FORM R405-2014

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Bristol Model	Builder Name:	Aaron Simque Homes
Street:		Permit Office:	Columbia County
City, State, Zip:	Lake City , FL , 32024	Permit Number:	
Owner:	Spec House	Jurisdiction:	
Design Location:	FL, Gainesville	County::	Columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	4
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	3119
Conditioned floor area below grade (ft²)	0

7. Windows(393.3 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.33	393.33 ft²
SHGC:	SHGC=0.22	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		6.087 ft.
Area Weighted Average SHGC:		0.220

8. Floor Types (3119.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	3119.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (2103.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1770.00 ft²
b. Frame - Wood, Adjacent	R=13.0	333.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (3119.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=30.0	3119.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Garage	8	623.8

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	60.0	SEER:15.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	60.0	HSPF:8.50

14. Hot water systems
a. Electric — Cap: 40 gallons, EF: 0.920

b. Conservation features
None

15. Credits — CF, Pstat

COLUMBIA COUNTY BUILDING DEPARTMENT
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Code Compliance
PLANS EXAMINER

Glass/Floor Area: 0.126

Total Proposed Modified Loads: 63.57
Total Baseline Loads: 72.09

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____
DATE: 2-21-17

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____
DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____
DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.2.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and an envelope leakage test report in accordance with R402.4.1.2.
- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with Section 803 of RESNET Standards, is not greater than 0.030 Qn for whole house.

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PROJECT

Title:	Bristol Model	Bedrooms:	4	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	3119	Lot #	
Owner:	Spec House	Total Stories:	1	Block/SubDivision:	Preserves
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Aaron Simque Homes	Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL , 32024
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	3119	24952

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	3119	24952	Yes	6	4	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	235 ft	0	3119 ft²	----	0.33	0.33	0.34

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	3749 ft²	0 ft²	Medium	0.85	No	0.9	No	0	33.7

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	3119 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	3119 ft²	0.11	Wood

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WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
____	1	N	Exterior	Frame - Wood	Main	13	13	8	9		123.0 ft²	0.625	0.23	0.75	0
____	2	W	Exterior	Frame - Wood	Main	13	8	4	9		75.0 ft²	0.625	0.23	0.75	0
____	3	N	Exterior	Frame - Wood	Main	13	29	4	9		264.0 ft²	0.625	0.23	0.75	0
____	4	W	Exterior	Frame - Wood	Main	13	16	4	9		147.0 ft²	0.625	0.23	0.75	0
____	5	N	Exterior	Frame - Wood	Main	13	14	8	9		132.0 ft²	0.625	0.23	0.75	0
____	6	E	Exterior	Frame - Wood	Main	13	39	4	9		354.0 ft²	0.625	0.23	0.75	0
____	7	S	Exterior	Frame - Wood	Main	13	8	4	9		75.0 ft²	0.625	0.23	0.75	0
____	8	E	Exterior	Frame - Wood	Main	13	4	8	9		42.0 ft²	0.625	0.23	0.75	0
____	9	S	Exterior	Frame - Wood	Main	13	13	8	9		123.0 ft²	0.625	0.23	0.75	0
____	10	W	Exterior	Frame - Wood	Main	13	1		9		9.0 ft²	0.625	0.23	0.75	0
____	11	S	Exterior	Frame - Wood	Main	13	13	8	9		123.0 ft²	0.625	0.23	0.75	0
____	12	E	Exterior	Frame - Wood	Main	13	33	8	9		303.0 ft²	0.625	0.23	0.75	0
____	13	S	Garage	Frame - Wood	Main	13	37		9		333.0 ft²		0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	S	Insulated	Main	None	.4	3		6	8	20 ft²
_____	2	S	Insulated	Main	None	.4	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	18.0 ft²	17 ft 10 in	1 ft 4 in	None	None
_____	2	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	144.0 ft²	9 ft 6 in	1 ft 4 in	None	None
_____	3	N	5	Vinyl	Low-E Double	Yes	0.33	0.22	54.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	4	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	5	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	16.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	6	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	4.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	7	S	7	Vinyl	Low-E Double	Yes	0.33	0.22	13.3 ft²	12 ft 2 in	1 ft 4 in	None	None
_____	8	S	9	Vinyl	Low-E Double	Yes	0.33	0.22	36.0 ft²	7 ft 6 in	1 ft 4 in	None	None
_____	9	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	10	E	12	Vinyl	Low-E Double	Yes	0.33	0.22	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	520.674 ft²	384 ft²	64 ft	8 ft	1

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INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000254	2079.3	114.15	214.68	.1957	5

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump	None	HSPF:8.5	60 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit	None	SEER: 15	60 kBtu/hr	1800 cfm	0.8	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Garage	0.92	40 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
_____	1	Attic	8	623.8 ft	Attic	155.95	Prop. Leak Free	Garage	--- cfm	93.6 cfm	0.03	0.50	1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

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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

Residential System Sizing Calculation

Summary

Spec House

Lake City, FL 32024

Project Title:
Bristol Model

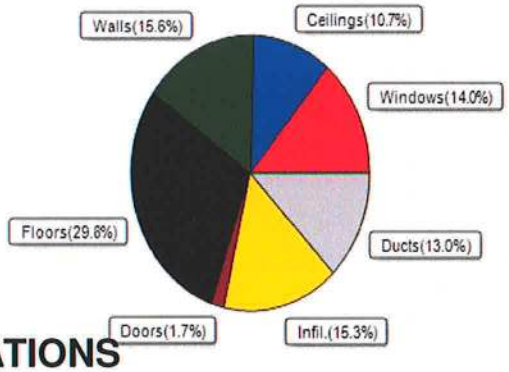
2/21/2017

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	**37212**	**Btuh**		**Total cooling load calculation**	**29038**	**Btuh**
Submitted heating capacity	% of calc	Btuh		Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	161.2	60000		Sensible (SHR = 0.80)	202.4	48000
Heat Pump + Auxiliary(0.0kW)	161.2	60000		Latent	225.6	12000
				Total (Electric Heat Pump)	206.6	60000

WINTER CALCULATIONS

Winter Heating Load (for 3119 sqft)

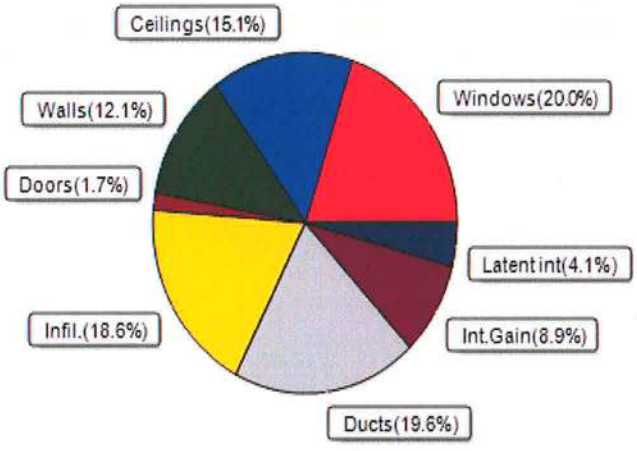
Load component			Load	
Window total	393	sqft	5192	Btuh
Wall total	1670	sqft	5790	Btuh
Door total	40	sqft	640	Btuh
Ceiling total	3119	sqft	3973	Btuh
Floor total	3119	sqft	11092	Btuh
Infiltration	130	cfm	5702	Btuh
Duct loss			4823	Btuh
Subtotal			**37212**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**37212**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 3119 sqft)

Load component			Load	
Window total	393	sqft	5812	Btuh
Wall total	1670	sqft	3510	Btuh
Door total	40	sqft	480	Btuh
Ceiling total	3119	sqft	4371	Btuh
Floor total			0	Btuh
Infiltration	98	cfm	2031	Btuh
Internal gain			2580	Btuh
Duct gain			4934	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			**23718**	**Btuh**
Latent gain(ducts)			749	Btuh
Latent gain(infiltration)			3371	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**5320**	**Btuh**
TOTAL HEAT GAIN			**29038**	**Btuh**



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EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 2-21-17

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House

Project Title:
Bristol Model

Lake City, FL 32024

2/21/2017

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

Window	Type* Panes	SHGC	U	InSh	IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2 NFRC	0.22, 0.33		No	No	N	17.8f	1.3ft	18.0	0.0	18.0	11	11	196 Btuh
2	2 NFRC	0.22, 0.33		No	No	N	9.5ft	1.3ft	144.0	0.0	144.0	11	11	1569 Btuh
3	2 NFRC	0.22, 0.33		No	No	N	1.5ft	1.3ft	54.0	0.0	54.0	11	11	588 Btuh
4	2 NFRC	0.22, 0.33		No	No	E	1.5ft	1.3ft	36.0	0.0	36.0	11	27	989 Btuh
5	2 NFRC	0.22, 0.33		No	No	E	1.5ft	1.3ft	16.0	0.0	16.0	11	27	440 Btuh
6	2 NFRC	0.22, 0.33		No	No	E	1.5ft	1.3ft	4.0	0.0	4.0	11	27	110 Btuh
7	2 NFRC	0.22, 0.33		No	No	S	12.2f	1.3ft	13.3	13.3	0.0	11	13	145 Btuh
8	2 NFRC	0.22, 0.33		No	No	S	7.5ft	1.3ft	36.0	36.0	0.0	11	13	392 Btuh
9	2 NFRC	0.22, 0.33		No	No	S	1.5ft	1.3ft	36.0	36.0	0.0	11	13	392 Btuh
10	2 NFRC	0.22, 0.33		No	No	E	1.5ft	1.3ft	36.0	0.0	36.0	11	27	989 Btuh
	Window Total								393 (sqft)					5812 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.09	13.0/0.6	105.0	2.2	231 Btuh
2	Frame - Wood - Ext	0.09	13.0/0.6	75.0	2.2	165 Btuh
3	Frame - Wood - Ext	0.09	13.0/0.6	120.0	2.2	264 Btuh
4	Frame - Wood - Ext	0.09	13.0/0.6	147.0	2.2	323 Btuh
5	Frame - Wood - Ext	0.09	13.0/0.6	78.0	2.2	171 Btuh
6	Frame - Wood - Ext	0.09	13.0/0.6	298.0	2.2	655 Btuh
7	Frame - Wood - Ext	0.09	13.0/0.6	41.7	2.2	92 Btuh
8	Frame - Wood - Ext	0.09	13.0/0.6	42.0	2.2	92 Btuh
9	Frame - Wood - Ext	0.09	13.0/0.6	87.0	2.2	191 Btuh
10	Frame - Wood - Ext	0.09	13.0/0.6	9.0	2.2	20 Btuh
11	Frame - Wood - Ext	0.09	13.0/0.6	87.0	2.2	191 Btuh
12	Frame - Wood - Ext	0.09	13.0/0.6	267.0	2.2	587 Btuh
13	Frame - Wood - Adj	0.09	13.0/0.0	313.0	1.7	528 Btuh
	Wall Total			1670 (sqft)		3510 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	12.0	240 Btuh
2	Insulated - Garage	20.0	12.0	240 Btuh
	Door Total	40 (sqft)		480 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/Light/Shingle	0.032	30.0/0.0	3119.0	1.40	4371 Btuh
	Ceiling Total			3119 (sqft)		4371 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	3119 (ft-perimeter)	0.0	0 Btuh
	Floor Total		3119.0 (sqft)		0 Btuh

	Envelope Subtotal:	14173 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title: Bristol Model

Climate:FL_GAINESVILLE_REGIONAL_A

Lake City, FL 32024

2/21/2017

Infiltration	Type Natural	Average ACH 0.23	Volume(cuft) 24952		Wall Ratio 1		CFM= 97.7	Load 2031 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230			+	Appliance 1200	Load 2580 Btuh
					Sensible Envelope Load:			18784 Btuh
Duct load	Extremely sealed, Supply(R8.0-Attic), Return(R8.0-Attic)				(DGM of 0.263)			4934 Btuh
					Sensible Load All Zones			**23718 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Project Title: Bristol Model

Climate:FL_GAINESVILLE_REGIONAL_A

Lake City, FL 32024

2/21/2017

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**18784 Btuh**
	Sensible Duct Load	4934 Btuh
	Total Sensible Zone Loads	**23718 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**23718 Btuh**
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	3371 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	749 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5320 Btuh**
	TOTAL GAIN	**29038 Btuh**

EQUIPMENT

1. Central Unit	#	60000 Btuh

*Key: Window types (Panes - 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

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Lake City, FL 32024

Project Title:
Bristol Model
Building Type: User

2/21/2017

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 0.22	Vinyl	0.33	N	18.0	13.2	238 Btuh
2	2, NFRC 0.22	Vinyl	0.33	N	144.0	13.2	1901 Btuh
3	2, NFRC 0.22	Vinyl	0.33	N	54.0	13.2	713 Btuh
4	2, NFRC 0.22	Vinyl	0.33	E	36.0	13.2	475 Btuh
5	2, NFRC 0.22	Vinyl	0.33	E	16.0	13.2	211 Btuh
6	2, NFRC 0.22	Vinyl	0.33	E	4.0	13.2	53 Btuh
7	2, NFRC 0.22	Vinyl	0.33	S	13.3	13.2	176 Btuh
8	2, NFRC 0.22	Vinyl	0.33	S	36.0	13.2	475 Btuh
9	2, NFRC 0.22	Vinyl	0.33	S	36.0	13.2	475 Btuh
10	2, NFRC 0.22	Vinyl	0.33	E	36.0	13.2	475 Btuh
	Window Total				393.3(sqft)		5192 Btuh

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.086)	13.0/0.6	105	3.45	362 Btuh
2	Frame - Wood	- Ext	(0.086)	13.0/0.6	75	3.45	259 Btuh
3	Frame - Wood	- Ext	(0.086)	13.0/0.6	120	3.45	414 Btuh
4	Frame - Wood	- Ext	(0.086)	13.0/0.6	147	3.45	507 Btuh
5	Frame - Wood	- Ext	(0.086)	13.0/0.6	78	3.45	269 Btuh
6	Frame - Wood	- Ext	(0.086)	13.0/0.6	298	3.45	1028 Btuh
7	Frame - Wood	- Ext	(0.086)	13.0/0.6	42	3.45	144 Btuh
8	Frame - Wood	- Ext	(0.086)	13.0/0.6	42	3.45	145 Btuh
9	Frame - Wood	- Ext	(0.086)	13.0/0.6	87	3.45	300 Btuh
10	Frame - Wood	- Ext	(0.086)	13.0/0.6	9	3.45	31 Btuh
11	Frame - Wood	- Ext	(0.086)	13.0/0.6	87	3.45	300 Btuh
12	Frame - Wood	- Ext	(0.086)	13.0/0.6	267	3.45	921 Btuh
13	Frame - Wood	- Adj	(0.089)	13.0/0.0	313	3.55	1111 Btuh
	Wall Total				1670(sqft)		5790 Btuh

Doors	Type	Storm	Ueff.	Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)	20	16.0	320 Btuh
2	Insulated - Garage,	n	(0.400)	20	16.0	320 Btuh
	Door Total			40(sqft)		640Btuh

Ceilings	Type/Color/Surface	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Shing	(0.032)	30.0/0.0	3119	1.3	3973 Btuh
	Ceiling Total			3119(sqft)		3973Btuh

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(1.180)	0.0	235.0 ft(perim.)	47.2	11092 Btuh
	Floor Total			3119 sqft		11092 Btuh

				Envelope Subtotal:		26687 Btuh

Infiltration	Type	Wholehouse ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural	0.31	24952	1.00	130.2	5702 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
Lake City, FL 32024

Project Title:
Bristol Model
Building Type: User

2/21/2017

Duct load	Extremely sealed, R8.0, Supply(Att), Return(Att) (DLM of 0.149)	4823 Btuh
All Zones	**Sensible Subtotal All Zones**	**37212 Btuh**

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	37212 Btuh 0 Btuh 37212 Btuh

EQUIPMENT

1. Electric Heat Pump	#	60000 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

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

RE: 983787 - SIMQUE - LOT 112 PRESERVE

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

Site Information:
Customer Info: Aaron Simque Cosnt Project Name: 983787 Model: Bristol
Lot/Block: 112 Subdivision: The Preserve
Address:
City: Columbia Cty State: FL

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

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2014/TPI2007 Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 54 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	T10582203	CJ01A	3/7/17	18	T10582220	T03	3/7/17
2	T10582204	CJ01T	3/7/17	19	T10582221	T03G	3/7/17
3	T10582205	CJ02A	3/7/17	20	T10582222	T04	3/7/17
4	T10582206	CJ02T	3/7/17	21	T10582223	T04D	3/7/17
5	T10582207	CJ03A	3/7/17	22	T10582224	T04G	3/7/17
6	T10582208	CJ03T	3/7/17	23	T10582225	T05	3/7/17
7	T10582209	EJ01	3/7/17	24	T10582226	T05D	3/7/17
8	T10582210	EJ02	3/7/17	25	T10582227	T06	3/7/17
9	T10582211	HJ01A	3/7/17	26	T10582228	T07	3/7/17
10	T10582212	HJ01T	3/7/17	27	T10582229	T07G	3/7/17
11	T10582213	PB01	3/7/17	28	T10582230	T08	3/7/17
12	T10582214	PB01G	3/7/17	29	T10582231	T09	3/7/17
13	T10582215	PB04	3/7/17	30	T10582232	T10	3/7/17
14	T10582216	PB04G	3/7/17	31	T10582233	T11	3/7/17
15	T10582217	T01	3/7/17	32	T10582234	T12	3/7/17
16	T10582218	T01G	3/7/17	33	T10582235	T12D	3/7/17
17	T10582219	T02	3/7/17	34	T10582236	T14	3/7/17

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

Truss Design Engineer's Name: Lee, Julius
My license renewal date for the state of Florida is February 28, 2019.

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. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 7,2017

RE: 983787 - SIMQUE - LOT 112 PRESERVE

Site Information:

Customer Info: Aaron Simque Cosnt Project Name: 983787 Model: Bristol
Lot/Block: 112 Subdivision: The Preserve
Address:
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
35	T10582237	T15	3/7/17
36	T10582238	T16	3/7/17
37	T10582239	T17	3/7/17
38	T10582240	T18	3/7/17
39	T10582241	T18G	3/7/17
40	T10582242	T19	3/7/17
41	T10582243	T20	3/7/17
42	T10582244	T21	3/7/17
43	T10582245	T22	3/7/17
44	T10582246	T23	3/7/17
45	T10582247	T24	3/7/17
46	T10582248	T25	3/7/17
47	T10582249	TG01	3/7/17
48	T10582250	TG02	3/7/17
49	T10582251	TG03	3/7/17
50	T10582252	TG04	3/7/17
51	T10582253	TG05	3/7/17
52	T10582254	TG06	3/7/17
53	T10582255	TG07	3/7/17
54	T10582256	TG08	3/7/17

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	CJ01A	Jack-Open	2	1	T10582203
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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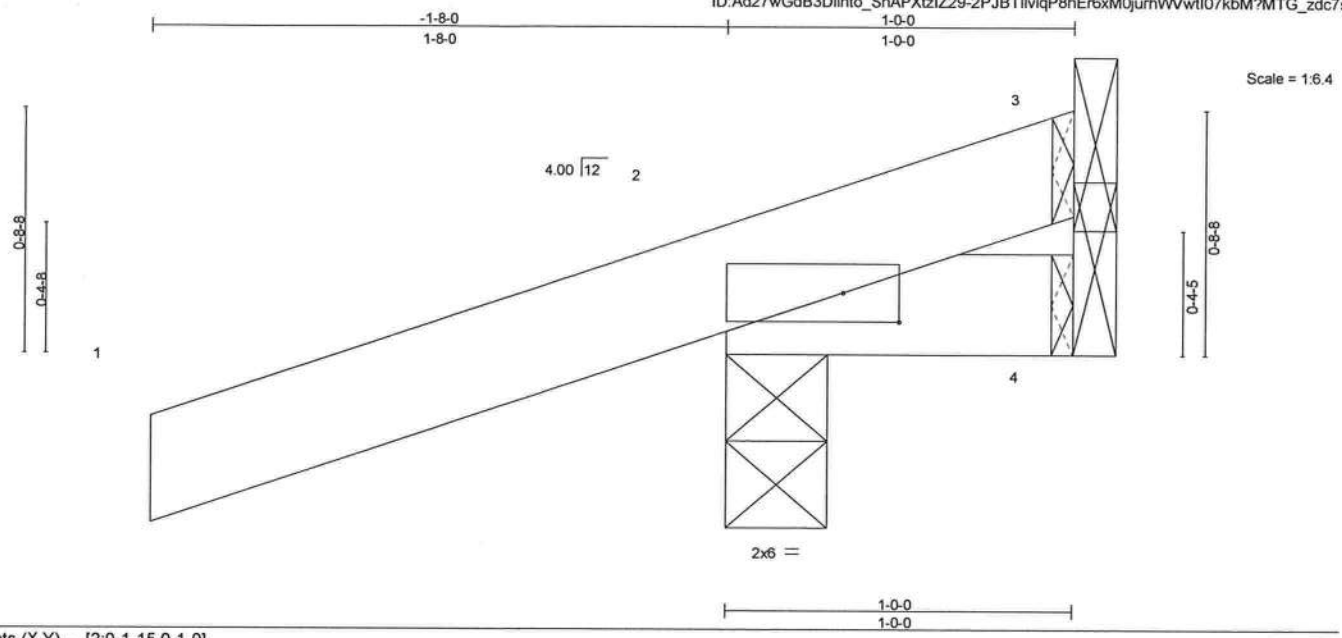

Plate Offsets (X,Y)-- [2:0-1-15,0-1-0]

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	0.19	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 6 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=-9/Mechanical, 2=192/0-3-8, 4=-20/Mechanical
Max Horz 2=52(LC 8)
Max Uplift 3=-9(LC 1), 2=-189(LC 8), 4=-20(LC 1)
Max Grav 3=14(LC 8), 2=192(LC 1), 4=25(LC 8)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 3, 4 except (jt=lb) 2=189.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582204
983787	CJ01T	JACK-OPEN TRUSS	4	1	Job Reference (optional)	

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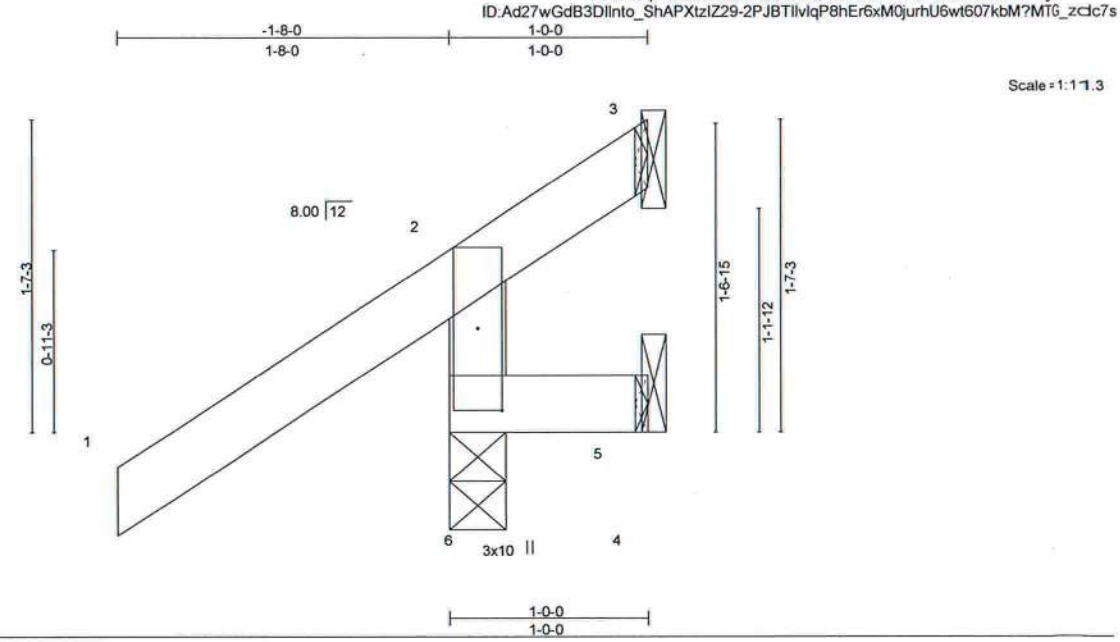

Plate Offsets (X,Y)-- [6:0-5-1,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.00	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(TL)	0.00	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 7 lb	FT = 20%

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

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

REACTIONS. (lb/size) 6=236/0-3-8, 3=-56/Mechanical, 5=-18/Mechanical
Max Horz 6=66(LC 12)
Max Uplift 6=-106(LC 12), 3=-56(LC 1), 5=-18(LC 1)
Max Grav 6=236(LC 1), 3=29(LC 16), 5=14(LC 3)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;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 3-6-0 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, 5 except (jt=lb) 6=106.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582205
983787	CJ02A	Jack-Open	2	1	Job Reference (optional)	

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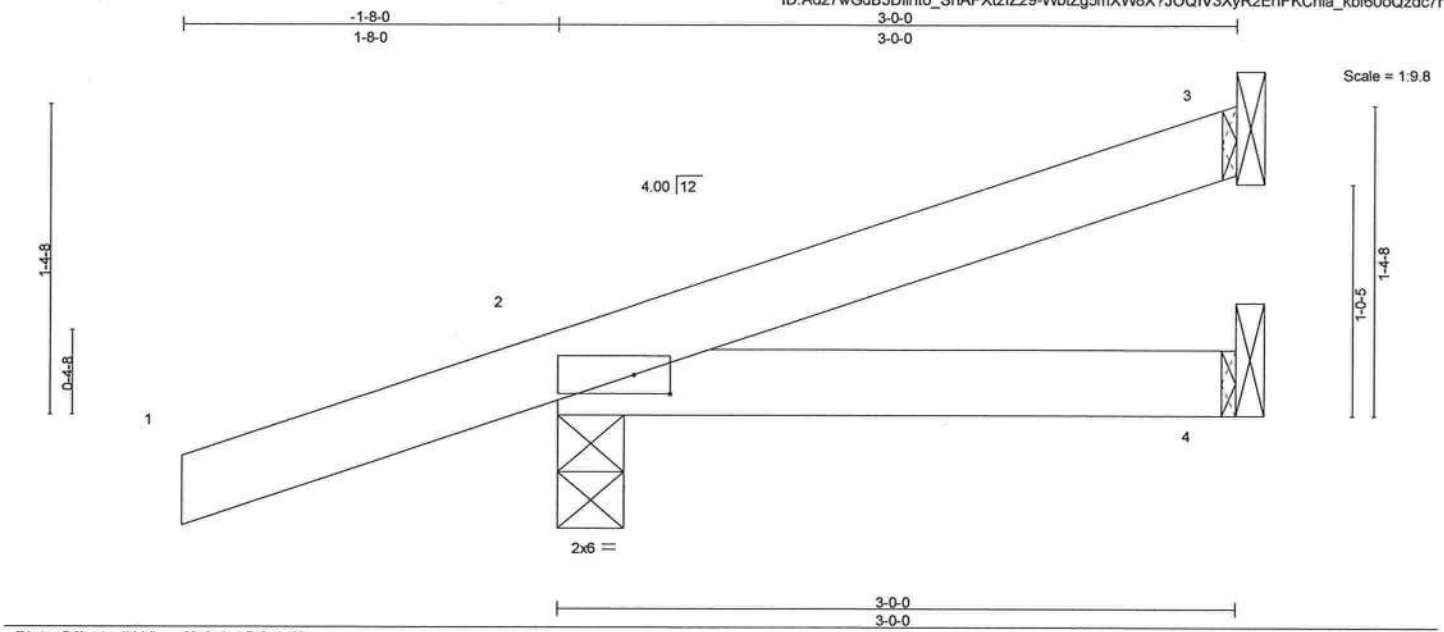

Plate Offsets (X,Y)-- [2:0-1-15,0-1-0]

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	0.19	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 12 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=56/Mechanical, 2=225/0-3-8, 4=26/Mechanical
Max Horz 2=84(LC 8)
Max Uplift 3=-46(LC 8), 2=-196(LC 8), 4=-23(LC 9)
Max Grav 3=56(LC 1), 2=225(LC 1), 4=45(LC 3)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 3, 4 except (jt=lb) 2=196.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582206
983787	CJ02T	JACK-OPEN TRUSS	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Mar 06 16:07:20 2017 Page 1

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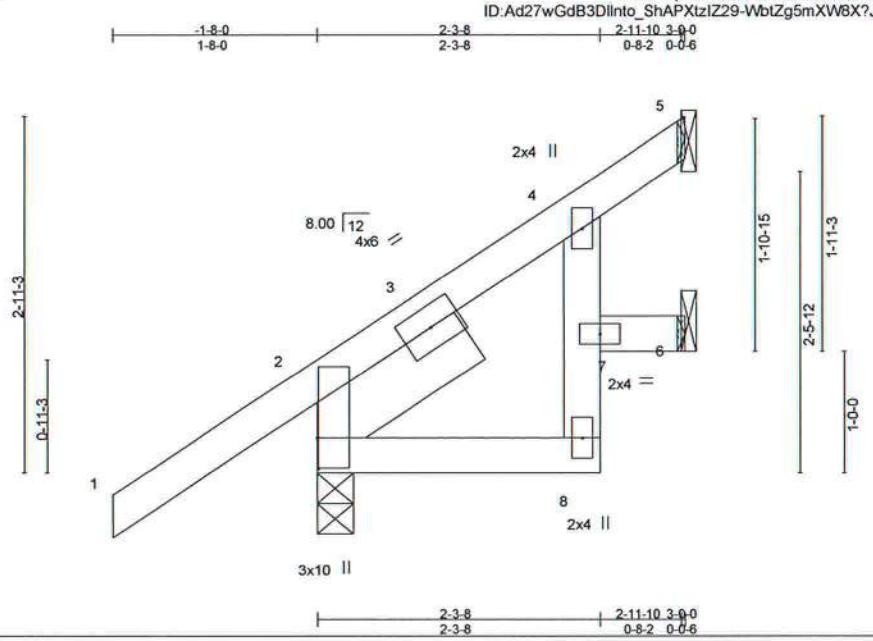

Plate Offsets (X,Y)-- [2:0-3-0,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	0.00	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(TL)	-0.00	8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-8: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-6-0

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

REACTIONS. (lb/size) 5=41/Mechanical, 2=224/0-3-8, 6=42/Mechanical
Max Horz 2=142(LC 12)
Max Uplift 5=-40(LC 12), 2=-69(LC 12), 6=-47(LC 12)
Max Grav 5=48(LC 19), 2=224(LC 1), 6=55(LC 19)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;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 3-6-0 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) 5, 2, 6.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	
983787	CJ03A	Jack-Open	2	1	Job Reference (optional)	T10582207

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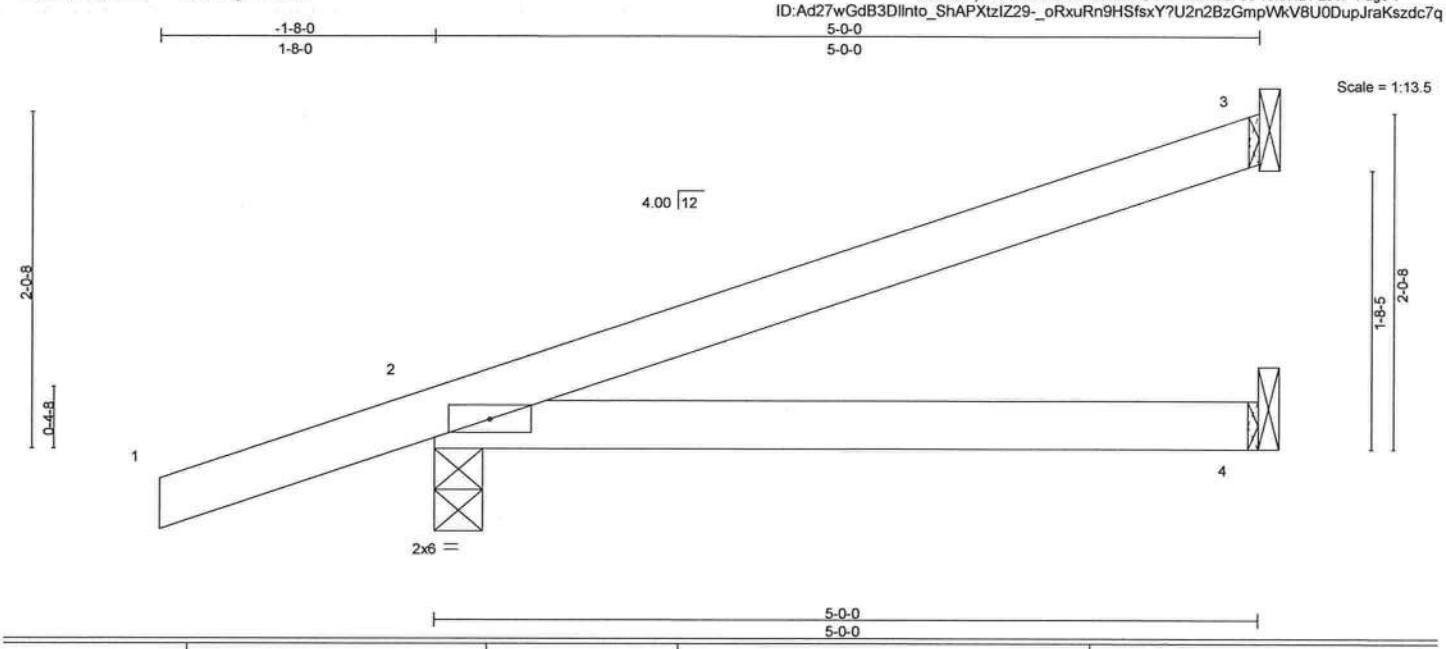

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.06	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(TL)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 18 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=103/Mechanical, 2=304/0-3-8, 4=48/Mechanical
Max Horz 2=116(LC 8)
Max Uplift 3=-87(LC 8), 2=-250(LC 8), 4=-41(LC 8)
Max Grav 3=103(LC 1), 2=304(LC 1), 4=78(LC 3)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 3, 4 except (jt=lb) 2=250.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582208
983787	CJ03T	JACK-OPEN TRUSS	4	1	Job Reference (optional)	

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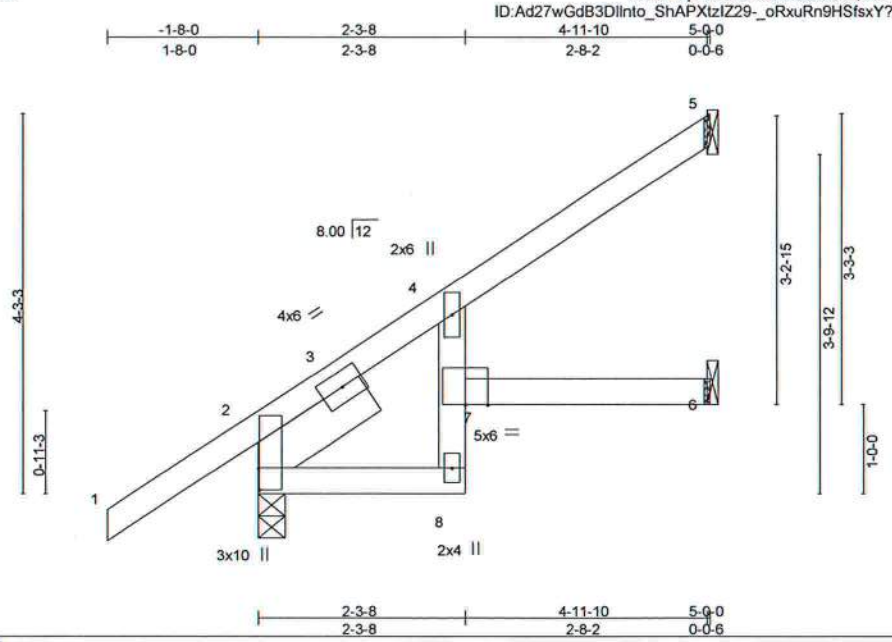

Plate Offsets (X,Y)-- [2:0-3-0,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.05	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(TL)	-0.07	6-7	>808	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-8: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-6-0

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

REACTIONS. (lb/size) 5=98/Mechanical, 2=288/0-3-8, 6=70/Mechanical
Max Horz 2=206(LC 12)
Max Uplift 5=-106(LC 12), 2=-76(LC 12), 6=-43(LC 12)
Max Grav 5=116(LC 19), 2=288(LC 1), 6=84(LC 3)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;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 3-6-0 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) 2, 6 except (jt=lb) 5=106.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582209
983787	EJ01	Jack-Partial	5	1	Job Reference (optional)	

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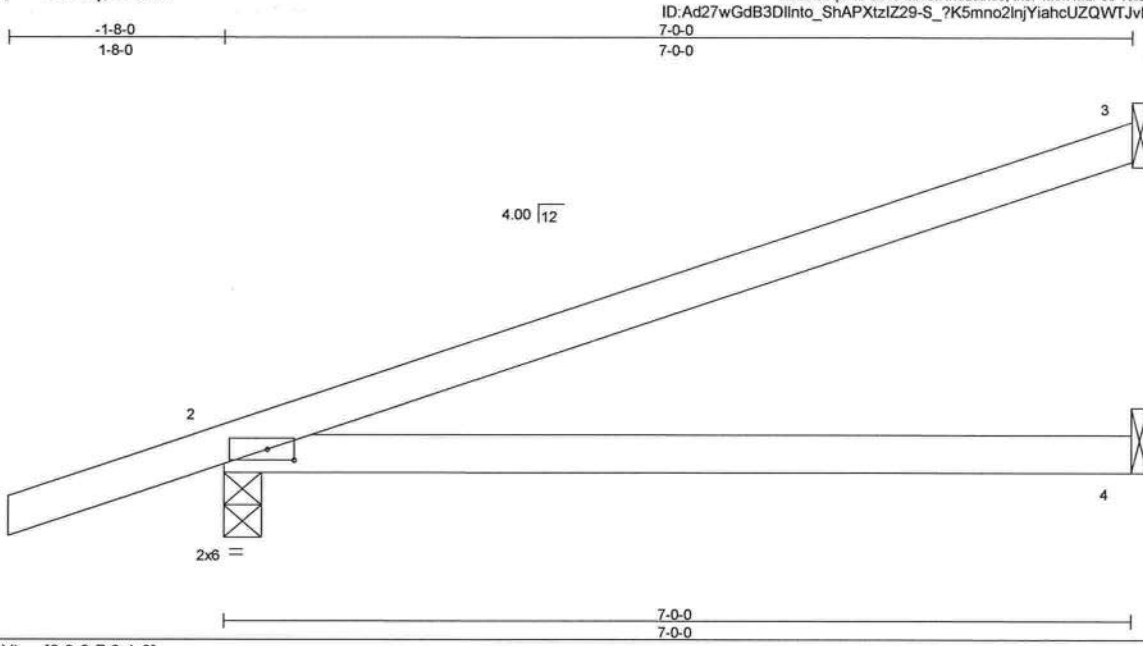

Plate Offsets (X,Y)-- [2:0-2-7,0-1-0]

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	0.60	Vert(LL)	0.21	4-7	>399	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(TL)	-0.18	4-7	>455	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 24 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=146/Mechanical, 2=391/0-3-8, 4=66/Mechanical
Max Horz 2=106(LC 8)
Max Uplift 3=-81(LC 8), 2=-232(LC 8), 4=-52(LC 8)
Max Grav 3=146(LC 1), 2=391(LC 1), 4=110(LC 3)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 3, 4 except (jt=lb) 2=232.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582210
983787	EJ02	JACK-PARTIAL TRUSS	2	1	Job Reference (optional)	

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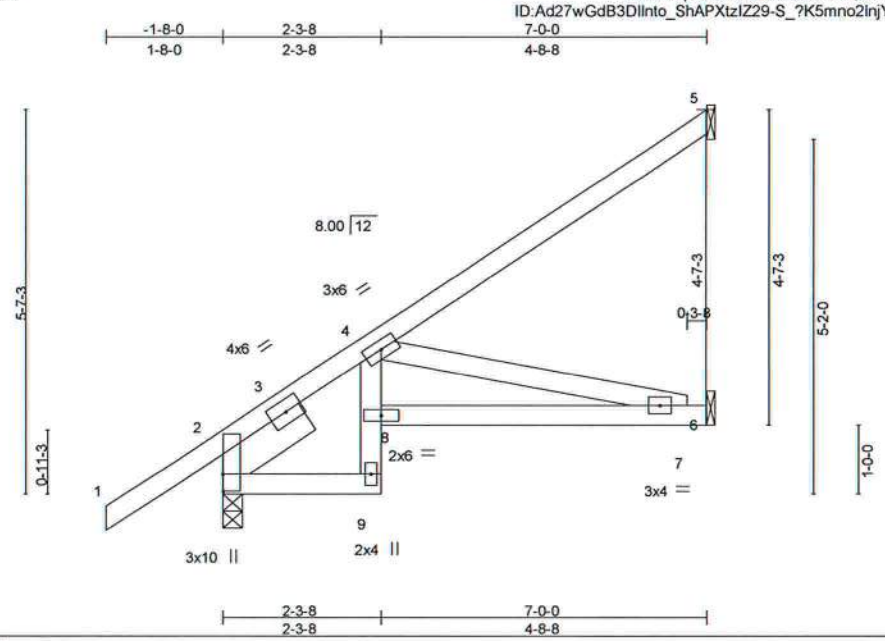

Plate Offsets (X,Y)-- [2:0-3-0,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(TL)	-0.10	7-8	>808	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(TL)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 39 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-9: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-6-0

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

REACTIONS. (lb/size) 5=116/Mechanical, 2=357/0-3-8, 6=130/Mechanical
Max Horz 2=186(LC 12)
Max Uplift 5=-84(LC 12), 2=-36(LC 12), 6=-46(LC 12)
Max Grav 5=130(LC 19), 2=357(LC 1), 6=150(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-9=-235/330, 7-8=-460/646
WEBS 4-7=-663/472

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed;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 3-6-0 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) 5, 2, 6.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE T10582211
983787	HJ01A	Diagonal Hip Girder	1	1	Job Reference (optional)

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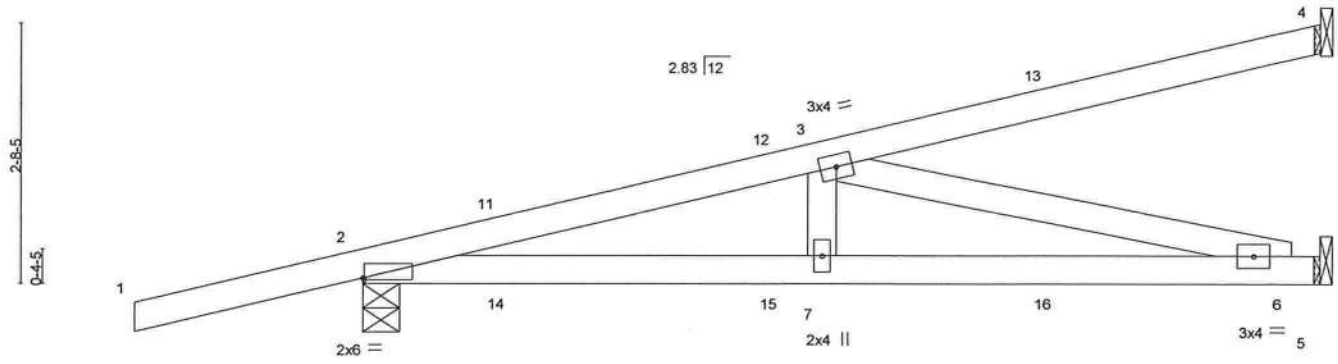

4-9-0 / 4-9-0 — 9-10-13 / 5-1-13

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

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	0.50	Vert(LL)	0.11	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(TL)	-0.14	6-7	>828	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(TL)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 42 lb	FT = 20%

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

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

REACTIONS. (lb/size) 4=139/Mechanical, 2=487/0-4-9, 5=270/Mechanical
Max Horz 2=149(LC 4)
Max Uplift 4=-121(LC 4), 2=-316(LC 4), 5=-216(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-937/629, 11-12=-896/644, 3-12=-895/638
BOT CHORD 2-14=-695/892, 14-15=-695/892, 7-15=-695/892, 7-16=-695/892, 6-16=-695/892
WEBS 3-6=-918/715

NOTES- (9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; 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 3-6-0 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) except (jt=lb) 4=121, 2=316, 5=216.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 66 lb up at 1-5-12, 89 lb down and 66 lb up at 1-5-12, 25 lb down and 40 lb up at 4-3-11, 25 lb down and 40 lb up at 4-3-11, and 43 lb down and 86 lb up at 7-1-10, and 43 lb down and 86 lb up at 7-1-10 on top chord, and 54 lb down and 48 lb up at 1-5-12, 54 lb down and 48 lb up at 1-5-12, 17 lb down and 32 lb up at 4-3-11, 17 lb down and 32 lb up at 4-3-11, and 34 lb down and 56 lb up at 7-1-10, and 34 lb down and 56 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 13=-53(F=-27, B=-27) 14=58(F=29, B=29) 15=-6(F=-3, B=-3) 16=-40(F=-20, B=-20)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582212
983787	HJ01T	DIAGONAL HIP GIRDER	2	1	Job Reference (optional)	

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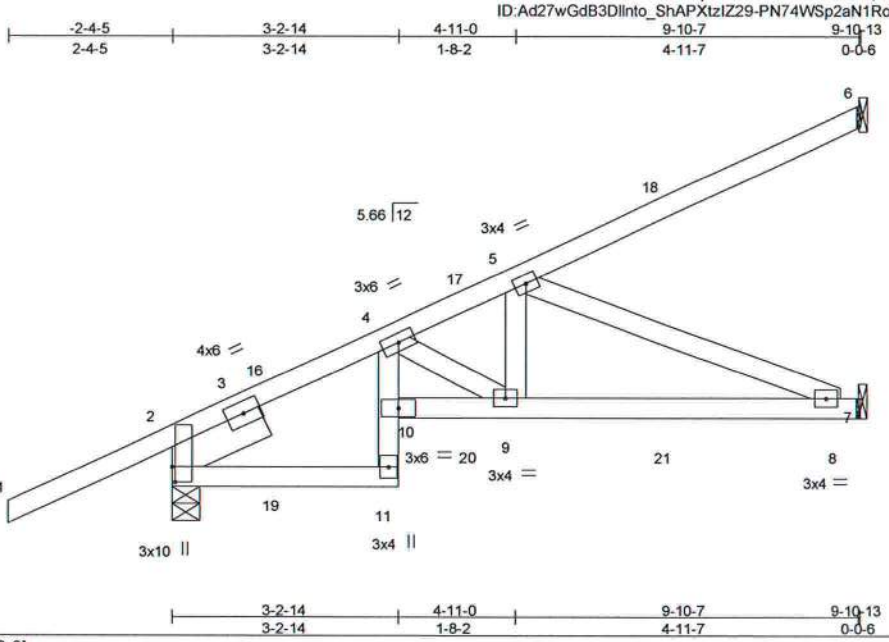

Plate Offsets (X,Y)-- [2:0-2-12,0-0-9]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.09	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(TL)	-0.12	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(TL)	-0.06	7	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 54 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-6-0

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

REACTIONS. (lb/size) 6=122/Mechanical, 2=500/0-4-15, 7=321/Mechanical
Max Horz 2=272(LC 8)
Max Uplift 6=-133(LC 8), 2=-385(LC 8), 7=-301(LC 8)
Max Grav 6=122(LC 1), 2=549(LC 32), 7=373(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-160/259, 3-16=-644/348, 4-16=-574/333, 4-17=-891/611, 5-17=-815/613
BOT CHORD 2-19=-447/419, 11-19=-447/419, 10-20=-752/733, 9-20=-752/733, 9-21=-738/789, 8-21=-738/789
WEBS 5-9=-249/308, 5-8=-852/797

NOTES- (9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 3-6-0 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) except (jt=lb) 6=133, 2=385, 7=301.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 133 lb up at 1-5-12, 92 lb down and 133 lb up at 1-5-12, 92 lb down and 37 lb up at 4-3-11, 92 lb down and 37 lb up at 4-3-11, and 138 lb down and 113 lb up at 7-1-10, and 138 lb down and 113 lb up at 7-1-10 on top chord, and 15 lb down and 49 lb up at 1-5-12, 15 lb down and 49 lb up at 1-5-12, 50 lb down and 57 lb up at 4-3-11, 50 lb down and 57 lb up at 4-3-11, and 64 lb down and 59 lb up at 7-1-10, and 64 lb down and 59 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-54, 11-12=-20, 7-10=-20

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 16=68(F=34, B=34) 18=-43(F=-22, B=-22) 20=-30(F=-15, B=-15) 21=-82(F=-41, B=-41)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582213
983787	PB01	GABLE	16	1	Job Reference (optional)	

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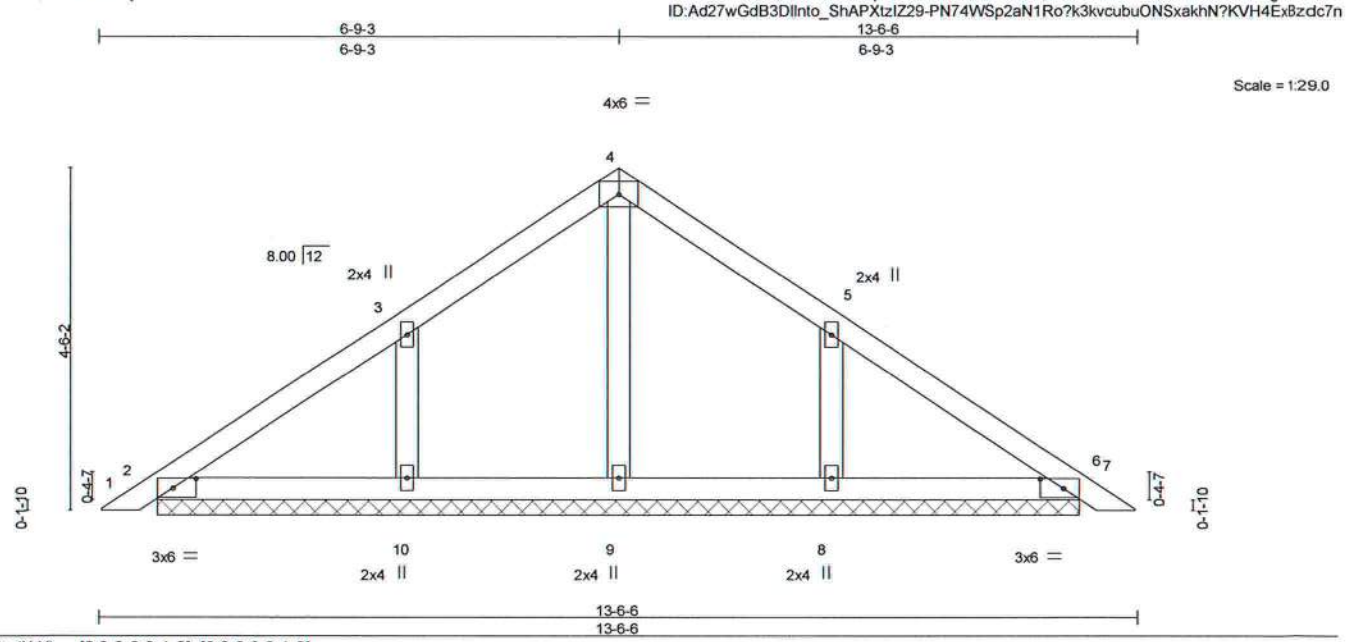

Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [6:0-3-9,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 53 lb	FT = 20%

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

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

REACTIONS. All bearings 12-0-2.
(lb) - Max Horz 2=108(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-127(LC 13), 10=-127(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 8=290(LC 20), 10=291(LC 19)

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

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=127, 10=127.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	
983787	PB01G	GABLE	2	1	Job Reference (optional)	T10582214

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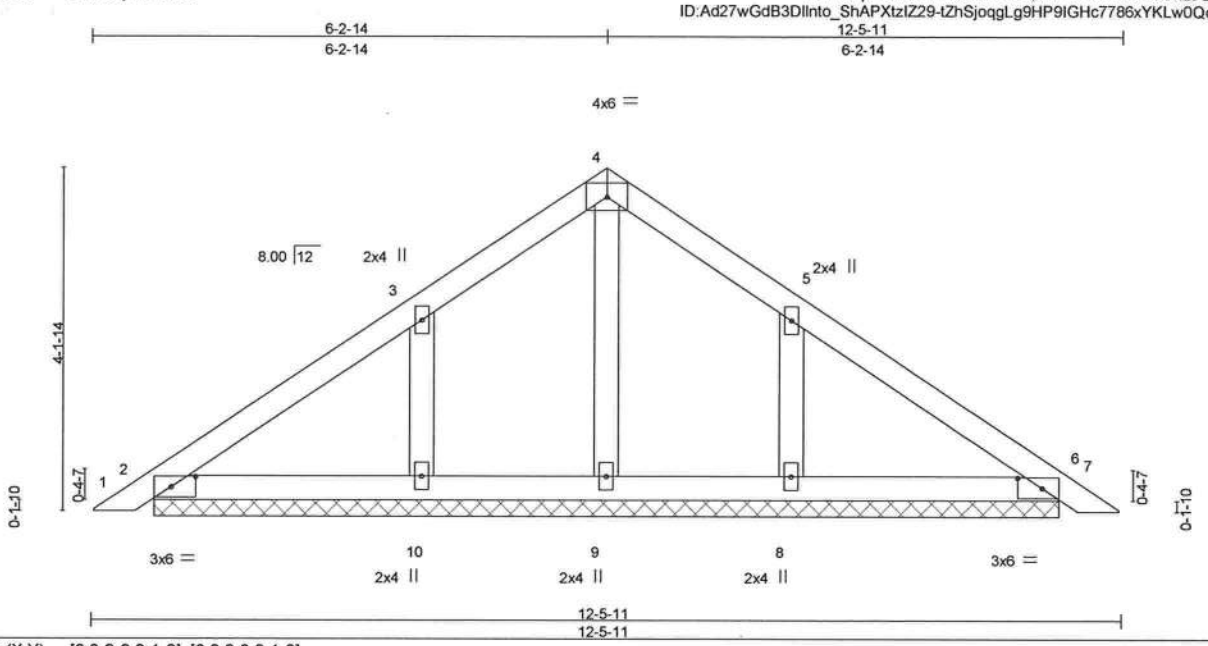

Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [6:0-3-9,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 49 lb	FT = 20%

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

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

REACTIONS. All bearings 10-11-7.
(lb) - Max Horz 2=-99(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-119(LC 13), 10=-119(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 8=276(LC 20), 10=277(LC 19)

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

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=119, 10=119.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582215
983787	PB04	GABLE	6	1	Job Reference (optional)	

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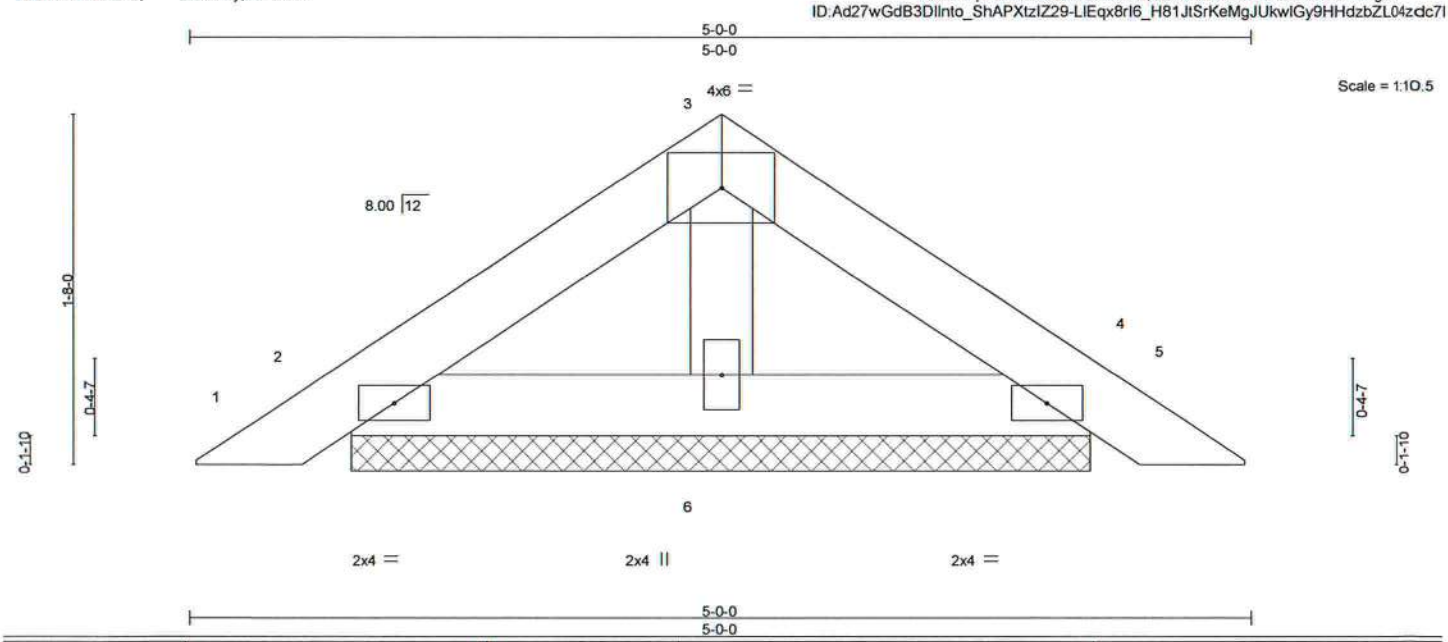

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 15 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=98/3-5-12, 4=98/3-5-12, 6=114/3-5-12
Max Horz 2=-37(LC 10)
Max Uplift 2=-32(LC 12), 4=-35(LC 13), 6=-7(LC 12)

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

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582216
983787	PB04G	PIGGYBACK TRUSS	1	1	Job Reference (optional)	

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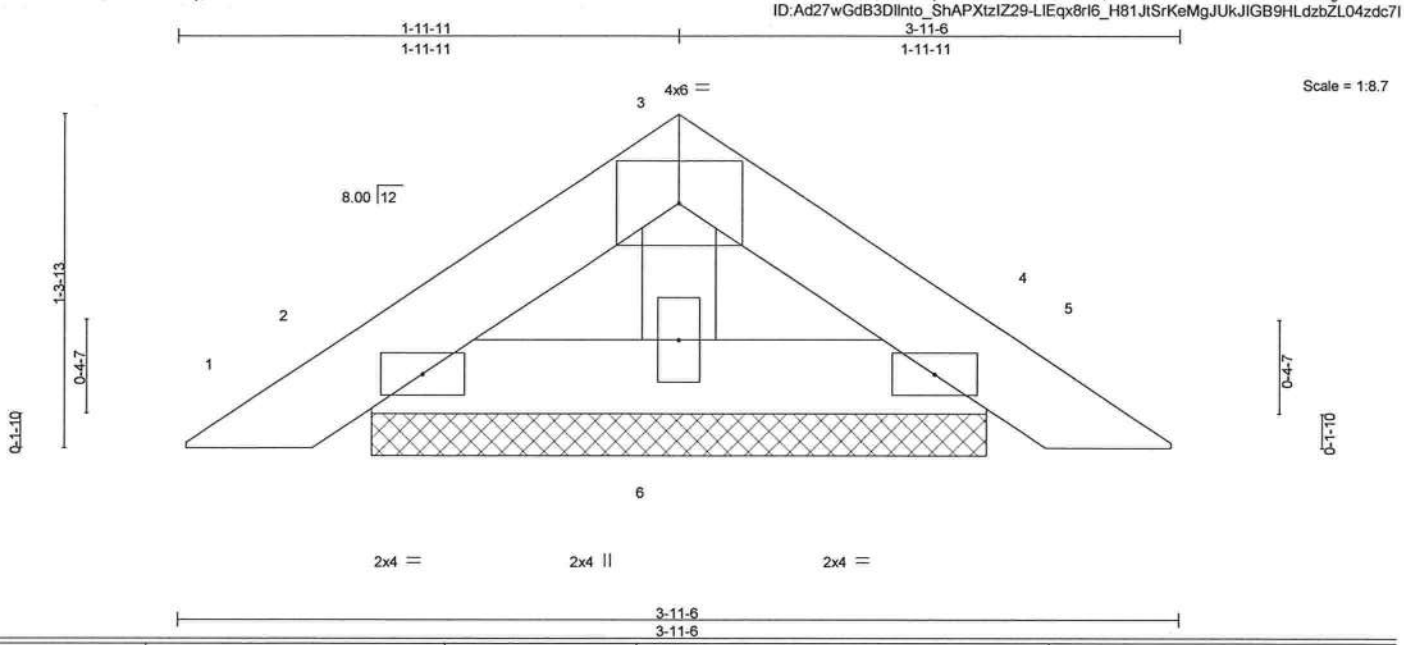

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.02	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(TL)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=78/2-5-2, 4=78/2-5-2, 6=76/2-5-2
Max Horz 2=28(LC 11)
Max Uplift 2=-26(LC 12), 4=-29(LC 13), 6=-3(LC 12)

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

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582217
983787	T01	Common Truss	1	1	Job Reference (optional)	

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-1-8-0	5-7-10	11-0-0	16-4-7	22-0-0	23-8-0
1-8-0	5-7-10	5-4-7	5-4-7	5-7-10	1-8-0

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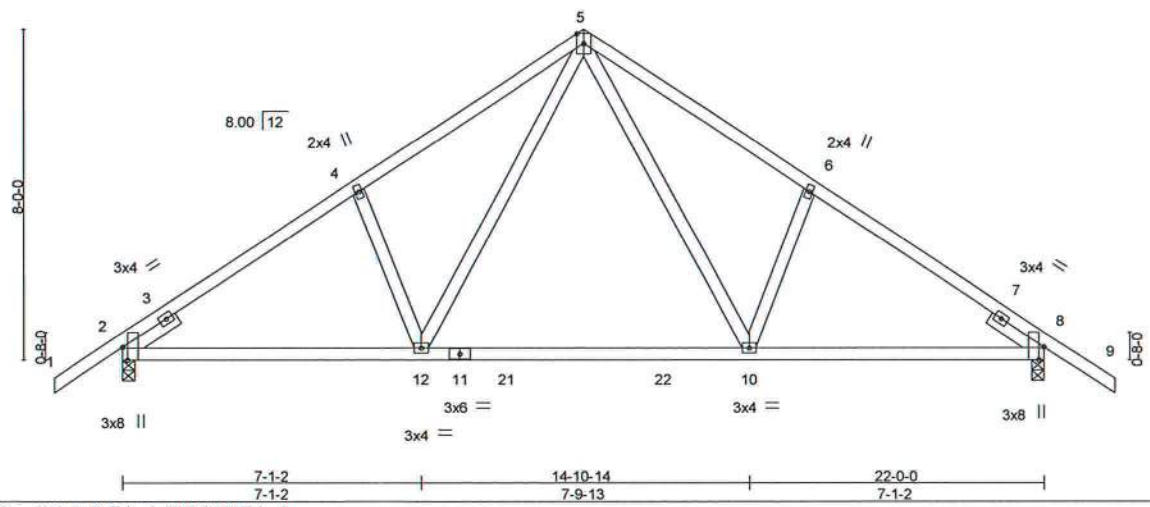

7-1-2	14-10-14	22-0-0
7-1-2	7-9-13	7-1-2

Plate Offsets (X,Y)-- [2:0-3-13,Edge], [8:0-3-13,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	0.64	Vert(LL)	-0.25	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(TL)	-0.56	10-12	>469	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(TL)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 120 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1138/0-3-8, 8=1138/0-3-8
Max Horz 2=263(LC 11)
Max Uplift 2=-456(LC 12), 8=-456(LC 13)
Max Grav 2=1142(LC 19), 8=1142(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-509/31, 3-4=-1531/662, 4-5=-1513/747, 5-6=-1513/747, 6-7=-1531/662, 7-8=-509/31
BOT CHORD 2-12=-506/1377, 11-12=-226/920, 11-21=-226/920, 21-22=-226/920, 10-22=-226/920, 8-10=-401/1222
WEBS 5-10=-396/814, 6-10=-300/289, 5-12=-396/813, 4-12=-300/289

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=456, 8=456.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-9=-54, 12-13=-20, 10-12=-80(F=-60), 10-17=-20

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T01G	GABLE	1	1	T10582218

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

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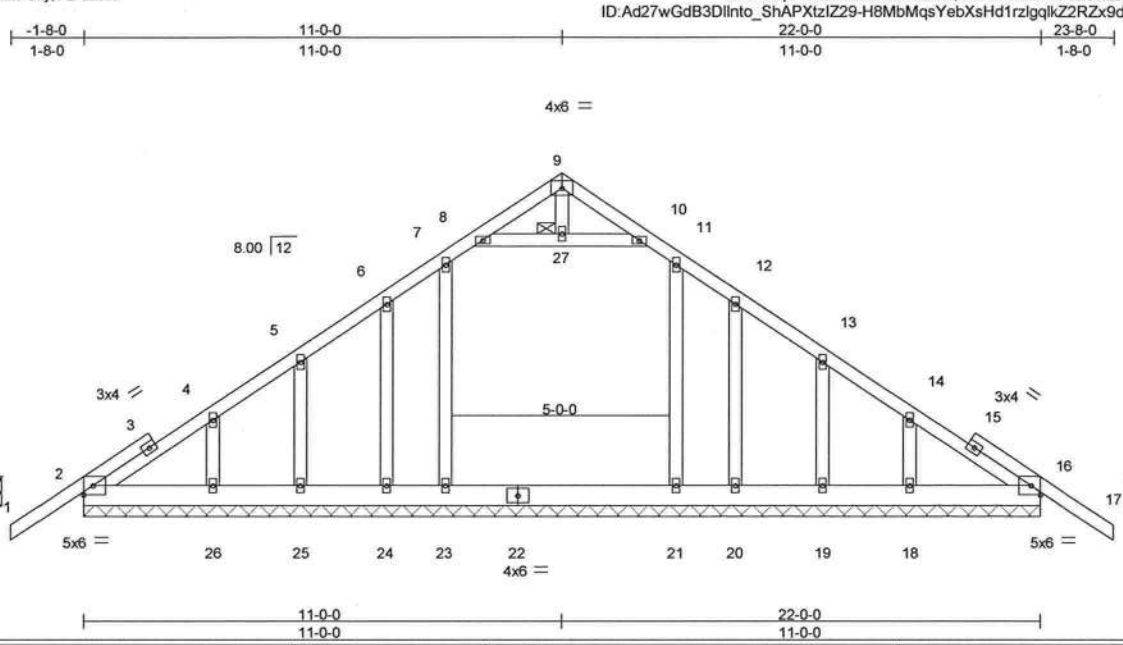

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.01	17	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	-0.01	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.00	16	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 151 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 27

REACTIONS. All bearings 22-0-0.

(lb) - Max Horz 2=252(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 23, 21 except 24=-101(LC 12), 25=-111(LC 12), 26=-123(LC 12), 20=-107(LC 13), 19=-111(LC 13), 18=-125(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 24, 25, 26, 20, 19, 18 except 2=268(LC 1), 16=268(LC 1), 23=405(LC 19), 21=375(LC 20)

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

NOTES- (11)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 23, 21 except (jt=lb) 24=101, 25=111, 26=123, 20=107, 19=111, 18=125.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582219
983787	T02	COMMON TRUSS	6	1	Job Reference (optional)	

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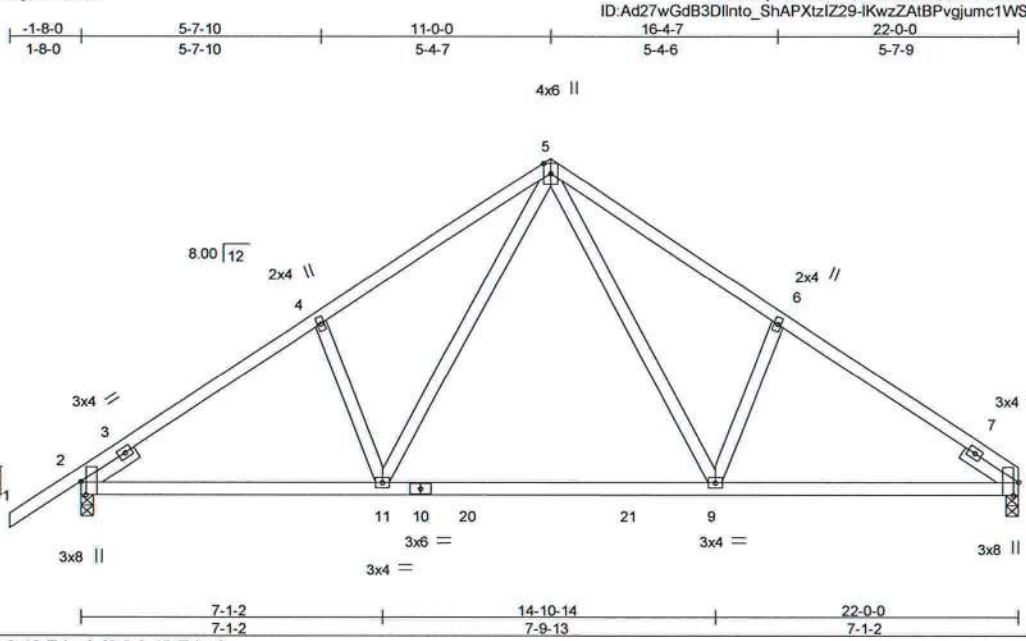

Plate Offsets (X,Y)-- [2:0-3-13,Edge], [8:0-3-13,Edge]

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	0.64	Vert(LL)	-0.25	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(TL)	-0.56	9-11	>474	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(TL)	0.04	8	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 117 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=1045/0-3-8, 2=1142/0-3-8
Max Horz 2=251(LC 9)
Max Uplift 8=-398(LC 13), 2=-457(LC 12)
Max Grav 8=1052(LC 20), 2=1144(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-513/34, 3-4=-1533/669, 4-5=-1518/754, 5-6=-1513/762, 6-7=-1545/675, 7-8=-504/104
BOT CHORD 2-11=-530/1361, 10-11=-250/905, 10-20=-250/905, 20-21=-250/905, 9-21=-250/905, 8-9=-458/1212
WEBS 5-9=-409/831, 6-9=-297/295, 5-11=-395/812, 4-11=-301/289

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=398, 2=457.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-8=-54, 11-16=-20, 9-11=-80(F=-60), 9-12=-20

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582220
983787	T03	PIGGYBACK BASE TRUSS	6	1	Job Reference (optional)	

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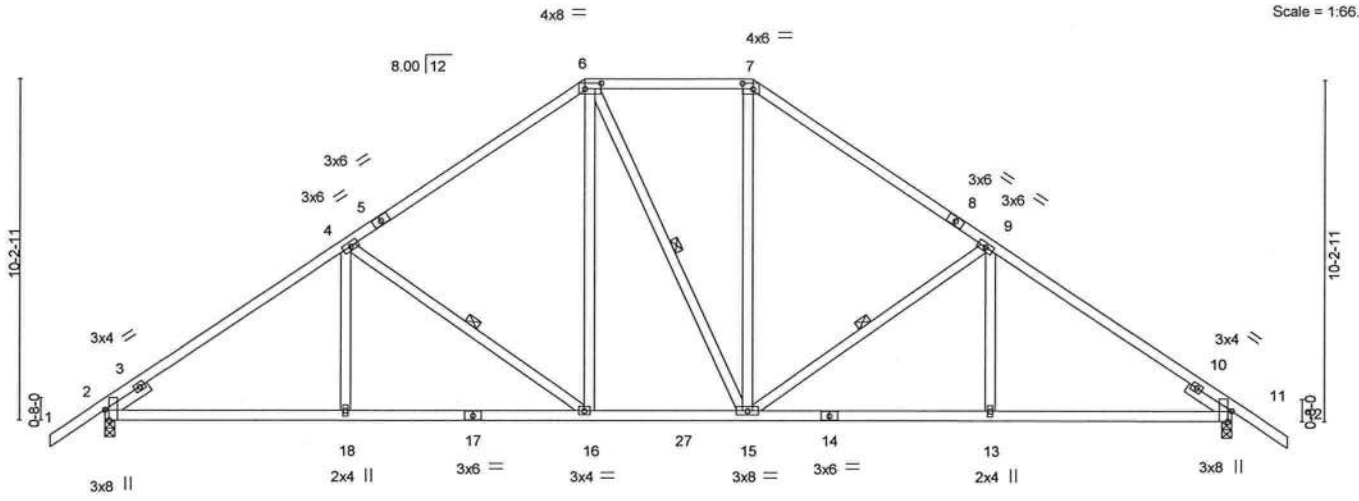
1-8-0	7-2-4	7-1-12	5-0-0	7-1-12	7-2-4	1-8-0

Scale = 1:66.3



7-2-4	14-4-0	19-4-0	26-5-12	33-8-0
7-2-4	7-1-12	5-0-0	7-1-12	7-2-4

Plate Offsets (X,Y)-- [2:0-3-13,Edge], [6:0-5-12,0-2-0], [7:0-3-12,0-2-0], [11:0-3-13,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	0.65	Vert(LL)	-0.10	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(TL)	-0.29	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(TL)	0.10	11	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 204 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-8-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-10-6 oc bracing.
WEBS	1 Row at midpt 4-16, 6-15, 9-15

REACTIONS. (lb/size) 2=1336/0-3-8, 11=1336/0-3-8
Max Horz 2=-333(LC 10)
Max Uplift 2=-486(LC 12), 11=-486(LC 13)

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

TOP CHORD	2-3=-682/54, 3-4=-1782/788, 4-5=-1365/686, 5-6=-1253/716, 6-7=-1128/682, 7-8=-1254/716, 8-9=-1366/686, 9-10=-1782/788, 10-11=-682/54
BOT CHORD	2-18=-545/1473, 17-18=-545/1473, 16-17=-545/1473, 16-27=-221/1043, 15-27=-221/1043, 14-15=-488/1409, 13-14=-488/1409, 11-13=-488/1409
WEBS	4-18=0/282, 4-16=-608/399, 6-16=-191/489, 7-15=-169/464, 9-15=-607/400, 9-13=0/281

NOTES- (8)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=486, 11=486.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	
983787	T03G	GABLE	1	1	Job Reference (optional)	T10582221

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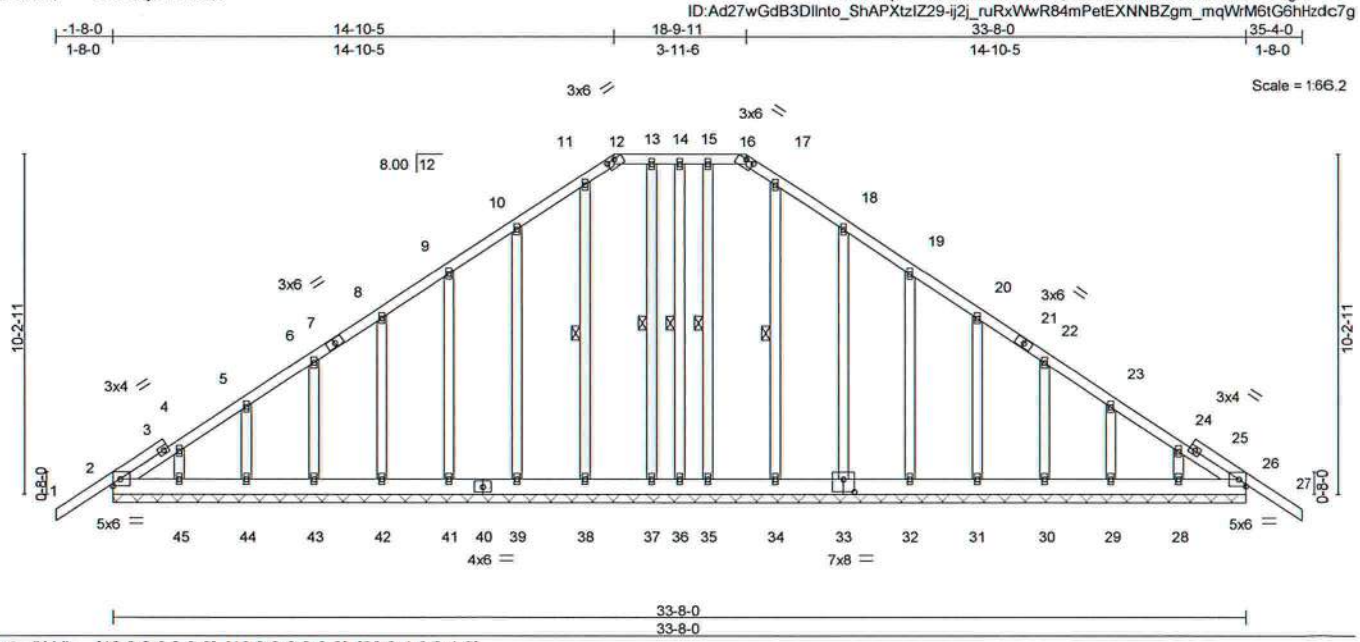

Plate Offsets (X,Y)-- [12:0-3-0,0-0-2], [16:0-3-0,0-0-2], [33:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.01	27	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	-0.01	27	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(TL)	0.01	26	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 294 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 14-36, 17-34, 15-35, 11-38, 13-37

REACTIONS. All bearings 33-8-0.
(lb) - Max Horz 2=-333(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 28, 34, 35, 45, 38, 26, 37 except 29=-119(LC 13), 30=-110(LC 13), 31=-113(LC 13), 32=-109(LC 13), 33=-132(LC 13), 44=-119(LC 12), 43=-110(LC 12), 42=-113(LC 12), 41=-109(LC 12), 39=-128(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 36, 28, 29, 30, 31, 32, 33, 34, 35, 45, 44, 43, 42, 41, 39, 38, 26, 37

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-335/217, 3-4=-327/230, 4-5=-277/213, 24-25=-271/221, 25-26=-278/210
BOT CHORD 2-45=-211/305, 44-45=-211/305, 43-44=-211/305, 42-43=-211/305, 41-42=-211/305, 40-41=-211/305, 39-40=-211/305, 38-39=-211/305, 37-38=-211/305, 36-37=-211/305, 35-36=-211/305, 34-35=-211/305, 33-34=-211/305, 32-33=-211/305, 31-32=-211/305, 30-31=-211/305, 29-30=-211/305, 28-29=-211/305, 26-28=-211/305

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 36, 28, 34, 35, 45, 38, 26, 37 except (jt=lb) 29=119, 30=110, 31=113, 32=109, 33=132, 44=119, 43=110, 42=113, 41=109, 39=128.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	
983787	T04	ATTIC TRUSS	3	1	Job Reference (optional)	T10582222

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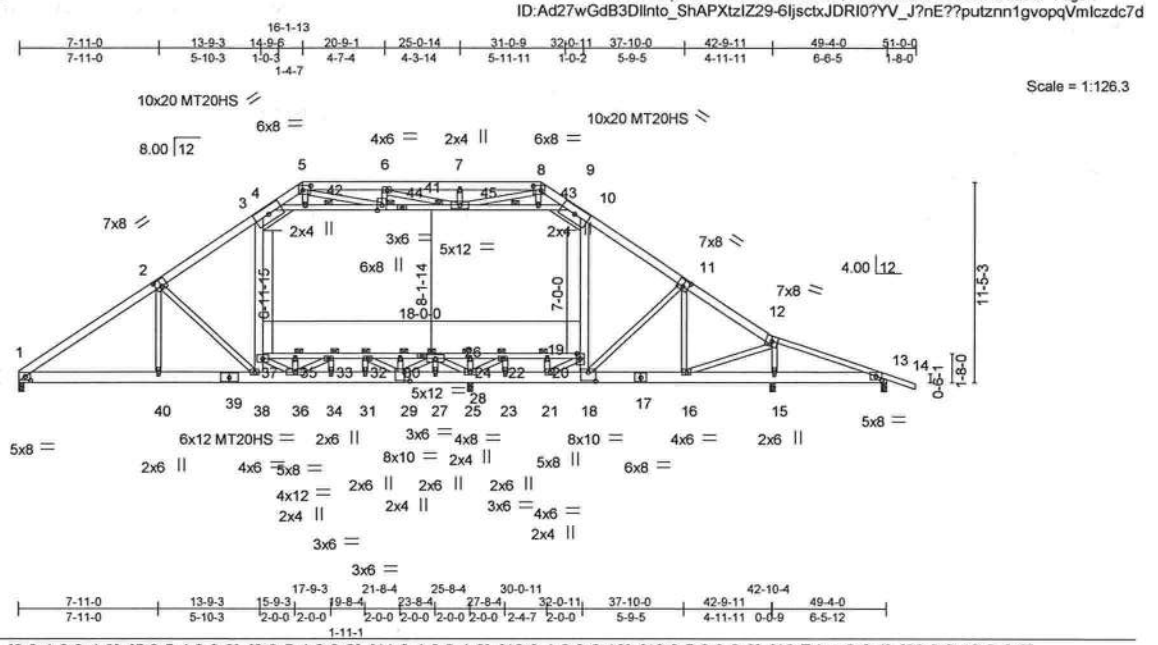

Plate Offsets (X,Y)-- [1:0-3-10,0-2-8], [2:0-4-0,0-4-8], [5:0-5-4,0-3-0], [8:0-5-4,0-3-0], [11:0-4-0,0-4-8], [13:0-4-0,0-2-10], [18:0-5-0,0-6-0], [19:Edge,0-2-4], [29:0-3-12,0-6-0], [44:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.39	37	>795	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.93	Vert(TL)	-0.75	38-40	>412	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(TL)	0.07	13	n/a	n/a		
BCDL	10.0	Code	FBC2014/TPI2007	(Matrix-M)		Attic	-0.28	19-37	795	360	Weight: 485 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
12-14: 2x4 SP No.2, 3-4,9-10: 2x8 SP 2400F 2.0E
BOT CHORD 2x8 SP 2400F 2.0E *Except*
28-37,19-28: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
3-38,10-18: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
2-2-0 oc bracing: 24-26, 22-24
3-10-0 oc bracing: 35-37
3-11-0 oc bracing: 30-33
4-0-0 oc bracing: 33-35
6-0-0 oc bracing: 26-30
10-0-0 oc bracing: 20-22, 19-20
WEBS 1 Row at midpt 4-44, 9-45
JOINTS 1 Brace at Jt(s): 24, 22, 35, 33, 44, 45, 30, 26, 20

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 1=-364(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-365(LC 12), 15=-640(LC 8), 13=-522(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 1=1990(LC 20), 15=1477(LC 25), 25=2725(LC 18), 13=1038(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3210/710, 2-3=-2680/644, 3-4=-1961/681, 4-5=-925/465, 5-6=-1590/896, 6-7=-1517/959, 7-8=-1517/959, 8-9=-761/517, 9-10=-2009/681, 10-11=-2468/639, 11-12=-2496/501, 12-13=-2669/742
BOT CHORD 1-40=-482/2798, 39-40=-482/2795, 38-39=-482/2795, 36-38=-267/2503, 34-36=-167/3842, 31-34=-167/3842, 29-31=-167/3842, 27-29=-291/1116, 25-27=-291/1116, 23-25=-101/551, 21-23=-101/551, 18-21=-165/1716, 17-18=-225/2105, 16-17=-225/2105, 15-16=-583/2551, 13-15=-594/2523, 35-37=-1968/124, 33-35=-1968/124, 32-33=-2041/0, 30-32=-793/265, 28-30=-721/282, 26-28=-721/282, 24-26=-283/2422, 22-24=-283/2422, 20-22=-211/1724, 19-20=-211/1724
WEBS 2-40=-83/429, 2-38=-904/466, 3-37=-40/1087, 18-19=-207/1361, 10-19=-105/793, 12-16=-595/772, 12-15=-1240/655, 4-42=-1560/348, 42-44=-1548/347, 41-44=-1339/259, 41-45=-1339/259, 43-45=-2172/406, 9-43=-2190/406, 24-25=-438/4, 22-23=-107/260, 19-21=-1511/163, 35-36=-415/0, 36-37=-52/1860, 33-34=-394/111, 11-16=-325/245, 5-44=-625/965, 8-45=-601/1121, 6-45=-264/55, 25-26=-1729/0, 22-25=-1163/292, 33-36=-293/467, 26-27=-528/51, 29-30=-392/0, 26-29=-1/1933, 31-32=-62/370, 29-32=-1446/69, 20-21=-454/48

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T04	ATTIC TRUSS	3	1	T10582222
					Job Reference (optional)

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NOTES- (12)

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) Ceiling dead load (5.0 psf) on member(s). 3-4, 9-10, 4-42, 42-44, 44-45, 43-45, 9-43; Wall dead load (5.0psf) on member(s).3-37, 10-19
8) Bottom chord live load (75.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 35-37, 33-35, 32-33, 30-32, 26-30, 24-26, 22-24, 20-22, 19-20
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 365 lb uplift at joint 1, 640 lb uplift at joint 15 and 522 lb uplift at joint 13.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Attic room checked for L/360 deflection.
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582223
983787	T04D	ATTIC TRUSS	1	3	Job Reference (optional)	

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7.640 s Nov 10 2015 MiTek Industries, Inc. Tue Mar 07 07:55:16 2017 Page 1
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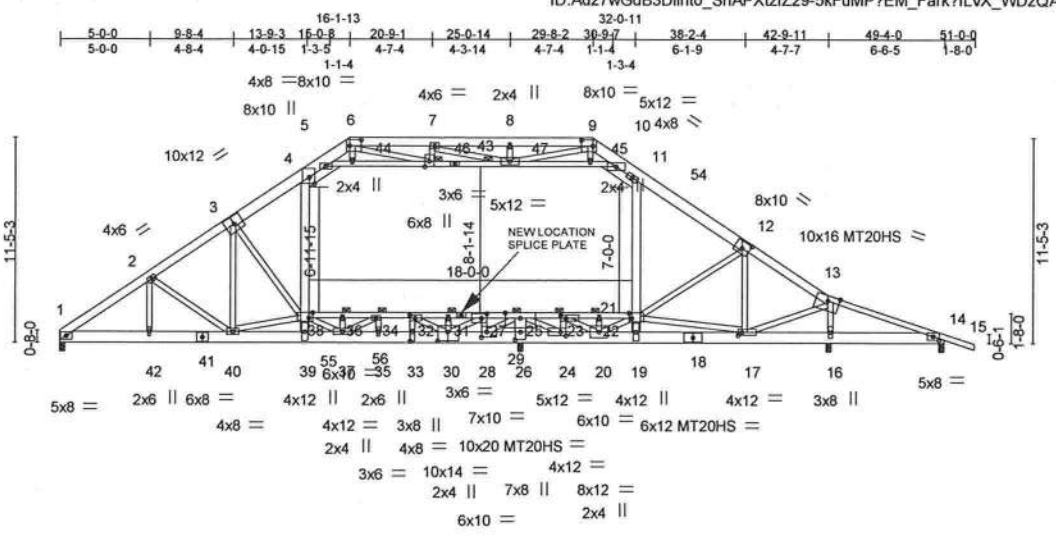

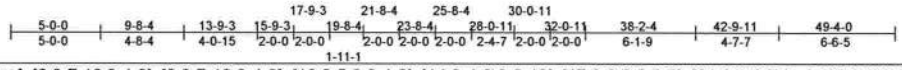

Plate Offsets (X,Y)-- [4:0-4-4,Edge], [6:0-7-12,0-4-0], [9:0-7-12,0-4-0], [12:0-5-0,0-4-8], [14:0-4-0,0-2-10], [17:0-2-8,0-2-0], [21:0-2-0,Edge], [23:0-3-8,0-2-0], [24:0-3-8,0-2-8], [26:0-5-4,0-3-8], [27:0-3-8,0-3-0], [28:0-3-8,0-3-8], [30:0-6-12,0-6-0], [32:0-3-8,0-2-0], [33:0-6-4,0-1-8], [38:0-2-8,Edge], [46:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.36	37-39	>847	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.97	Vert(TL)	-0.53	37-39	>583	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(TL)	0.06	14	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)		Attic	0.20	21-38	1088	360	Weight: 1570 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
3-6,9-12: 2x8 SP 2400F 2.0E, 13-15: 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
29-38,21-29: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
4-39,11-19: 2x6 SP No.2, 13-17,10-43: 2x4 SP No.2
25-26: 2x8 SP 2400F 2.0E
20-21,37-38,25-28,27-30,34-37,30-32,20-23,24-25: 2x4 SP M 31

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: 28-30,26-28,24-26,20-24.
JOINTS 1 Brace at Jt(s): 25, 23, 22, 36, 34, 31, 46, 47

REACTIONS. All bearings 0-3-8 except (jt=length) 16=0-5-12 (input: 0-3-8), 26=0-9-6 (input: 0-3-8).
(lb) - Max Horz 1=-284(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-1508(LC 5), 16=-3282(LC 4), 14=-262(LC 5), 26=-4493(LC 4)
Max Grav All reactions 250 lb or less at joint(s) except 1=8162(LC 16), 16=14646(LC 17), 14=524(LC 2), 26=23881(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-13503/2521, 2-3=-13943/2662, 3-4=-12197/2371, 4-5=-7950/1618, 5-6=-1681/416, 6-7=-1487/407, 7-8=-787/1242, 8-9=-787/1242, 9-10=-243/1112, 10-11=-8376/1709, 11-54=-9596/1904, 12-54=-12577/2530, 12-13=-14022/2880, 13-14=-1567/345
BOT CHORD 1-42=-2197/11302, 41-42=-2197/11302, 40-41=-2197/11302, 39-40=-3435/17663, 39-55=-3367/17381, 37-55=-3367/17381, 35-37=-3475/18681, 33-35=-3475/18681, 30-33=-3475/18681, 28-30=-6135/1469, 26-28=-20231/3903, 24-26=-20231/3903, 20-24=-7001/1331, 19-20=-2360/9283, 18-19=-2431/9876, 17-18=-2431/9876, 16-17=-419/2309, 14-16=-248/1472, 38-56=-11935/2257, 36-56=-11935/2257, 34-36=-11935/2257, 32-34=-9114/1638, 31-32=-630/2148, 29-31=-627/2124, 27-29=-627/2124, 25-27=-2990/15527, 23-25=-3167/16638, 22-23=-1286/6661, 21-22=-1286/6661
WEBS 3-40=-418/2237, 3-38=-3721/745, 38-39=-860/3487, 4-38=-1502/7767, 19-21=-730/3456, 11-21=-386/1912, 12-21=-2548/742, 13-17=-2293/10439, 13-16=-12962/2824, 5-44=-8006/1566, 44-46=-7911/1550, 43-46=-8786/1521, 43-47=-8786/1521, 45-47=-11867/2330, 10-45=-12024/2358, 25-26=-17814/3296, 23-24=-7565/1517, 20-22=-1756/276, 20-21=-7148/1622, 36-37=-1570/233, 37-38=-989/5296, 34-35=-2796/526, 32-33=-955/4819, 30-31=-1478/229, 27-28=-9348/1706, 12-17=-1637/290, 6-44=-99/629, 9-45=-179/1038, 7-46=-66/345, 6-46=-1098/418, 9-47=-484/1620, 7-47=-1756/356, 25-28=-3102/16697, 27-30=-2952/15796, 34-37=-724/3386, 30-32=-12992/2457, 38-40=-6073/1205, 17-21=-402/2146, 2-42=-581/151, 2-40=-230/825, 20-23=-2516/11916,

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582223
983787	T04D	ATTIC TRUSS	1	3	Job Reference (optional)	

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NOTES- (17)

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc, 2x8 - 2 rows staggered at 0-8-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc, 2x4 - 2 rows staggered at 0-6-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 24-23 2x4 - 1 row at 0-7-0 oc, member 28-27 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-7-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 4-5, 10-11, 5-44, 44-46, 46-47, 45-47, 10-45; Wall dead load (5.0psf) on member(s).4-38, 11-21
10) Bottom chord live load (75.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 36-38, 34-36, 32-34, 31-32, 27-31, 25-27, 23-25, 22-23, 21-22
11) WARNING: Required bearing size at joint(s) 16, 26 greater than input bearing size.
12) Provide metal plate or equivalent at bearing(s) 26 to support reaction shown.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1508 lb uplift at joint 1, 3282 lb uplift at joint 16, 262 lb uplift at joint 14 and 4493 lb uplift at joint 26.
14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2854 lb down and 647 lb up at 32-11-4 on top chord, and 4321 lb down and 980 lb up at 13-10-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) Attic room checked for L/360 deflection.
17) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 1-4=-54, 4-5=-64, 5-6=-54, 6-9=-54, 9-10=-54, 10-11=-64, 13-15=-54, 48-55=-20, 16-55=-265(F=-245), 16-51=-20, 38-56=-40, 21-56=-285(F=-245), 5-10=-10
      Drag: 4-38=-10, 11-21=-10
   Concentrated Loads (lb)
      Vert: 39=-1702(F) 54=-1124
   Trapezoidal Loads (plf)
      Vert: 11=-201(F=-147)-to-13=-319(F=-265)

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T04G	GABLE	1	1	T10582224

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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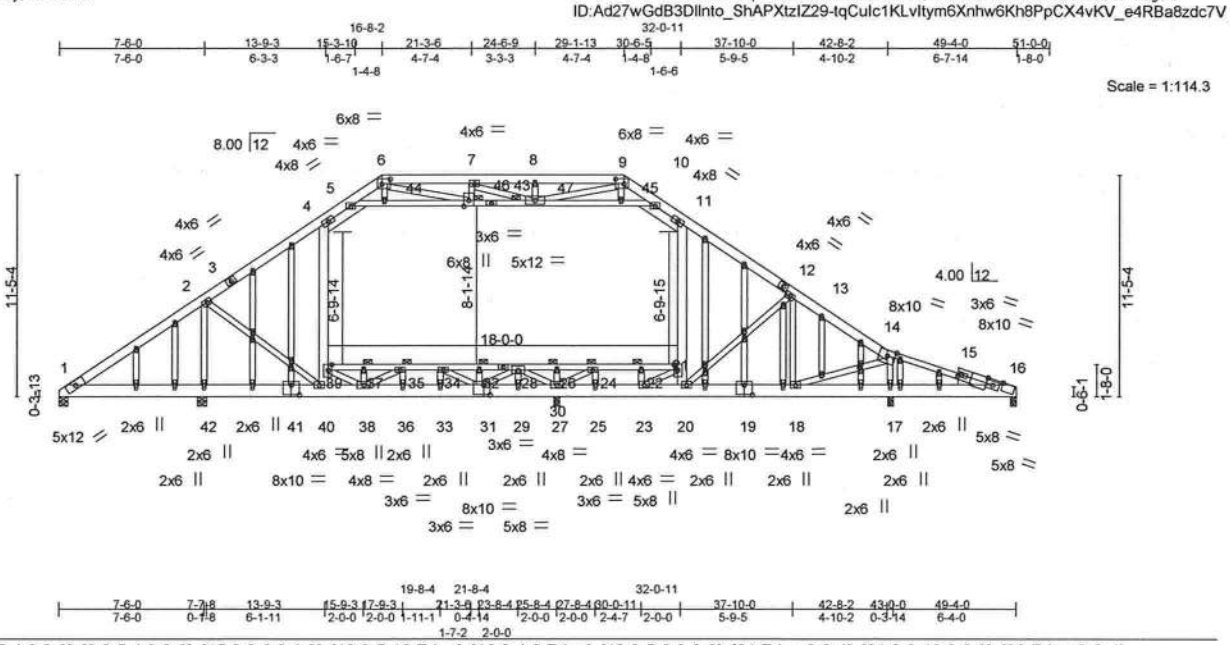

Plate Offsets (X,Y)-- [6:0-5-4,0-3-0], [9:0-5-4,0-3-0], [15:0-2-0,0-1-8], [16:0-5-12,Edge], [16:0-4-0,Edge], [19:0-5-0,0-6-0], [21:Edge,0-2-4], [31:0-3-12,0-6-0], [39:Edge,0-2-4], [41:0-5-0,0-6-0], [46:0-3-8,0-3-0], [52:0-1-10,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.08	35	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.84	Vert(TL)	-0.12	35	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(TL)	0.02	17	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)		Attic	-0.05	21-39	4353	360	Weight: 539 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except* 14-16,15-16: 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except* 30-39,21-30: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 4-40,11-20: 2x6 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-42,40-42,17-18,16-17.
JOINTS 1 Brace at Jt(s): 26, 24, 22, 37, 35, 32, 46, 47

REACTIONS. All bearings 0-3-8 except (jt=length) 1=0-5-8, 42=0-5-8.
(lb) - Max Horz 1=-352(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 16=-220(LC 9), 1=-361(LC 8), 42=-447(LC 12), 17=-556(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 16 except 1=505(LC 1), 42=2346(LC 20), 17=1709(LC 25), 27=2670(LC 18)

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

TOP CHORD 1-2=-734/743, 2-3=-1369/499, 3-4=-1272/525, 4-5=-1161/612, 5-6=-814/463, 6-7=-1455/850, 7-8=-1432/833, 8-9=-1432/833, 9-10=-803/423, 10-11=-1161/610, 11-12=-1355/537, 12-13=-1367/511, 13-14=-1229/395, 14-15=-356/442, 15-16=-366/395
BOT CHORD 1-42=-334/599, 41-42=-334/599, 40-41=-334/599, 38-40=-87/1037, 36-38=-132/2406, 33-36=-132/2406, 31-33=-132/2406, 29-31=-354/541, 27-29=-354/541, 25-27=-124/542, 23-25=-124/542, 20-23=-124/1095, 19-20=-156/994, 18-19=-156/994, 17-18=-321/368, 16-17=-408/403, 37-39=-1063/86, 35-37=-1063/86, 34-35=-1645/43, 32-34=-821/297, 30-32=-748/310, 28-30=-748/310, 26-28=-438/1975, 24-26=-438/1975, 22-24=-140/597, 21-22=-140/597
WEBS 2-42=-2065/530, 2-40=-128/1408, 39-40=-729/194, 4-39=-256/296, 20-21=-32/335, 11-21=-167/266, 14-18=-422/1285, 14-17=-1402/608, 5-44=-848/314, 44-46=-838/314, 43-46=-727/618, 43-47=-727/618, 45-47=-768/293, 10-45=-778/293, 26-27=-416/52, 24-25=-114/466, 22-23=-414/44, 21-23=-772/203, 37-38=-432/58, 38-39=-103/1264, 31-32=-392/52, 28-29=-436/94, 13-18=-415/251, 6-46=-504/899, 9-47=-508/870, 27-28=-1507/150, 24-27=-1623/349, 35-38=-681/106, 31-34=-939/178, 28-31=-227/1538

NOTES- (14)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T04G	GABLE	1	1	T10582224
					Job Reference (optional)

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NOTES- (14)

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 4-5, 10-11, 5-44, 44-46, 46-47, 45-47, 10-45; Wall dead load (5.0psf) on member(s).4-39, 11-21
10) Bottom chord live load (75.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 37-39, 35-37, 34-35, 32-34, 28-32, 26-28, 24-26, 22-24, 21-22
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 220 lb uplift at joint 16, 361 lb uplift at joint 1, 447 lb uplift at joint 42 and 556 lb uplift at joint 17.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Attic room checked for L/360 deflection.
14) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T05	ATTIC TRUSS	3	1	T10582225
					Job Reference (optional)

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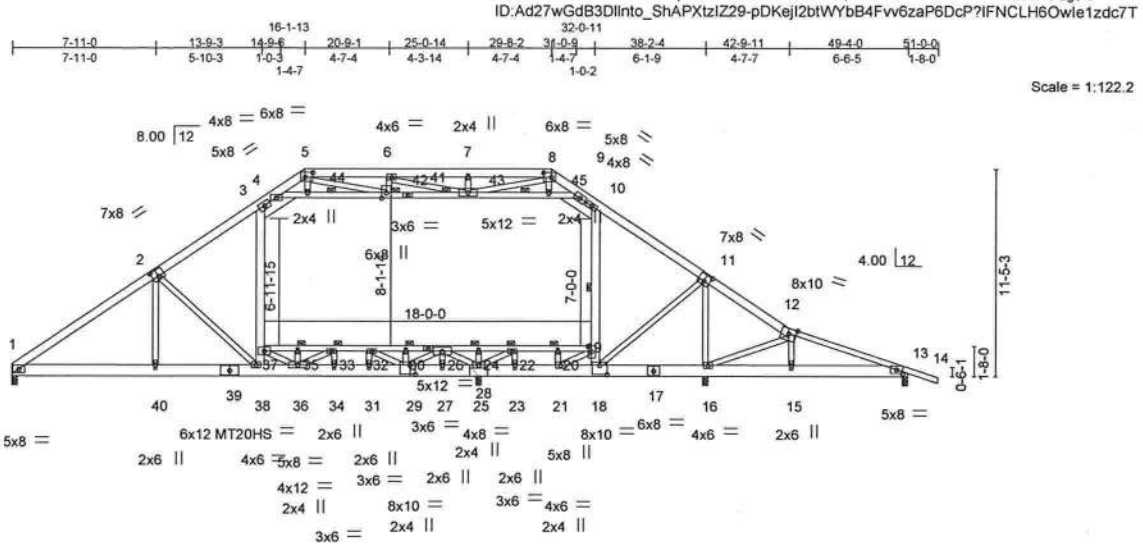

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [5:0-5-4,0-3-0], [8:0-5-4,0-3-0], [11:0-4-0,0-4-8], [13:0-4-0,0-2-10], [18:0-5-0,0-6-0], [19:Edge,0-2-4], [29:0-3-8,0-6-0], [42:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.32	38	>957	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.54	Vert(TL)	-0.68	38-40	>451	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(TL)	0.07	13	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)		Attic	0.20	19-37	1093	360	Weight: 487 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
12-14: 2x4 SP No.2, 3-4,9-10: 2x8 SP 2400F 2.0E
BOT CHORD 2x8 SP 2400F 2.0E *Except*
28-37,19-28: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
3-38,10-18: 2x6 SP No.2
19-21,36-37,25-26,22-25,33-36,29-32,26-29: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 27-29,25-27,23-25,21-23.
WEBS 1 Row at midpt 10-19, 4-42, 9-43
JOINTS 1 Brace at Jt(s): 24, 22, 35, 33, 30, 42, 43, 20

REACTIONS. All bearings 0-3-8 except (jt=length) 25=0-3-9 (input: 0-3-8 + bearing block).
(lb) - Max Horz 1=-284(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-127(LC 12), 16=-564(LC 8), 13=-387(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 1=1952(LC 20), 16=989(LC 25), 25=3014(LC 18), 13=1450(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3094/678, 2-3=-2524/582, 3-4=-1858/625, 4-5=-915/444, 5-6=-1605/895, 6-7=-1521/859, 7-8=-1521/859, 8-9=-739/383, 9-10=-1903/633, 10-11=-2359/539, 11-12=-2808/284, 12-13=-3522/770
BOT CHORD 1-40=-374/2691, 39-40=-374/2688, 38-39=-374/2688, 36-38=-136/2408, 34-36=0/3328, 31-34=0/3328, 29-31=0/3328, 27-29=-201/309, 25-27=-201/309, 18-21=-38/1693, 17-18=-124/2371, 16-17=-124/2371, 15-16=-609/3325, 13-15=-625/3319, 35-37=-1842/6, 33-35=-1842/6, 32-33=-1706/0, 30-32=-374/532, 28-30=-367/548, 26-28=-367/548, 24-26=-254/3335, 22-24=-254/3335, 20-22=-106/2046, 19-20=-106/2046
WEBS 2-40=-57/433, 2-38=-848/404, 3-37=-2/1001, 18-19=-103/1492, 10-19=-85/720, 11-18=-518/214, 11-16=-547/463, 12-16=-1182/701, 4-44=-1463/239, 42-44=-1450/239, 41-42=-1108/395, 41-43=-1108/395, 43-45=-1977/324, 9-45=-1995/325, 24-25=-445/6, 22-23=-27/421, 19-21=-1993/83, 35-36=-420/0, 33-34=-539/127, 31-32=-79/454, 29-30=-395/0, 26-27=-554/26, 36-37=0/1773, 5-42=-537/933, 8-43=-588/1106, 25-26=-1871/0, 22-25=-1619/174, 33-36=-329/676, 29-32=-1666/113, 26-29=-1/2133, 20-21=-404/56

NOTES- (13)

1) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 25 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.

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NOTES- (13)

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (5.0 psf) on member(s). 3-4, 9-10, 4-44, 42-44, 42-43, 43-45, 9-45; Wall dead load (5.0psf) on member(s).3-37, 10-19
9) Bottom chord live load (75.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 35-37, 33-35, 32-33, 30-32, 26-30, 24-26, 22-24, 20-22, 19-20
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 1, 564 lb uplift at joint 16 and 387 lb uplift at joint 13.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Attic room checked for L/360 deflection.
13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T05D	ATTIC TRUSS	1	3	T10582226 Job Reference (optional)

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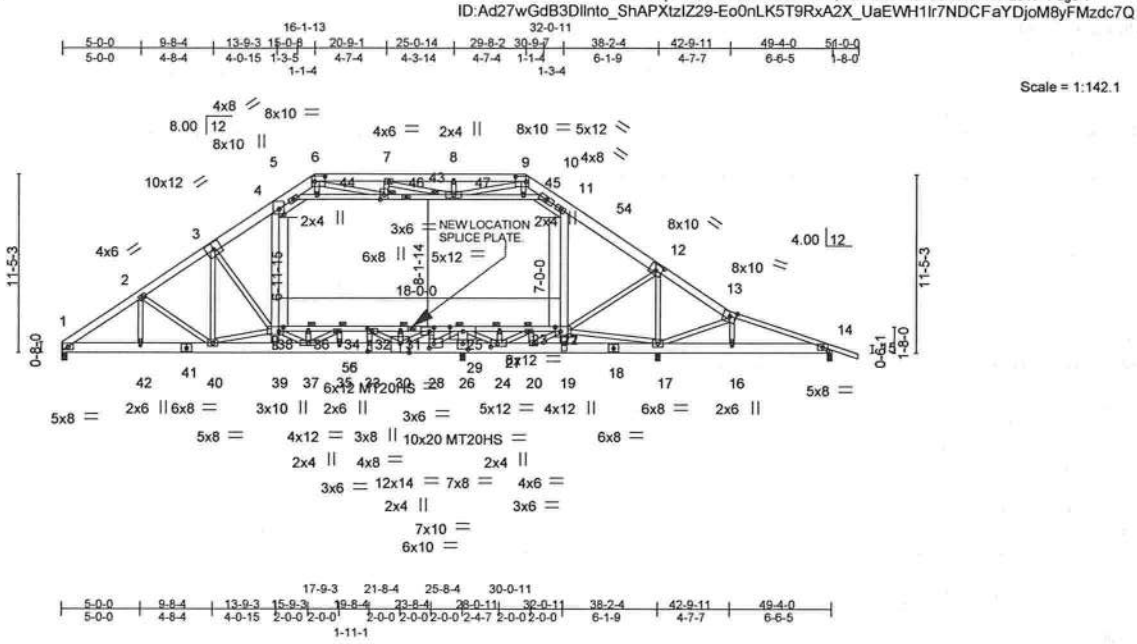

Plate Offsets (X,Y)-- [4:0-4-4,Edge], [6:0-7-12,0-4-0], [9:0-7-12,0-4-0], [12:0-5-0,0-4-8], [14:0-4-0,0-2-10], [21:0-4-0,Edge], [24:0-5-0,0-2-8], [26:0-4-0,0-4-8], [27:0-3-8,0-3-0], [28:0-3-8,0-3-8], [30:0-7-0,0-7-0], [32:0-3-8,0-2-0], [33:0-6-4,0-1-8], [38:0-3-4,0-3-4], [46:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.45	37-39	>678	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.97	Vert(TL)	-0.66	37-39	>469	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.99	Horz(TL)	0.07	14	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)		Attic	-0.25	21-38	870	360	Weight: 1570 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
3-6,9-12: 2x8 SP 2400F 2.0E, 13-15: 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
29-38,21-29: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
4-39,11-19: 2x6 SP No.2, 25-26: 2x8 SP 2400F 2.0E
20-21,37-38,25-28,27-30,34-37,30-32,22-24: 2x4 SP M 31
10-43,24-25: 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 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 25, 23, 22, 36, 34, 31, 46, 47

REACTIONS. All bearings 0-3-8 except (jt=length) 17=0-5-10 (input: 0-3-8), 26=0-8-8 (input: 0-3-8).
(lb) - Max Horz 1=-284(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-1464(LC 5), 17=-3411(LC 4), 14=-876(LC 5), 26=-3963(LC 5)
Max Grav All reactions 250 lb or less at joint(s) except 1=7986(LC 16), 17=14285(LC 17), 14=3270(LC 16), 26=21583(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-13177/2441, 2-3=-13655/2590, 3-4=-11255/2158, 4-5=-7122/1433, 5-6=-2115/514, 6-7=-1639/485, 7-8=-794/1227, 8-9=-794/1227, 9-10=-175/1393, 10-11=-7672/1551, 11-54=-8366/1630, 12-54=-11347/2255, 12-13=-6035/1157, 13-14=-8788/1938
BOT CHORD 1-42=-2130/11025, 41-42=-2130/11025, 40-41=-2130/11025, 39-40=-3977/20215, 39-55=-3953/20139, 37-55=-3953/20139, 35-37=-4065/21563, 33-35=-4065/21563, 30-33=-4065/21563, 28-30=-3382/761, 26-28=-17765/3347, 24-26=-17765/3347, 20-24=-2528/623, 19-20=-218/439, 18-19=-365/1359, 17-18=-365/1359, 16-17=-1745/8302, 14-16=-1759/8321, 38-56=-15718/3063, 36-56=-15718/3063, 34-36=-15718/3063, 32-34=-12846/2435, 31-32=-1718/254, 29-31=-1743/258, 27-29=-1743/258, 25-27=-2263/11997, 23-25=-3275/17053, 22-23=-3275/17053, 21-22=-2253/11244
WEBS 3-40=-630/3218, 3-38=-4766/969, 38-39=-765/3076, 4-38=-1443/7524, 19-21=-760/3664, 11-21=-182/1021, 12-21=-842/3978, 13-17=-4016/1069, 13-16=-212/389, 5-44=-6296/1169, 44-46=-6222/1158, 43-46=-7512/1236, 43-47=-7512/1236, 45-47=-11374/2215, 10-45=-11526/2242, 25-26=-15936/2900, 23-24=-1512/227, 20-22=-448/1927, 20-21=-3262/614, 36-37=-1520/220, 37-38=-1035/5422,

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NOTES- (16)

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc, 2x8 - 2 rows staggered at 0-8-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc, 2x4 - 2 rows staggered at 0-6-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 28-27 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-7-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 4-5, 10-11, 5-44, 44-46, 46-47, 45-47, 10-45; Wall dead load (5.0psf) on member(s).4-38, 11-21
10) Bottom chord live load (75.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 36-38, 34-36, 32-34, 31-32, 27-31, 25-27, 23-25, 22-23, 21-22
11) WARNING: Required bearing size at joint(s) 17, 26 greater than input bearing size.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1464 lb uplift at joint 1, 3411 lb uplift at joint 17, 876 lb uplift at joint 14 and 3963 lb uplift at joint 26.
13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2854 lb down and 647 lb up at 32-11-4 on top chord, and 4321 lb down and 980 lb up at 13-10-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) Attic room checked for L/360 deflection.
16) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
      Vert: 1-4=-54, 4-5=-64, 5-6=-54, 6-9=-54, 9-10=-54, 10-11=-64, 13-15=-54, 48-55=-20, 16-55=-265(F=-245), 16-51=-20, 38-56=-40, 21-56=-285(F=-245), 5-10=-10
      Drag: 4-38=-10, 11-21=-10
   Concentrated Loads (lb)
      Vert: 39=-1702(F) 54=-1124
   Trapezoidal Loads (plf)
      Vert: 11=-201(F=-147)-to-13=-319(F=-265)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T06	Attic Truss	1	3	T10582227

Job Reference (optional)

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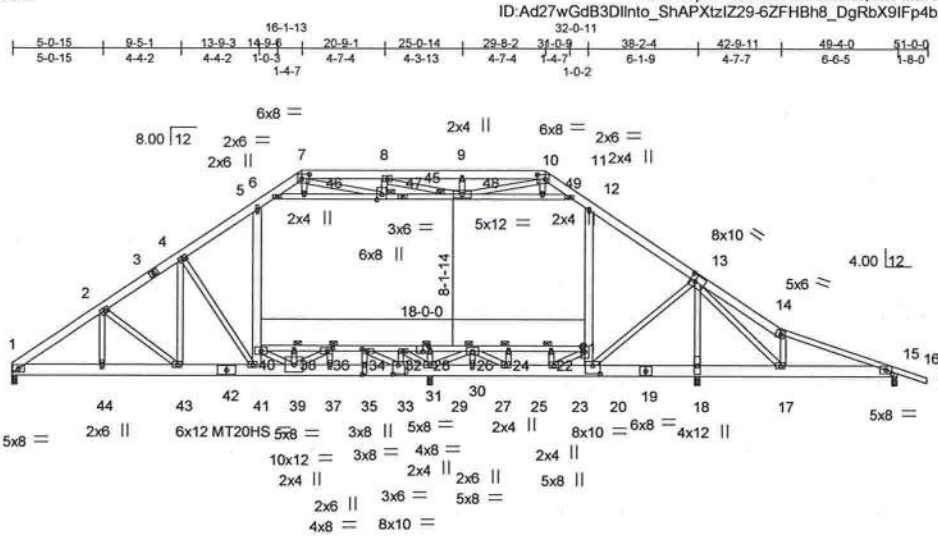

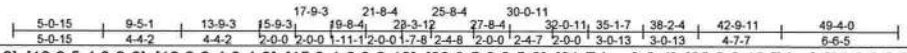

Plate Offsets (X,Y)-- [7:0-5-4,0-3-0], [10:0-5-4,0-3-0], [13:0-3-4,0-4-8], [15:0-4-0,0-2-10], [20:0-5-0,0-5-8], [21:Edge,0-2-4], [30:0-3-13,Edge], [31:0-3-8,0-6-0], [34:0-3-8,0-1-8], [35:0-6-4,0-1-8], [36:0-3-8,0-2-0], [47:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.31	41-43	>901	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.73	Vert(TL)	-0.68	41-43	>411	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(TL)	0.04	15	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)		Attic	-0.20	21-40	1082	360	Weight: 1460 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
14-16: 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
30-40,21-30: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
5-41,12-20: 2x6 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: 29-33,27-29,25-27,23-25.
JOINTS 1 Brace at Jt(s): 47, 48, 28, 38, 36, 22, 24, 26

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 1=-284(LC 24)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-862(LC 8), 18=-3130(LC 20), 29=-691(LC 8), 15=-1144(LC 5)
Max Grav All reactions 250 lb or less at joint(s) except 1=4065(LC 1), 18=1621(LC 17), 29=4982(LC 2), 15=3662(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6524/1376, 2-3=-6844/1496, 3-4=-6727/1503, 4-5=-5665/1244, 5-6=-3761/833, 6-7=-1117/320, 7-8=-1498/615, 8-9=-1267/860, 9-10=-1267/860, 10-11=-681/593, 11-12=-3897/873, 12-13=-4997/1097, 13-14=-10582/3048, 14-15=-9217/2613
BOT CHORD 1-44=-1192/5335, 43-44=-1192/5335, 42-43=-1248/5717, 41-42=-1248/5717, 39-41=-1212/5574, 37-39=-474/3182, 35-37=-474/3182, 33-35=-474/3182, 31-33=-3105/933, 29-31=-3105/933, 27-29=-5009/1439, 25-27=-5009/1439, 23-25=-1361/914, 20-23=-615/3403, 19-20=-1694/6756, 18-19=-1694/6756, 17-18=-1698/6766, 15-17=-2397/8691, 38-40=-4021/917, 36-38=-4021/917, 34-36=-410/1055, 32-34=-1705/7315, 30-32=-2206/10010, 28-30=-2206/10010, 26-28=-2206/10010, 24-26=-1515/5560, 22-24=-1515/5560, 21-22=-1515/5560
WEBS 2-44=-547/203, 2-43=-323/608, 4-43=-500/1896, 4-41=-2400/727, 40-41=-483/1224, 5-40=-759/2923, 20-21=-1326/4659, 12-21=-559/2006, 13-20=-3519/1214, 13-17=-1115/3372, 14-17=-2985/855, 6-46=-3218/842, 46-47=-3198/841, 45-47=-2711/919, 45-48=-2711/919, 48-49=-4596/1227, 11-49=-4629/1232, 13-18=-1437/2920, 7-47=-548/758, 8-48=-586/159, 10-48=-426/1375, 28-29=-416/0, 38-39=-273/0, 36-37=-2823/684, 34-35=-743/3378, 32-33=-448/2157, 24-25=-372/3, 26-27=-1740/364, 29-32=-3376/629, 26-29=-1199/0, 21-23=-5493/1491, 39-40=-635/3067, 36-39=-1512/5899, 33-34=-7332/1516, 25-26=-847/4323

NOTES- (17)
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

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NOTES- (17)

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 4x6 MT20 unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Ceiling dead load (5.0 psf) on member(s). 5-6, 11-12, 6-46, 46-47, 47-48, 48-49, 11-49; Wall dead load (5.0psf) on member(s).5-40, 12-21
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 38-40, 36-38, 34-36, 32-34, 28-32, 26-28, 24-26, 22-24, 21-22
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 862 lb uplift at joint 1, 3130 lb uplift at joint 18, 691 lb uplift at joint 29 and 1144 lb uplift at joint 15.
13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3690 lb down and 1118 lb up at 13-8-3, 489 lb down and 110 lb up at 15-8-10, and 489 lb down and 110 lb up at 17-8-10, and 489 lb down and 110 lb up at 19-8-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) Attic room checked for L/360 deflection.
17) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-5=-54, 5-6=-64, 6-7=-54, 7-10=-54, 10-11=-54, 11-12=-64, 12-14=-54, 14-16=-54, 50-53=-20, 21-40=-40, 6-11=-10
   Drag: 5-40=-10, 12-21=-10
   Concentrated Loads (lb)
   Vert: 41=-3690(F) 39=-489(F) 37=-489(F) 35=-489(F)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE T10582228
983787	T07	ATTIC TRUSS	5	1	Job Reference (optional)

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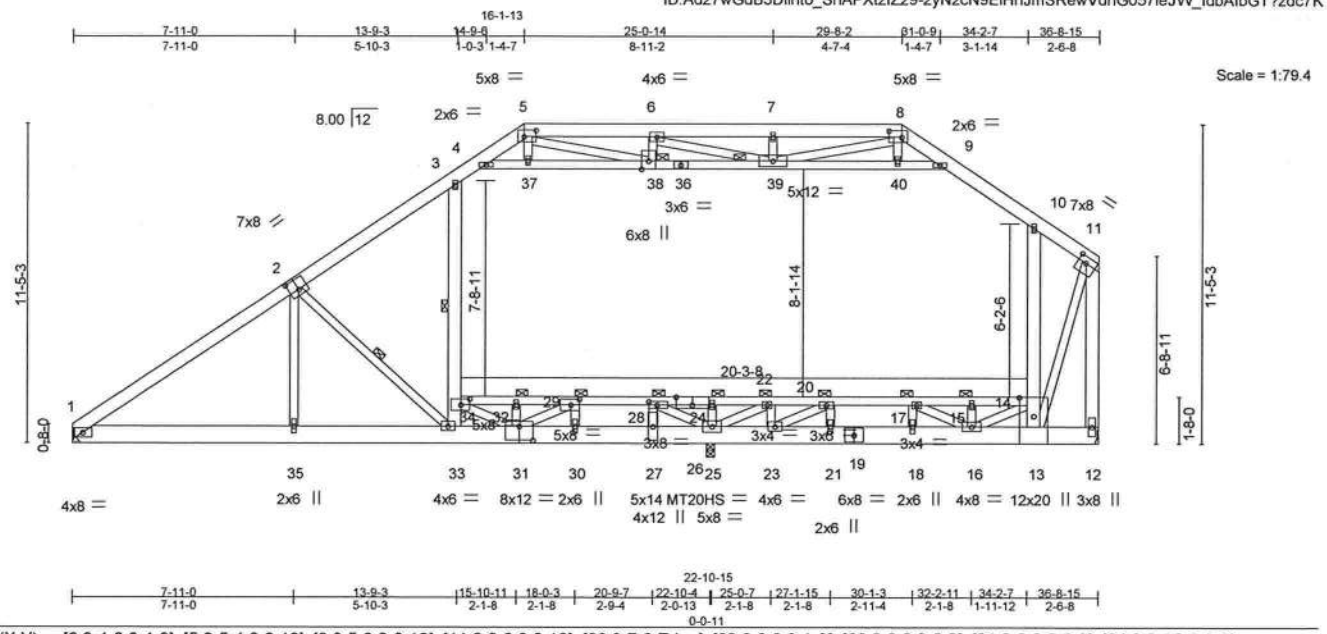

Plate Offsets (X,Y)– [2:0-4-0,0-4-8], [5:0-5-4,0-2-12], [8:0-5-8,0-2-12], [11:0-3-8,0-2-12], [26:0-7-0,Edge], [28:0-3-8,0-1-8], [29:0-3-8,0-2-8], [31:0-6-0,0-6-0], [34:0-3-12,0-2-8], [38:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	0.34	33-35	>805	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.72	Vert(TL)	-0.78	33-35	>353	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.01	25	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)		Attic	0.18	14-34	1414	360	Weight: 399 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
26-34,14-26: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
3-33,10-13,11-12: 2x6 SP No.2
31-34,14-16,25-28,22-25,16-17,20-23,29-31: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-33, 3-34
JOINTS 1 Brace at Jt(s): 38, 39, 24, 28, 22, 17, 32, 15, 20, 29

REACTIONS. (lb/size) 1=1118/Mechanical, 12=1035/Mechanical, 25=1731/0-3-8
Max Horz 1=399(LC 12)
Max Uplift 1=-225(LC 12), 12=-187(LC 8), 25=-27(LC 12)
Max Grav 1=1118(LC 1), 12=1241(LC 27), 25=2598(LC 20)

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

TOP CHORD 1-2=-1673/479, 2-3=-967/320, 3-4=-834/438, 4-5=-1097/535, 5-6=-1877/1034, 6-7=-1855/1045, 7-8=-1855/1045, 8-9=-1041/591, 9-10=-932/434, 10-11=-572/120, 11-12=-1896/430

BOT CHORD 1-35=-540/1334, 33-35=-539/1330, 31-33=-335/1152, 30-31=-973/438, 27-30=-973/438, 25-27=-973/438, 23-25=-2924/943, 21-23=-1671/901, 19-21=-1671/901, 18-19=-1671/901, 16-18=-1671/901, 32-34=-1114/146, 29-32=-1089/150, 28-29=-522/1524, 26-28=-908/4331, 24-26=-908/4331, 22-24=-908/4331, 20-22=-1039/3475, 17-20=-1017/2221, 15-17=-764/1661, 14-15=-764/1661

WEBS 2-35=-150/612, 2-33=-970/517, 33-34=-554/199, 3-34=-319/294, 13-14=-456/336, 10-14=-847/482, 4-37=-389/430, 37-38=-386/435, 36-38=-886/1295, 36-39=-886/1295, 39-40=-439/336, 9-40=-446/330, 11-13=-478/1807, 5-38=-635/994, 8-39=-576/1099, 24-25=-256/0, 31-34=0/644, 14-16=-1389/709, 25-28=-3236/445, 22-25=-1088/0, 16-17=-315/646, 31-32=-315/0, 15-16=-321/0, 17-18=-479/92, 27-28=-238/1205, 22-23=0/355, 20-21=-61/585, 20-23=-1849/49, 29-30=-1655/329, 29-31=-774/3053

NOTES- (14)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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NOTES- (14)

8) Ceiling dead load (5.0 psf) on member(s). 3-4, 9-10, 4-37, 37-38, 38-39, 39-40, 9-40; Wall dead load (5.0psf) on member(s).3-34, 10-14
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 32-34, 29-32, 28-29, 24-28, 22-24, 20-22, 17-20, 15-17, 14-15
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 1, 187 lb uplift at joint 12 and 27 lb uplift at joint 25.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Attic room checked for L/360 deflection.
14) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE T10582229
983787	T07G	GABLE	1	1	Job Reference (optional)

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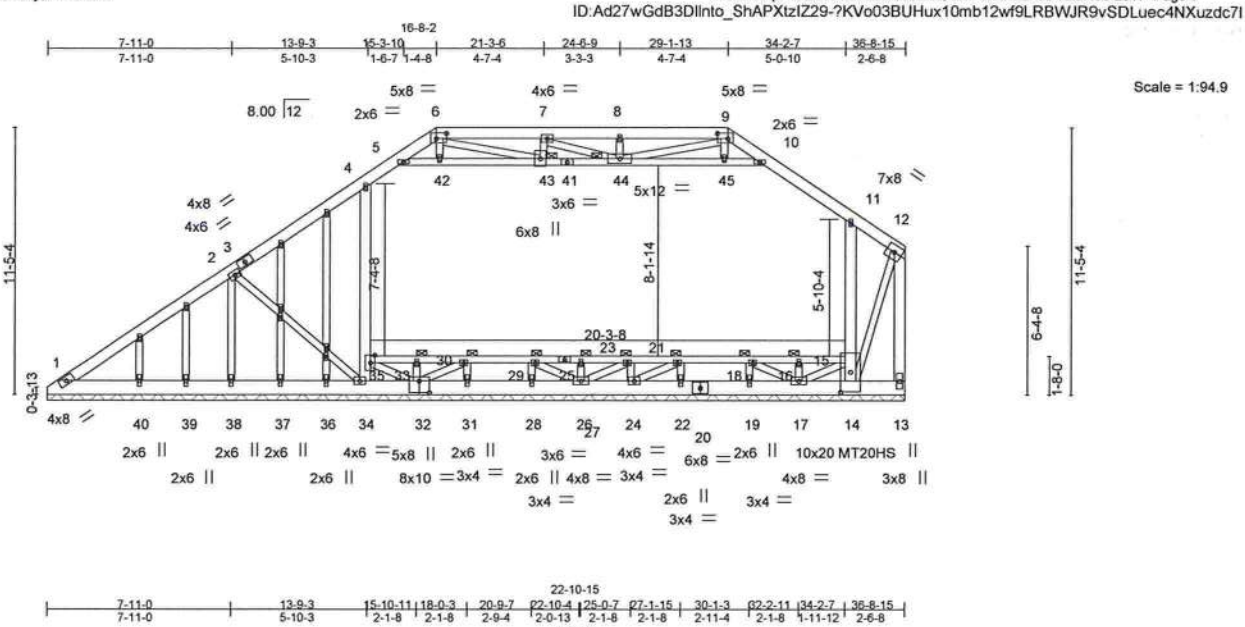

Plate Offsets (X,Y)– [6:0-5-4,0-2-12], [9:0-5-4,0-2-12], [14:0-10-4,0-5-0], [32:0-5-0,0-6-0], [35:0-4-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.08	Vert(TL)	n/a	-	n/a	999	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.01	13	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 417 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
27-35,15-27: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-34,11-14,12-13: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 43, 44, 25, 23, 33, 29, 21, 16, 18, 30

REACTIONS. All bearings 36-8-15.
(lb) - Max Horz 1=394(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 40, 39 except 1=-117(LC 8), 38=-261(LC 12), 34=-266(LC 12), 14=-878(LC 1), 13=-613(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 26, 24, 32, 17, 40, 39, 37, 36, 28, 22, 19, 31 except 1=484(LC 1), 38=587(LC 1), 34=510(LC 20), 14=598(LC 9), 13=1834(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-673/297, 2-3=-781/374, 3-4=-764/398, 4-5=-819/483, 5-6=-946/470, 6-7=-1672/913, 7-8=-1722/936, 8-9=-1722/936, 9-10=-1074/544, 10-11=-880/473, 11-12=-580/240, 12-13=-1776/687
BOT CHORD 1-40=-272/471, 39-40=-272/471, 38-39=-272/471, 37-38=-272/471, 36-37=-272/471, 34-36=-272/471, 32-34=-214/565, 31-32=-160/427, 28-31=-160/427, 26-28=-160/427, 24-26=-165/437, 22-24=-148/401, 20-22=-148/401, 19-20=-148/401, 17-19=-148/401, 14-17=-180/475
WEBS 2-38=-533/345, 34-35=-498/166, 4-35=-508/252, 14-15=-689/289, 11-15=-680/353, 5-42=-243/310, 42-43=-240/316, 41-43=-674/1160, 41-44=-674/1160, 44-45=-191/402, 10-45=-193/398, 12-14=-626/1655, 6-43=-522/942, 9-44=-491/828

NOTES- (15)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T07G	GABLE	1	1	T10582229
					Job Reference (optional)

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NOTES- (15)

10) * 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.
11) Ceiling dead load (5.0 psf) on member(s). 4-5, 10-11, 5-42, 42-43, 43-44, 44-45, 10-45; Wall dead load (5.0psf) on member(s).4-35, 11-15
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 39 except (jt=lb) 1=117, 38=261, 34=266, 14=878, 13=613.
13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
14) Attic room checked for L/360 deflection.
15) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE T10582230
983787	T08	Attic Truss	1	1	Job Reference (optional)

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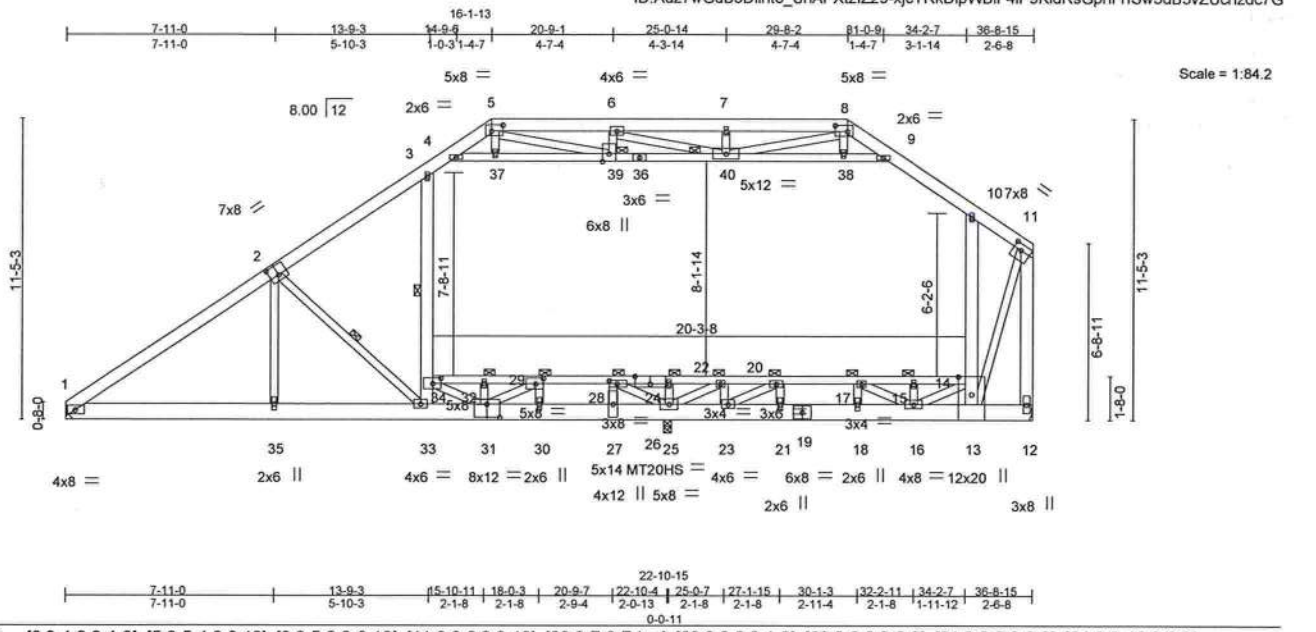

Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [5:0-5-4,0-2-12], [8:0-5-8,0-2-12], [11:0-3-8,0-2-12], [26:0-7-0,Edge], [28:0-3-8,0-1-8], [29:0-3-8,0-2-8], [31:0-6-0,0-6-0], [34:0-3-12,0-2-8], [39:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.30	33-35	>910	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.72	Vert(TL)	-0.78	33-35	>353	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.01	25	n/a	n/a		
BCDL	10.0	Code	FBC2014/TPI2007	(Matrix-M)		Attic	0.18	14-34	1414	360	Weight: 399 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
26-34,14-26: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
3-33,10-13,11-12: 2x6 SP No.2
25-28,22-25,31-34,20-23,14-16,16-17,29-31: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-33, 3-34
JOINTS 1 Brace at Jt(s): 39, 40, 24, 22, 28, 32, 20, 15, 17, 29

REACTIONS. (lb/size) 1=1118/Mechanical, 12=1035/Mechanical, 25=1731/0-3-8
Max Horz 1=268(LC 12)
Max Uplift 1=-88(LC 12), 12=-62(LC 8)
Max Grav 1=1118(LC 1), 12=1241(LC 27), 25=2609(LC 20)

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

TOP CHORD 1-2=-1673/479, 2-3=-967/320, 3-4=-834/438, 4-5=-1097/535, 5-6=-1877/1034, 6-7=-1855/1045, 7-8=-1855/1045, 8-9=-1041/561, 9-10=-932/434, 10-11=-572/120, 11-12=-1896/430

BOT CHORD 1-35=-540/1369, 33-35=-539/1364, 31-33=-335/1157, 30-31=-952/350, 27-30=-952/350, 25-27=-952/350, 23-25=-2937/868, 21-23=-1671/846, 19-21=-1671/846, 18-19=-1671/846, 16-18=-1671/846, 32-34=-1123/137, 29-32=-1099/141, 28-29=-522/1550, 26-28=-908/4384, 24-26=-908/4384, 22-24=-908/4384, 20-22=-1039/3534, 17-20=-1017/2221, 15-17=-764/1661, 14-15=-764/1661

WEBS 2-35=-141/615, 2-33=-951/474, 33-34=-554/127, 3-34=-319/226, 13-14=-456/238, 10-14=-847/482, 4-37=-252/430, 37-39=-248/435, 36-39=-651/1295, 36-40=-651/1295, 38-40=-309/336, 9-38=-317/330, 11-13=-478/1807, 5-39=-569/994, 8-40=-542/1099, 24-25=-256/0, 22-23=0/355, 25-28=-3267/445, 22-25=-1088/0, 27-28=-238/1219, 31-32=-315/0, 31-34=0/644, 20-21=-50/582, 20-23=-1843/25, 15-16=-321/0, 14-16=-1389/709, 17-18=-476/81, 16-17=-292/646, 29-30=-1674/329, 29-31=-774/3095

NOTES- (14)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T08	Attic Truss	1	1	T10582230
					Job Reference (optional)

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NOTES- (14)

8) Ceiling dead load (5.0 psf) on member(s). 3-4, 9-10, 4-37, 37-39, 39-40, 38-40, 9-38; Wall dead load (5.0psf) on member(s).3-34, 10-14
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 32-34, 29-32, 28-29, 24-28, 22-24, 20-22, 17-20, 15-17, 14-15
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Attic room checked for L/360 deflection.
14) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T09	ATTIC TRUSS	1	3	T10582231
					Job Reference (optional)

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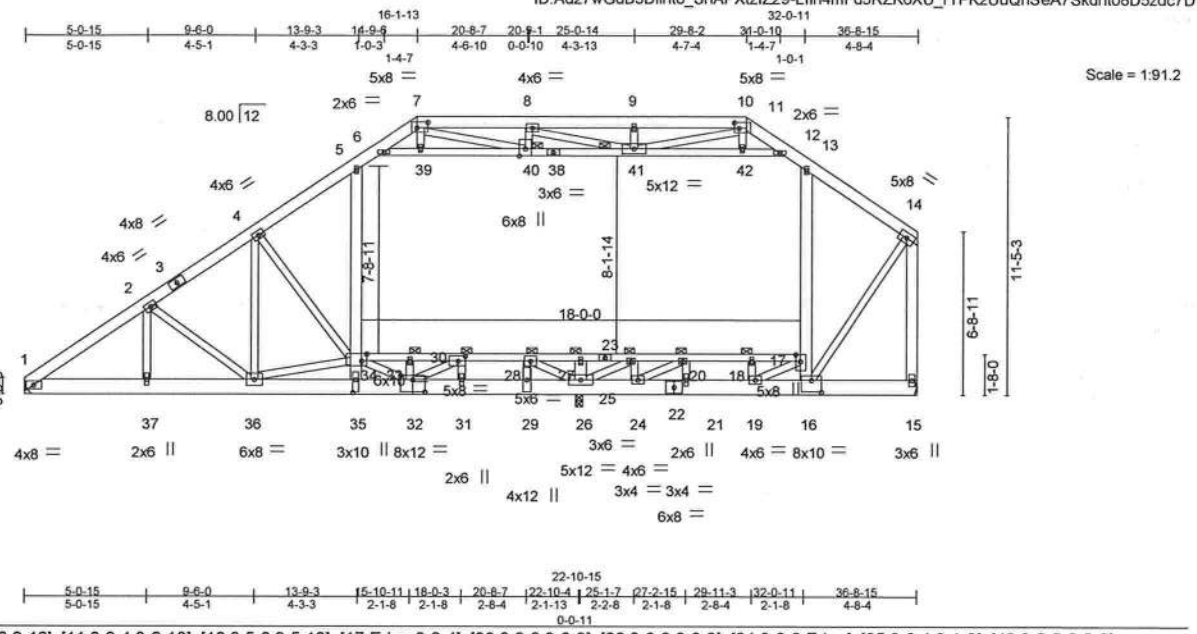

Plate Offsets (X,Y)-- [7:0-5-4,0-2-12], [11:0-2-4,0-2-12], [16:0-5-0,0-5-12], [17:Edge,0-2-4], [30:0-3-8,0-2-8], [32:0-6-0,0-6-0], [34:0-2-8,Edge], [35:0-6-4,0-1-8], [40:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.24	35	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.97	Vert(TL)	-0.52	35	>527	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(TL)	0.03	26	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)		Attic	-0.14	17-34	1550	360	Weight: 1244 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E *Except*
25-34,17-25: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
5-35,13-16,14-15,26-27: 2x6 SP No.2
17-19,32-34,26-28,23-26,20-24,30-32: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 40, 41, 27, 23, 20, 28, 33, 30, 18

REACTIONS. (lb/size) 1=3244/Mechanical, 15=3806/Mechanical, 26=4716/0-3-8
Max Horz 1=268(LC 8)
Max Uplift 1=-696(LC 8), 15=-990(LC 4), 26=-725(LC 8)
Max Grav 1=3244(LC 1), 15=3836(LC 21), 26=4977(LC 22)

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

TOP CHORD 1-2=-5178/1108, 2-3=-5313/1172, 3-4=-5194/1186, 4-5=-2745/742, 5-6=-1956/534, 6-7=-1223/324, 7-8=-1758/557, 8-9=-1418/680, 9-10=-1418/680, 10-11=-566/512, 11-12=-705/446, 12-13=-2053/544, 13-14=-2337/601, 14-15=-4099/1011

BOT CHORD 1-37=-1112/4221, 36-37=-1112/4221, 35-36=-3335/13652, 32-35=-3339/13753, 31-32=-782/3712, 29-31=-782/3712, 26-29=-782/3712, 24-26=-3943/985, 22-24=-1582/519, 21-22=-1582/519, 19-21=-1582/519, 16-19=-413/1538, 33-34=-9435/2137, 30-33=-9421/2140, 28-30=-1770/321, 27-28=-1382/6370, 25-27=-1382/6370, 23-25=-1382/6370, 20-23=-1427/5884, 18-20=-980/3523, 17-18=-980/3523

WEBS 2-37=-336/156, 2-36=-296/401, 4-36=-862/3600, 4-34=-3596/972, 34-35=-888/2164, 5-34=-529/1251, 16-17=-810/2031, 13-17=-507/655, 6-39=-1068/531, 39-40=-1057/534, 38-40=-1409/1144, 38-41=-1409/1144, 41-42=-1848/633, 12-42=-1850/634, 14-16=-798/3422, 23-24=-33/289, 20-21=-292/1192, 17-19=-3430/981, 28-29=-886/4020, 32-33=-301/0, 32-34=-2753/867, 7-40=-479/723, 8-41=-366/96, 10-41=-390/1317, 26-28=-9298/1913, 23-26=-906/0, 20-24=-2763/547, 30-31=-4322/969, 30-32=-2126/8941, 34-36=-9673/2364, 18-19=-299/0

NOTES- (16)

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.

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NOTES- (16)

6) All plates are 2x4 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 5-6, 12-13, 6-39, 39-40, 40-41, 41-42, 12-42; Wall dead load (5.0psf) on member(s).5-34, 13-17
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 33-34, 30-33, 28-30, 27-28, 23-27, 20-23, 18-20, 17-18
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=696, 15=990, 26=725.
13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3726 lb down and 1129 lb up at 13-10-15, 489 lb down and 110 lb up at 15-8-10, and 489 lb down and 110 lb up at 17-8-10, and 3287 lb down and 1129 lb up at 32-1-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) Attic room checked for L/360 deflection.
16) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-5=-54, 5-6=-64, 6-7=-54, 7-11=-54, 11-12=-54, 12-13=-64, 13-14=-54, 15-43=-20, 17-34=-40, 6-12=-10
   Drag: 5-34=-10, 13-17=-10
   Concentrated Loads (lb)
   Vert: 35=-3726(B) 16=-3287(B) 32=-489(B) 31=-489(B)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T10	Monopitch Truss	7	1	T10582232
					Job Reference (optional)

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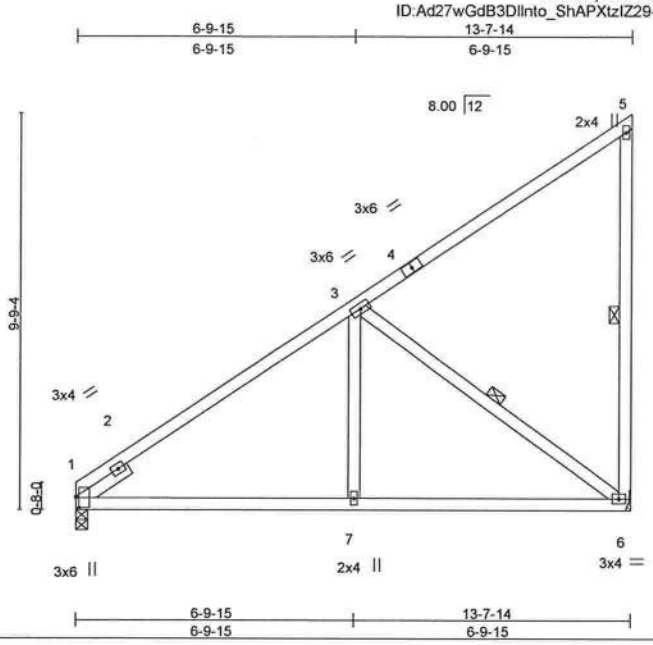

Plate Offsets (X,Y)-- [1:0-3-5,0-0-15]

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	0.54	Vert(LL)	0.06	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(TL)	-0.13	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(TL)	0.02	1	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 80 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.
WEBS 1 Row at midpt 5-6, 3-6

REACTIONS. (lb/size) 1=500/0-3-8, 6=500/Mechanical
Max Horz 1=305(LC 12)
Max Uplift 1=-22(LC 12), 6=-241(LC 12)
Max Grav 1=500(LC 1), 6=546(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-347/0, 2-3=-567/15
BOT CHORD 1-7=-331/530, 6-7=-331/530
WEBS 3-7=0/307, 3-6=-647/404

NOTES- (7)

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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 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) 1 except (jt=lb) 6=241.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	
983787	T11	MONOPITCH TRUSS	4	1	Job Reference (optional)	T10582233

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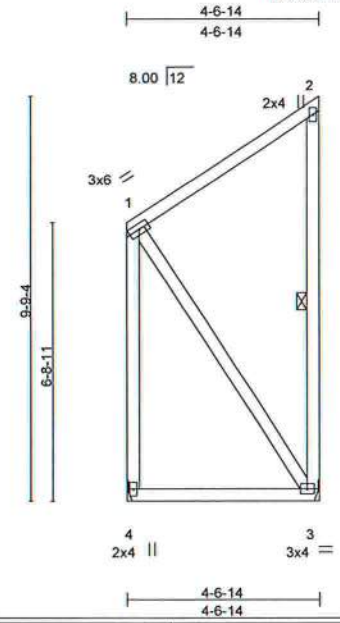

Scale = 1:53.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.02	3-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(TL)	-0.05	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 49 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-3

REACTIONS. (lb/size) 4=158/Mechanical, 3=158/Mechanical
Max Horz 4=97(LC 12)
Max Uplift 3=-221(LC 12)
Max Grav 4=184(LC 21), 3=222(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 1-3=-218/279

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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 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) except (jt=lb) 3=221.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T12	QUEENPOST	4	1	T10582234

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

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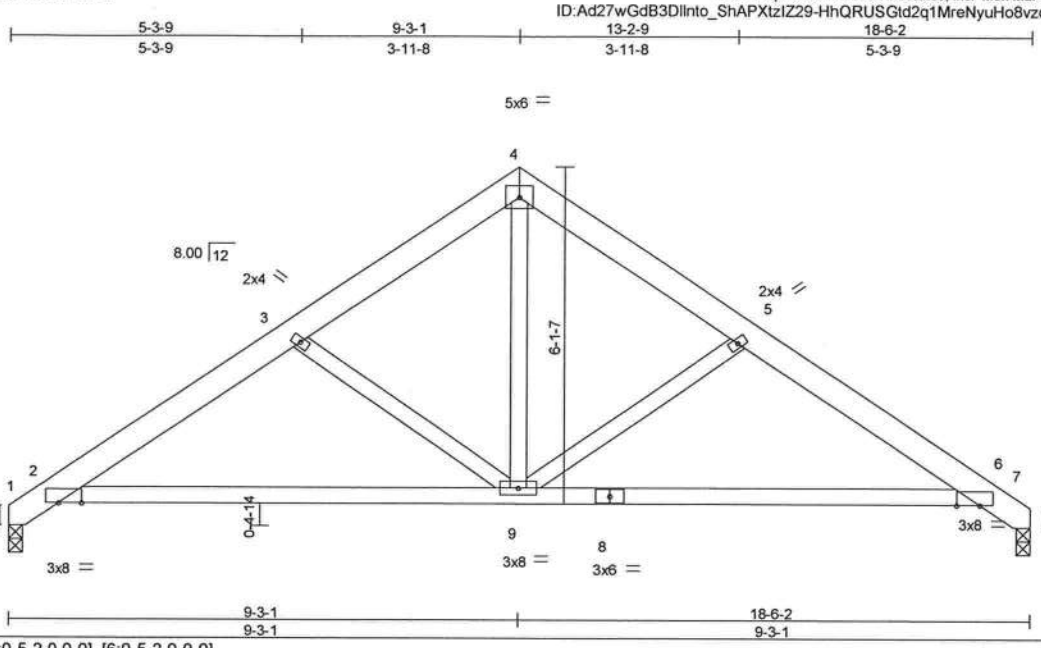

Plate Offsets (X,Y)-- [2:0-5-2,0-0-0], [6:0-5-2,0-0-0]

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	0.44	Vert(LL)	-0.08	9-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(TL)	-0.24	9-12	>926	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(TL)	0.08	7	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 100 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=689/0-3-0, 7=679/0-3-0
Max Horz 1=152(LC 9)
Max Uplift 1=-133(LC 12), 7=-136(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-420/166, 2-3=-995/457, 3-4=-765/378, 4-5=-765/378, 5-6=-994/458, 6-7=-373/167
BOT CHORD 2-9=-304/872, 8-9=-305/846, 6-8=-305/846
WEBS 3-9=-417/272, 4-9=-276/668, 5-9=-414/273

NOTES- (8)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=133, 7=136.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582235
983787	T12D	Roof Special	3	1	Job Reference (optional)	

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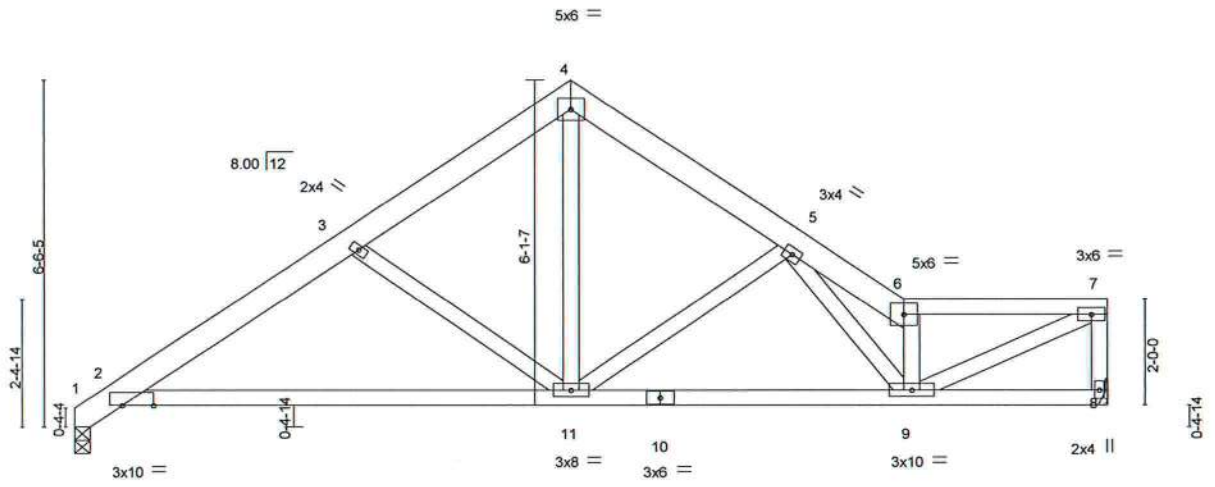
ID:Ad27wGdB3DIInto_ShAPXtzIZ29-mt_qioHWOMyuz?CZWbo1g6WzSgIOKvw3Tr0opQzdc7A

5-3-9	9-3-1	13-2-9	15-5-4	19-2-10
5-3-9	3-11-8	3-11-8	2-2-11	3-9-6

Scale = 1:41.5



0-10-6	9-3-1	15-5-4	18-3-1	19-2-10
0-10-6	8-4-11	6-2-3	2-9-14	0-11-9

Plate Offsets (X,Y)-- [2:0-7-2,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	0.44	Vert(LL)	-0.09	11-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(TL)	-0.27	11-14	>851	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(TL)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 114 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-0-6 oc bracing.

REACTIONS. (lb/size) 1=717/0-3-8, 8=697/Mechanical
Max Horz 1=149(LC 9)
Max Uplift 1=-135(LC 12), 8=-148(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-409/89, 2-3=-1043/479, 3-4=-804/399, 4-5=-789/392, 5-6=-1463/657, 6-7=-1164/503
BOT CHORD 2-11=-421/892, 10-11=-428/948, 9-10=-428/948
WEBS 3-11=-418/274, 4-11=-285/664, 5-11=-441/282, 7-8=-666/317, 6-9=-882/440, 7-9=-560/1296, 5-9=-190/490

NOTES- (10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 1 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) except (jt=lb) 1=135, 8=148.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T14	HIP TRUSS	1	1	T10582236
					Job Reference (optional)

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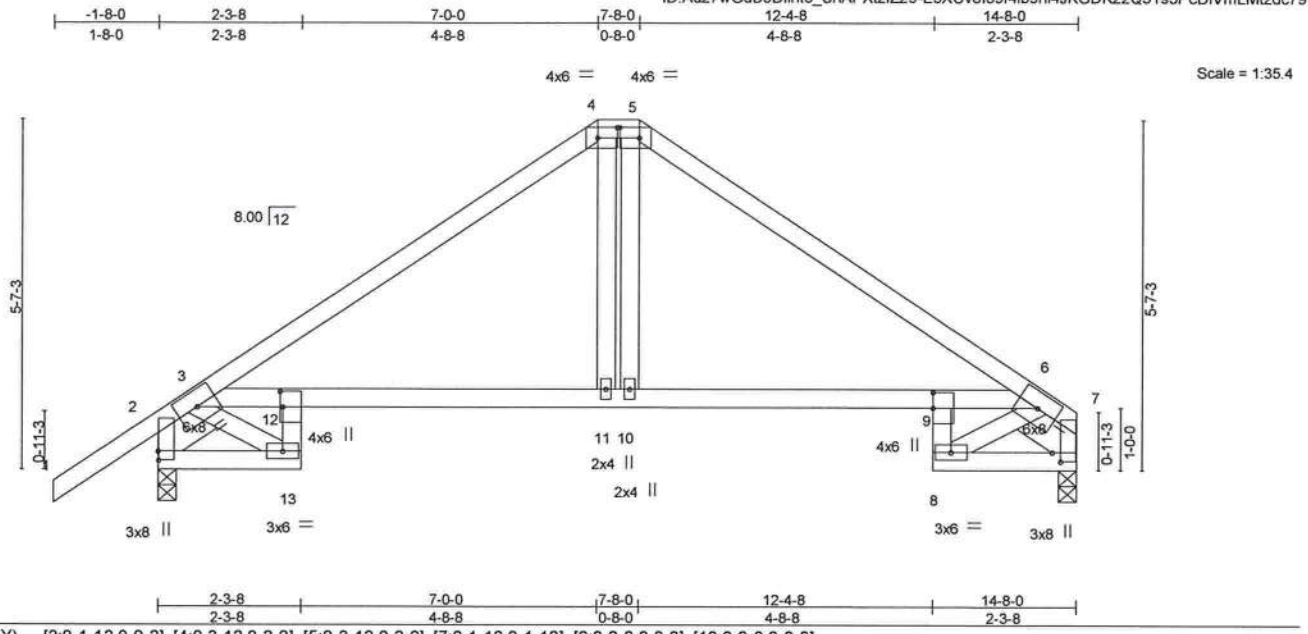

Plate Offsets (X,Y)-- [2:0-1-12,0-0-2], [4:0-3-12,0-2-0], [5:0-3-12,0-2-0], [7:0-1-12,0-1-10], [9:0-3-0,0-0-0], [12:0-3-0,0-0-8]

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	0.81	Vert(LL)	0.20	11-12	>870	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(TL)	-0.36	9-10	>495	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(TL)	0.20	7	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 80 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
12-13,8-9: 2x4 SP No.3, 3-6: 2x4 SP M 31
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-0-0, Right 2x6 SP No.2 1-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-3-0 oc bracing. Except:
8-6-0 oc bracing: 9-10

REACTIONS. (lb/size) 7=1002/0-3-8, 2=1102/0-3-8
Max Horz 2=136(LC 5)
Max Uplift 7=-534(LC 9), 2=-566(LC 8)
Max Grav 7=1007(LC 34), 2=1102(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-357/235, 3-4=-1653/995, 4-5=-1363/892, 5-6=-1679/1012, 6-7=-330/204
BOT CHORD 2-13=-426/725, 12-13=-258/453, 3-12=-661/1168, 11-12=-779/1378, 10-11=-791/1397, 9-10=-775/1372, 6-9=-718/1201, 8-9=-235/435, 7-8=-392/698
WEBS 4-11=-492/728, 5-10=-511/739, 3-13=-632/382, 6-8=-606/349

NOTES- (10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=534, 2=566.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 97 lb up at 7-0-0, and 97 lb down and 97 lb up at 7-8-0 on top chord, and 442 lb down and 395 lb up at 7-0-0, and 442 lb down and 395 lb up at 7-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-54, 5-7=-54, 13-18=-20, 9-12=-20, 8-14=-20

Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-62(B) 5=-62(B) 11=-402(B) 10=-402(B)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T15	SPECIAL TRUSS	3	1	T10582237

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

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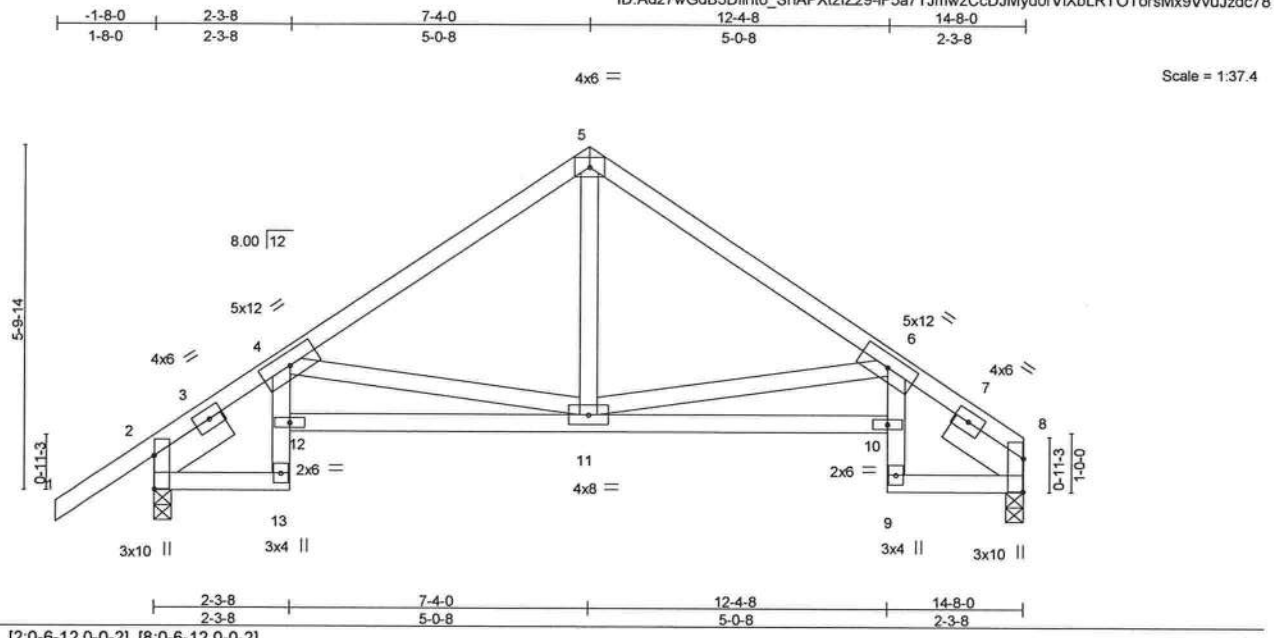

Plate Offsets (X,Y)-- [2:0-6-12,0-0-2], [8:0-6-12,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.05	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(TL)	-0.14	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.14	8	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 85 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-8-14 oc bracing.

REACTIONS. (lb/size) 8=538/0-3-8, 2=638/0-3-8
Max Horz 2=140(LC 9)
Max Uplift 8=-107(LC 13), 2=-140(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-675/303, 4-5=-642/293, 5-6=-642/294, 6-7=-666/320
BOT CHORD 2-13=-183/479, 11-12=-429/1039, 10-11=-456/991, 8-9=-201/462
WEBS 5-11=-122/395, 6-11=-624/381, 4-11=-638/354

NOTES- (7)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=107, 2=140.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582238
983787	T16	COMMON TRUSS	1	1	Job Reference (optional)	

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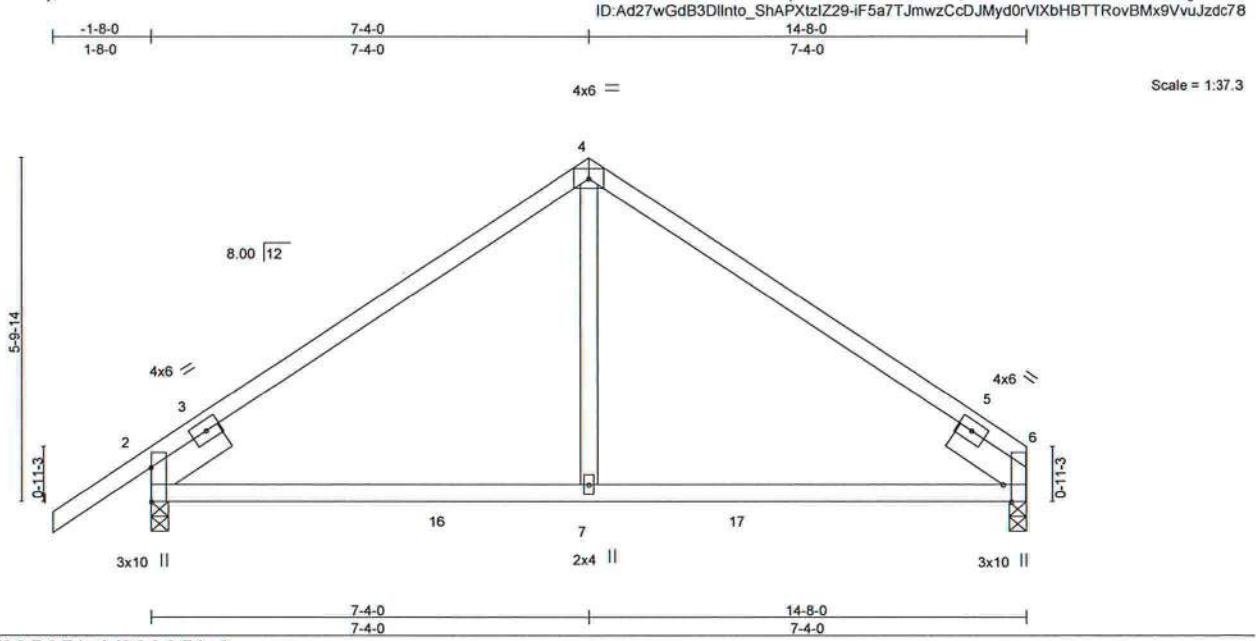

Plate Offsets (X,Y)-- [2:0-7-0,Edge], [6:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.09	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(TL)	-0.15	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.04	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 66 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

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) 6=538/0-3-8, 2=638/0-3-8
Max Horz 2=140(LC 9)
Max Uplift 6=-107(LC 13), 2=-140(LC 12)
Max Grav 6=572(LC 20), 2=663(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-462/271, 3-4=-652/280, 4-5=-647/279, 5-6=-331/177
BOT CHORD 2-16=-95/494, 7-16=-95/494, 7-17=-95/494, 6-17=-95/494
WEBS 4-7=-32/327

NOTES- (7)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=107, 2=140.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	
983787	T17	Common Girder	1	2	Job Reference (optional)	T10582239

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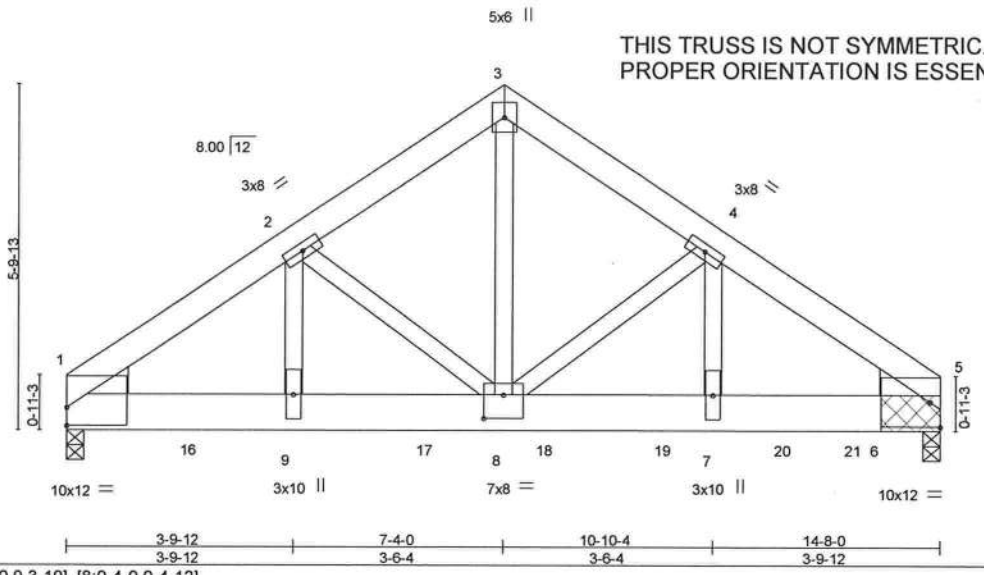
3-9-12	7-4-0	10-10-4	14-8-0
3-9-12	3-6-4	3-6-4	3-9-12

Scale = 1:37.3

THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.



3-9-12	7-4-0	10-10-4	14-8-0
3-9-12	3-6-4	3-6-4	3-9-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(TL)	-0.09	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 247 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2, Right: 2x6 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) 1=4286/0-3-8, 5=6614/(0-3-8 + bearing block) (req. 0-3-14)
Max Horz 1=122(LC 24)
Max Uplift 1=-470(LC 8), 5=-1014(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5640/627, 2-3=-4407/548, 3-4=-4416/550, 4-5=-6658/864
BOT CHORD 1-16=-525/4578, 9-16=-525/4578, 9-17=-525/4578, 8-17=-525/4578, 8-18=-678/5468, 18-19=-678/5468, 7-19=-678/5468, 7-20=-678/5468, 20-21=-678/5468, 6-21=-678/5468, 5-6=-678/5468
WEBS 3-8=-516/4493, 4-8=-2340/463, 4-7=-390/2661, 2-8=-1187/194, 2-9=-106/1446

NOTES- (11)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 5 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=470, 5=1014.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1098 lb down and 108 lb up at 2-0-12, 1098 lb down and 108 lb up at 4-0-12, 1098 lb down and 108 lb up at 6-0-12, 1098 lb down and 108 lb up at 8-0-12, 1098 lb down and 108 lb up at 10-0-12, and 1098 lb down and 108 lb up at 12-0-12, and 3224 lb down and 716 lb up at 13-3-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 10-13=-20

Concentrated Loads (lb)

Vert: 9=-1098(F) 16=-1098(F) 17=-1098(F) 18=-1098(F) 19=-1098(F) 20=-1098(F) 21=-3224(F)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T18	Common	4	1	T10582240

Job Reference (optional)

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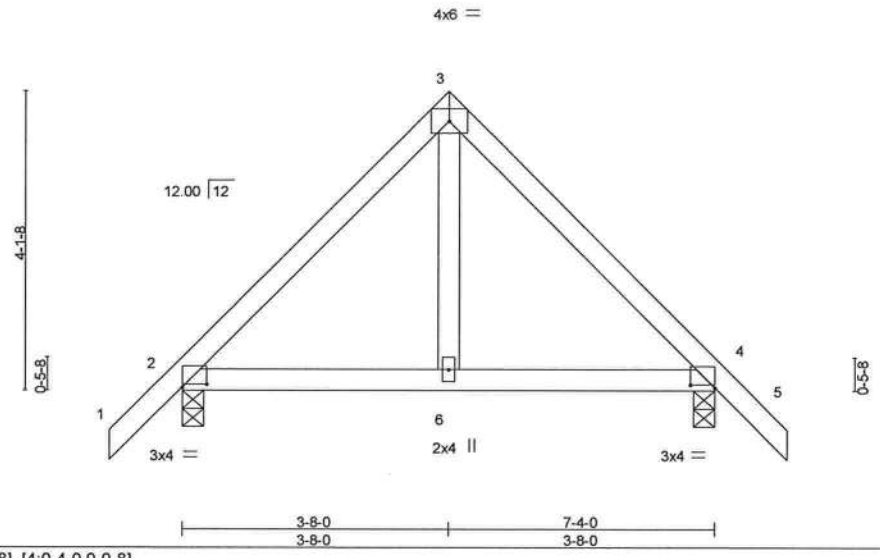

Plate Offsets (X,Y)-- [2:0-4-0,0-0-8], [4:0-4-0,0-0-8]

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	0.15	Vert(LL)	0.01	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(TL)	-0.01	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 36 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=325/0-3-8, 4=325/0-3-8
Max Horz 2=145(LC 11)
Max Uplift 2=-125(LC 12), 4=-125(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-259/122, 3-4=-259/122

NOTES- (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=125, 4=125.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	
983787	T18G	GABLE	1	1	Job Reference (optional)	T10582241

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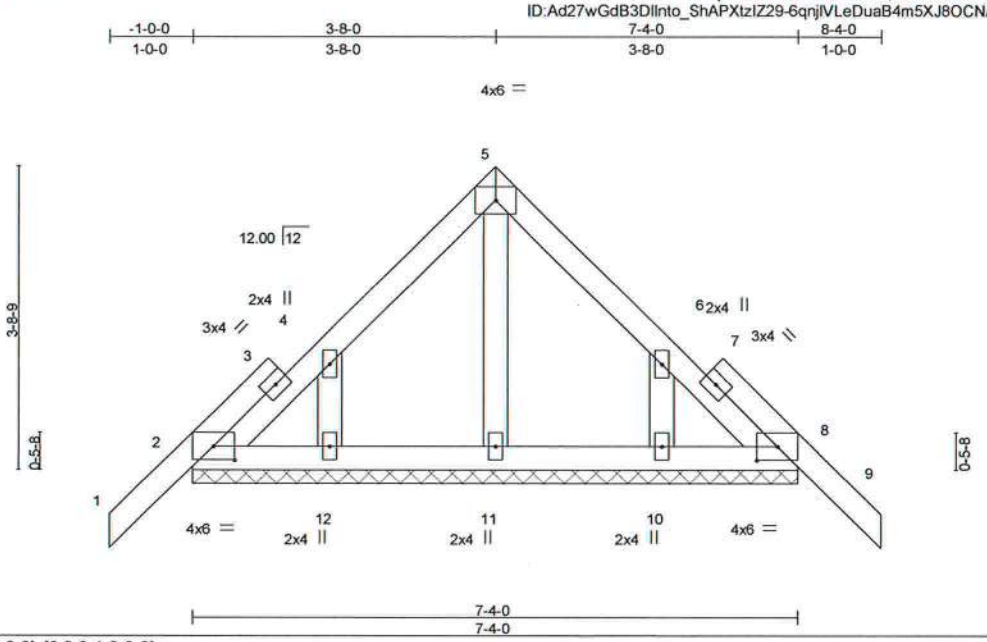

Plate Offsets (X,Y)-- [2:0-3-1,0-2-0], [8:0-3-1,0-2-0]

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	0.10	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	-0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 42 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

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

REACTIONS. All bearings 7-4-0.
(lb) - Max Horz 2=-132(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 12=-131(LC 12), 10=-134(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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

NOTES- (10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 12=131, 10=134.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T19	Common Girder	1	1	T10582242
					Job Reference (optional)

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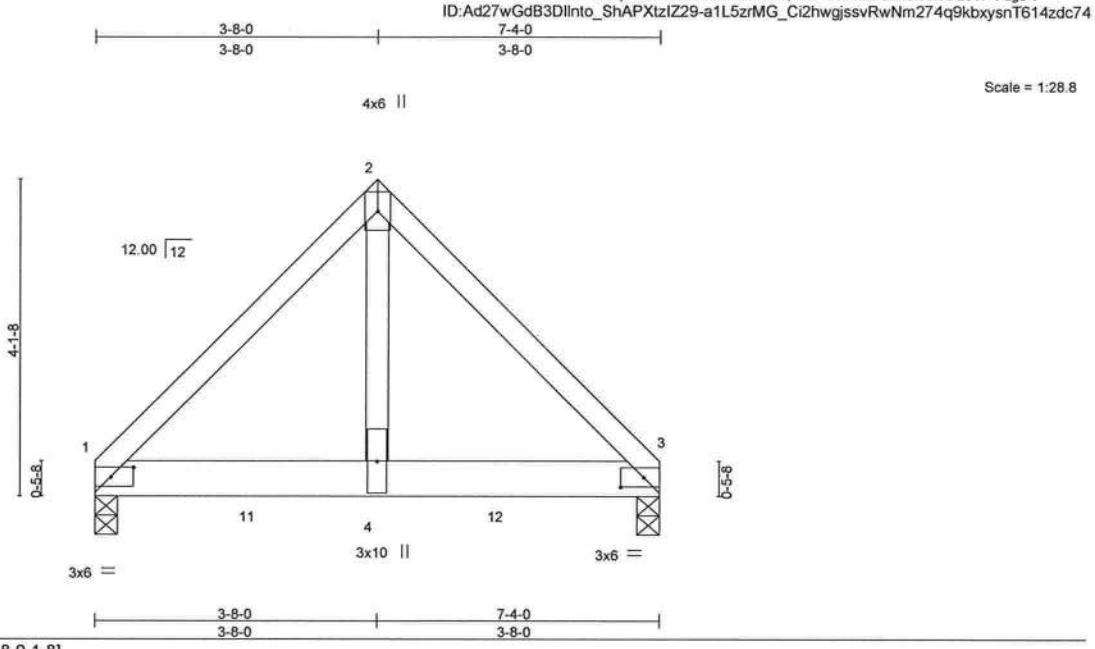

Plate Offsets (X,Y)-- [1:0-3-8,0-1-8], [3:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.02	4-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(TL)	-0.04	4-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 38 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=1287/0-3-8, 3=1287/0-3-8
Max Horz 1=91(LC 7)
Max Uplift 1=-282(LC 8), 3=-282(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1270/304, 2-3=-1270/304
BOT CHORD 1-11=-186/867, 4-11=-186/867, 4-12=-186/867, 3-12=-186/867
WEBS 2-4=-340/1541

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=282, 3=282.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 677 lb down and 168 lb up at 2-0-12, and 677 lb down and 168 lb up at 3-8-0, and 677 lb down and 168 lb up at 5-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 4=-677(F) 11=-677(F) 12=-677(F)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582243
983787	T20	Monopitch	3	1	Job Reference (optional)	

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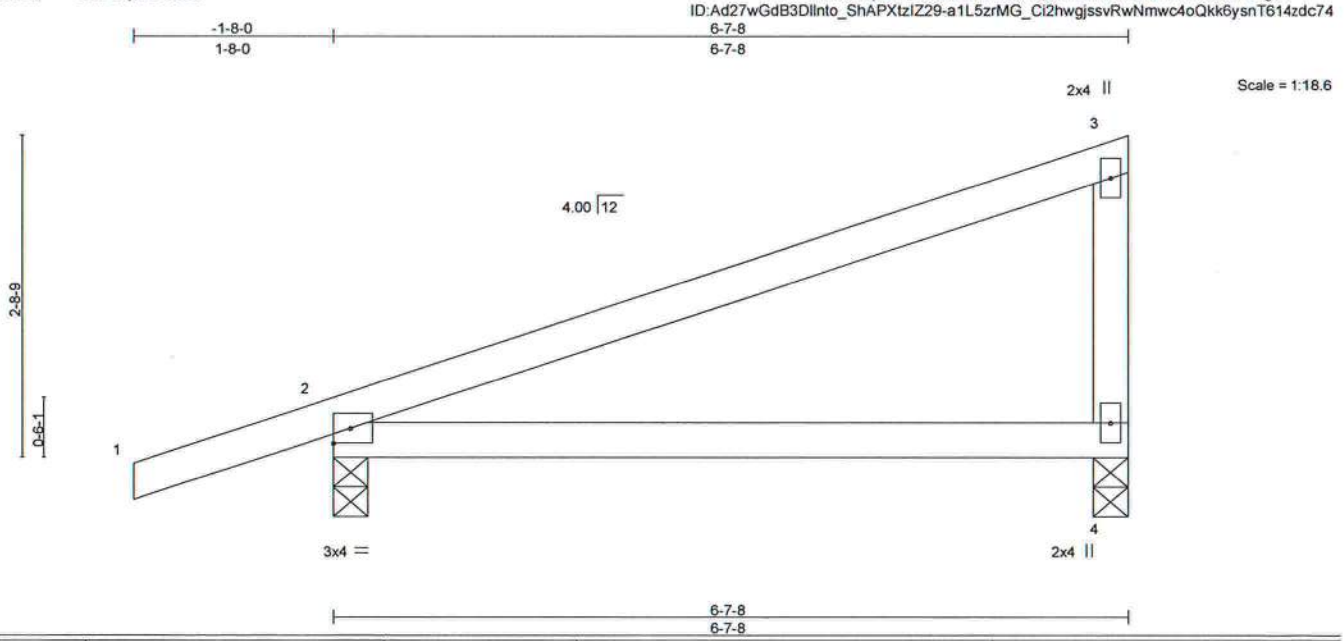

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.25	4-7	>312	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(TL)	-0.21	4-7	>374	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.03	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 26 lb	FT = 20%

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

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

REACTIONS. (lb/size) 4=228/0-3-8, 2=341/0-3-8
Max Horz 2=141(LC 8)
Max Uplift 4=-194(LC 8), 2=-272(LC 8)

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

NOTES- (6)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=194, 2=272.
5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T21	Half Hip Girder	1	1	T10582244

Job Reference (optional)

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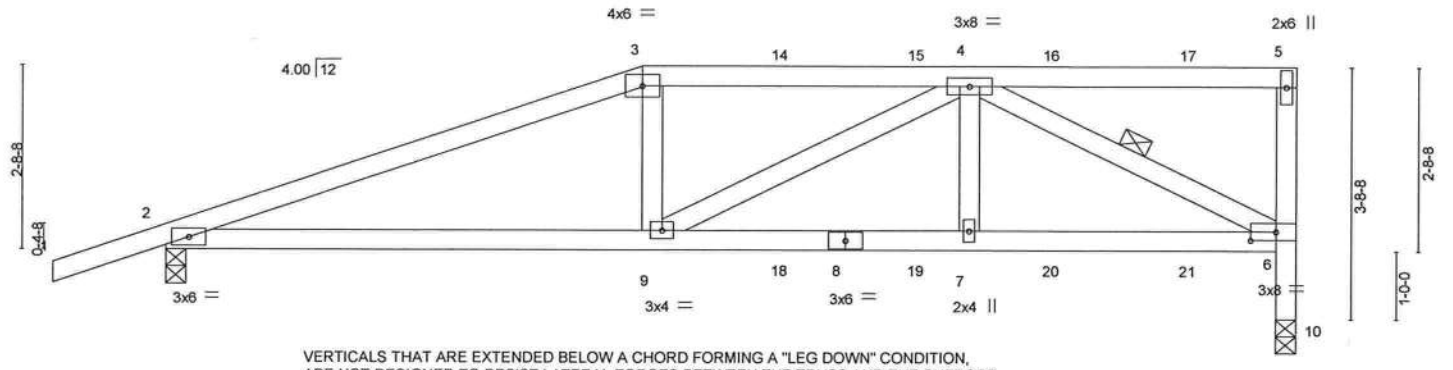
1-8-0	7-0-0	4-9-12	4-9-12

Scale = 1:32.6



VERTICALS THAT ARE EXTENDED BELOW A CHORD FORMING A "LEG DOWN" CONDITION, ARE NOT DESIGNED TO RESIST LATERAL FORCES BETWEEN THE TRUSS AND THE SUPPORT. ADDITIONAL DESIGN CONSIDERATIONS (BY OTHERS) ARE REQUIRED TO TRANSFER THESE FORCES TO THE APPROPRIATE LATERAL FORCE RESISTING ELEMENTS. (TYPICAL FOR ALL APPLICABLE "LEG DOWN" TRUSSES IN THIS JOB).

7-0-0	11-9-12	16-7-8
7-0-0	4-9-12	4-9-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.15	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(TL)	-0.20	7-9	>970	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.44	Horz(TL)	0.10	10	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 78 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS. (lb/size) 2=1116/0-3-8, 10=1192/0-3-8
Max Horz 2=107(LC 4)
Max Uplift 2=-736(LC 4), 10=-779(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2343/1558, 3-14=-2180/1514, 14-15=-2180/1514, 4-15=-2180/1514, 6-10=-1192/779
BOT CHORD 2-9=-1502/2165, 9-18=-1211/1825, 8-18=-1211/1825, 8-19=-1211/1825, 7-19=-1211/1825, 7-20=-1211/1825, 20-21=-1211/1825, 6-21=-1211/1825
WEBS 3-9=-201/390, 4-9=-341/400, 4-7=-172/366, 4-6=-1993/1323

NOTES- (11)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=736, 10=779.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 202 lb down and 219 lb up at 7-0-0, 92 lb down and 88 lb up at 9-1-1, 92 lb down and 88 lb up at 11-1-1, and 92 lb down and 88 lb up at 13-1-1, and 92 lb down and 88 lb up at 15-1-1 on top chord, and 288 lb down and 320 lb up at 7-0-0, 70 lb down and 71 lb up at 9-1-1, 70 lb down and 71 lb up at 11-1-1, and 70 lb down and 71 lb up at 13-1-1, and 70 lb down and 71 lb up at 15-1-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 6-11=-20

Concentrated Loads (lb)

Vert: 3=-155(B) 9=-288(B) 14=-92(B) 15=-92(B) 16=-92(B) 17=-92(B) 18=-46(B) 19=-46(B) 20=-46(B) 21=-46(B)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T22	Half Hip	1	1	T10582245
					Job Reference (optional)

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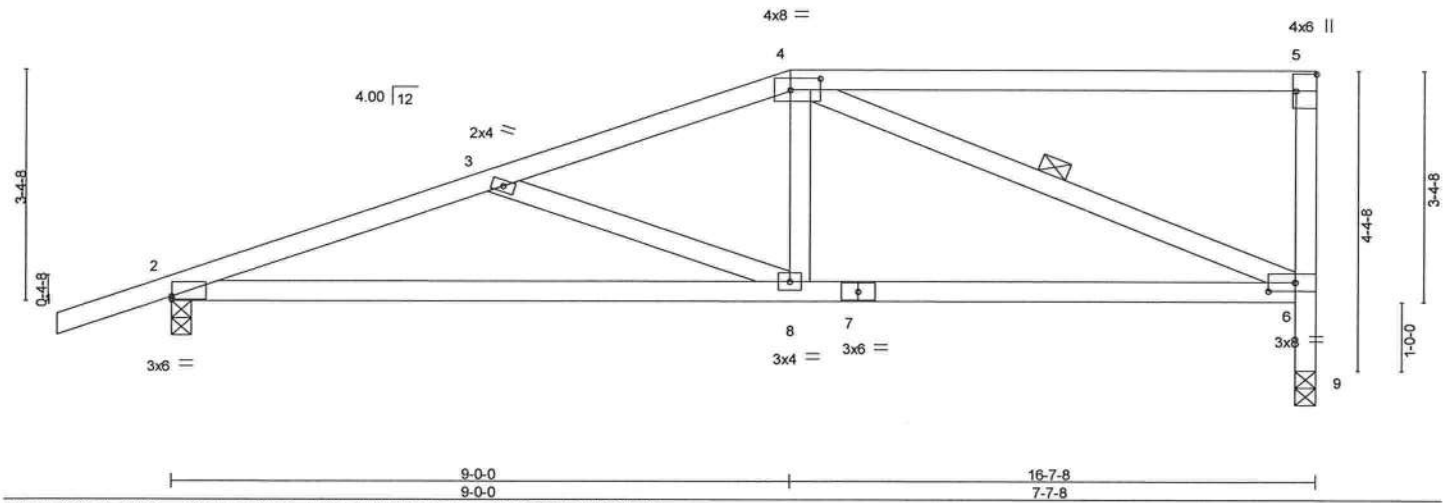
1-8-0	4-10-1	4-1-15	7-7-8

Scale: 3/8"=1'



9-0-0	16-7-8
9-0-0	7-7-8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.25	8-12	>777	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(TL)	-0.27	8-12	>737	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.05	9	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 81 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-11-10 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS. (lb/size) 2=711/0-3-8, 9=598/0-3-8
Max Horz 2=130(LC 8)
Max Uplift 2=-419(LC 8), 9=-353(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1249/1536, 3-4=-925/1242, 6-9=-598/820
BOT CHORD 2-8=-1579/1154, 7-8=-1242/859, 6-7=-1242/859
WEBS 3-8=-326/388, 4-8=-615/390, 4-6=-864/1265

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=419, 9=353.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582246
983787	T23	Half Hip	1	1	Job Reference (optional)	

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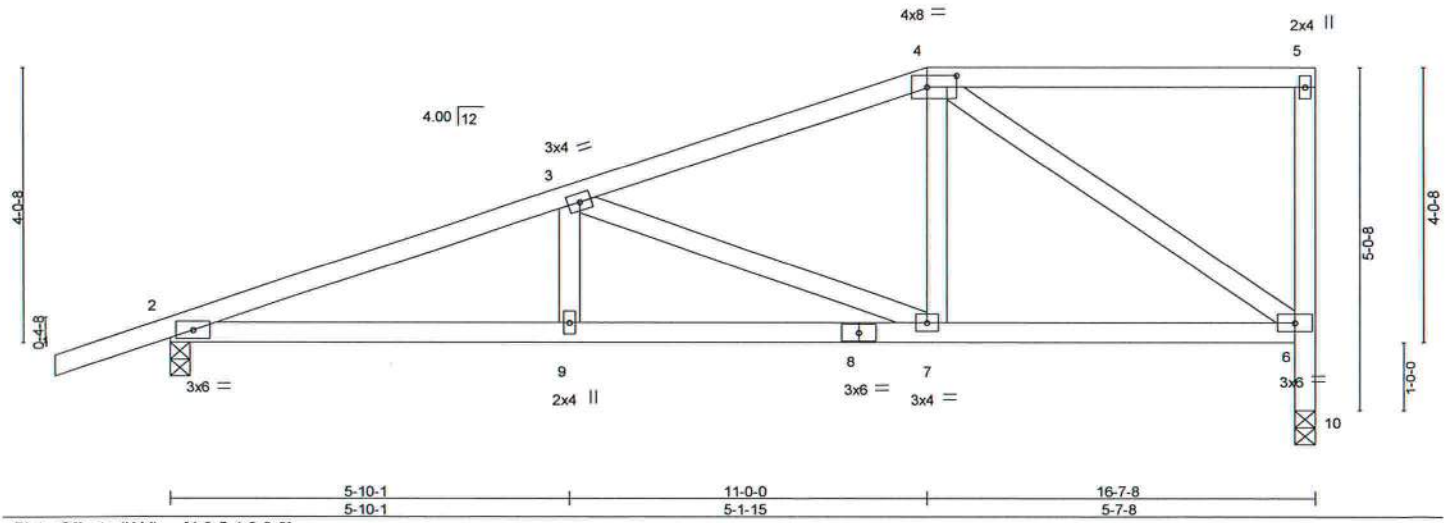
-1-8-0	5-10-1	11-0-0	16-7-8
1-8-0	5-10-1	5-1-15	5-7-8

Scale = 1:32.4



5-10-1	11-0-0	16-7-8
5-10-1	5-1-15	5-7-8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.10	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(TL)	-0.11	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(TL)	-0.05	10	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 84 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-0-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-4-6 oc bracing.

REACTIONS. (lb/size) 2=711/0-3-8, 10=599/0-3-8
Max Horz 2=152(LC 8)
Max Uplift 2=-413(LC 8), 10=-358(LC 8)

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

TOP CHORD	2-3=-1256/1626, 3-4=-683/874, 6-10=-599/836
BOT CHORD	2-9=-1680/1151, 8-9=-1680/1151, 7-8=-1680/1151, 6-7=-891/617
WEBS	3-7=-585/870, 4-7=-635/382, 4-6=-718/1043, 3-9=-292/206

NOTES- (9)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=413, 10=358.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	T24	Half Hip	1	1	T10582247

Job Reference (optional)

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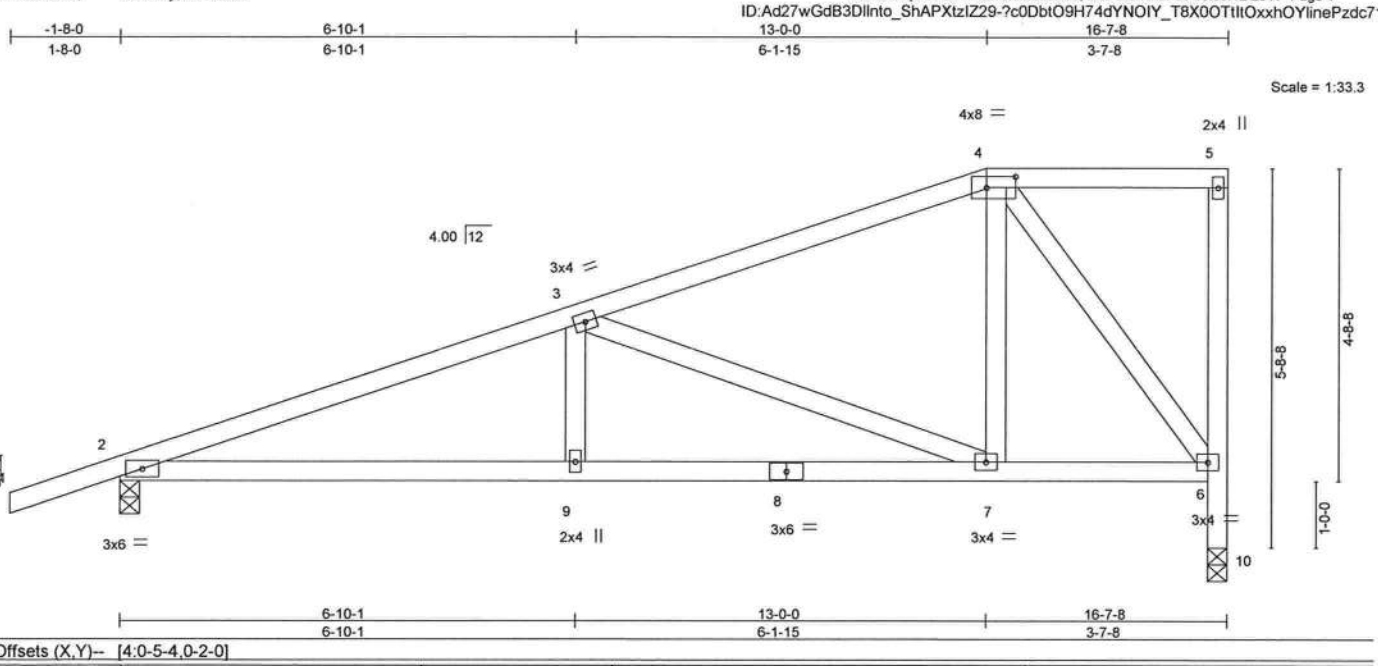

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.13	9-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(TL)	-0.12	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.04	10	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 87 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-9 oc bracing.

REACTIONS. (lb/size) 2=713/0-3-8, 10=597/0-3-8
Max Horz 2=175(LC 8)
Max Uplift 2=-409(LC 8), 10=-363(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1200/1515, 3-4=-466/547, 6-10=-597/847
BOT CHORD 2-9=-1604/1092, 8-9=-1604/1092, 7-8=-1604/1092, 6-7=-584/398
WEBS 3-9=-376/264, 3-7=-754/1113, 4-7=-692/407, 4-6=-635/934

NOTES- (9)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=409, 10=363.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	
983787	T25	Monopitch	14	1	Job Reference (optional)	T10582248

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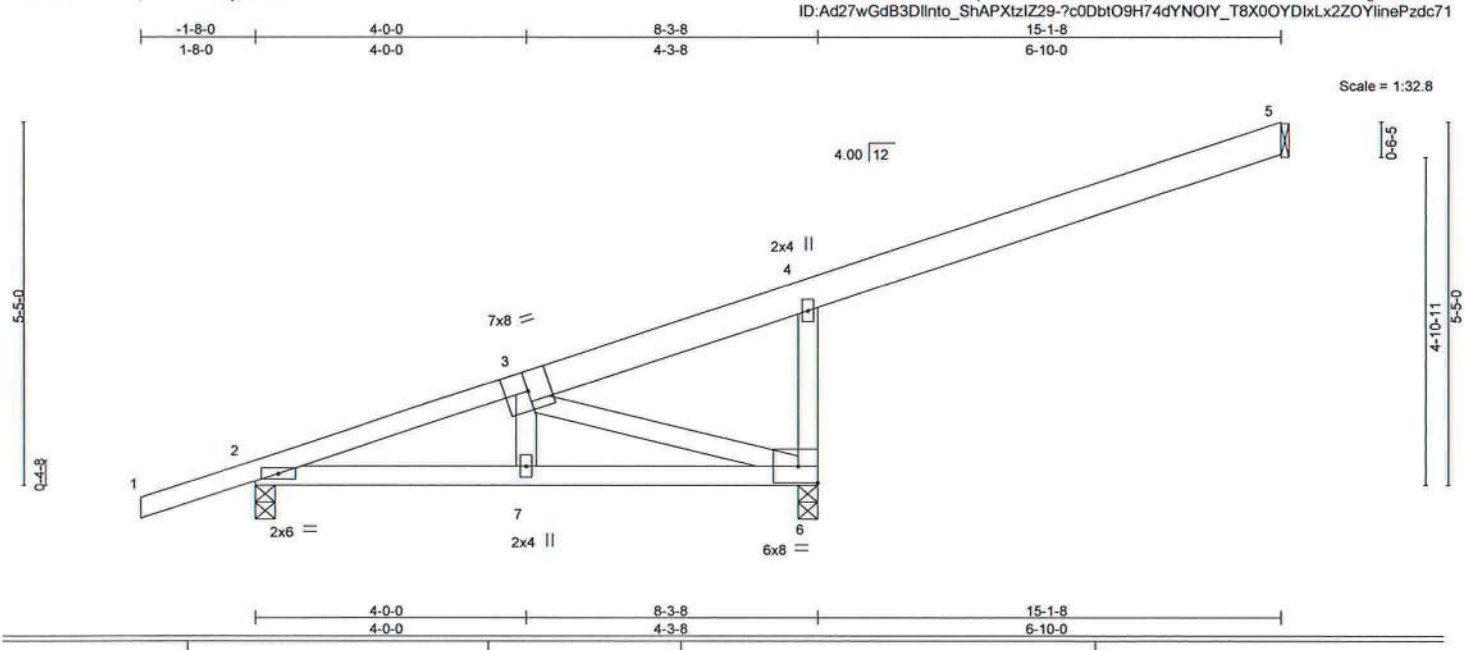

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.03	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(TL)	-0.03	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(TL)	-0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 60 lb	FT = 20%

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

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

REACTIONS. (lb/size) 5=149/Mechanical, 2=372/0-3-8, 6=545/0-3-8
Max Horz 2=195(LC 8)
Max Uplift 5=-82(LC 12), 2=-193(LC 8), 6=-319(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-393/417, 4-6=-389/465
BOT CHORD 2-7=-667/345, 6-7=-671/346
WEBS 3-6=-372/706, 3-7=-260/171

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed;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 3-6-0 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) 5 except (jt=lb) 2=193, 6=319.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	TG01	FLAT TRUSS	1	2	T10582249

Job Reference (optional)

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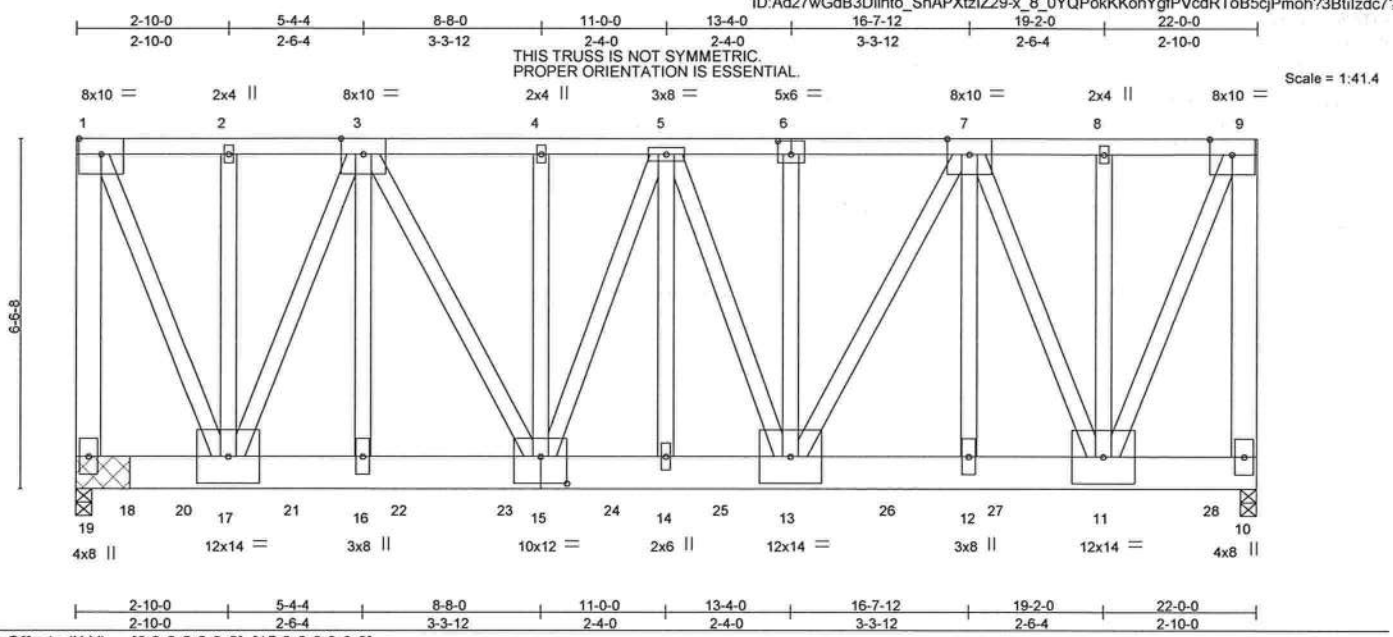

Plate Offsets (X,Y)-- [6:0-3-0,0-3-0], [15:0-6-0,0-6-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.10	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(TL)	-0.24	14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(TL)	0.03	10	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 530 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
1-19,9-10: 2x6 SP No.2, 1-17,3-17,7-11,9-11: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 19=6831/(0-3-8 + bearing block) (req. 0-4-4), 10=5650/0-3-8
Max Uplift 19=-864(LC 4), 10=-862(LC 4)
Max Grav 19=7164(LC 2), 10=5650(LC 1)

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

TOP CHORD 1-19=-6640/818, 1-2=-2852/342, 2-3=-2852/342, 3-4=-6744/924, 4-5=-6744/924, 5-6=-6903/1133, 6-7=-6903/1133, 7-8=-2259/354, 8-9=-2259/354, 9-10=-5278/846
BOT CHORD 17-21=-634/4969, 16-21=-634/4969, 16-22=-634/4969, 22-23=-634/4969, 15-23=-634/4969, 15-24=-1062/7072, 14-24=-1062/7072, 14-25=-1062/7072, 13-25=-1062/7072, 13-26=-719/4424, 12-26=-719/4424, 12-27=-719/4424, 11-27=-719/4424
WEBS 1-17=-850/7105, 3-17=-5538/765, 3-16=-93/1686, 3-15=-607/3717, 5-15=-1132/385, 5-14=-113/1159, 5-13=-549/65, 7-13=-865/5228, 7-12=-37/523, 7-11=-5670/956, 9-11=-880/5629

NOTES- (11)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 6-13 2x4 - 1 row at 0-6-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 19 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=864, 10=862.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

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NOTES- (11)

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1221 lb down and 82 lb up at 2-0-12, 1221 lb down and 82 lb up at 4-0-12, 1221 lb down and 82 lb up at 6-0-12, 1221 lb down and 82 lb up at 8-0-12, 1221 lb down and 82 lb up at 10-0-12, 1221 lb down and 82 lb up at 12-0-12, 3816 lb down and 1010 lb up at 13-3-3, 181 lb down at 15-2-5, 181 lb down at 17-2-5, and 181 lb down at 19-2-5, and 185 lb down at 21-2-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-9=-54, 10-19=-20

Concentrated Loads (lb)

Vert: 13=-3816(B) 11=-138(B) 20=-1086(B) 21=-1086(B) 22=-1086(B) 23=-1086(B) 24=-1086(B) 25=-1086(B) 26=-138(B) 27=-138(B) 28=-143(B)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	TG02	FLAT TRUSS	1	2	T10582250

Job Reference (optional)

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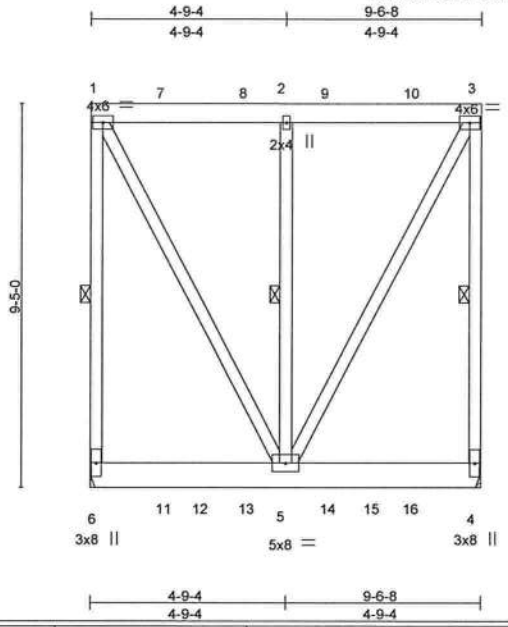

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.03	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.12	Vert(TL)	-0.06	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 234 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4, 2-5

REACTIONS. (lb/size) 6=3711/Mechanical, 4=3745/Mechanical
Max Uplift 6=-1098(LC 4), 4=-1109(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-3222/918, 1-7=-1196/358, 7-8=-1196/358, 2-8=-1196/358, 2-9=-1196/358, 9-10=-1196/358, 3-10=-1196/358, 3-4=-3242/921
WEBS 1-5=-765/2554, 2-5=-3417/794, 3-5=-765/2553

NOTES- (12)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide metal plate or equivalent at bearing(s) 6, 4 to support reaction shown.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1098, 4=1109.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 635 lb down and 127 lb up at 1-9-11, 635 lb down and 127 lb up at 3-9-11, and 635 lb down and 127 lb up at 5-9-11, and 635 lb down and 127 lb up at 7-9-11 on top chord, and 480 lb down and 261 lb up at 1-9-11, 480 lb down and 261 lb up at 3-9-11, and 480 lb down and 261 lb up at 5-9-11, and 480 lb down and 261 lb up at 7-9-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Continued on page 2

MiTek
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Tampa, FL 36610

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-3=-304, 4-6=-20

Concentrated Loads (lb)

Vert: 7=-635 8=-635 9=-635 10=-635 11=-480(F) 13=-480(F) 14=-480(F) 16=-480(F)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	TG03	FLAT TRUSS	1	2	T10582251

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Job Reference (optional)

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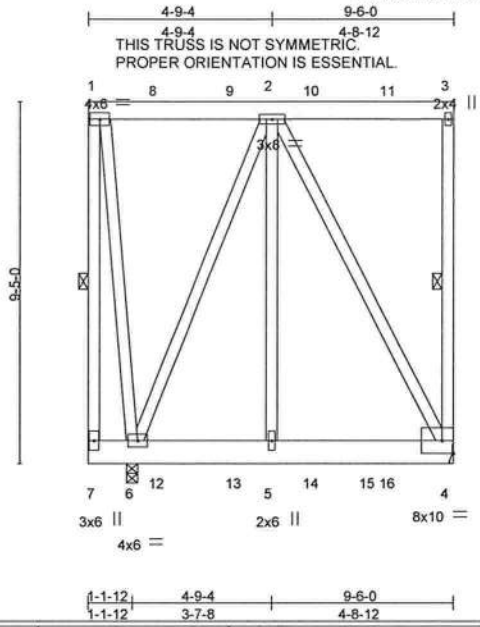

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.15	Vert(TL)	-0.04	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 257 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-7, 3-4

REACTIONS. (lb/size) 6=3648/0-3-8, 4=3307/Mechanical
Max Uplift 6=-1265(LC 4), 4=-1109(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-566/227, 3-4=-913/231
BOT CHORD 6-12=-304/902, 12-13=-304/902, 5-13=-304/902, 5-14=-304/902, 14-15=-304/902, 15-16=-304/902, 4-16=-304/902
WEBS 1-6=-356/70, 2-6=-2484/805, 2-5=-510/733, 2-4=-1939/655

NOTES- (12)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide metal plate or equivalent at bearing(s) 4 to support reaction shown.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1265, 4=1109.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 625 lb down and 130 lb up at 1-9-3, 625 lb down and 130 lb up at 3-9-3, and 625 lb down and 130 lb up at 5-9-3, and 625 lb down and 130 lb up at 7-9-3 on top chord, and 185 lb down and 241 lb up at 1-9-3, 185 lb down and 241 lb up at 3-9-3, and 185 lb down and 241 lb up at 5-9-3, and 185 lb down and 241 lb up at 7-9-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-304(F=-250), 5-7=-20, 4-5=-220(B=-200)

Concentrated Loads (lb)

Vert: 8=-625 9=-625 10=-625 11=-625 12=-138(B) 13=-138(B) 14=-138(B) 16=-138(B)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	TG04	ROOF TRUSS	3	1	T10582252

Builders FirstSource, Lake City, FL 32055

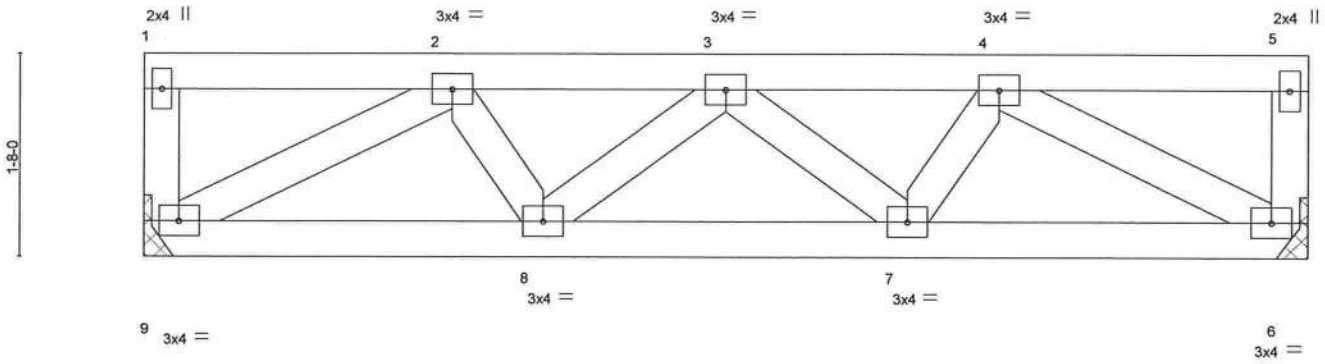
Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Mar 06 16:08:16 2017 Page 1

ID:Ad27wGdB3DlInto_ShAPXtzIZ29-tNGkRERfKLa21?i3nqX4isYGNvHttrm_TNg_mAzdc6z

2-6-6	4-9-4	7-0-2	9-6-8
2-6-6	2-2-14	2-2-14	2-6-6

Scale = 1:18.2



3-3-5	6-3-3	9-6-8
3-3-5	2-11-13	3-3-5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.27	Vert(TL)	-0.03	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 48 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-5 oc bracing.

REACTIONS. (lb/size) 9=509/Mechanical, 6=509/Mechanical
Max Uplift 9=-90(LC 8), 6=-90(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-746/329, 3-4=-746/329
BOT CHORD 8-9=-309/673, 7-8=-393/864, 6-7=-309/673
WEBS 2-9=-746/344, 4-6=-746/344

NOTES- (8)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	
983787	TG05	ROOF TRUSS	3	1	Job Reference (optional)	T10582253

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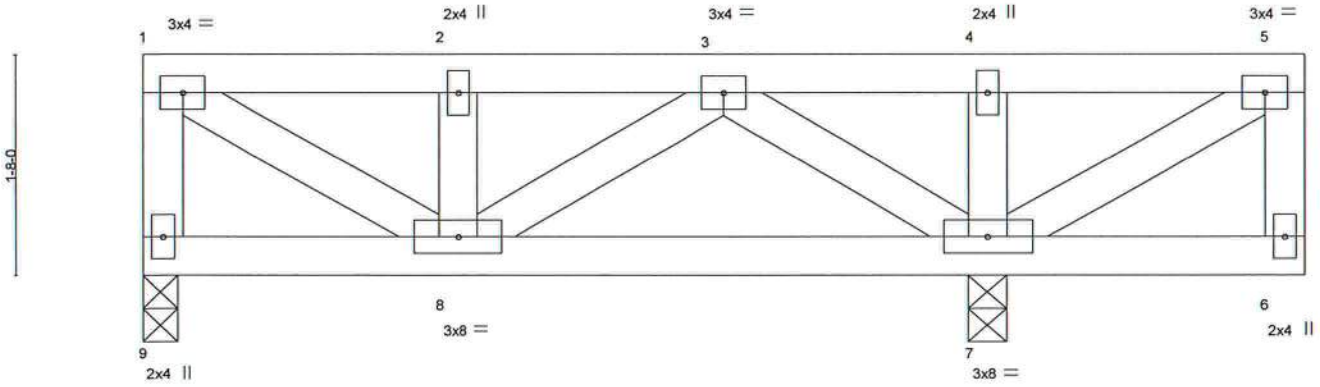
ID:Ad27wGdB3DlInto_ShAPXtzIZ29-LZq6eaSI5fjvf9HFKX3JE35QDJflcJd7h1PXIczdc6y

2-4-3	4-3-15	6-3-12	8-7-15
2-4-3	1-11-12	1-11-12	2-4-3

Scale = 1:16.6



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

2-4-3	6-3-12	6-5-7	8-7-15
2-4-3	3-11-9	0-1-12	2-2-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.10	Vert(TL)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 45 lb	FT = 20%

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

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

REACTIONS. (lb/size) 9=296/0-3-0, 7=625/0-3-8
Max Uplift 9=-52(LC 8), 7=-111(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-280/138, 1-2=-302/137, 2-3=-302/137
WEBS 1-8=-150/333, 3-7=-423/216

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 7=111.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	TG06	Flat Girder	1	2	T10582254

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Mar 06 16:08:17 2017 Page 1

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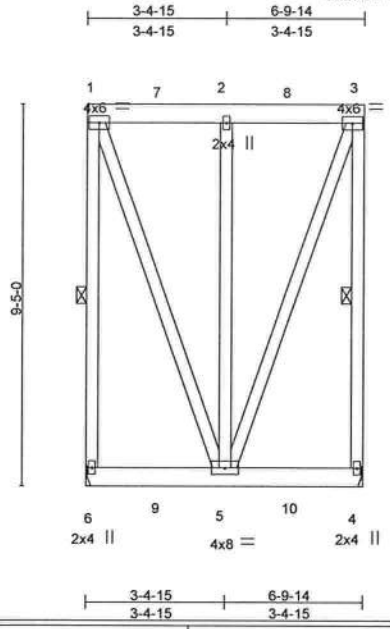

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.01	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.25	Vert(TL)	-0.03	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2014/TPI2007	(Matrix-M)							Weight: 193 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4

REACTIONS. (lb/size) 6=1956/Mechanical, 4=1956/Mechanical
Max Uplift 6=-598(LC 4), 4=-598(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1709/507, 1-7=-498/154, 2-7=-498/154, 2-8=-498/154, 3-8=-498/154, 3-4=-1709/507
WEBS 1-5=-451/1453, 2-5=-1655/327, 3-5=-451/1453

NOTES- (11)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 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.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=598, 4=598.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 663 lb down and 129 lb up at 1-9-11, and 663 lb down and 129 lb up at 3-4-15, and 663 lb down and 129 lb up at 5-0-3 on top chord, and 480 lb down and 261 lb up at 1-9-11, and 480 lb down and 261 lb up at 3-4-15, and 480 lb down and 261 lb up at 5-0-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-54, 4-6=-20

Continued on page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 5=-480(F) 2=-663 7=-663 8=-663 9=-480(F) 10=-480(F)

Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE
983787	TG07	Flat	2	1	T10582255

Job Reference (optional)

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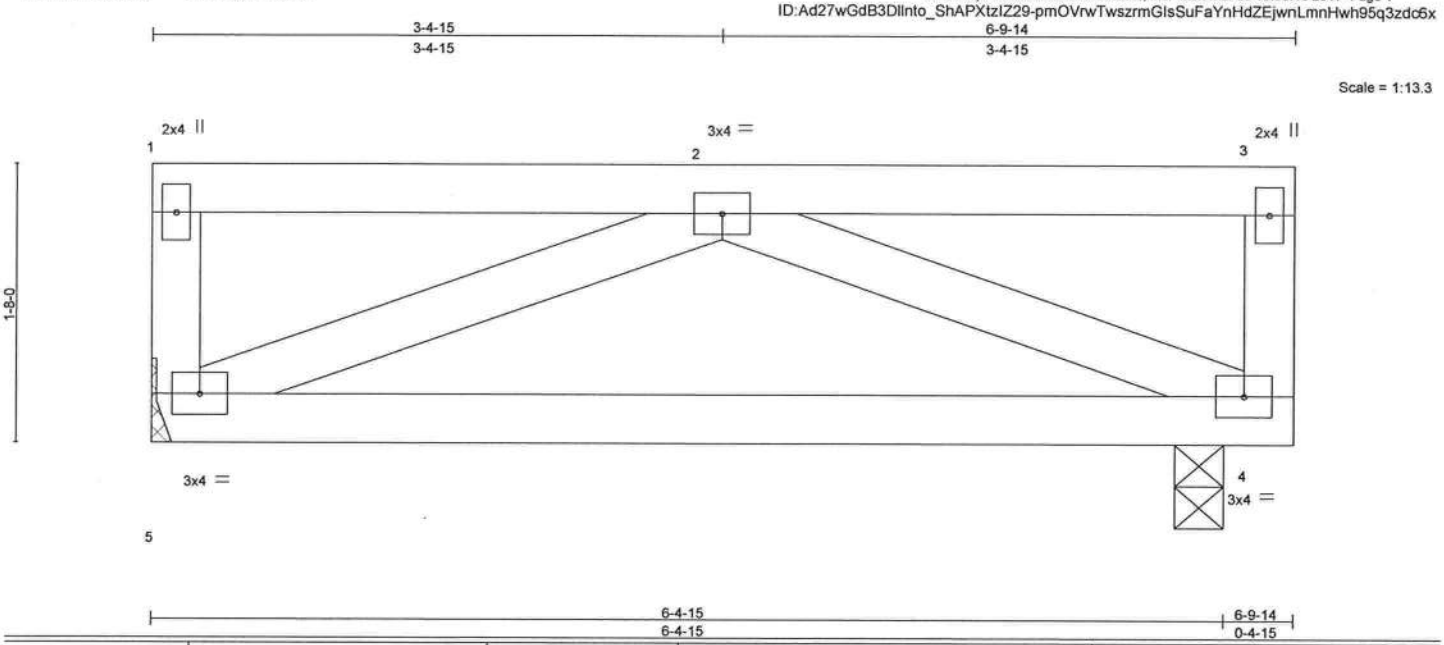

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.11	4-5	>718	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(TL)	-0.19	4-5	>410	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 33 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-9-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=359/Mechanical, 4=359/0-3-8
Max Uplift 5=-64(LC 8), 4=-64(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-300/472
WEBS 2-5=-513/325, 2-4=-513/325

NOTES- (8)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - LOT 112 PRESERVE	T10582256
983787	TG08	FLAT	12	1	Job Reference (optional)	

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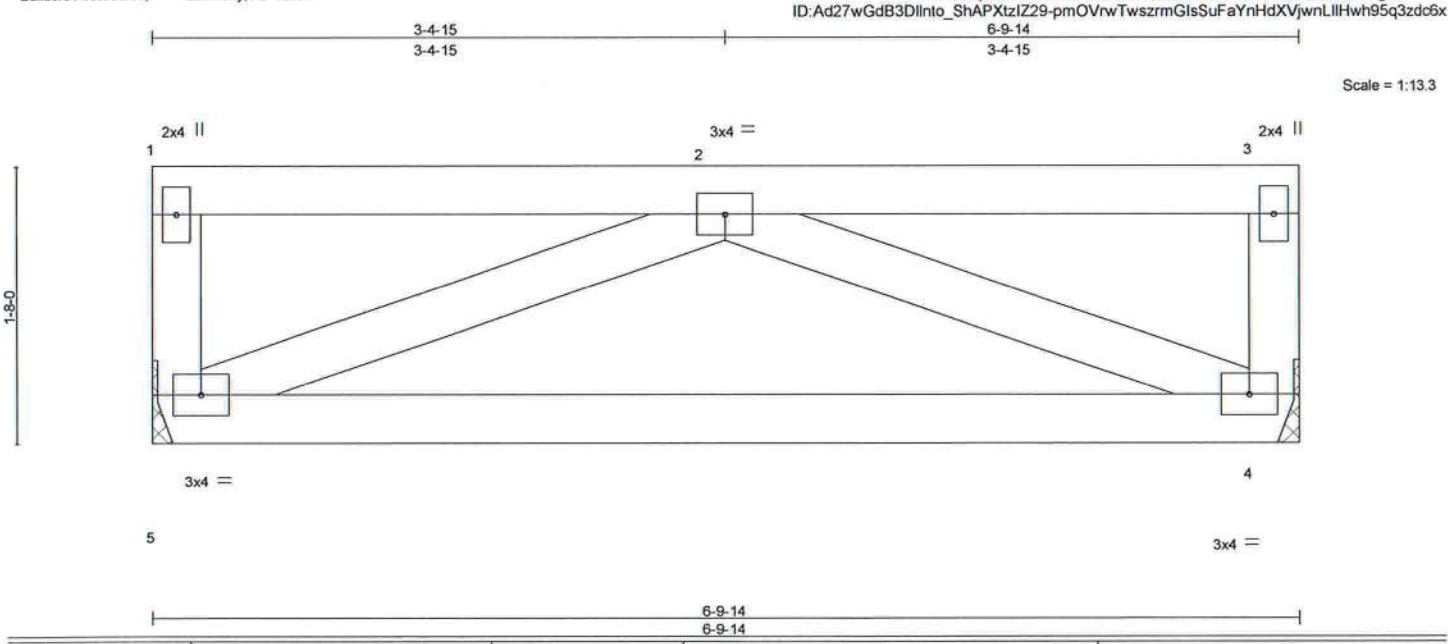

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.11	4-5	>718	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(TL)	-0.19	4-5	>410	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 33 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-9-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=490/Mechanical, 4=490/Mechanical
Max Uplift 5=-64(LC 8), 4=-64(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-300/661
WEBS 2-5=-718/325, 2-4=-718/325

NOTES- (8)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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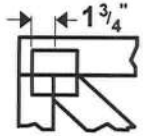
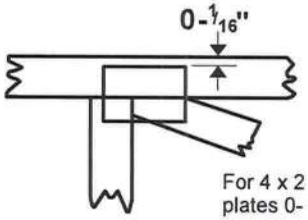
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

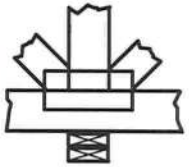
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

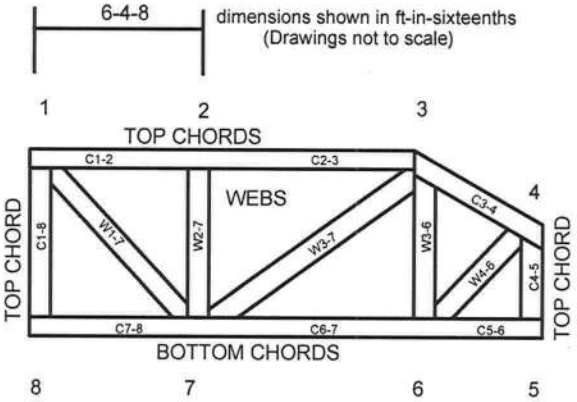


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

MiTek®

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

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Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

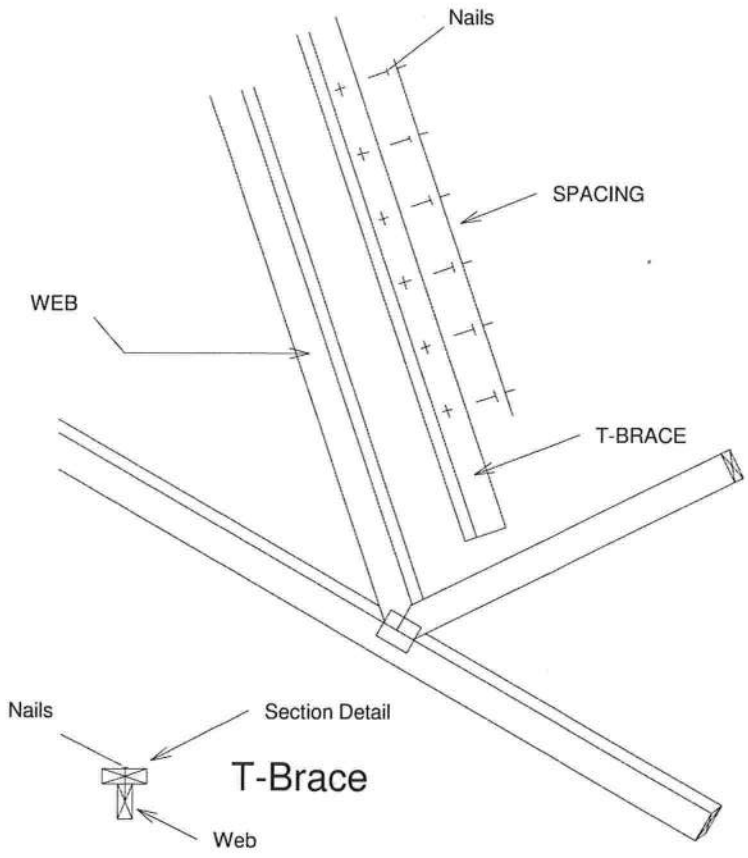
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

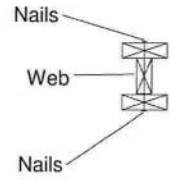
	Brace Size for One-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

	Brace Size for Two-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

T-Brace / I-Brace must be same species and grade (or better) as web member.



T-Brace



I-Brace

FEBRUARY 14, 2012	TRUSSED VALLEY SET DETAIL	ST-VALLEY HIGH WIND1

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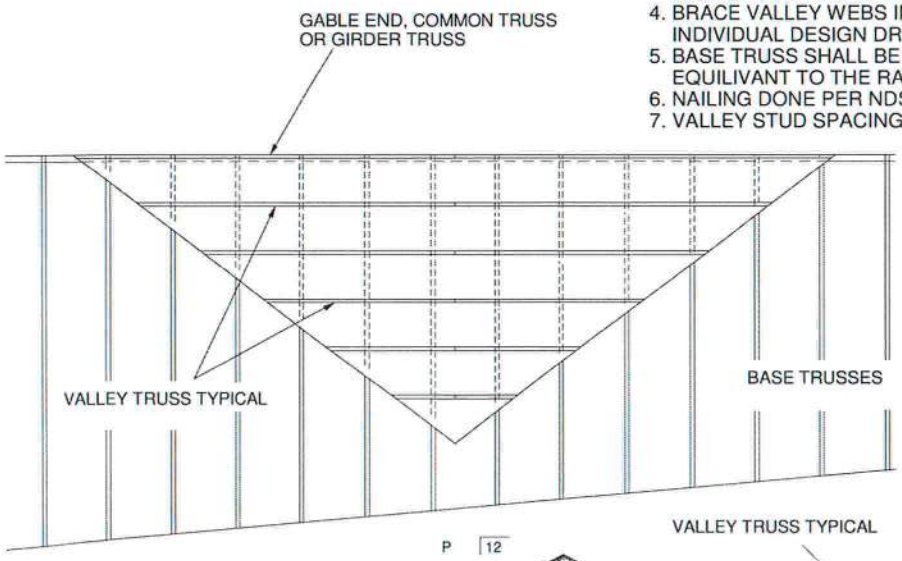
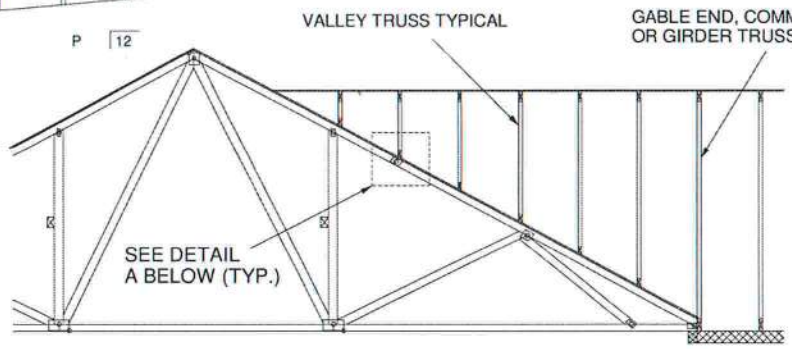
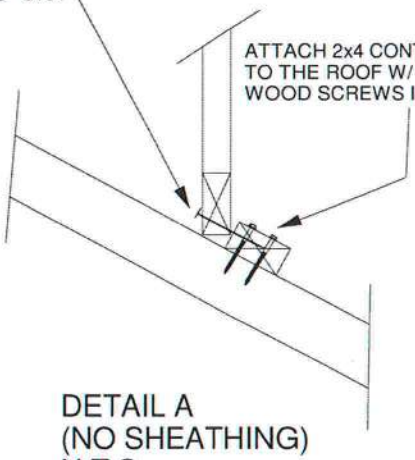
GENERAL SPECIFICATIONS

1. NAIL SIZE = 3" X 0.131" = 10d
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
   DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
   SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE
   INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING
   EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.







DETAIL A
(NO SHEATHING)
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES

JANUARY 28, 2015	LATERAL TOE-NAIL DETAIL	ST-TOENAIL_SP

MiTek USA, Inc.

NOTES:
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

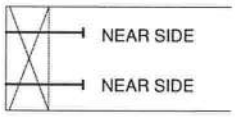
EXAMPLE:
(3) - 16d NAILS (.162" diam. x 3.5") WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

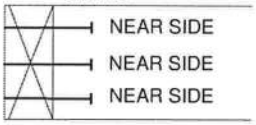
THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

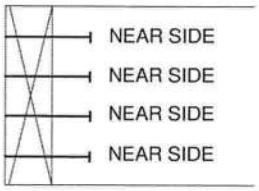
SIDE VIEW
(2x3)
2 NAILS

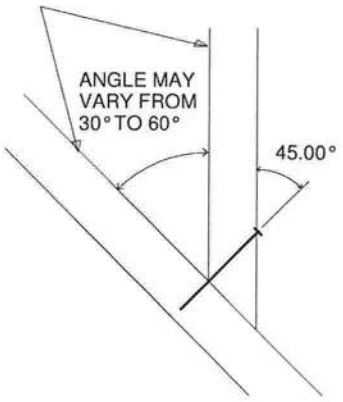


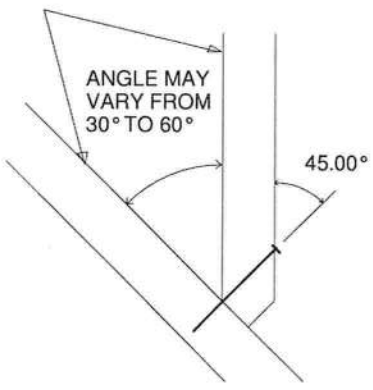
SIDE VIEW
(2x4)
3 NAILS

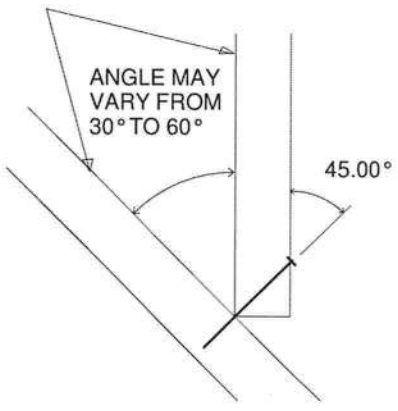


SIDE VIEW
(2x6)
4 NAILS









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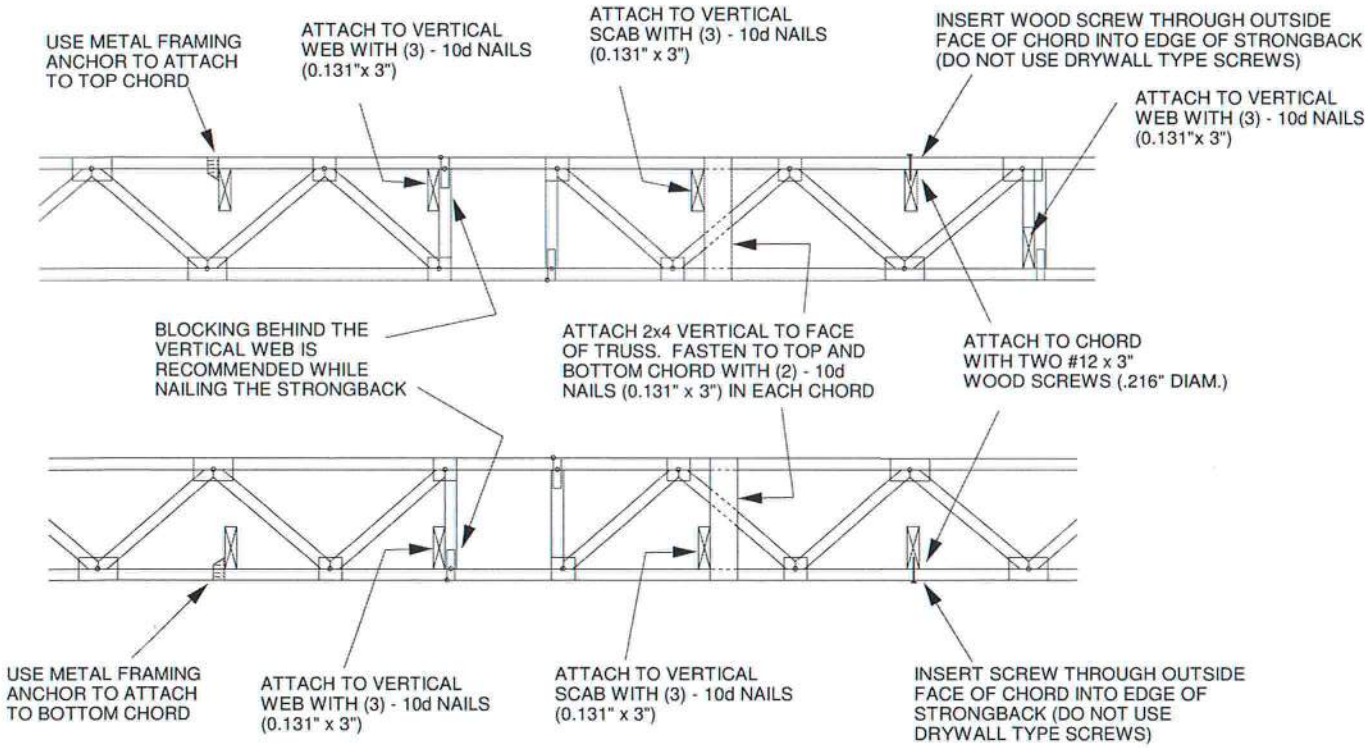
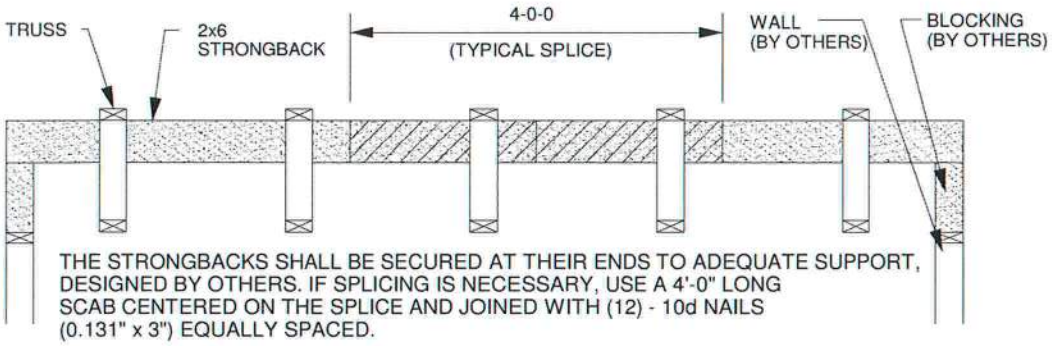
TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.





THE STRONGBACKS SHALL BE SECURED AT THEIR ENDS TO ADEQUATE SUPPORT, DESIGNED BY OTHERS. IF SPLICING IS NECESSARY, USE A 4'-0" LONG SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d NAILS (0.131" x 3") EQUALLY SPACED.

ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d NAILS (0.131" x 3") STAGGERED AND EQUALLY SPACED.
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

FEBRUARY 14, 2012	STANDARD PIGGYBACK TRUSS CONNECTION DETAIL	ST-PIGGY-7-10

MiTek USA, Inc.

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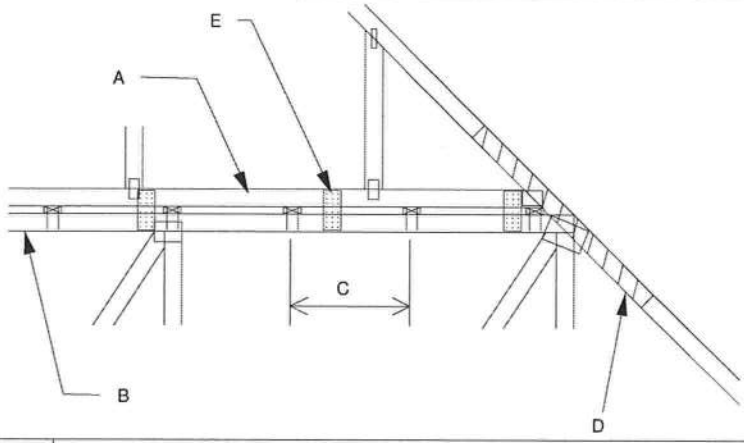
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ASCE 7-10 DURATION OF LOAD INCREASE : 1.60
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

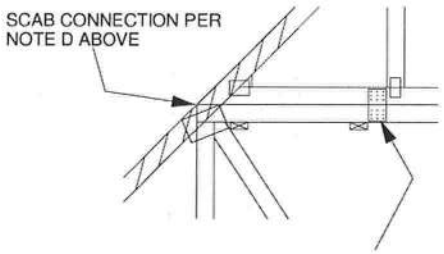
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) 0.131" X 3.5" NAILS EACH.
D - 2 X __ X 4'-0" SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF 0.131" X 3" NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

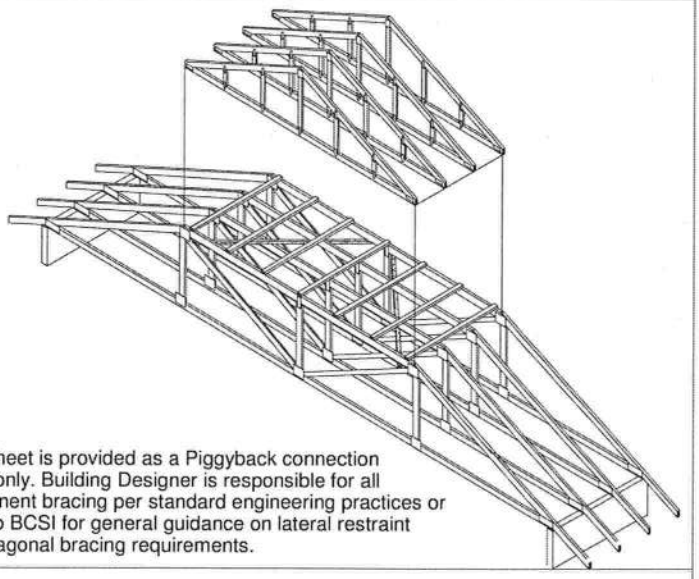


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

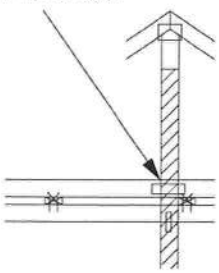


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
2) ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.

FEBRUARY 14, 2012	Standard Gable End Detail	ST-GE130-001

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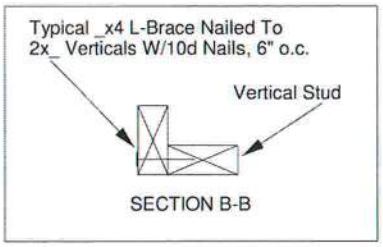
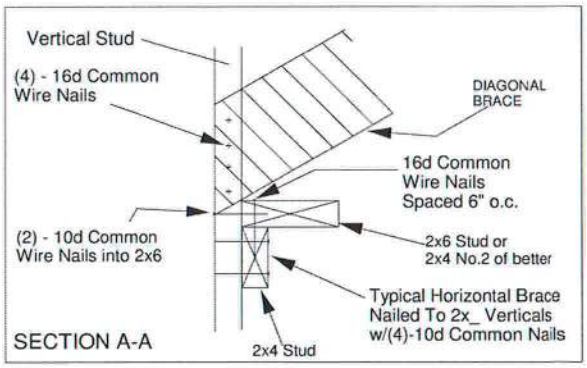
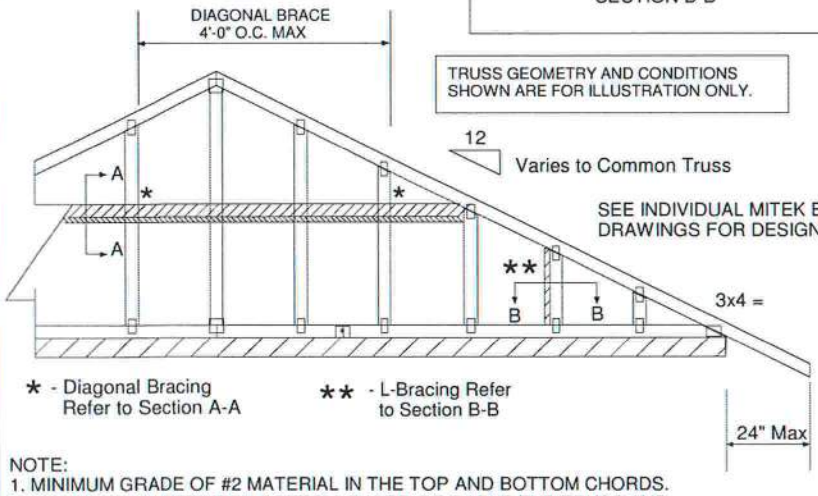






TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

12 Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

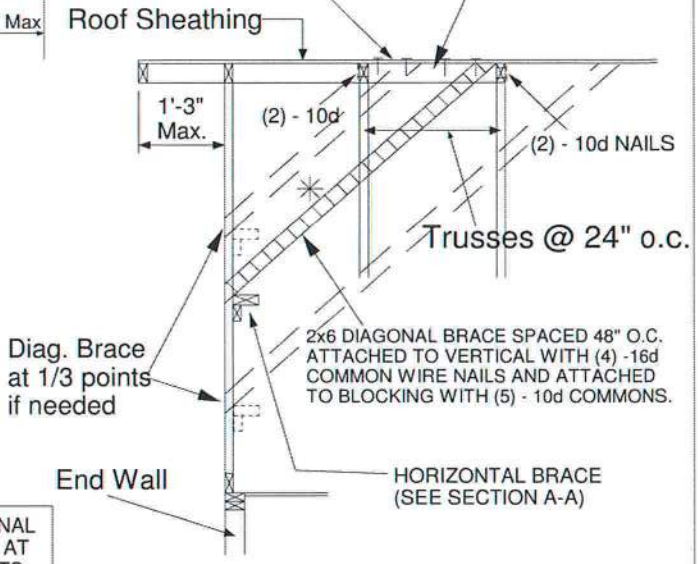
* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

24" Max

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d COMMON WIRE NAILS.

(4) - 8d NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK



NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 SPF Std/Stud	12" O.C.	4-0-7	4-3-2	6-0-4	8-0-15	12-1-6
2x4 SPF Std/Stud	16" O.C.	3-7-0	3-8-4	5-2-10	7-1-15	10-8-15
2x4 SPF Std/Stud	24" O.C.	2-11-1	3-0-2	4-3-2	5-10-3	8-9-4

✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d common wire nails 8in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

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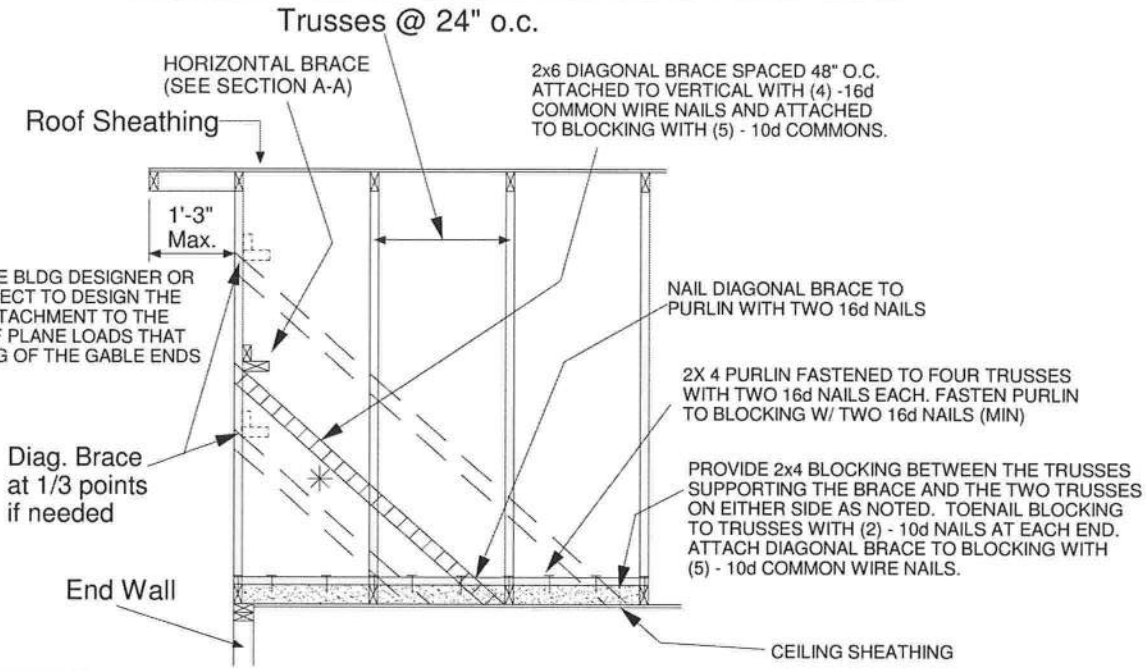
ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

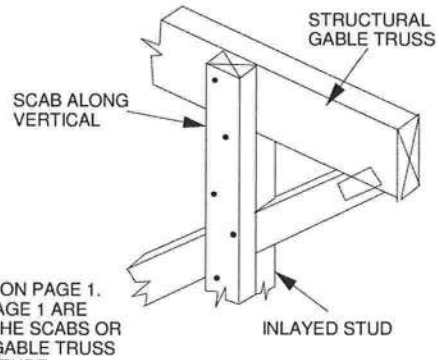
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

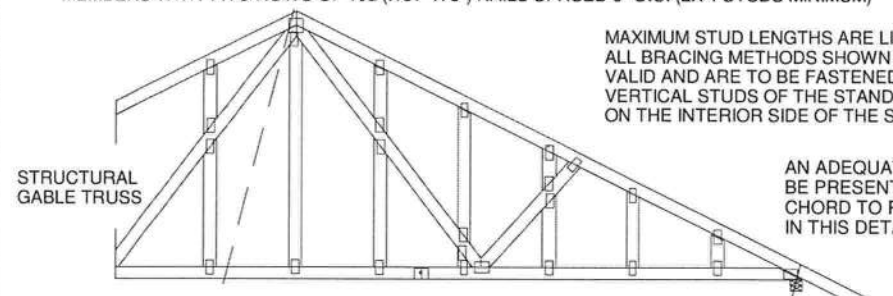
METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS GREATER 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)

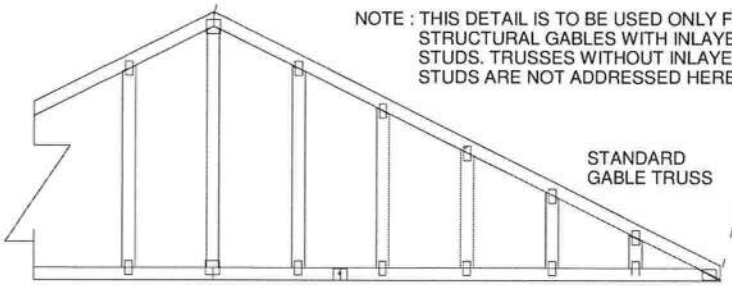


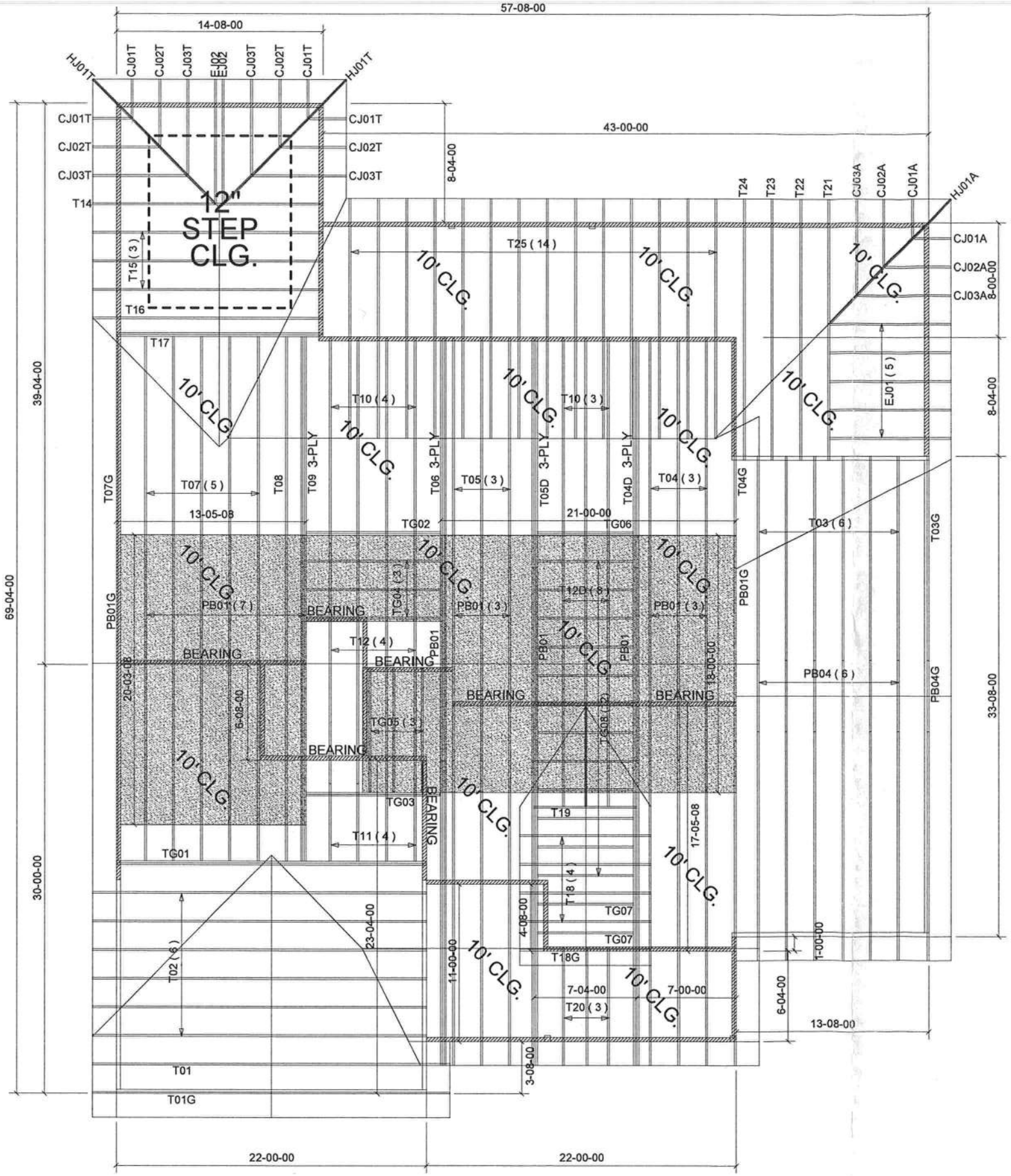
MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1. ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.



AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

NOTE : THIS DETAIL IS TO BE USED ONLY FOR STRUCTURAL GABLES WITH INLAYED STUDS. TRUSSES WITHOUT INLAYED STUDS ARE NOT ADDRESSED HERE.





8/12 - 4/12 PITCH
20" O/H

SOME CEILINGS FRAMED DOWN BY BLDR.

BEARING HEIGHT SCHEDULE

	9' 1-1/8"
	10' 1-1/8"

NOTES:

1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.

3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.

5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

Builders FirstSource

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PHONE: 850-835-4541 FAX: 850-835-6835

BUILDER: AARON SIMQUE

LEGAL ADDRESS: LOT 112 THE PRESERVE

MODEL:		Revision:
BRIST-OL		Rev. By:
DATE: 3-5-17	DRAWN BY: KLH	Original Reference #: 983787
1st Level Job #:	2nd Level Job #:	Roof Job #: 983787

MITEK PLATE APPROVAL #'s 2197.2 - 2197.4, WEYERHAUSER PRODUCT #'s 1630.2 - 1630.10