-0, Exterior(2) 15-0-0 to 19-8-0, Interior(1) 19-8-0 to 31-8-0, Exterior(2) 31-8-0 to 35-9-8, Interior(1) 35-9-8 to 46-6-4 zone, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=120, 2=168.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M1473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312 Alexandria, VA 22314



6904 Parke East Blvd
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MSAPP	A6	Roof Special	1	1	T18452785

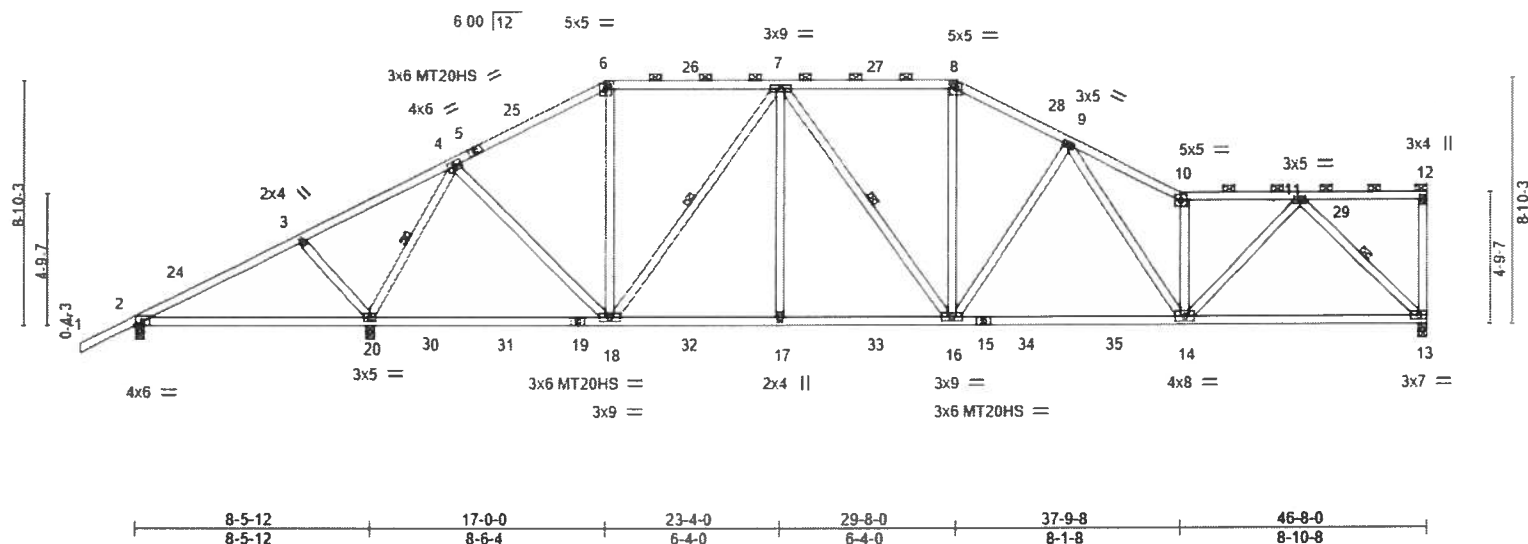
SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc Tue Oct 22 16 24 45 2019 Page 1

ID pGnjKou79Kr3a2o3KmmjuxyRCJn-S8POe1SCVBFWFuAEZtqOG2O6scM1DfO2D7yr4SyQp1W

2-0-0	6-0-5	11-6-3	17-0-0	23-4-0	29-8-0	33-8-12	37-9-8	42-1-0	46-8-0
2-0-0	6-0-5	5-5-13	5-5-13	6-4-0	6-4-0	4-0-12	4-0-12	4-3-8	4-7-0

Scale = 1/83 4



LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.51	in (loc) l/defl L/d	MT20 244/190	
TCDL 10.0	Lumber DOL 1.25	BC 0.79	Vert(LL) -0.22 14-16 >999 360	MT20HS 187/143	
BCLL 0.0	Rep Stress Incr YES	WB 0.59	Vert(CT) -0.39 14-16 >999 240		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Horz(CT) 0.07 13 n/a n/a		
			Wind(LL) 0.16 20-23 >627 240		
				Weight: 292 lb	FT = 15%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-10-11 max) 6-8, 10-12.
BOT CHORD 2x4 SP No 2	BOT CHORD Rigid ceiling directly applied
WEBS 2x4 SP No 2	WEBS 1 Row at midpt 4-20, 7-18, 7-16, 11-13

REACTIONS. (lb/size)	13=1436/0-3-8, 2=90/0-3-8, 20=2316/0-3-8
Max Horz	2=172(LC 12)
Max Uplift	13=-86(LC 12), 2=-150(LC 24), 20=-255(LC 12)
Max Grav	13=1436(LC 1), 2=168(LC 21), 20=2327(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown	
TOP CHORD	2-3=-114/723, 3-4=-129/921, 4-6=-1137/200, 6-7=-964/213, 7-8=-1602/296 8-9=-1823/295, 9-10=-2512/310, 10-11=-2169/234
BOT CHORD	2-20=-628/3, 18-20=-59/274, 17-18=-157/1486, 16-17=-157/1486, 14-16=-227/1871, 13-14=-171/1251
WEBS	3-20=-353/176, 4-20=-2142/307, 4-18=-53/1058, 7-18=-927/136, 7-17=0/291, 8-16=-9/542, 9-16=-562/133, 9-14=-35/630, 10-14=-1291/205, 11-14=-95/1353 11-13=-1749/251

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 Opstf BCDL=6 Opstf h=25ft, B=45ft, L=24ft, eave=6ft. Cat II, Exp B; Encl., GCpi=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0 Interior(1) 1-0-0 to 17-0-0, Exterior(2) 17-0-0 to 20-0-0, Interior(1) 20-0-0 to 29-8-0, Exterior(2) 29-8-0 to 32-8-0, Interior(1) 32-8-0 to 46-6-4 zone. porch left exposed, C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20 Opstf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. with BCDL = 10 Opstf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=150, 20=255.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
MiTek USA, Inc. FL Cert 8634
6904 Parke East Blvd. Tampa FL 33610
Date:

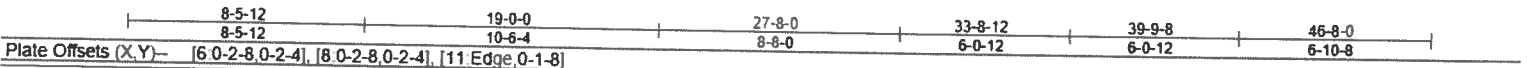
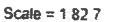
October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MH-1473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 33610



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No 2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-10-10 max.): 6-8, 10-11.
BOT CHORD	2x4 SP No 2	BOT CHORD	
WEBS	2x4 SP No 2	WEBS	Rigid ceiling directly applied.
REACTIONS.	(lb/size) 12=1447/0-3-8 2=140/0-3-8 15=2254/0-3-8		1 Row at midpt 5-19, 7-17, 9-16, 10-12

NOTES-

- October 23, 2019

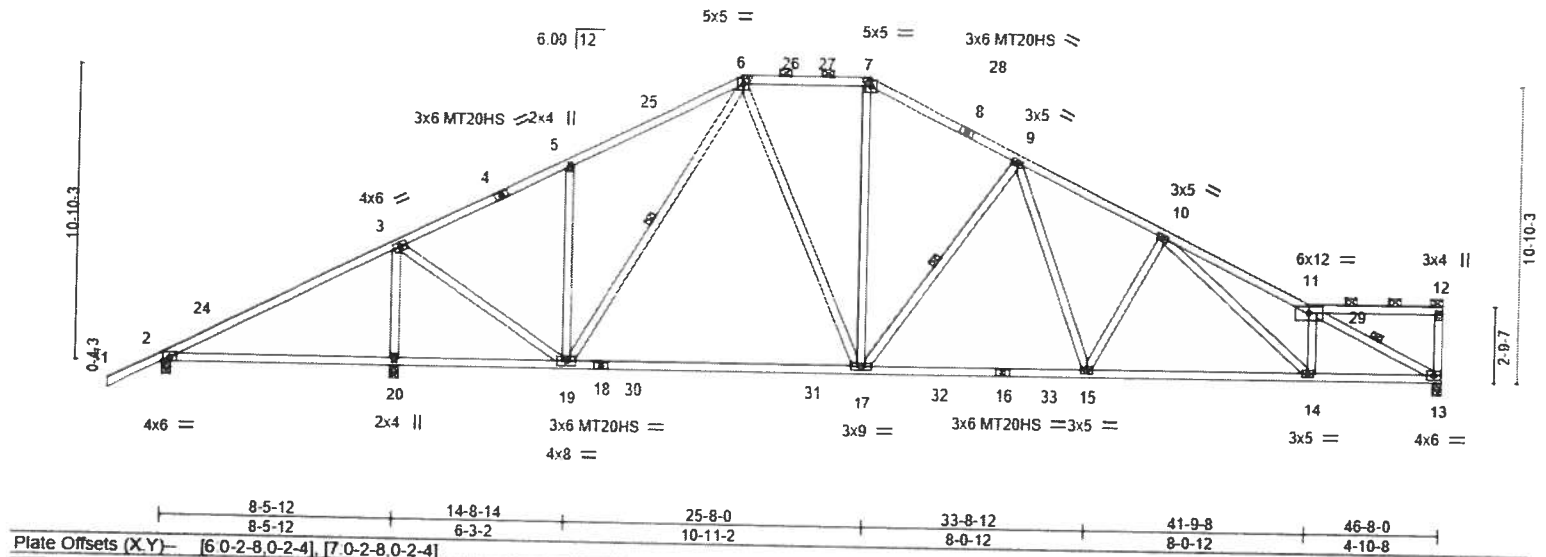
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MSAPP	A8	Roof Special	1	1	T18452787
SANTA FE TRUSS COMPANY INC. BELL FL					

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16:24:47 2019 Page 1
ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-PXX83jUS1pVEUBKdhissLSTOtP0ehYfLgRRy9LyQp1U

Scale = 1/8" = 1' - 0"



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.91	Vert(LL) -0.48 17-19 >953 360	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Vert(CT) -0.81 17-19 >564 240		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Horz(CT) 0.07 13 n/a n/a		
			Wind(LL) 0.20 20-23 >500 240		
				Weight: 284 lb	FT = 15%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No 2 *Except*	2-0-0 oc purlins (5-0-15 max): 6-7, 11-12.
16-18' 2x4 SP No 1	Rigid ceiling directly applied
WEBS 2x4 SP No 2	1 Row at midpt 6-19, 9-17, 11-13

REACTIONS.	(lb/size) 13=1448/0-3-8, 2=143/0-3-8, 20=2250/0-3-8
	Max Horz 2=172(LC 11)
	Max Uplift 13=84(LC 12), 2=133(LC 12), 20=241(LC 12)
	Max Grav 13=1448(LC 1), 2=246(LC 21), 20=2250(LC 1)

FORCES.	(lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-100/765, 3-5=-1030/163, 5-6=-1026/265, 6-7=-1311/297, 7-9=-1518/292
	9-10=-2196/311, 10-11=-2801/335
BOT CHORD	2-20=-629/63, 19-20=-629/63, 17-19=-48/1102, 15-17=-133/1686, 14-15=-211/2087
	13-14=-242/2436
WEBS	3-20=-2109/307, 3-19=-84/1717, 5-19=-355/162, 6-19=-543/36, 6-17=-27/645
	7-17=-24/412, 9-17=-733/168, 9-15=-35/629, 10-15=-465/144, 10-14=-53/542,
	11-13=-2696/259

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft B=45ft, L=24ft, eave=6ft, Cat. II. Exp B, Encl., GCpi=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 21-0-0, Exterior(2) 21-0-0 to 24-0-0, Interior(1) 24-0-0 to 25-8-0, Exterior(2) 25-8-0 to 28-8-0, Interior(1) 28-8-0 to 46-6-4 zone, porch left exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding
 - 4) All plates are MT20 plates unless otherwise indicated
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=133, 20=241.
 - 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.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
MiTek USA, Inc. FL Cert 8634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE M11-7473 rev. 10/03/2015 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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street, Suite 312 Alexandria, VA 22314



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
LMSAPP	A9	Hip	1	1	T18452788

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 48 2019 Page 1

ID pGnjKcu79Kr3a2o3KmmjuxyRCJn-tj5WG3V4n6d56LupE0O5ug0Y1pNXQzDVv5AVhnyQp1T

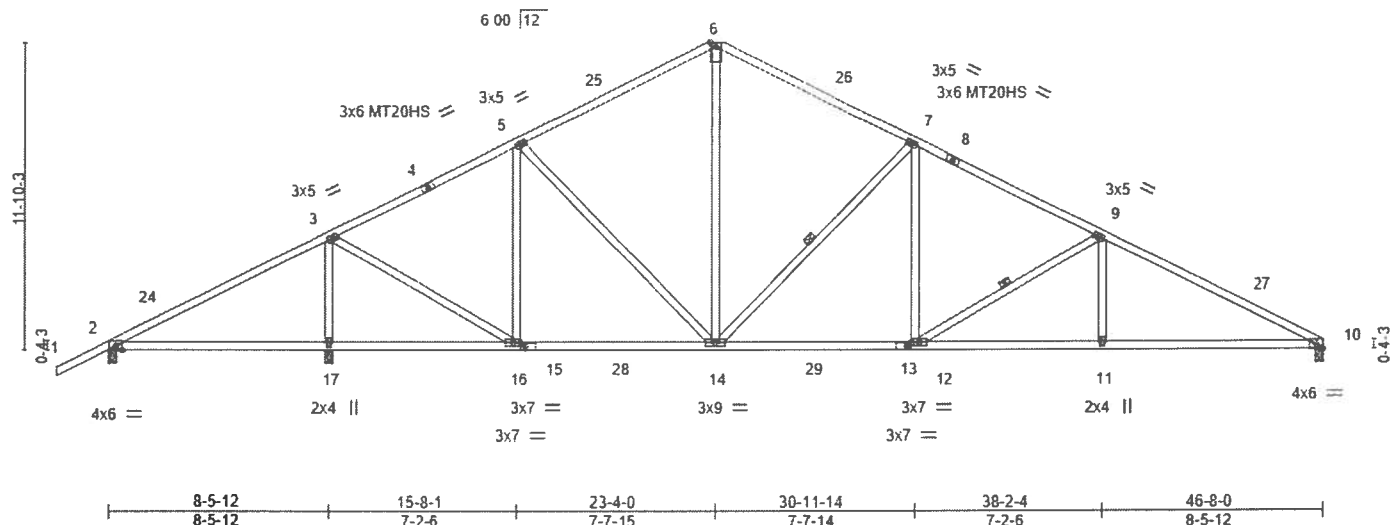
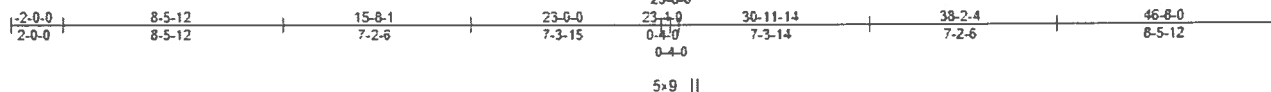


Plate Offsets (X,Y) [13 0-2-3, 0-1-8], [15 0-2-3, 0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.83	Vert(LL)	-0.17	12-14	>999	360	MT20 244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.36	11-23	>999	240	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.07	10	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS	Wind(LL)	0.21	17-20	>494	240	
									Weight: 258 lb FT = 15%

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.
WEBS 1 Row at midpt 7-14, 9-12

REACTIONS.

(lb/size) 2=146/0-3-8, 17=2252/0-3-8, 10=1455/0-3-8
Max Horz 2=206(LC 11)
Max Uplift 2=-161(LC 12), 17=-208(LC 12), 10=-89(LC 12)
Max Grav 2=263(LC 21), 17=2252(LC 1), 10=1455(LC 1)

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

TOP CHORD 2-3=-24/746, 3-5=-1096/214, 5-6=-1301/304, 6-7=-1301/307, 7-9=-1991/305, 9-10=-2666/311
BOT CHORD 2-17=-615/77, 16-17=-615/77, 14-16=0/967, 12-14=-57/1690, 11-12=-177/2323, 10-11=-177/2323
WEBS 3-17=-2050/274, 3-16=-47/1670, 5-16=-711/142, 5-14=0/377, 6-14=-67/677, 7-14=-929/174, 7-12=0/580, 9-12=-736/145, 9-11=0/332

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind, ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=6ft, Cat II, Exp B, Encl, GCpi=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 23-4-0, Exterior(2) 23-4-0 to 27-6-15, Interior(1) 27-6-15 to 46-8-0 zone, porch left exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10 psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=161, 17=208
- 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

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-T473 rev. 10/03/2015 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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T18452789
MSAPP	A10	Common	1	1	

SANTA FE TRUSS COMPANY INC.

BELL FL

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 18 2019 Page 1

ID pGnjKau79Kr3a2o3KmmjuxyRCJn-lyHAzo7GsurfMVkc2Uir3gLnPqj6TOM34?QvwdWyQp1x

Job Reference (optional)

2-0-0	8-5-14	15-8-1	23-4-0	30-11-15	38-2-2	46-8-0
2-0-0	8-5-14	7-2-3	7-7-15	7-7-15	7-2-3	8-5-14

Scale = 1/88.5

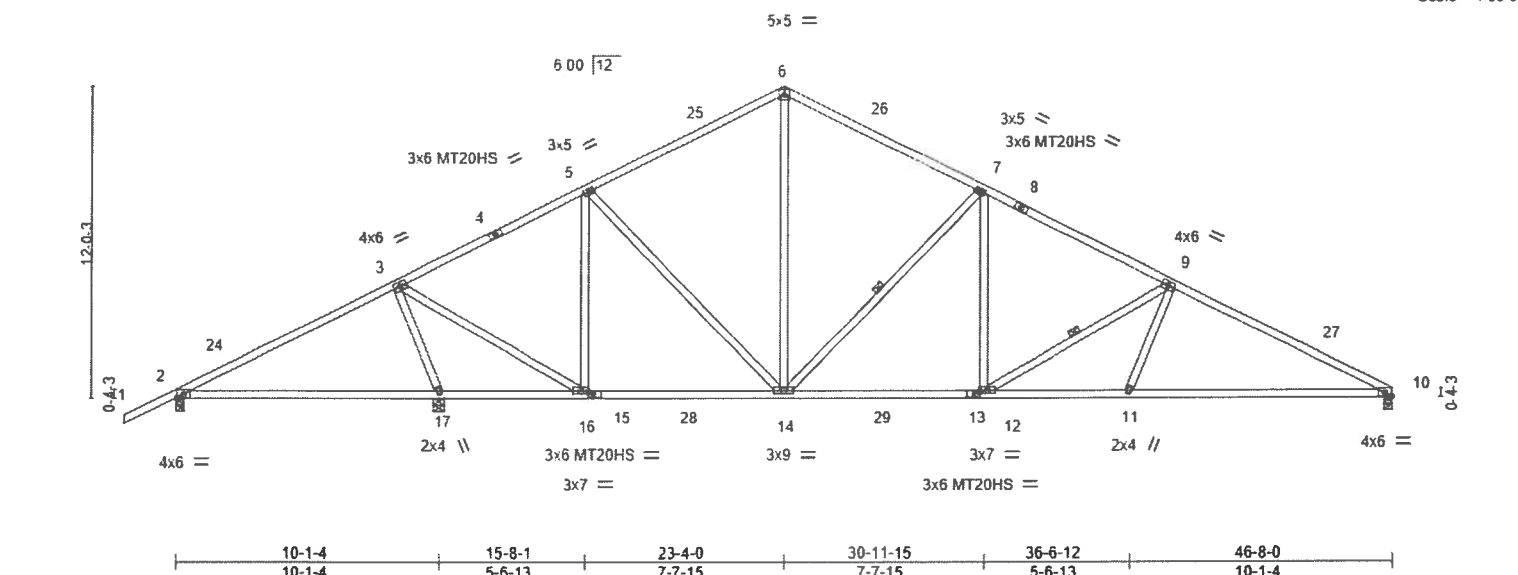


Plate Offsets (X,Y)–		[13.0-2-3,0-1-8]		[15.0-2-3,0-1-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	-0.26 11-23	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 1.00	Vert(CT)	-0.60 11-23	>732	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.07 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS	Wind(LL)	0.34 17-20	>358	240		
								Weight 259 lb	FT = 15%

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.
WEBS 1 Row at midpt 7-14, 9-12

REACTIONS. (lb/size) 2=334/0-3-8, 17=2116/0-4-15, 10=1403/0-3-8
Max Horz 2=208(LC 11)
Max Uplift 2=-180(LC 12), 17=-228(LC 12), 10=-84(LC 12)
Max Grav 2=421(LC 21), 17=2116(LC 1), 10=1403(LC 1)

FORCES. (lb) - Max Comp /Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-65/378, 3-5=-877/172, 5-6=-1185/273, 6-7=-1186/277, 7-9=-1874/278
9-10=-2517/295
BOT CHORD 2-17=-309/23, 16-17=-1025/121, 14-16=0/771, 12-14=-32/1584, 11-12=-129/2275
10-11=-162/2195
WEBS 6-14=-55/601, 7-14=-935/172, 7-12=0/576, 9-12=-801/116, 9-11=0/375, 5-14=0/480
5-16=-871/154, 3-16=-60/1938, 3-17=-2058/263

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=5.0psf, h=25ft, B=45ft, L=24ft, eave=6ft, Cat II, Exp B, Encl., GCPI=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 23-4-0, Exterior(2) 23-4-0 to 26-4-0. Interior(1) 26-4-0 to 46-8-0 zone porch left exposed, C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0 psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=180, 17=228.
 - 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.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MH-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

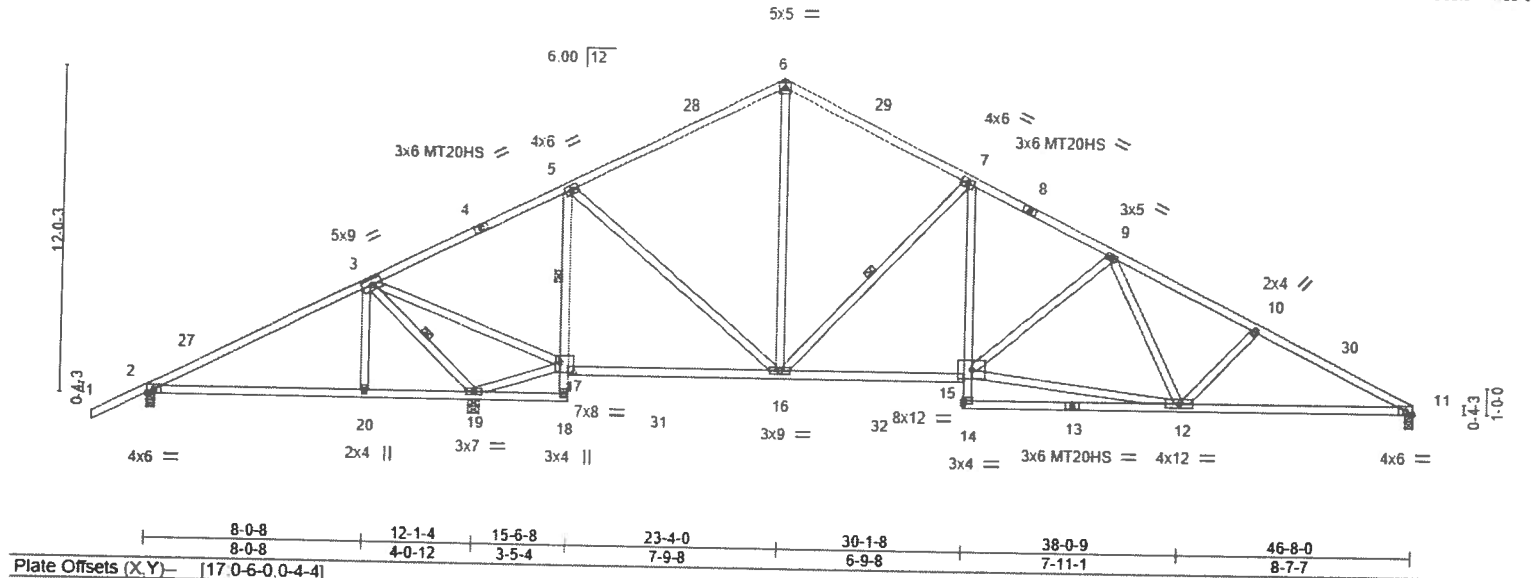


6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MSAPP	A11	Roof Special	1	1	T18452790
SANTA FE TRUSS COMPANY INC. BELL FL					

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 19 2019 Page 1
 ID pGnjKou79Kr3a2o3KmmjuxyRCJn-D8qZA88udC_D7uBE2QMIDZJdE7U27woEE4eTAyyQp1w
 30-1-8 35-5-8 40-9-8 46-8-0
 6-9-8 5-4-0 5-4-0 5-10-8

Scale = 1.85 0



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	V/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.65	Vert(LL)	-0.13	15-16	>999	360	MT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.79	Vert(CT)	-0.28	12-14	>999	240	MT20HS 187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT)	0.08	11	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Wind(LL)	0.15	20-23	>949	240	
								Weight 284 lb FT = 15%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No 2	BOT CHORD Rigid ceiling directly applied Except
WEBS 2x4 SP No 2	1 Row at midpt 5-17
	1 Row at midpt 3-19, 7-16

REACTIONS.	(lb/size) 2=266/0-3-8, 19=2326/0-4-15, 11=1261/0-3-8
	Max Horz 2=208(LC 11)
	Max Uplift 2=189(LC 12), 19=269(LC 12), 11=73(LC 12)
	Max Grav 2=391(LC 21), 19=2326(LC 1), 11=1261(LC 1)

FORCES.	(lb) - Max Comp /Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD	2-3=-62/507, 3-5=-262/65, 5-6=-944/220, 6-7=-925/225, 7-9=-1653/239, 9-10=-2125/254, 10-11=-2353/267
BOT CHORD	2-20=-457/0, 19-20=-458/0, 5-17=-1324/224, 15-16=0/1436, 7-15=-11/733, 11-12=-165/2070
WEBS	3-20=-179/284, 3-19=-2222/473, 17-19=-1885/321, 3-17=-128/2048, 5-16=-25/834, 6-16=-18/410, 7-16=-1034/172, 12-15=-77/1649, 9-15=-434/121, 9-12=0/313, 10-12=-349/145

- NOTES-**
- Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 Opsf BCDL=6 Opsf h=25ft, B=45ft, L=24ft, eave=6ft Cal II, Exp B, Encl., GCpl=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0 Interior(1) 1-0-0 to 23-4-0 Exterior(2) 23-4-0 to 26-4-0, Interior(1) 26-4-0 to 46-8-0 zone, porch left exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20 Opsf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10 Opsf
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (It=lb) 2=189, 19=269.
 - 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.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 23, 2019

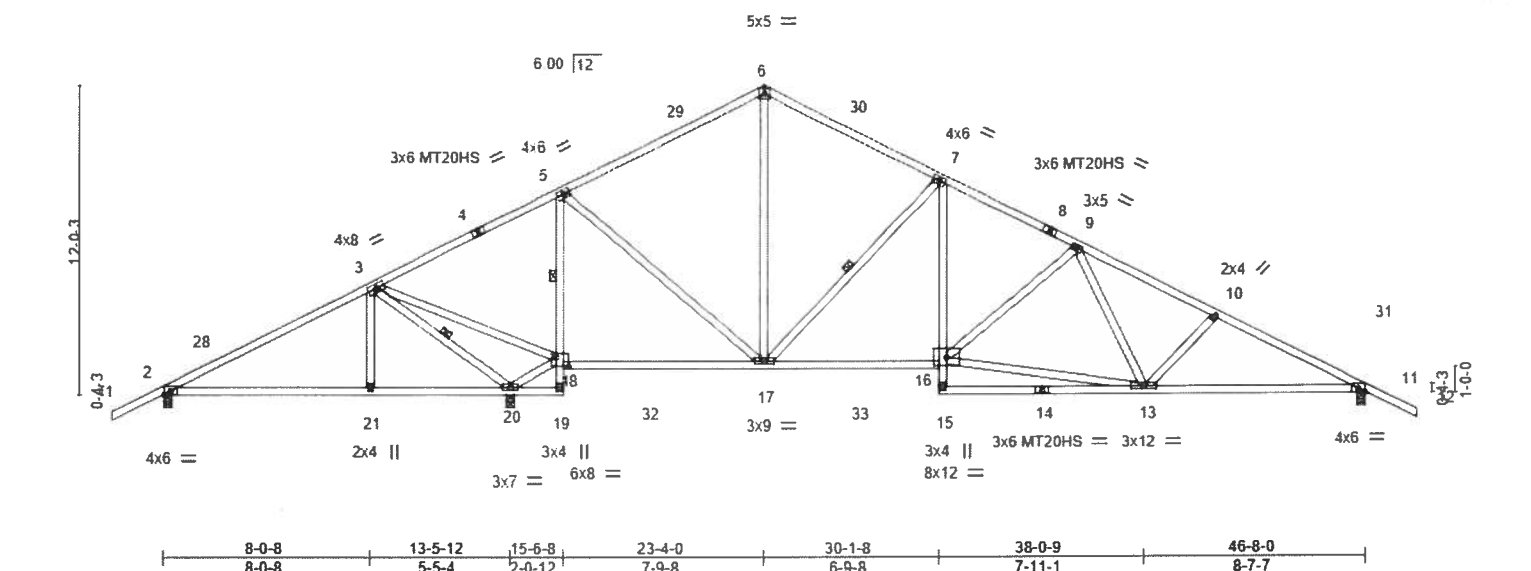
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T18452791
MSAPP	A12	Roof Special	3	1	

SANTA FE TRUSS COMPANY INC. BELL FL 8 240 s Jul 14 2019 MiTek Industries, Inc Tue Oct 22 16 24 20 2019 Page 1
 ID pGnjKau79Kr3a2o3KmmjuxyRCJn-hKOxOU9WNW63l2mRb7lXlmsoAXrosNCNTk00lPyQp1v
 2-0-0 8-0-8 15-6-8 23-4-0 30-1-8 35-5-8 40-9-8 46-8-0 48-8-0
 2-0-0 8-0-8 7-6-0 7-9-8 6-9-8 5-4-0 5-4-0 5-10-8 2-0-0
 Scale = 1:89.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.76	Vert(LL) -0.12 16-17 >999 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.46	Vert(CT) -0.26 13-15 >999 240		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Horz(CT) 0.07 11 n/a n/a		
			Wind(LL) 0.15 21-24 >999 240	Weight 287 lb	FT = 15%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied
BOT CHORD 2x4 SP No 2	BOT CHORD Rigid ceiling directly applied. Except
WEBS 2x4 SP No 2	1 Row at midpt 5-18
	WEBS 1 Row at midpt 3-20, 7-17

REACTIONS. (lb/size) 2=295/0-3-8, 20=2379/0-3-8, 11=1300/0-3-8
 Max Horz 2=-209(LC 10)
 Max Uplift 2=-212(LC 12), 20=-273(LC 12), 11=-136(LC 12)
 Max Grav 2=420(LC 21), 20=2379(LC 1), 11=1300(LC 1)

FORCES. (lb) - Max Comp/Max Ten - All forces 250 (lb) or less except when shown
 TOP CHORD 2-3=-122/474, 3-5=-31/448, 5-6=-744/193, 6-7=-715/200, 7-9=-1428/200
 9-10=-1908/193, 10-11=-2145/201
 BOT CHORD 2-21=-427/31, 20-21=-429/23, 5-18=-1620/260, 17-18=-320/240, 16-17=0/1232
 7-16=0/711, 11-13=-93/1865
 WEBS 3-21=-182/303, 3-20=-1910/386, 18-20=-2003/328, 3-18=-13/1564, 5-17=-61/1122,
 6-17=-7/270, 7-17=-1013/165, 13-16=-20/1457, 9-16=-440/114, 9-13=0/329
 10-13=-330/127

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind ASCE 7-10; Vu1=130mph (3-second gust) Vasd=101mph; TCDL=6 0psf; BCDL=6 0psf h=25ft, B=45ft L=24ft; eave=6ft; Cat II, Exp B; Encl., GCPI=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0 Interior(1) 1-0-0 to 23-4-0 Exterior(2) 23-4-0 to 26-4-0, Interior(1) 26-4-0 to 48-8-0 zone, porch left exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
 - 3) All plates are MT20 plates unless otherwise indicated
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - 5) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jl=lb) 2=212, 20=273, 11=136
 - 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

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
 MiTek USA, Inc. FL Cert 6834
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 23, 2019

Job	Truss	Truss Type	Qty	Ply	
MSAPP	A13	Roof Special	1	1	T18452792
Job Reference (optional)					

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 22 2019 Page 1

ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-djWhpAAmv7Mn_MvpjYw?qbX8gKXGKHlgw2t7mHyQp11

2-0-0	8-0-8	15-6-8	23-4-0	30-1-8	35-5-8	40-9-8	46-8-0	48-8-0
2-0-0	8-0-8	7-6-0	7-9-8	6-9-8	5-4-0	5-4-0	5-10-8	2-0-0

Scale = 1/4" = 0'

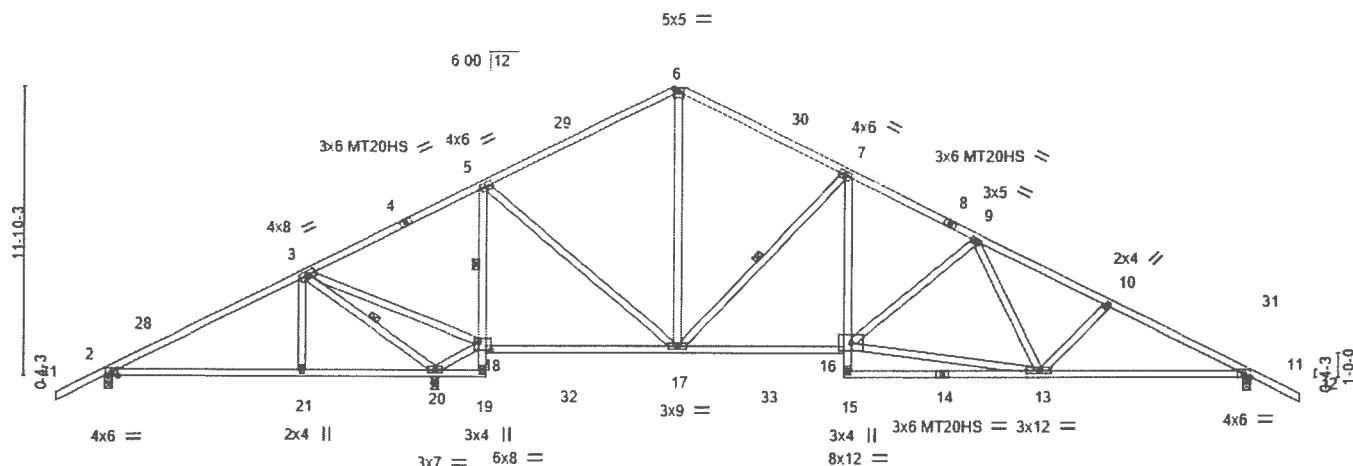


Plate Offsets (X,Y)	18-0-6-0, 0-4-4
---------------------	-----------------

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL)	-0.12 16-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.76	Vert(CT)	-0.26 13-15	>999	240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.45	Horz(CT)	0.07 11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Wind(LL)	0.15 21-24	>999	240		
							Weight: 287 lb	FT = 15%

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. Except:
1 Row at midpt 5-18
WEBS 1 Row at midpt 3-20, 7-17

REACTIONS. (lb/size) 2=296/0-3-8, 20=2378/0-3-8, 11=1300/0-3-8
Max Horz 2=-208(LC 10)
Max Uplift 2=-212(LC 12), 20=-272(LC 12), 11=-136(LC 12)
Max Grav 2=421(LC 21), 20=2378(LC 1), 11=1300(LC 1)

FORCES. (lb) - Max Comp/Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-123/472, 3-5=-29/446, 5-6=-745/203, 6-7=-716/208, 7-9=-1430/210,
9-10=-1909/203, 10-11=-2145/211
BOT CHORD 2-21=-425/32, 20-21=-428/24, 5-18=-1619/269, 17-18=-318/238, 16-17=0/1232,
7-16=0/711, 11-13=-102/1866
WEBS 3-21=-182/303, 3-20=-1910/398, 18-20=-2001/340, 3-18=-19/1563, 5-17=-74/1127,
6-17=-4/264, 7-17=-1007/175, 13-16=-27/1457, 9-16=-440/113, 9-13=0/329,
10-13=-330/127

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design
 - 2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf, BCDL=6 0psf, h=25ft, B=45ft, L=24ft, eave=6ft, Cal II, Exp B; Encl., GCpi=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 23-4-0, Exterior(2) 23-4-0 to 27-6-15, Interior(1) 27-6-15 to 48-8-0 zone; porch left exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=212, 20=272, 11=136
 - 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.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
MiTek USA, Inc. FL Cert 6834
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MH-7473 rev. 10/03/2015 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 ANSITPM Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street, Suite 312, Alexandria, VA 22314

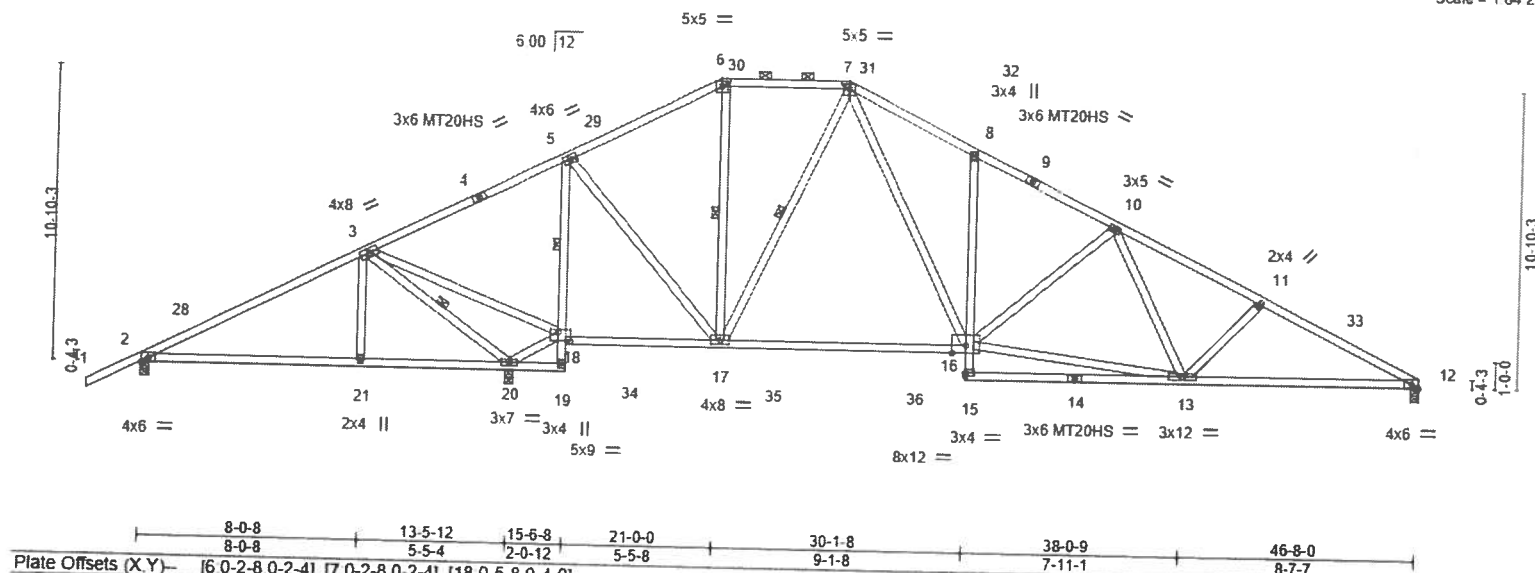


6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MSAPP	A14	Hip	1	1	T18452793
SANTA FE TRUSS COMPANY INC. BELL FL					

8 240 s Jul 14 2019 MiTek Industries, Inc Tue Oct 22 16 24 2019 Page 1
 ID pGnjKeu79Kr3a2b3KmmjuxyRCJn-a6eSEsC1RkcVDF3CqzyTwc0Tz8BL0CVzOMMERAyQp1r
 -2-0-0 8-0-8 15-6-8 21-0-0 25-8-0 30-1-8 35-5-8 40-9-8 46-8-0
 2-0-0 8-0-8 7-6-0 5-5-8 4-8-0 4-5-8 5-4-0 5-4-0 5-10-8

Scale = 1/84 2



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	Vert(LL)	-0.28 16-17	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.84	Vert(CT)	-0.51 16-17	>773	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.25	WB 0.44	Horz(CT)	0.07 12	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.15 21-24	>999	240		
	Code FBC2017/TPI2014						Weight 295 lb	FT = 15%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.). 6-7
 BOT CHORD Rigid ceiling directly applied. Except.
 1 Row at midpt 5-18
 WEBS 1 Row at midpt 3-20, 6-17, 7-17

REACTIONS. (lb/size) 2=302/0-3-8, 20=2373/0-3-8, 12=1179/0-3-8
 Max Horz 2=189(LC 11)
 Max Uplift 2=197(LC 12), 20=297(LC 12), 12=64(LC 12)
 Max Grav 2=416(LC 21) 20=2373(LC 1) 12=1179(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-117/447, 3-5=-56/443, 5-6=-636/178, 6-7=-497/192, 7-8=-1481/324,
 8-10=-1459/228, 10-11=-1944/246, 11-12=-2171/259
 BOT CHORD 2-21=-406/28, 20-21=-409/20, 5-18=-1651/294, 17-18=-325/234, 16-17=0/772,
 8-16=-302/162, 12-13=-157/1907
 WEBS 3-21=-181/303, 3-20=-1902/483, 18-20=-2005/363, 3-18=-102/1521, 5-17=-112/1174,
 7-17=-724/160, 7-16=-170/1129, 13-16=-54/1596, 10-16=-480/130, 10-13=-0/346,
 11-13=-343/143

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=6ft, Cat II. Exp B: Encl., GCp=0.18. MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 21-0-0, Exterior(2) 21-0-0 to 25-2-15, Interior(1) 25-2-15 to 25-8-0, Exterior(2) 25-8-0 to 29-10-15, Interior(1) 29-10-15 to 46-8-0 zone: porch left exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 6) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=197, 20=297.
- 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

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
 MiTek USA, Inc. FL Cert 6834
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 ANS/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314

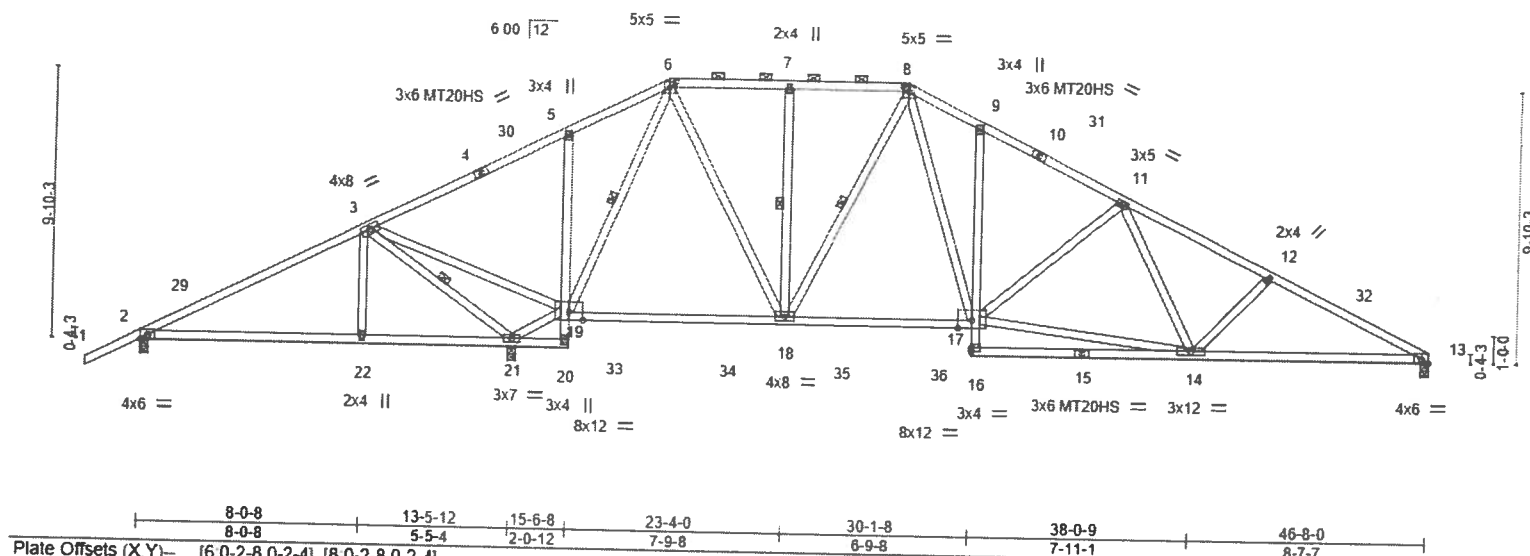


6904 Parke East Blvd
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
LMSAPP	A15	Hip	1	1	T18452794
SANTA FE TRUSS COMPANY INC.		BELL FL	Job Reference (optional)		

2-0-0	8-0-8	15-6-8	19-0-0	23-4-0	27-8-0	30-1-8	35-5-8	40-9-8	46-8-0
2-0-0	8-0-8	7-6-0	3-5-8	4-4-0	4-4-0	2-5-8	5-4-0	5-4-0	5-10-8

Scale = 1/8" = 1'-0"



LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.14 18-19	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.26 14-28	MT20HS	187/143		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07 13				
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS		Wind(LL)	0.15 22-25				
								Weight 303 lb		FT = 15%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No 2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x4 SP No 2	BOT CHORD	2-0-0 oc purlins (6-0-0 max.) 6-8.
WEBS	2x4 SP No 2	WEBS	Rigid ceiling directly applied
REACTIONS.			
(lb/size) 2=299/0-3-8, 21=2376/0-3-8, 13=1178/0-3-8		1 Row at midpt	
Max Horz 2=172(LC 11)		3-21, 6-19, 7-18, 8-18	
Max Uplift 2=-191(LC 12), 21=-305(LC 12), 13=-62(LC 12)			
Max Grav 2=401(LC 21), 21=2376(LC 1), 13=1179(LC 22)			

FORCES. (lb) - Max Comp./Max Ten. - All forces 250 (lb) or less except when shown	
TOP CHORD	2-3=-84/457, 3-5=-67/429, 5-6=0/383, 6-7=-765/201, 7-8=-765/201, 8-9=-1433/316
BOT CHORD	9-11=-1445/239, 11-12=-1944/242, 12-13=-2170/254
WEBS	2-22=-405/0, 21-22=-407/0, 5-19=-321/172, 18-19=0/326, 17-18=0/937, 13-14=-162/1907
	3-22=-180/300, 3-21=-2111/518, 19-21=-2027/423, 3-19=-135/1752, 6-19=-1382/194
	6-18=-133/1077, 7-18=-291/117, 8-18=-516/111, 8-17=-170/933, 14-17=-97/1487
	11-17=-489/131, 11-14=0/359, 12-14=-341/142

- NOTES-**
- Unbalanced roof live loads have been considered for this design
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 opsf, BCDL=6 opsf h=25ft, B=45ft, L=24ft, eave=6ft Cat II, Exp B: Encl, GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0 Interior(1) 1-0-0 to 19-0-0 Exterior(2) 19-0-0 to 23-4-0, Interior(1) 23-4-0 to 27-8-0, Exterior(2) 27-8-0 to 31-10-15, Interior(1) 31-10-15 to 46-8-0 zone, porch left exposed C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20 opsf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 10 opsf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (if=lb) 2=191, 21=305.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
MiTek USA, Inc. FL Cert 8834
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIT-7473 rev. 10/01/2015 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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street, Suite 312 Alexandria VA 22314



6904 Parke East Blvd
Tampa FL 36610

Job	Truss	Truss Type	Qty	Ply	
MSAPP	A16	Hip	1	1	T18452795
SANTA FE TRUSS COMPANY INC. BELL FL					

8 240 s Jul 14 2019 MiTek Industries, Inc Tue Oct 22 16 24 28 2019 Page 1
ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-Stty3DFXVz6xiHNz3p1P4SB9jlaVhYI_KR_xyQp1n



Scale = 1/84.7

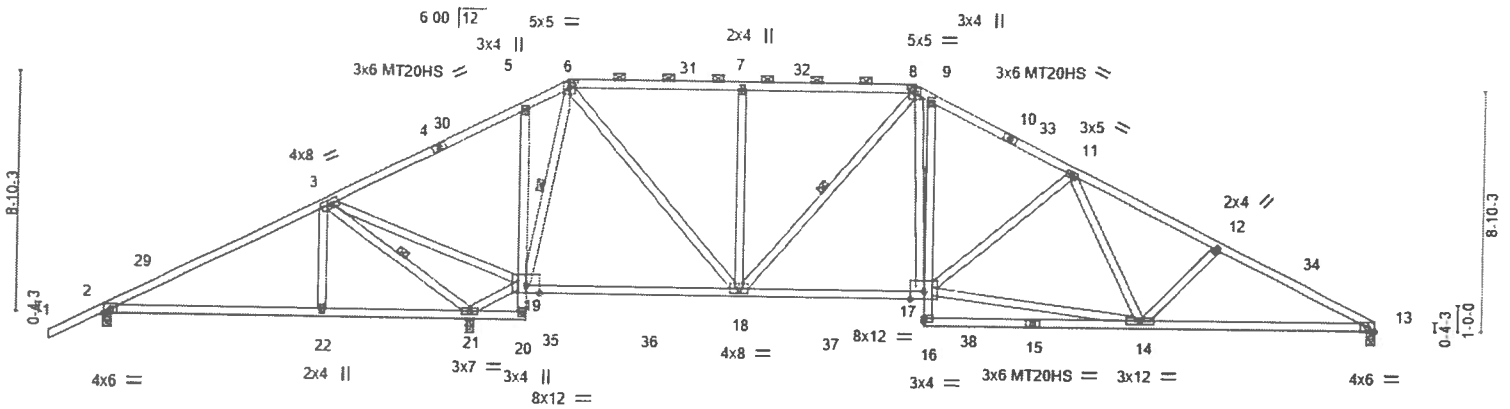


Plate Offsets (X,Y)	8-0-8	13-5-12	15-6-8	23-4-0	30-1-8	38-0-9	46-8-0
	8-0-8	5-5-4	2-0-12	7-9-8	6-9-8	7-11-1	8-7-7

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.77	Vert(LL) -0.13 18-19 >999 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.49	Vert(CT) -0.26 14-28 >999 240		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Horz(CT) 0.07 13 n/a n/a		
			Wind(LL) 0.15 22-25 >999 240	Weight 298 lb	FT = 15%

LUMBER	BRACING
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No 2	2-0-0 oc purlins (5-11-7 max.). 6-8.
WEBS 2x4 SP No 2	BOT CHORD Rigid ceiling directly applied
	WEBS 1 Row at midpt 3-21, 6-19, 8-18

REACTIONS. (lb/size) 2=281/0-3-8, 21=2403/0-3-8, 13=1170/0-3-8
Max Horz 2=156(LC 11)
Max Uplift 2=194(LC 12), 21=301(LC 12), 13=63(LC 12)
Max Grav 2=374(LC 21), 21=2403(LC 1), 13=1180(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-24/507, 3-5=-64/469, 5-6=0/396, 6-7=-826/198, 7-8=-826/198, 8-9=-1318/303,
9-11=-1413/251, 11-12=-1948/253, 12-13=-2174/260
BOT CHORD 2-22=-430/0, 21-22=-432/0, 5-19=-261/163, 17-18=0/1142, 13-14=-173/1910
WEBS 3-22=-179/300, 3-21=-2119/530, 19-21=-2072/422, 3-19=-143/1735, 6-19=-1388/222,
6-18=-180/1299, 7-18=-421/159, 8-18=-530/100, 8-17=-146/741, 14-17=-114/1471,
11-17=-494/139, 11-14=0/360, 12-14=-340/142

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=6 Opsf, BCDL=6 Opsf, h=25ft, B=45ft, L=24ft, eave=6ft, Cat. II, Exp B, Encl. GCpr=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-0-0, Exterior(2) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 29-8-0, Exterior(2) 29-8-0 to 33-10-15, Interior(1) 33-10-15 to 46-8-0 zone; porch left exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding
 - All plates are MT20 plates unless otherwise indicated
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20 Opsf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10 Opsf
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=194, 21=301
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
MiTek USA, Inc. FL Cert 6834
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MH-7473 rev. 10/03/2015 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 ANSITPM1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T18452796
MSAPP	A17	Hip	1	1	

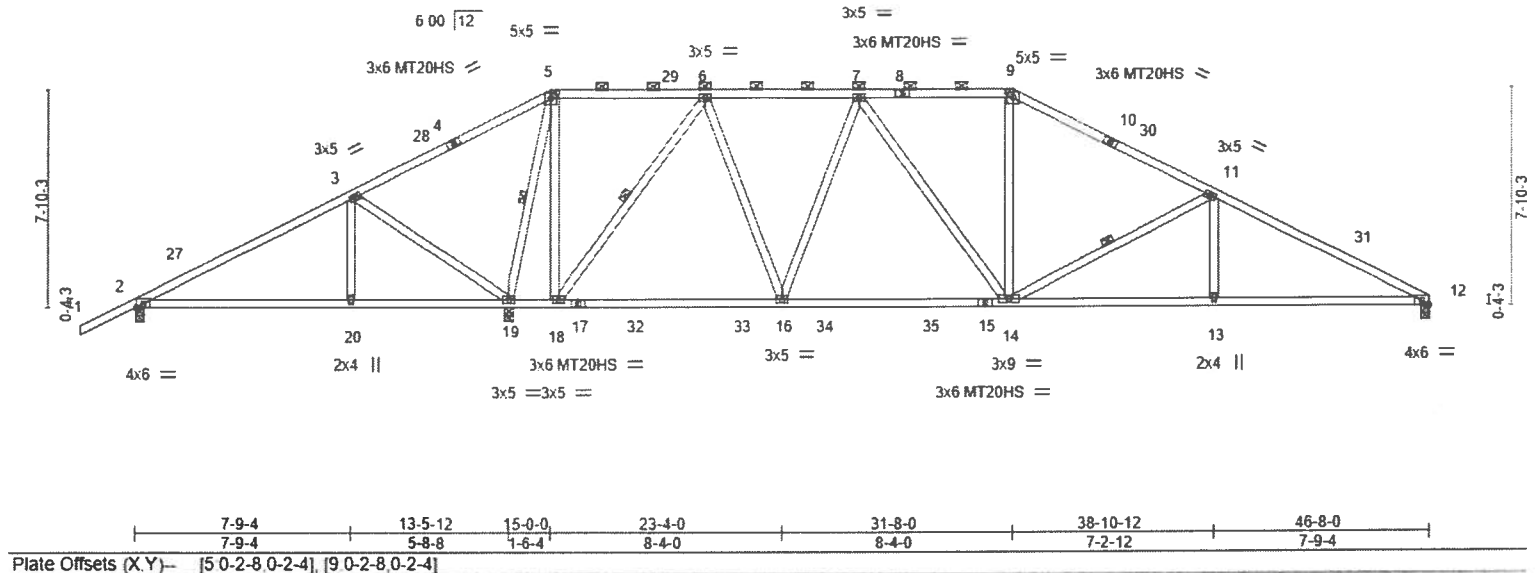
SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 29 2019 Page 1

Job Reference (optional)

2-0-0 7-9-4 15-0-0 20-6-11 26-1-5 31-8-0 38-10-12 46-8-0
2-0-0 7-9-4 7-2-12 5-6-11 5-6-11 5-6-11 7-2-12 7-9-4

Scale = 1/8" = 1'-0"



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.74	Vert(LL) -0.16 14-16 >999 360	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.25	WB 0.74	Vert(CT) -0.30 14-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.05 12 n/a n/a		
	Code FBC2017/TPI2014		Wind(LL) 0.12 20-23 >999 240	Weight: 263 lb	FT = 15%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No 2	2-0-0 oc purlins (5-1-6 max.) 5-9
WEBS 2x4 SP No 2	BOT CHORD Rigid ceiling directly applied
	WEBS 1 Row at midpt 5-19, 6-18, 11-14

REACTIONS. (lb/size) 2=286/0-3-8, 19=2395/0-3-8, 12=1172/0-3-8
Max Horz 2=139(LC 11)
Max Uplift 2=-186(LC 12), 19=-312(LC 12), 12=-60(LC 12)
Max Grav 2=362(LC 21), 19=2395(LC 1), 12=1190(LC 22)

FORCES. (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-24/473, 3-5=-132/934, 5-6=0/346, 6-7=-863/168, 7-9=-1218/259, 9-11=-1444/233,
11-12=-2134/253
BOT CHORD 2-20=-385/0, 19-20=-385/0, 18-19=-369/243, 16-18=0/548, 14-16=0/1020,
13-14=-152/1857, 12-13=-152/1857
WEBS 3-20=-171/301, 3-19=-683/434, 5-19=-1977/255, 5-18=-68/1314, 6-18=-1390/232,
6-16=-59/898, 7-16=-647/166, 7-14=-58/334, 9-14=0/326 11-14=-753/165 11-13=0/315

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft B=45ft, L=24ft, eave=6ft, Cat II, Exp B, Encl GCPI=0.18 MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 31-8-0, Exterior(2) 31-8-0 to 35-10-15, Interior(1) 35-10-15 to 46-8-0 zone: porch left exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding
- All plates are MT20 plates unless otherwise indicated
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=186, 19=312
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
LMSAPP	A18	Hip	1	1	T18452797
SANTA FE TRUSS COMPANY INC. BELL FL					

2-0-0	6-9-4	13-0-0	19-11-4	26-8-12	33-8-0	39-10-12	46-8-0
2-0-0	6-9-4	6-2-12	6-11-4	6-9-8	6-11-4	6-2-12	6-9-4

Scale = 1/8" = 1'-0"

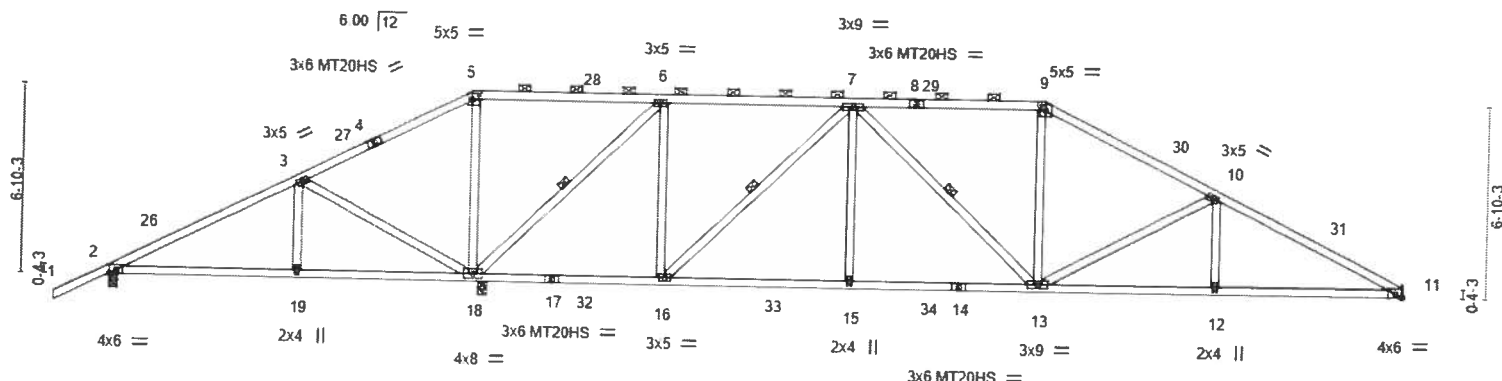


Plate Offsets (X,Y) -		6-9-4	13-0-0	13-4-0	19-11-4	26-8-12	33-8-0	39-10-12	46-8-0
		6-9-4	6-2-12	0-4-0	6-7-4	6-9-8	6-11-4	6-2-12	6-9-4
		[5 0-3-0 0-2-8], [9 0-2-8 0-2-4]							
LOADING (psf)		SPACING		CSI		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.11 13-15 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.22 13-15 >999 240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.06 11 n/a n/a	Weight	255 lb
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS		Wind(LL)	0.06 12-22 >999 240	FT	15%

LUMBER		BRACING	
TOP CHORD	2x4 SP No 2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x4 SP No 2	BOT CHORD	2-0-0 oc purlins (4-5-0 max.), 5-9.
WEBS	2x4 SP No 2	WEBS	Rigid ceiling directly applied
			1 Row at midpt 6-18, 7-16, 7-13

REACTIONS. (lb/size) 11=1148/Mechanical, 2=164/0-3-8, 18=2541/0-3-8
Max Horz 2=123(LC 11)
Max Uplift 11=-60(LC 12), 2=-178(LC 12), 18=-314(LC 12)
Max Grav 11=1167(LC 22), 2=234(LC 21), 18=2541(LC 1)

FORCES. (lb) - Max Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=0/683, 3-5=-170/1123, 5-6=-82/953, 6-7=-480/102, 7-9=-1326/264, 9-10=-1554/244,
10-11=-2135/262
BOT CHORD 2-19=-592/0, 18-19=-592/0, 16-18=0/477, 15-16=0/1204, 13-15=0/1204,
12-13=-169/1863, 11-12=-169/1863
WEBS 3-19=-173/278, 3-18=-626/428, 5-18=-836/225, 6-18=-1891/256, 6-16=-16/950,
7-16=-1043/161, 7-15=0/326, 9-13=0/357, 10-13=-630/145, 10-12=0/272

- NOTES-**
- Unbalanced roof live loads have been considered for this design
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft B=45ft, L=24ft, eave=6ft, Cat. II, Exp B, Encl. GCPI=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 33-8-0, Exterior(2) 33-8-0 to 37-10-15, Interior(1) 37-10-15 to 46-8-0 zone: porch left exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding
 - All plates are MT20 plates unless otherwise indicated
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=178, 18=314
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
MiTek USA, Inc. FL Cert 8834
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/01/2015 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 ANSUTP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



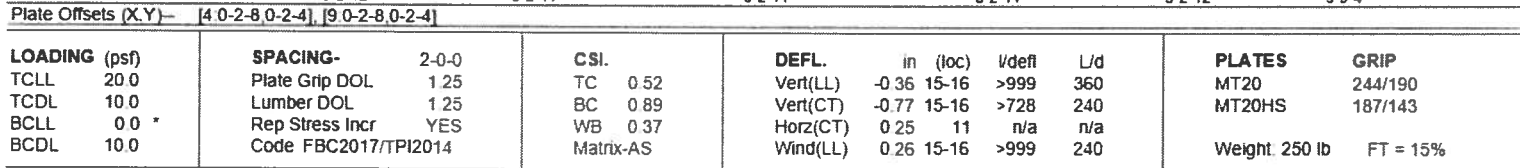
6904 Parke East Blvd
Tampa, FL 33610

SANTA FE TRUSS COMPANY INC. BELL FL 8 240 s Jul 14 2019 MITek Industries, Inc. Tue Oct 22 16:24:33 2019 Page 1

ID pGnjKau79Kr3a2o3KmmjuxyRCJn-prhr6xJgKVkDo2FxsMcanWu2cmFgPloHSF1Cf9yQp1

2-0-0 5-9-4 11-0-0 17-2-0 23-4-0 29-6-0 35-8-0 40-10-12 46-8-0
2-0-0 5-9-4 5-2-12 6-2-0 6-2-0 6-2-0 6-2-0 5-2-12 5-9-4

Scale = 1/81 8



REACTIONS. (lb/size) 11=1864/Mechanical, 2=1969;0-3-8
Max Horz 2=124(LC 11)
Max Uplift 11=-111(LC 12), 2=-178(LC 12)

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

TOP CHORD 2-3=-3680/566, 3-4=-3247/533, 4-5=-2868/520, 5-6=-3792/613, 6-8=-3796/614
8-9=-2879/515, 9-10=-3260/527, 10-11=-3720/569

BOT CHORD 2-19=-461/3229, 18-19=-461/3229, 16-18=-432/3663, 15-16=-466/3929, 13-15=-434/3668,
12-13=-452/3271, 11-12=-452/3271

WEBS 3-18=-446/157, 4-18=-92/1093, 5-18=-1164/191, 5-16=0/473, 6-16=-290/86
6-15=-285/78, 8-15=0/470, 8-13=-1159/184, 9-13=-104/1102, 10-13=-481/168

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCFL=6 0psf BCDL=6 0psf h=25ft, B=45ft, L=47ft, eave=6ft Cat II, Exp B: Encl., GCPI=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 2-8-0 Interior(1) 2-8-0 to 11-0-0 Exterior(2) 11-0-0 to 17-7-3, Interior(1) 17-7-3 to 35-8-0, Exterior(2) 35-8-0 to 42-3-3, Interior(1) 42-3-3 to 46-8-0 zone C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 10 0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=111, 2=178.
- 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

October 23, 2019

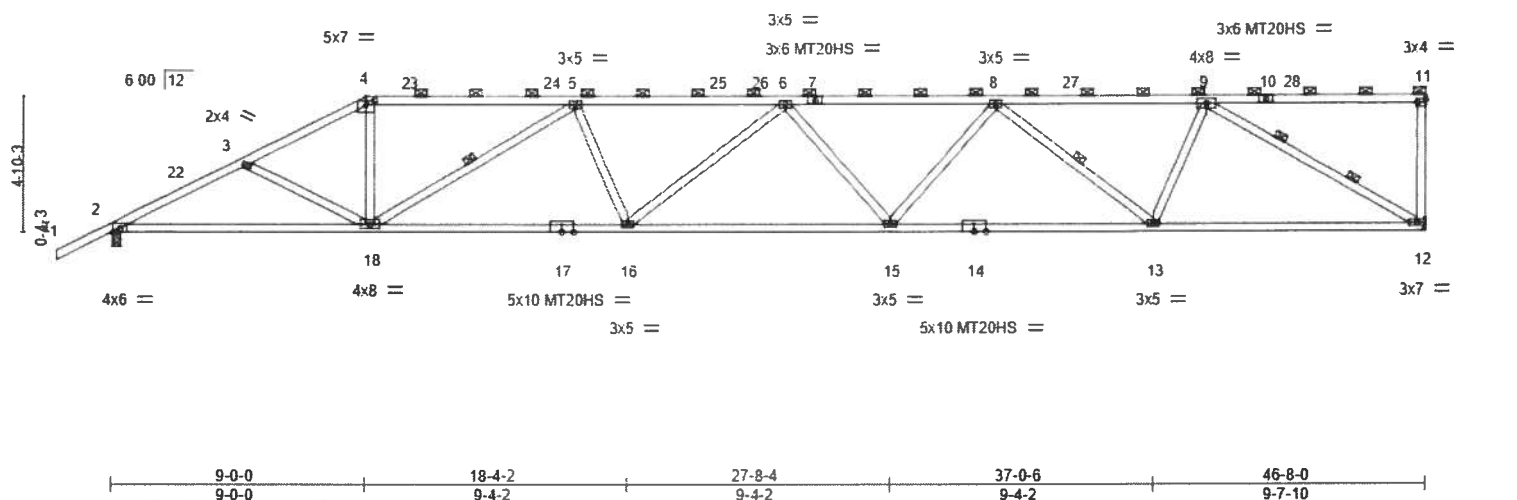
Job	Truss	Truss Type	Qty	Ply	
MSAPP	A20	Half Hip	1	1	T18452799

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries Inc. Tue Oct 22 16:24:35 2019 Page 1
ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-IDocXcLwr7?x2LPJ_nf2sxzJGaxUit3eavZWJk1yQp1g



Scale = 1/8" = 1'-0"



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.87	Vert(LL) -0.42 15-16 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.25	WB 0.86	Vert(CT) -0.94 15-16 >596 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.25 12 n/a n/a		
	Code FBC2017/TPI2014		Wind(LL) 0.31 15-16 >999 240	Weight 241 lb	FT = 15%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2 *Except* 4-7,7-10 2x4 SP No 1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.) 4-11.
BOT CHORD 2x4 SP No 1	BOT CHORD Rigid ceiling directly applied
WEBS 2x4 SP No 2	WEBS 1 Row at midpt 5-18, 8-13 2 Rows at 1/3 pts 9-12

REACTIONS. (lb/size) 12=1858/Mechanical, 2=1983/0-3-8
Max Horz 2=174(LC 12)
Max Uplift 12=-117(LC 12), 2=-171(LC 12)

FORCES. (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-3666/559, 3-4=-3406/487, 4-5=-3037/476, 5-6=-4543/613, 6-8=-4560/580,
8-9=-3109/385
BOT CHORD 2-18=-619/3228, 16-18=-640/4391, 15-16=-672/4773, 13-15=-577/4196 12-13=-372/2667
WEBS 3-18=-268/163, 4-18=-65/1144, 5-18=-1662/233, 5-16=0/477, 6-16=-347/118,
6-15=-335/146, 8-15=-4/577, 8-13=-1401/249, 9-13=-37/1165, 9-12=-3041/427

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6 0psf BCDL=6 0psf h=25ft, B=45ft, L=17ft, eave=6ft. Cat II; Exp B; Encl., GCpl=0.18; MWFRS (directional) and C-C Exterior(2) 2-0-0 to 2-8-0 Interior(1) 2-8-0 to 9-0-0 Exterior(2) 9-0-0 to 15-7-3, Interior(1) 15-7-3 to 46-6-4 zone,C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1 60 plate grip DOL=1 60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
 - 7) Refer to girder(s) for truss to truss connections
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=117, 2=171.
 - 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

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

October 23,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MH-7473 rev. 10/03/2015 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 ANSITPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



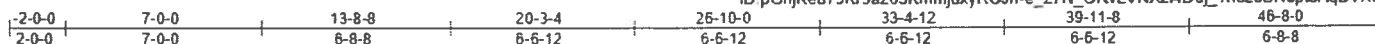
6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
MSAPP	A21	HALF HIP GIRDER	1	2	T18452800

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 Mitek Industries, Inc. Tue Oct 22 16 24 39 2019 Page 1

ID pGnjKou79Kr3a2o3KmmjuxyRCJn-e_27N_ORvLVNXzi4Ddj_1n8z8BNaptsAqBVXloyQp1c



Scale = 1/82.0

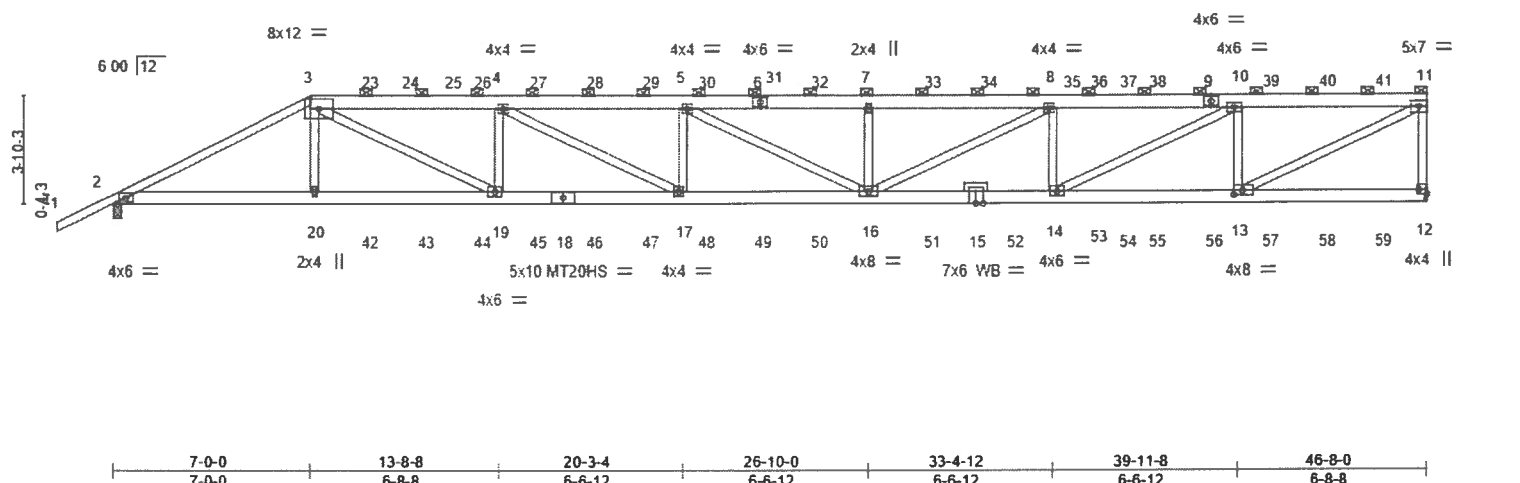


Plate Offsets (X,Y)		[12 Edge 0-3-8], [13 0-3-8, 0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 20.0	Plate Grip DOL	1.25	TC 0.90	Vert(LL)	-0.55	16-17	>999	360	MT20	244/190	
TCDL 10.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-1.12	16-17	>501	240	MT20HS	187/143	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(CT)	0.16	12	n/a	n/a			
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Wind(LL)	0.42	16-17	>999	240	Weight, 621 lb	FT = 15%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No 2 *Except* 1-3. 2x4 SP No 2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-11 max). 3-11.
BOT CHORD	2x6 SP SS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No 2		
OTHERS	2x4 SP No 2		

REACTIONS. (lb/size) 12=3926/Mechanical, 2=3844/0-3-8
Max Horz 2=143(LC 25)
Max Uplift 12=-289(LC 8), 2=-339(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7924/581, 3-4=-11502/878, 4-5=-13527/1013, 5-7=-13380/995, 7-8=-13380/995,
8-10=-11128/825, 10-11=-6737/497, 11-12=-3768/348
BOT CHORD 2-20=-546/7016, 19-20=-541/7044, 17-19=-877/11497, 16-17=-1013/13527,
14-16=-825/11128, 13-14=-497/6737
WEBS 3-20=0/788, 3-19=-377/5075, 4-19=-2021/349, 4-17=-154/2301, 5-17=-721/235,
7-16=-785/250, 8-16=-191/2535, 8-14=-1941/329, 10-14=-369/4943, 10-13=-3116/444,
11-13=-552/7490

- NOTES-**
- 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, 2x6 - 2 rows staggered 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.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=47ft, eave=6ft, Cat. II, Exp B, Encl., GCpi=0.18, MWFRS (directional), Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding
 - All plates are MT20 plates unless otherwise indicated
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (ft=lb) 12=289, 2=339.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2015 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 ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
LMSAPP	A21	HALF HIP GIRDER	1	2	T18452800
SANTA FE TRUSS COMPANY INC.		BELL FL			

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 40 2019 Page 2
ID: pGnjKau79Kr3a2o3KmmjuxyRCJn-6BcVaKO3gfdE87HHmKEDZ_h8ubjtYK6J3rE4PFyQp1b

NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 195 lb down and 152 lb up at 7-0-0, 121 lb down and 80 lb up at 9-0-12, 121 lb down and 80 lb up at 11-0-12, 121 lb down and 80 lb up at 13-0-12, 121 lb down and 80 lb up at 15-0-12, 121 lb down and 80 lb up at 17-0-12, 121 lb down and 80 lb up at 19-0-12, 121 lb down and 80 lb up at 21-0-12, 121 lb down and 80 lb up at 23-0-12, 121 lb down and 80 lb up at 25-0-12, 121 lb down and 80 lb up at 27-0-12, 121 lb down and 80 lb up at 29-0-12, 121 lb down and 80 lb up at 31-0-12, 121 lb down and 80 lb up at 33-0-12, 121 lb down and 80 lb up at 35-0-12, 121 lb down and 80 lb up at 37-0-12, 121 lb down and 80 lb up at 39-0-12, 121 lb down and 80 lb up at 41-0-12, and 121 lb down and 80 lb up at 43-0-12, and 121 lb down and 80 lb up at 45-0-12 on top chord, and 355 lb down and 20 lb up at 7-0-0, 83 lb down at 9-0-12, 83 lb down at 11-0-12, 83 lb down at 13-0-12, 83 lb down at 15-0-12, 83 lb down at 17-0-12, 83 lb down at 19-0-12, 83 lb down at 21-0-12, 83 lb down at 23-0-12, 83 lb down at 25-0-12, 83 lb down at 27-0-12, 83 lb down at 29-0-12, 83 lb down at 31-0-12, 83 lb down at 33-0-12, 83 lb down at 35-0-12, 83 lb down at 37-0-12, 83 lb down at 39-0-12, 83 lb down at 41-0-12, and 83 lb down at 43-0-12, and 83 lb down at 45-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)

Vert: 1-3=-60, 3-11=-60, 2-12=-20

Concentrated Loads (lb)

Vert: 3=-148(B) 6=-121(B) 20=-355(B) 7=-121(B) 16=-59(B) 9=-121(B) 23=-121(B) 25=-121(B) 26=-121(B) 27=-121(B) 28=-121(B) 29=-121(B) 30=-121(B) 32=-121(B) 33=-121(B) 34=-121(B) 35=-121(B) 37=-121(B) 38=-121(B) 39=-121(B) 40=-121(B) 41=-121(B) 42=-59(B) 43=-59(B) 44=-59(B) 45=-59(B) 46=-59(B)

47=-59(B) 48=-59(B) 49=-59(B) 50=-59(B) 51=-59(B) 52=-59(B) 53=-59(B) 54=-59(B) 55=-59(B) 56=-59(B) 57=-59(B) 58=-59(B) 59=-59(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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 ANS/TPP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 36610

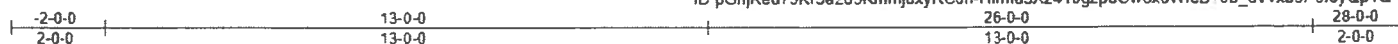
Job	Truss	Truss Type	Qty	Ply	
MSAPP	BET	Common Supported Gable	1	1	T18452802

SANTA FE TRUSS COMPANY INC. BELL FL

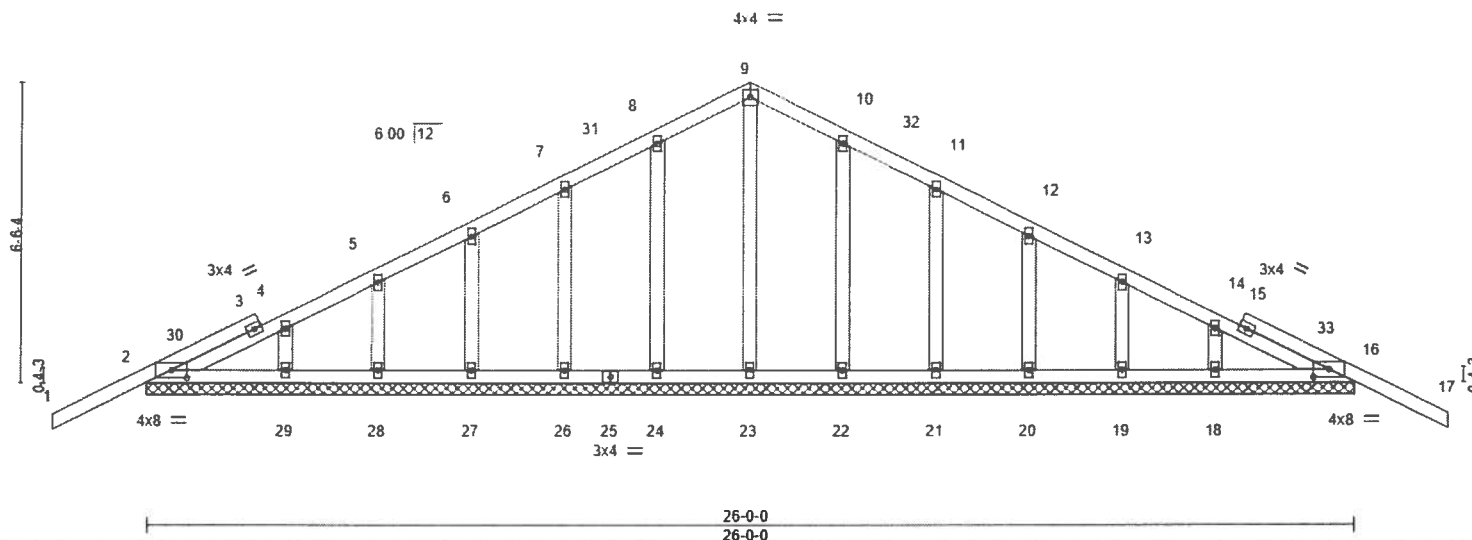
8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 51 2019 Page 1

ID pGnjKau79Kr3a2o3KmmjuxyRCJn-Hlmfu5Xz410gzpdOw8xoWleB70b_dVvxb3P9l6yQp1Q

Job Reference (optional)



Scale = 1/4" = 1'-0"



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.02	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.03				
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00				
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							
								Weight: 148 lb		FT = 15%	

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 26-0-0.
(lb) - Max Horz 2=120(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 26, 27, 28, 22, 21, 20, 19
Max Grav All reactions 250 lb or less at joint(s) 23, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18 except 2=274(LC 1), 16=274(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf, BCDL=6 0psf h=25ft, B=45ft, L=26ft, eave=2ft: Cat II, Exp B, Encl., GCPI=0.18, MWFRS (directional) and C-C Corner(3) -2-0-0 to 1-0-0 Exterior(2) 1-0-0 to 13-0-0, Corner(3) 13-0-0 to 16-0-0, Exterior(2) 16-0-0 to 28-0-0 zone.C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate gnp DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
 - All plates are 2x4 MT20 unless otherwise indicated
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 26, 27, 28, 22, 21, 20, 19.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6834
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2015 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 ANSITPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 36610

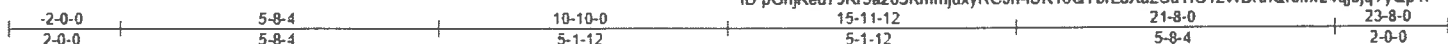
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MSAPP	C	Common	2	1	

T18452803

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 52 2019 Page 1

ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-IUK16QYbrL8XazCaTrS12WBKnQr6Mrz4qj8jqYyQp1P



Scale = 1.41.1

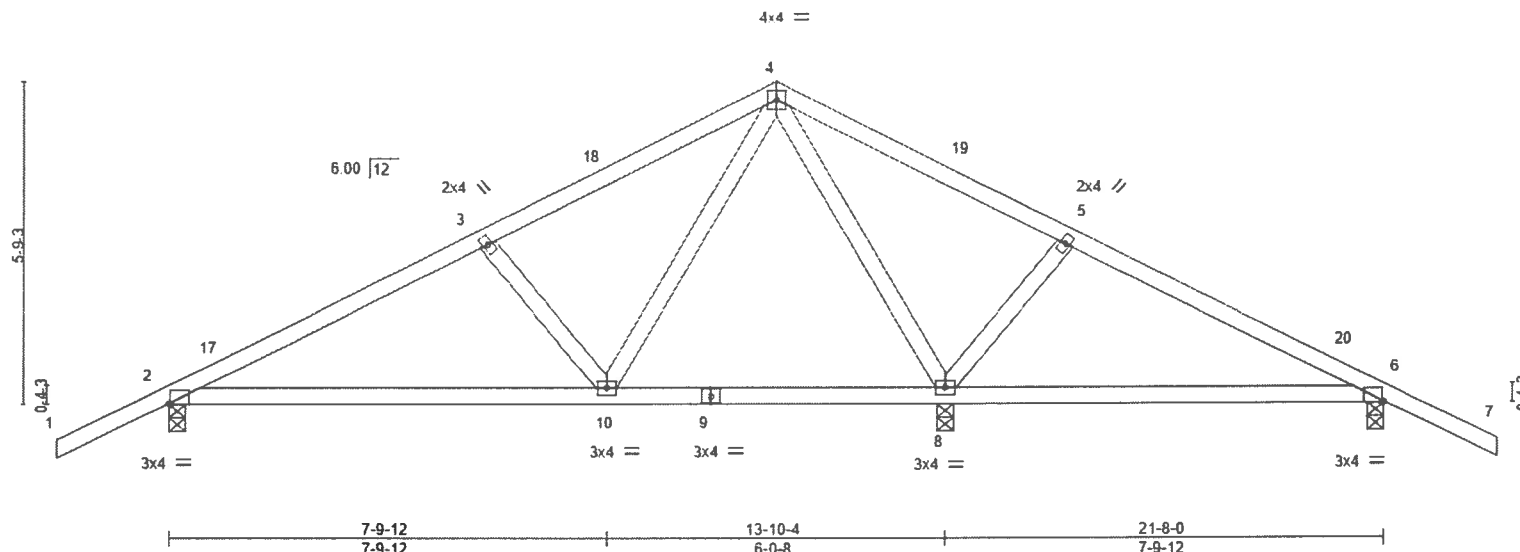


Plate Offsets (X,Y)=		[2-0-0-4,Edge], [6-0-0-4,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.33	Vert(LL)	-0.08 10-13 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.17 10-13 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.01 8 n/a n/a				
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS		Wind(LL)	0.14 8-16 >655 240	Weight. 103 lb		FT = 15%	

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.

(lb/size) 2=624/0-3-8, 8=1007/0-3-8, 6=343/0-3-8
 Max Horz 2=-106(LC 10)
 Max Uplift 2=-99(LC 12), 8=-123(LC 12), 6=-165(LC 12)
 Max Grav 2=624(LC 1), 8=1007(LC 1), 6=379(LC 22)

FORCES.

(lb) - Max Comp./Max. Ten - All forces 250 (lb) or less except when shown
 TOP CHORD 2-3=-660/99, 3-4=-471/99, 4-5=0/283
 BOT CHORD 2-10=0/571
 WEBS 3-10=-336/142, 4-10=0/461, 4-8=-682/39, 5-8=-342/192

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-10: Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=4ft. Cat II, Exp B, Encl., GCPI=0.18, MWFRS (directional) and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-10-0, Exterior(2) 10-10-0 to 13-10-0, Interior(1) 13-10-0 to 23-8-0 zone, porch right exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (if=lb) 8=123, 6=165
- 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

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-T473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
MSAPP	CET	Common Supported Gable	1	1	T18452804
Job Reference (optional)					

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24:53 2019 Page 1
ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-DhuPJmYDcfGOC6nn1ZzGbjiWUqHX5PqE2NuGN_yQp10

-2-0-0	10-10-0	21-8-0	23-8-0
2-0-0	10-10-0	10-10-0	2-0-0

Scale = 1/4" = 5'

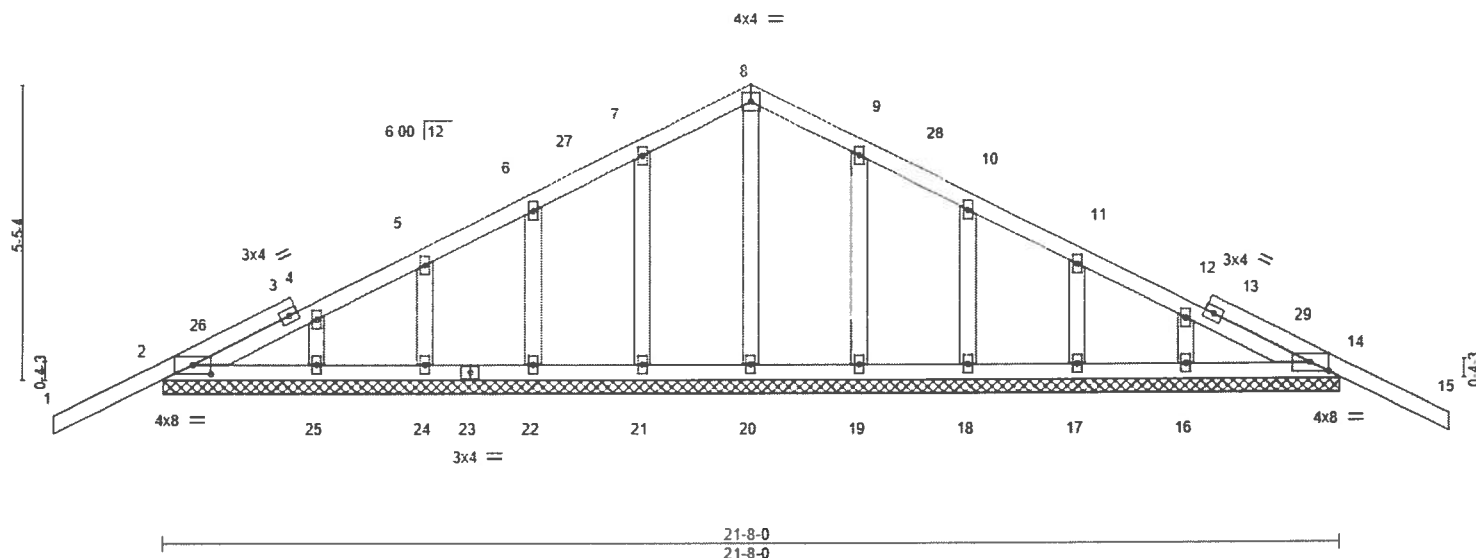


Plate Offsets (X,Y) = [2 0-4-0,0-2-1], [14 0-4-0,0-2-1]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.27	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.03	15	n/r	120		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S							
										Weight 117 lb FT = 15%

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 21-8-0
(lb) - Max Horz 2=-101(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 24, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 24, 25, 19, 18, 17, 16 except 2=271(LC 1)
14=271(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-10: Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=2ft, Cat II, Exp B, Encl., GCpi=0.18, MWFRS (directional) and C-C Corner(3) -2-0-0 to 1-0-0 Exterior(2) 1-0-0 to 10-10-0, Corner(3) 10-10-0 to 13-10-0, Exterior(2) 13-10-0 to 23-8-0 zone, porch right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face) see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
 - All plates are 2x4 MT20 unless otherwise indicated
 - Gable requires continuous bottom chord bearing
 - Gable studs spaced at 2-0-0 oc
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 24, 19, 18, 17.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MH-1473 rev. 10/03/2015 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 BCS Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314

MiTek

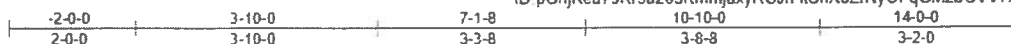
6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T18452805
MSAPP	CGT	Common Girder	1	1	

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc Tue Oct 22 16:24:54 2019 Page 1

ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-itSnX6ZrNyOFqGMzbGVV7xGW7ETzqhsNH1dpvRyQp1N



4x4 ||

Scale = 1/32" = 1' 0"

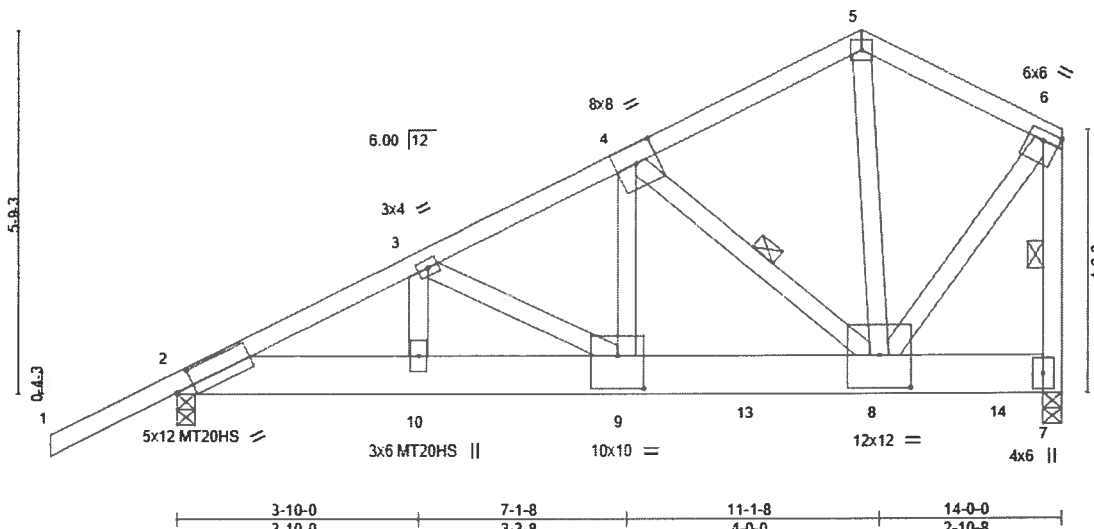


Plate Offsets (X,Y) [2 0-3-7 0-3-0], [6 Edge 0-1-12], [8 0-6-0 0-6-4], [9 0-5-0 0-6-4]

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 0.98	Vert(LL)	-0.13	9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	-0.25	9	>646	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.04	7	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Wind(LL)	0.09	9	>999	Weight 107 lb	FT = 15%

LUMBER-
TOP CHORD 2x4 SP No 2
BOT CHORD 2x8 SP 2400F 2 OE
WEBS 2x4 SP No 2 *Except*
4-9,6-8, 2x4 SP No 1

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-8, 6-7

REACTIONS. (lb/size) 2=3678/0-3-8, 7=6285/0-3-8
Max Horz 2=157(LC 8)
Max Uplift 2=-314(LC 8), 7=-444(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-7268/464, 3-4=-7338/523, 4-5=-3161/248, 5-6=-3324/260, 6-7=-5625/417
BOT CHORD 2-10=-484/6454, 9-10=-484/6454, 8-9=-496/6540
WEBS 4-9=-316/4872, 4-8=-4947/396, 5-8=-164/2689, 6-8=-346/5009

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-10, Vu1=130mph (3-second gust) Vsd=101mph, TCDL=6 0psf, BCDL=6 0psf h=25ft, B=45ft, L=24ft, eave=4ft, Cat II, Exp B, Encl., GCpi=0.18, MWFRS (directional), Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314, 7=444.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3906 lb down and 309 lb up at 7-0-12, 1838 lb down and 137 lb up at 9-0-12, and 1844 lb down and 131 lb up at 11-0-12, and 1149 lb down and 78 lb up at 13-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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

- Dead + Roof Live (balanced). Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert. 1-5=-60, 5-6=-60, 2-7=-20
Concentrated Loads (lb)
Vert. 9=-3906(F) 8=-1844(F) 13=-1838(F) 14=-1149(F)

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6834
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312 Alexandria VA 22314

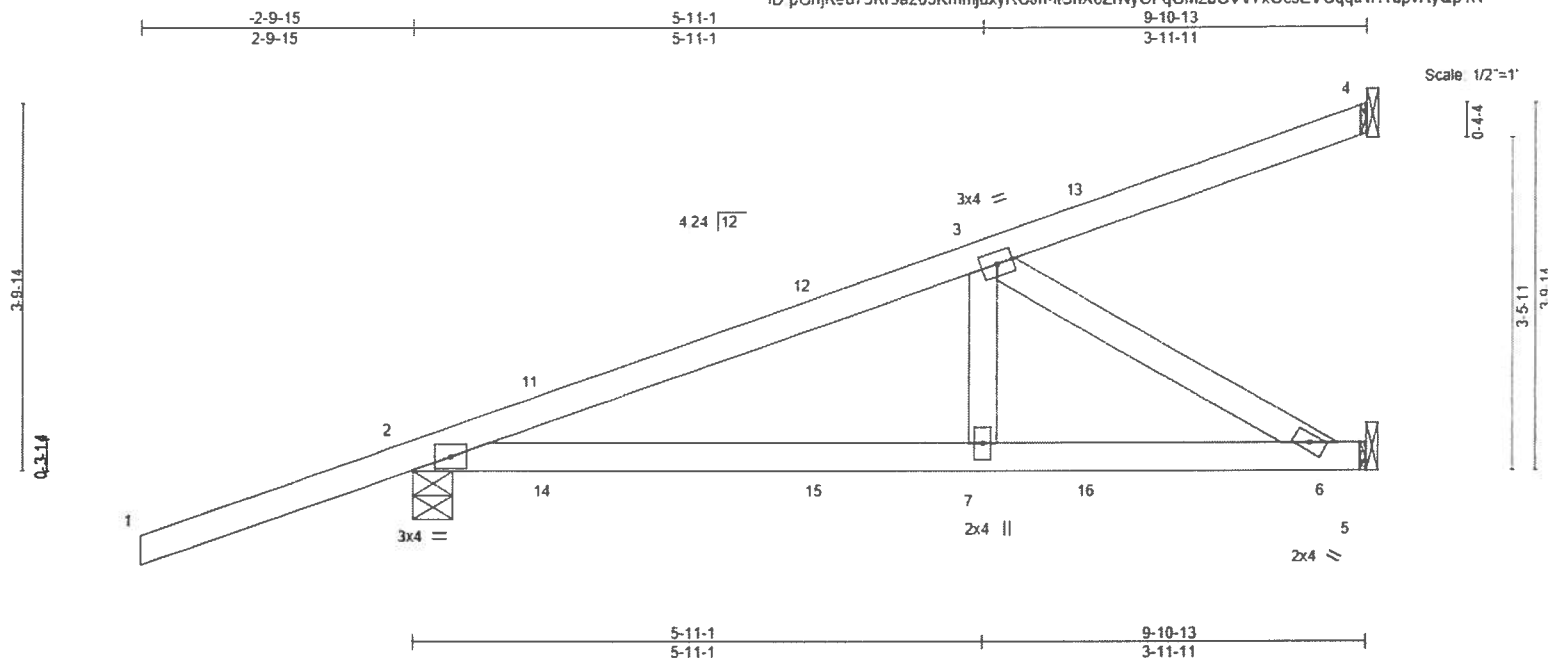


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T18452806
LMSAPP	CJ09	Diagonal Hip Girder	1	1	

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 54 2019 Page 1
ID pGnjKcu79Kr3a2o3KmmjuxyRCJn-itSnX6ZrNyOFqGMzbGVV7xGcsEVGqqtNH1dpvRyQp1N



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62	Vert(LL)	-0.09	7-10	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	0.06	7-10	>999	240	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.19	Horz(CT)	0.01	5	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight 44 lb	FT = 15%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 4=110/Mechanical, 2=491/0-4-15, 5=325/Mechanical
Max Horz 2=144(LC 8)
Max Uplift 4=-34(LC 8), 2=-188(LC 8), 5=-10(LC 8)
Max Grav 4=112(LC 17), 2=552(LC 28), 5=340(LC 29)

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

TOP CHORD 2-3=-670/15
BOT CHORD 2-7=-61/572, 6-7=-61/572
WEBS 3-7=0/266, 3-6=-662/70

NOTES-

- 1) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=4ft; Cat II, Exp B; Encl., GCpi=0.18, MWFRS (directional); Lumber DOL=1.60 plate gnp DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=188
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 112 lb up at 1-5-4, 57 lb down and 112 lb up at 1-5-4, 56 lb down and 28 lb up at 4-3-4, 56 lb down and 28 lb up at 4-3-4, and 87 lb down and 66 lb up at 7-1-3, and 87 lb down and 66 lb up at 7-1-3 on top chord, and 32 lb down and 78 lb up at 1-5-4, 32 lb down and 78 lb up at 1-5-4, 19 lb down and 2 lb up at 4-3-4, 19 lb down and 2 lb up at 4-3-4, and 33 lb down at 7-1-3, and 33 lb down at 7-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced). Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (psf)
Vert. 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert. 11=71(F=35, B=35) 13=-74(F=-37, B=-37) 14=80(F=40, B=40) 15=4(F=2, B=2) 16=-50(F=-25, B=-25)

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MH-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 36610

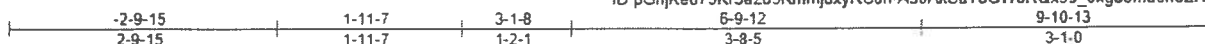
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
LMSAPP	CJ09A	Diagonal Hip Girder	1	1	

T18452807

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 55 2019 Page 1

ID pGnjKou79Kr3a2o3KmmjuxyRCJn-A30AkSaT8GW6RQx99_0kg8omueneZHTXWhNNRtyQp1M



Scale = 1/24

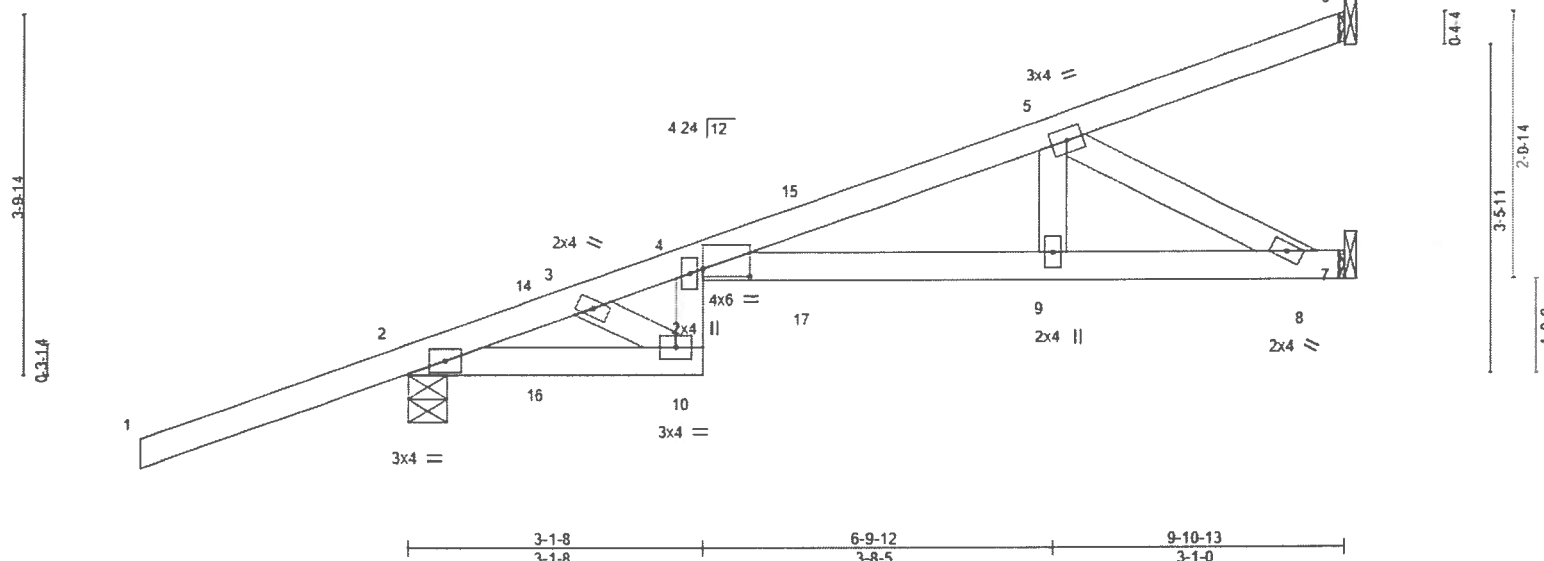


Plate Offsets (X,Y)-- [4:0-5-15,0-0-15]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	-0.18	4-9	>648	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.78	Vert(CT)	-0.31	4-9	>376	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.16	Horz(CT)	0.12	7	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Wind(LL)	-0.17	4-9	>702	240	Weight: 44 lb	FT = 15%

LUMBER-

TOP CHORD 2x4 SP SS
 BOT CHORD 2x4 SP No 2 *Except*
 4-7: 2x4 SP No 1
 WEBS 2x4 SP No 2

BRACING-

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

REACTIONS.

(lb/size) 6=42/Mechanical, 2=509/0-4-15, 7=399/Mechanical
 Max Horz 2=144(LC 24)
 Max Uplift 6=-54(LC 24), 2=-181(LC 8), 7=-9(LC 8)
 Max Grav 6=55(LC 17), 2=564(LC 28), 7=405(LC 29)

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

TOP CHORD 2-3=-1046/79, 3-4=-294/0, 4-5=-952/9
 BOT CHORD 2-10=-141/934, 4-10=-78/537, 4-9=-55/890, 8-9=-54/892
 WEBS 3-10=-1055/158, 5-8=-1005/61, 5-9=0/358

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=6 0psf, BCDL=6 0psf, h=25ft, B=45ft, L=24ft, eave=4ft; Cat II, Exp B, Encl., GCpi=0.18, MWFRS (directional), Lumber DOL=1.60 plate grip DOL=1.50
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7 except (jt=lb) 2=181
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 112 lb up at 1-5-4, 57 lb down and 112 lb up at 1-5-4, 53 lb down and 18 lb up at 4-3-4, 53 lb down and 18 lb up at 4-3-4, and 84 lb down and 55 lb up at 7-1-3, and 84 lb down and 55 lb up at 7-1-3 on top chord, and 32 lb down and 78 lb up at 1-5-4, 32 lb down and 78 lb up at 1-5-4, 16 lb down at 4-3-4, 16 lb down at 4-3-4, and 38 lb down at 7-1-3, and 38 lb down at 7-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced), Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert. 1-4=-60, 4-6=-60, 10-11=-20, 4-7=-20
 Concentrated Loads (lb)
 Vert. 5=-47(F=-24, B=-24) 9=-76(F=-38, B=-38) 14=71(F=35, B=35) 16=80(F=40, B=40) 17=-20(F=-10, B=-10)

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-1473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MSAPP	EJ7	Jack-Open	38	1	

T18452808

SANTA FE TRUSS COMPANY INC.

BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 56 2019 Page 1

ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-eGaYxob5vaez3aWMihXzDMLz51CLmHgkL6wzJyQp1L



Scale 1/2"=1'

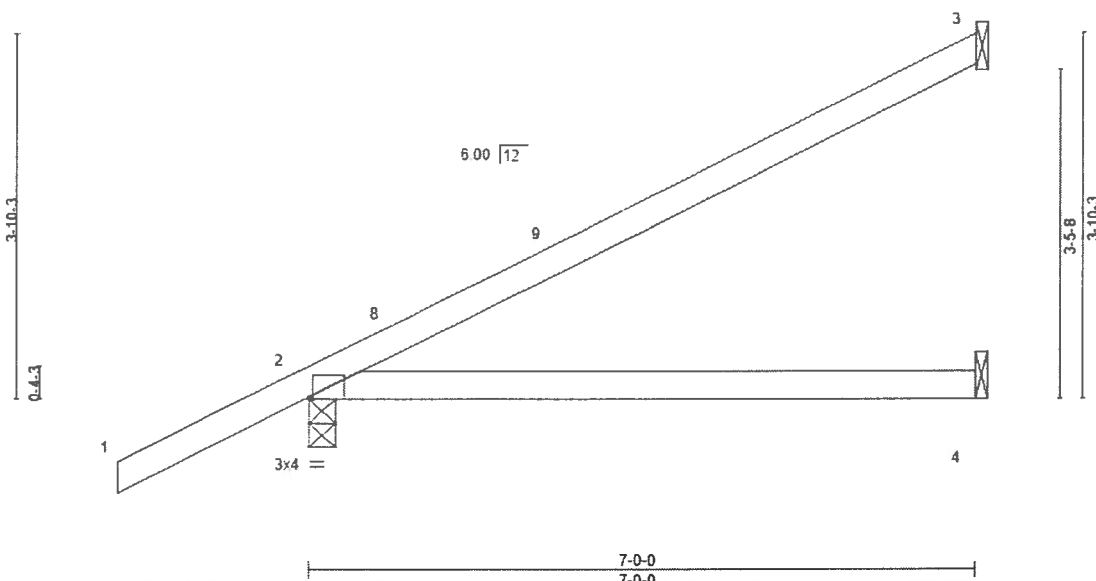


Plate Offsets (X,Y)-- [2 0-0-8 Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.57	Vert(LL)	-0.09	4-7	>969	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.20	4-7	>408	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS	Wind(LL)	0.08	4-7	>999	240	Weight: 26 lb	FT = 15%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 3=181/Mechanical, 2=415/0-3-8, 4=79/Mechanical

Max Horz 2=144(LC 12)
Max Uplift 3=-59(LC 12), 2=-66(LC 12)
Max Grav 3=181(LC 1), 2=415(LC 1), 4=123(LC 3)

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

- 1) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=4ft, Cat. II, Exp B, Encl, GCpi=0.18, MWFRS (directional) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone, C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2
- 6) This truss 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

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-1473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MSAPP	EJ7A	Jack-Open	3	1	

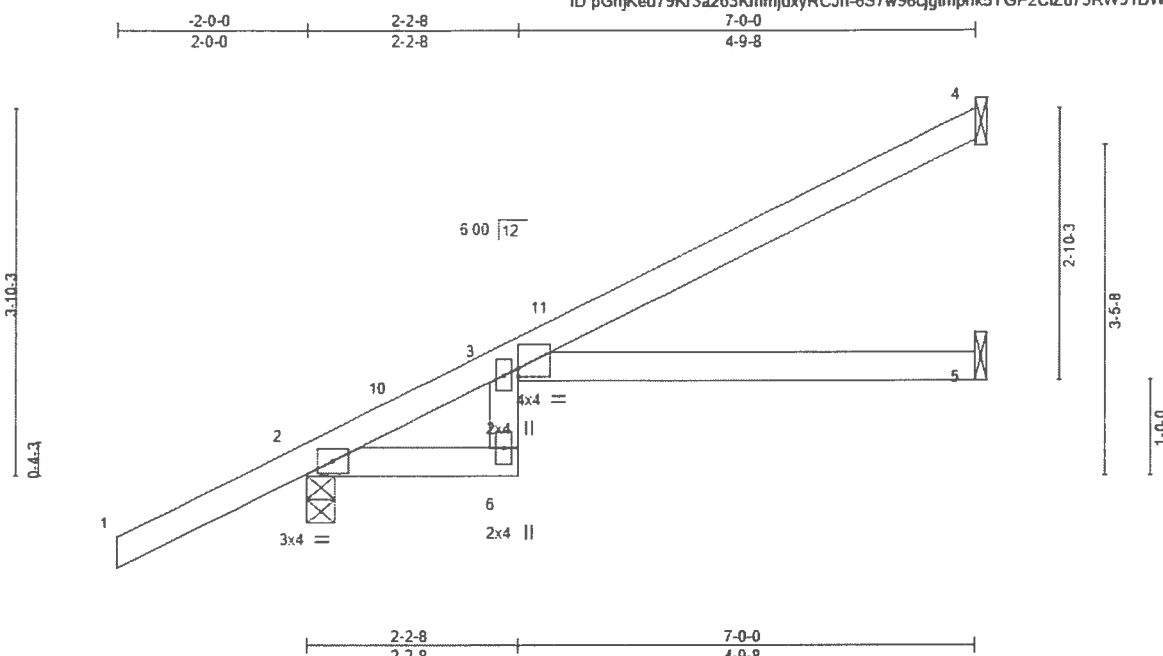
T18452809

SANTA FE TRUSS COMPANY INC.

BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 57 2019 Page 1

ID pGnjKeu79Kr3a2o3KmmjuxyRCJn-6S7w98cgImphk5YGP2ClZu73RW91DWpz_sUWlyQp1K



Scale 1/2"=1'

Plate Offsets (X,Y) - [3 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 0.62	Vert(LL)	-0.11	3-5	>761	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.24	3-5	>348	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.11	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS	Wind(LL)	0.13	3-5	>656	240	Weight 27 lb	FT = 15%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 4=169/Mechanical, 2=415/0-3-8, 5=91/Mechanical
Max Horz 2=144(LC 12)
Max Uplift 4=-48(LC 12), 2=-66(LC 12)
Max Grav 4=169(LC 1), 2=415(LC 1), 5=118(LC 3)

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

NOTES-

- 1) Wind, ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=4ft, Cat II, Exp B, Encl, GCpi=0.18, MWFRS (directional) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone, C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2
- 6) This truss 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

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58126
MiTek USA, Inc. FL Cert 8634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M17473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
LMSAPP	J01	Jack-Open	4	1	

T18452810

SANTA FE TRUSS COMPANY INC.

BELL FL

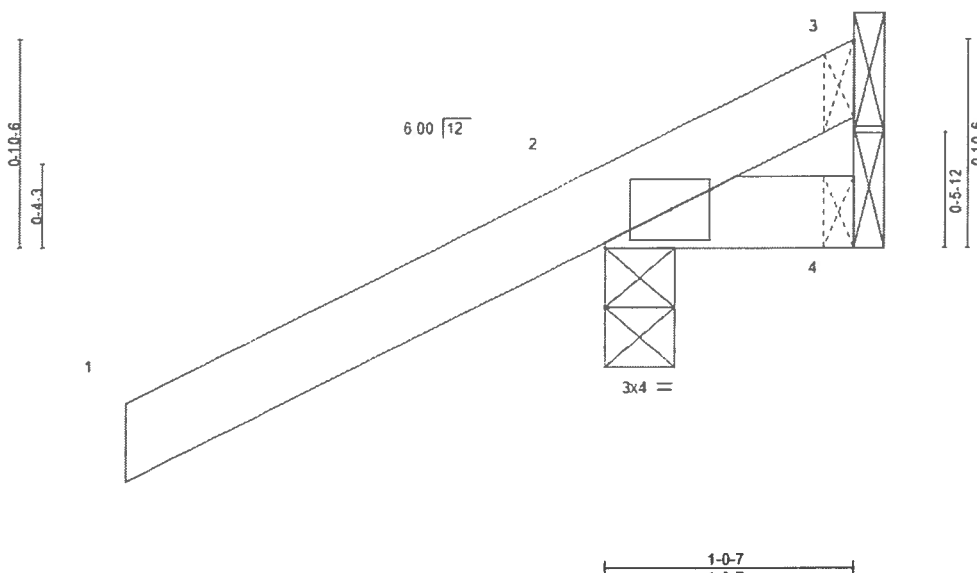
8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16:24 57 2019 Page 1

ID pGnjKau79Kr3a2o3KmmjuxyRCJn-6S7w98cgtmphk5YGP2CIZuCFReR1DWpz_sUWMyQp1K

-2-0-0
1-0-7

2-0-0
1-0-7

Scale = 1/96



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	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	0.00	7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP	Wind(LL)	-0.00	7	>999	240	Weight: 7 lb	FT = 15%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 3=-27/Mechanical, 2=278/0-3-8, 4=-49/Mechanical
Max Horz 2=58(LC 12)
Max Uplift 3=-27(LC 1), 2=-142(LC 12), 4=-49(LC 1)
Max Grav 3=28(LC 12), 2=278(LC 1), 4=46(LC 12)

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

NOTES-

- 1) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6 0psf; BCDL=6 0psf; h=25ft, B=45ft, L=24ft; eave=4ft; Cat II, Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a live load of 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 3) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jl=lb) 2=142.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
MiTek USA, Inc. FL Cert 6834
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-1473 rev. 10/03/2015 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 ANS/TPM Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
LMSAPP	J03	Jack-Open	2	1	

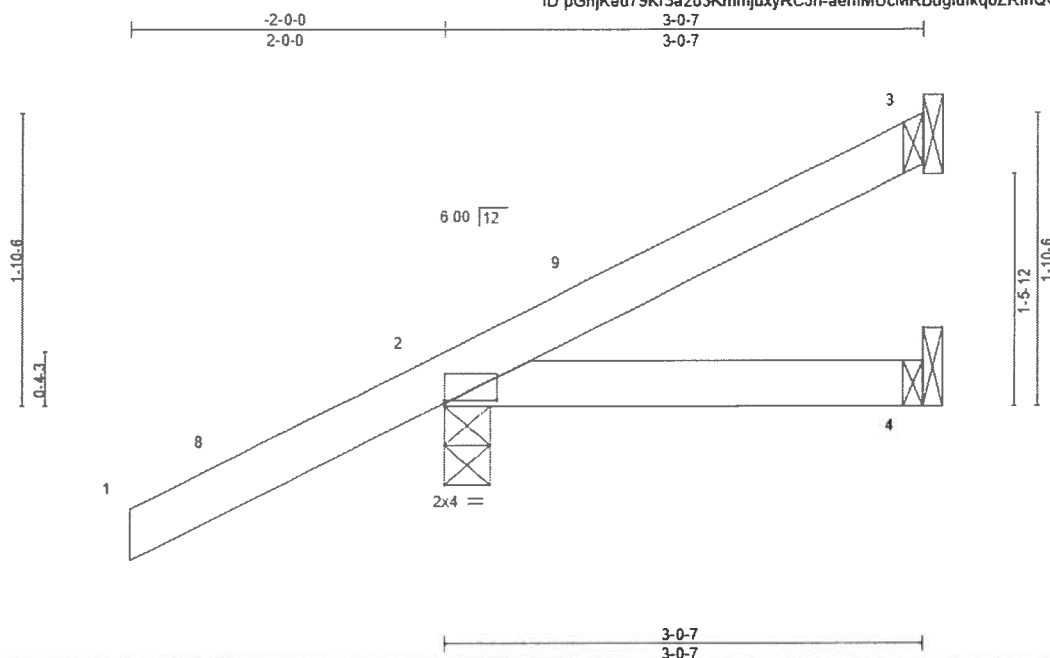
T18452811

SANTA FE TRUSS COMPANY INC.

BELL FL

8 240 s Jul 14 2019 Mitek Industries, Inc. Tue Oct 22 16 24 58 2019 Page 1

ID pGnjKau79Kr3a2o3KmmjuxyRCJn-aeHlMUcMRBbuglufkq6ZRInQOkR_WmgmzCeb12CyQp1J



Scale = 1:14.7

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

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 0.24	Vert(LL)	-0.00	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.01	4-7	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP	Wind(LL)	-0.00	4-7	>999	240	Weight 13 lb	FT = 15%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS.

(lb/size) 3=58/Mechanical, 2=279/0-3-8, 4=21/Mechanical
Max Horz 2=86(LC 12)
Max Uplift 3=-13(LC 12), 2=-87(LC 12)
Max Grav 3=58(LC 1), 2=279(LC 1), 4=48(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=4ft, Cat. II, Exp B, Encl. GCpi=0.18, MWFRS (directional) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-11 zone, C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
Mitek USA, Inc. FL Cert 8834
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-1473 rev. 10/03/2015 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 ANSUTP1 Quality Criteria, DSB-83 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
LMSAPP	J03A	Jack-Open	2	1	

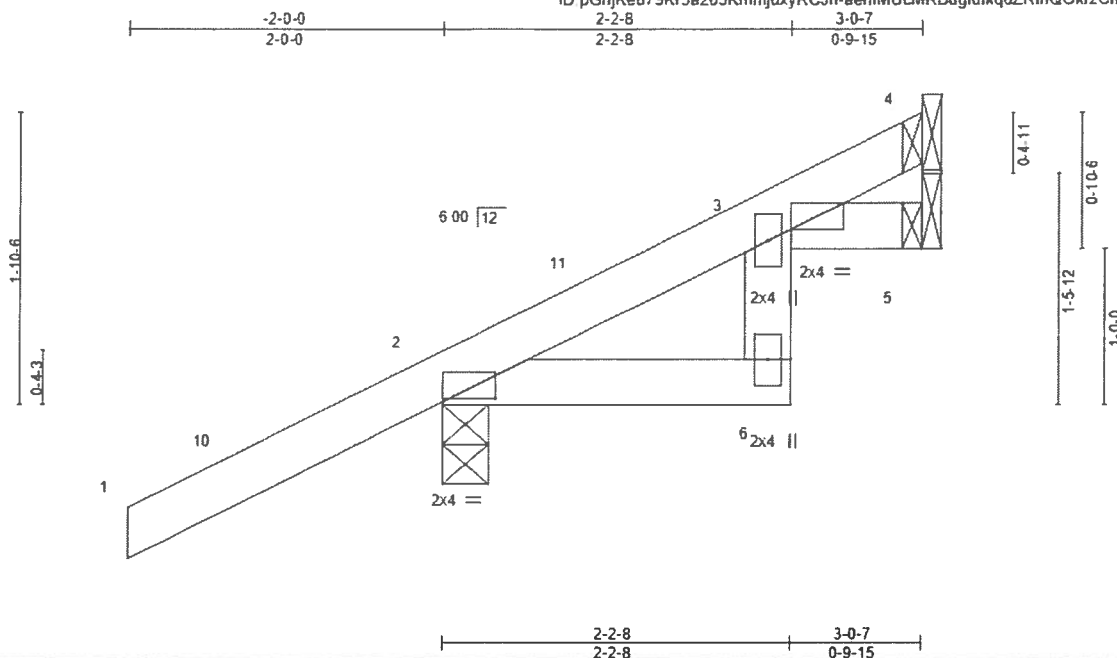
T18452812

SANTA FE TRUSS COMPANY INC.

BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16 24 58 2019 Page 1

ID pGnjKau79Kr3a2o3KmmjuxyRCJn-aeHlMUcMRBuglufkq6ZRIInQOkzCmgmzCeb12CyQp1J



Scale = 1/4" = 1'

Plate Offsets (X,Y) = [2 0-4-0 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 0.24	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	6	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR	Wind(LL)	-0.00	6	>999	240	Weight 14 lb	FT = 15%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS. (lb/size) 4=45/Mechanical, 2=279/0-3-8, 5=34/Mechanical
Max Horz 2=86(LC 12)
Max Uplift 4=3(LC 9), 2=87(LC 12)
Max Grav 4=45(LC 1), 2=279(LC 1), 5=43(LC 3)

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

NOTES-

- 1) Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=4ft, Cat II, Exp B, Encl. GCpi=0.18, MWFRS (directional) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-11 zone, C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No. 58128
MiTek USA, Inc. FL Cert 8634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-1473 rev. 10/03/2015 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 ANS/TPM Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MSAPP	J05	Jack-Open	2	1	

T18452813

SANTA FE TRUSS COMPANY INC.

BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16:24:59 2019 Page 1

ID pGnjKcu79K3a2o3KmmjuxyRCJn-2rfgaqd_CV0Xw1EwOp4gq_zY8FH7V706RILaeyQp1l



Scale = 1 19 6

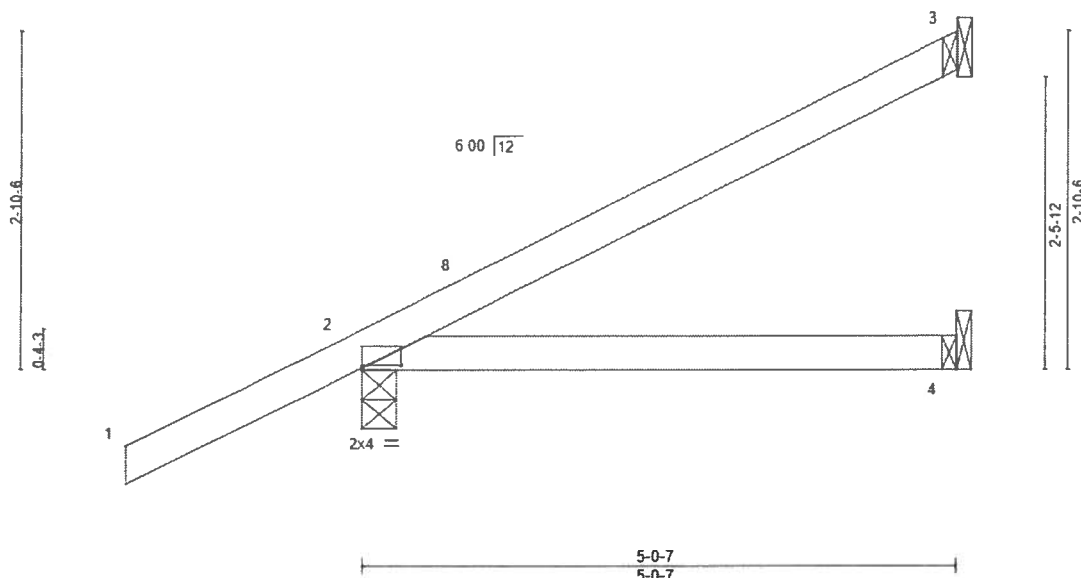


Plate Offsets (X,Y) [2 0-4-0 0-0-4]

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 0.26	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.05	4-7	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS	Wind(LL)	0.03	4-7	>999	240	Weight 19 lb	FT = 15%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 3=122/Mechanical, 2=343/0-3-8, 4=53/Mechanical

Max Horz 2=115(LC 12)

Max Uplift 3=37(LC 12), 2=73(LC 12)

Max Grav 3=122(LC 1), 2=343(LC 1), 4=87(LC 3)

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

- 1) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph. TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=4ft, Cat. II, Exp B, Encl, GCpi=0.18. MWFRS (directional) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-11 zone, C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58128
MiTek USA, Inc. FL Cert 8634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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, 218 N Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 33610

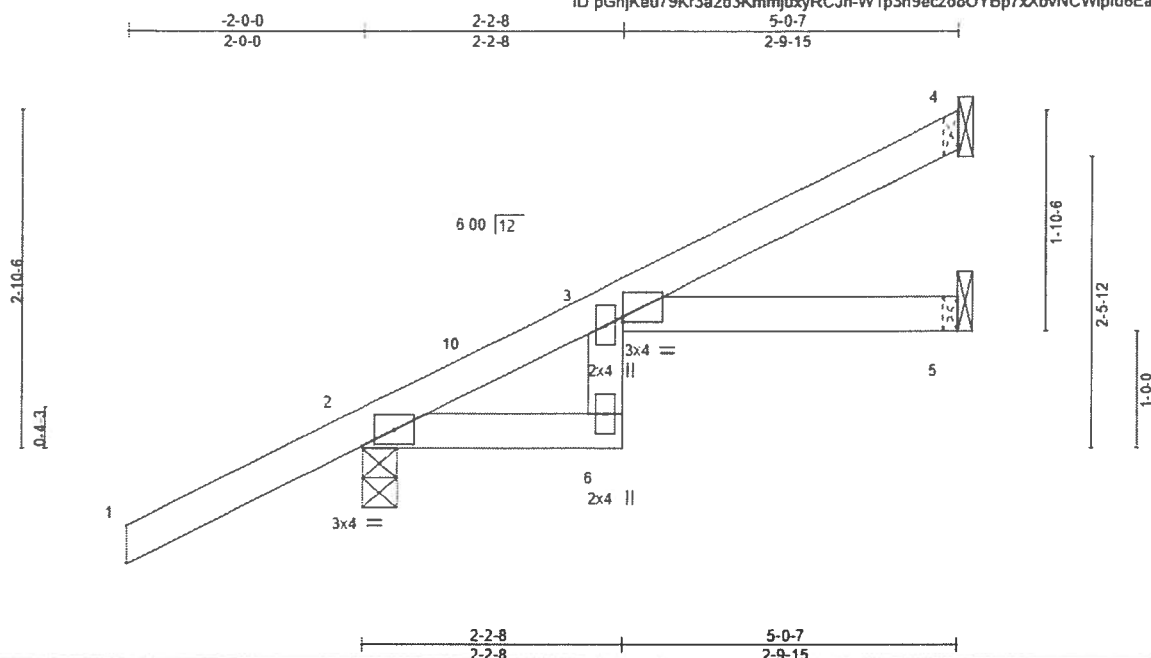
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
MSAPP	J05A	Jack-Open	2	1	

T18452814

SANTA FE TRUSS COMPANY INC. BELL FL

8 240 s Jul 14 2019 MiTek Industries, Inc. Tue Oct 22 16:25:00 2019 Page 1

ID pGnjKcu79Kr3a2o3KmmjuxyRCJn-W1p3n9eczo8OYBp7xXbvNCWipfd6EaGGfy4864yQp1H



Scale = 1/19.6

Plate Offsets (X,Y) - [3 Edge 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 0.33	Vert(LL)	-0.03	3	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.06	3-5	>961	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS	Wind(LL)	0.05	3	>999	240	Weight 21 lb	FT = 15%

LUMBER-

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

BRACING-

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

REACTIONS.

(lb/size) 4=109/Mechanical, 2=343/0-3-8, 5=66/Mechanical
Max Horz 2=115(LC 12)
Max Uplift 4=27(LC 12), 2=-73(LC 12)
Max Grav 4=109(LC 1), 2=343(LC 1), 5=82(LC 3)

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

NOTES-

- 1) Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph: TCDL=6.0psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=4ft, Cat II, Exp B, Encl, GCPI=0.18, MWFRS (directional) and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-11 zone, C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 4) Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 8834
6904 Parke East Blvd. Tampa FL 33610
Date:

October 23, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

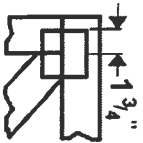
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANSUTP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street Suite 312 Alexandria VA 22314



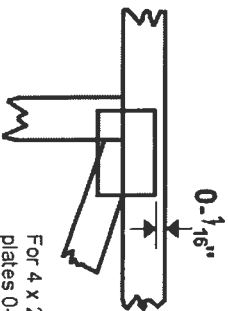
6904 Parke East Blvd
Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

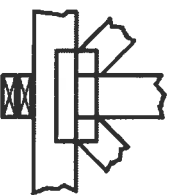
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



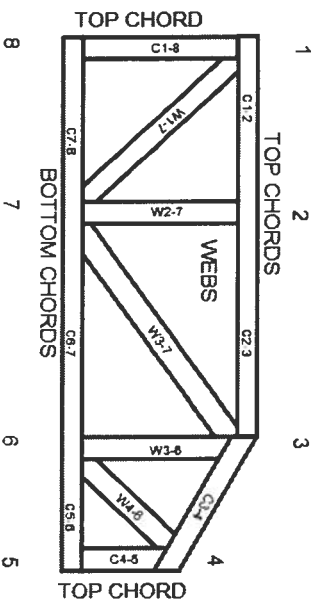
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: 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

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MITek® All Rights Reserved

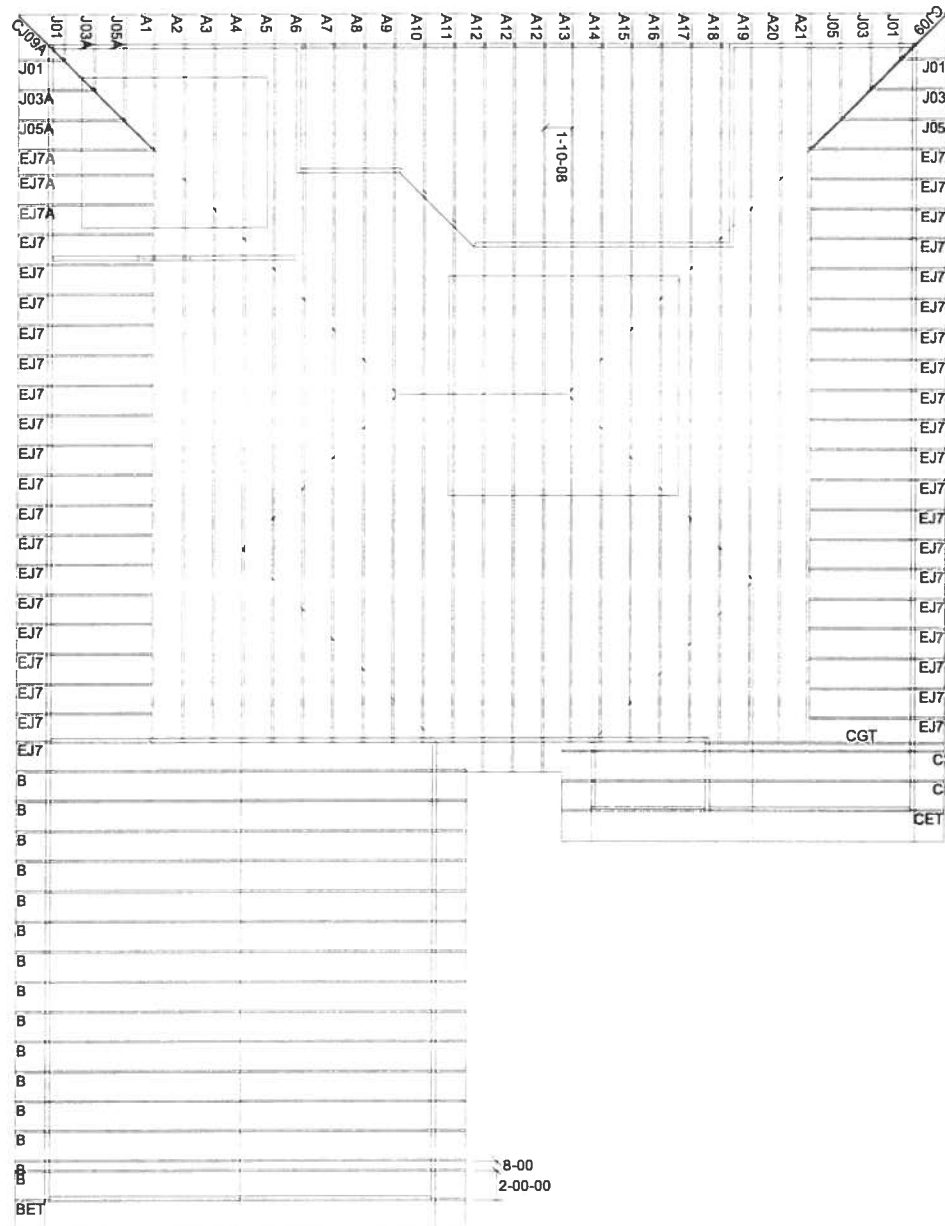


MITek Engineering Reference Sheet: Mil-7473 rev 10/03/2015

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 T or 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.



Santa Fe Truss

BELL, FL PHONE 386-454-7711 FAX 800-853-1556

Job Name: SAPP RESIDENCE

Customer: LMC CONSTRUCTION

Residential System Sizing Calculation

Summary

Ed Sapp

Project Title:
Sapp Residence

Lake City, FL 32024

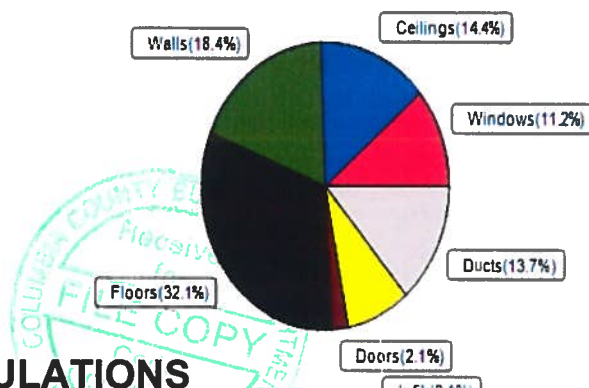
10/25/2019

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature(TMY3 99%)	30	F	Summer design temperature(TMY3 99%)	94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	35615	Btuh	Total cooling load calculation	24848	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	100.0	35615	Sensible (SHR = 0.70)	88.0	17317
Heat Pump + Auxiliary(0.0kW)	100.0	35615	Latent	143.4	7421
			Total (Electric Heat Pump)	99.6	24738

WINTER CALCULATIONS

Winter Heating Load (for 2436 sqft)

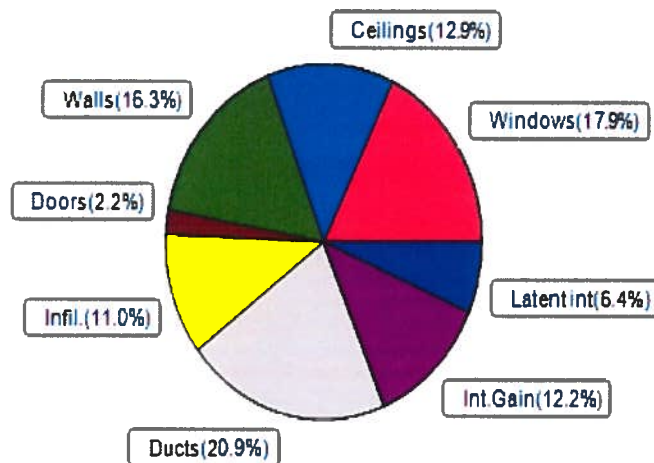
Load component			Load	
Window total	278	sqft	4003	Btuh
Wall total	1845	sqft	6550	Btuh
Door total	40	sqft	736	Btuh
Ceiling total	2558	sqft	5142	Btuh
Floor total	2436	sqft	11422	Btuh
Infiltration	66	cfm	2887	Btuh
Duct loss			4874	Btuh
Subtotal			35615	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			35615	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2436 sqft)

Load component			Load	
Window total	278	sqft	4449	Btuh
Wall total	1845	sqft	4052	Btuh
Door total	40	sqft	552	Btuh
Ceiling total	2558	sqft	3214	Btuh
Floor total			0	Btuh
Infiltration	49	cfm	1028	Btuh
Internal gain			3040	Btuh
Duct gain			3338	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			19673	Btuh
Latent gain(ducts)			1868	Btuh
Latent gain(infiltration)			1707	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			5175	Btuh
TOTAL HEAT GAIN			24848	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Ed Sapp

Lake City, FL 32024

Project Title:
Sapp Residence
Building Type: User

10/25/2019

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

Component Loads for Whole House								
Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	2, NFRC 0.25	Vinyl	0.36	S	30.0		14.4	432 Btuh
2	2, NFRC 0.25	Vinyl	0.36	S	30.0		14.4	432 Btuh
3	2, NFRC 0.25	Vinyl	0.36	E	45.0		14.4	648 Btuh
4	2, NFRC 0.25	Vinyl	0.36	E	4.0		14.4	58 Btuh
5	2, NFRC 0.25	Vinyl	0.36	N	15.0		14.4	216 Btuh
6	2, NFRC 0.25	Vinyl	0.36	W	15.0		14.4	216 Btuh
7	2, NFRC 0.25	Vinyl	0.36	N	45.0		14.4	648 Btuh
8	2, NFRC 0.25	TIM	0.36	N	24.0		14.4	346 Btuh
9	2, NFRC 0.25	Vinyl	0.36	N	12.0		14.4	173 Btuh
10	2, NFRC 0.25	Vinyl	0.36	E	12.0		14.4	173 Btuh
11	2, NFRC 0.25	Vinyl	0.36	N	30.0		14.4	432 Btuh
12	2, NFRC 0.25	Vinyl	0.36	W	4.0		14.4	58 Btuh
13	2, NFRC 0.25	Vinyl	0.36	W	12.0		14.4	173 Btuh
Window Total					278.0(sqft)			4003 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	112		3.55	398 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	42		3.55	149 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	96		3.55	341 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	413		3.55	1466 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	98		3.55	346 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	105		3.55	373 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	177		3.55	628 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	63		3.55	224 Btuh
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	122		3.55	431 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	404		3.55	1434 Btuh
11	Frame - Wood	- Adj	(0.089)	13.0/0.0	214		3.55	760 Btuh
Wall Total					1845(sqft)			6550 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.460)		20		18.4	368 Btuh
2	Insulated - Garage, n		(0.460)		20		18.4	368 Btuh
Door Total					40(sqft)			736Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Unvent Attic/L/Shing		(0.050)	0.0/19.0	2558		2.0	5142 Btuh
Ceiling Total					2558(sqft)			5142Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	242.0 ft(perim.)		47.2	11422 Btuh
Floor Total					2436 sqft			11422 Btuh
Envelope Subtotal:								27854 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Ed Sapp

Lake City, FL 32024

Project Title:
Sapp Residence
Building Type: User

10/25/2019

Infiltration	Type Natural	Wholehouse ACH 0.18	Volume(cuft) 21924	Wall Ratio 1.00	CFM= 65.9	2887 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.159)					4874 Btuh
All Zones	Sensible Subtotal All Zones					35615 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	35615 Btuh 0 Btuh 35615 Btuh
---------------------------	--	------------------------------------

EQUIPMENT

1. Electric Heat Pump	#	35615 Btuh
-----------------------	---	------------

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)

U - (Window U-Factor)

HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Ed Sapp

Project Title:
Sapp Residence

Lake City, FL 32024

10/25/2019

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

Window	Type*						Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.25, 0.36	No	No	S		2.0ft.	1.0ft.	30.0	30.0	0.0	12	14	363	Btuh
2	2 NFRC	0.25, 0.36	No	No	S		2.0ft.	1.0ft.	30.0	30.0	0.0	12	14	363	Btuh
3	2 NFRC	0.25, 0.36	No	No	E		2.0ft.	1.0ft.	45.0	5.9	39.1	12	31	1280	Btuh
4	2 NFRC	0.25, 0.36	No	No	E		2.0ft.	1.0ft.	4.0	2.6	1.4	12	31	74	Btuh
5	2 NFRC	0.25, 0.36	No	No	N		2.0ft.	1.0ft.	15.0	0.0	15.0	12	12	181	Btuh
6	2 NFRC	0.25, 0.36	No	No	W		8.0ft.	1.0ft.	15.0	15.0	0.0	12	31	181	Btuh
7	2 NFRC	0.25, 0.36	No	No	N		13.0f	1.0ft.	45.0	0.0	45.0	12	12	544	Btuh
8	2 NFRC	0.25, 0.36	No	No	N		13.0f	1.0ft.	24.0	0.0	24.0	12	12	290	Btuh
9	2 NFRC	0.25, 0.36	No	No	N		13.0f	1.0ft.	12.0	0.0	12.0	12	12	145	Btuh
10	2 NFRC	0.25, 0.36	No	No	E		8.0ft.	1.0ft.	12.0	12.0	0.0	12	31	145	Btuh
11	2 NFRC	0.25, 0.36	No	No	N		2.0ft.	1.0ft.	30.0	0.0	30.0	12	12	363	Btuh
12	2 NFRC	0.25, 0.36	No	No	W		2.0ft.	1.0ft.	4.0	2.6	1.4	12	31	74	Btuh
13	2 NFRC	0.25, 0.36	No	No	W		2.0ft.	1.0ft.	12.0	2.0	10.0	12	31	334	Btuh
Excursion														110	Btuh
Window Total									278 (sqft)					4449 Btuh	
Walls	Type						U-Value	R-Value	Area(sqft)		HTM		Load		
								Cav/Sheath							
1	Frame - Wood - Ext						0.09	13.0/0.0	112.0		2.3		253 Btuh		
2	Frame - Wood - Ext						0.09	13.0/0.0	42.0		2.3		95 Btuh		
3	Frame - Wood - Ext						0.09	13.0/0.0	96.0		2.3		217 Btuh		
4	Frame - Wood - Ext						0.09	13.0/0.0	413.0		2.3		935 Btuh		
5	Frame - Wood - Ext						0.09	13.0/0.0	97.5		2.3		221 Btuh		
6	Frame - Wood - Ext						0.09	13.0/0.0	105.0		2.3		238 Btuh		
7	Frame - Wood - Ext						0.09	13.0/0.0	177.0		2.3		401 Btuh		
8	Frame - Wood - Ext						0.09	13.0/0.0	63.0		2.3		143 Btuh		
9	Frame - Wood - Ext						0.09	13.0/0.0	121.5		2.3		275 Btuh		
10	Frame - Wood - Ext						0.09	13.0/0.0	404.0		2.3		914 Btuh		
11	Frame - Wood - Adj						0.09	13.0/0.0	214.0		1.7		361 Btuh		
Wall Total									1845 (sqft)				4052 Btuh		
Doors	Type								Area (sqft)		HTM		Load		
1	Insulated - Exterior								20.0		13.8		276 Btuh		
2	Insulated - Garage								20.0		13.8		276 Btuh		
Door Total									40 (sqft)				552 Btuh		
Ceilings	Type/Color/Surface						U-Value	R-Value	Area(sqft)		HTM		Load		
1	Unvented AtticLight/Shingle						0.050	0.0/19.0	2558.0		1.26		3214 Btuh		
Ceiling Total									2558 (sqft)				3214 Btuh		
Floors	Type						R-Value		Size		HTM		Load		
1	Slab On Grade						0.0		2436 (ft-perimeter)		0.0		0 Btuh		
Floor Total									2436.0 (sqft)				0 Btuh		
Envelope Subtotal:														12267 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Ed Sapp

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Sapp Residence

Lake City, FL 32024

10/25/2019

Infiltration	Type Natural	Average ACH 0.14	Volume(cuft) 21924	Wall Ratio 1	CFM= 49.4	Load 1028 Btuh
Internal gain		Occupants 8	Btuh/occupant X 230	Appliance +	1200	Load 3040 Btuh
	Sensible Envelope Load:					16336 Btuh
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.204)					3338 Btuh
	Sensible Load All Zones					19673 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Ed Sapp

Project Title:
Sapp Residence

Climate:FL_GAINESVILLE_REGIONAL_A

Lake City, FL 32024

10/25/2019

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	16336 Btuh
	Sensible Duct Load	3338 Btuh
	Total Sensible Zone Loads	19673 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	19673 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	1707 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1868 Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5175 Btuh
	TOTAL GAIN	24848 Btuh

EQUIPMENT

1. Central Unit	#	24738 Btuh
-----------------	---	------------

*Key: Window types (Panels - Number and type of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value)

(U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))

- For Blinds: Assume medium color, half closed

For Draperies: Assume medium weave, half closed

For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(½))

(Ornt - compass orientation)



Version 8