

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

RE: RSNROLAND - ROLAND

MiTek USA, Inc.

6904 Parke East Blvd.

Customer Info: ROSENBOOM CONSTRUCTION Project Name: ROLAND RESIDENCE Model:

Lot/Block:

Subdivision:

Address: 2405 SW BRIM ST

City: LAKE CITY

Site Information:

State: FL

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

Name:

License #:

Address:

City:

State:

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

Loading Conditions):

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10

Wind Speed: 130 mph

Roof Load: 40.0 psf

Floor Load: N/A psf

This package includes 8 individual, Truss Design Drawings and 0 Additional Drawings.

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

No.	Seal#	Truss Name	Date
1	T22065562	A	12/4/20
2	T22065563	A1	12/4/20
3	T22065564	A2	12/4/20
4	T22065565	A3	12/4/20
2 3 4 5	T22065566	A3ET	12/4/20
6	T22065567	AET	12/4/20
6	T22065568	В	12/4/20
8	T22065569	BET	12/4/20



This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature.

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

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

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2021.

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



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

December 4,2020

Truss Type ROLAND Job Truss Qty PIV T22065562 RSNROLAND Common 6 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 3 09:55:57 2020 Page 1 SANTA FE TRUSS COMPANY INC. ID:EF32TCII_XICUpKf5reGB6z2oYp-mchqFD70ewjb??Jc9YWKq7f_Wpf0X2gChcghXHyCipm

17-6-0

7-3-2

17-6-0

28-10-5

Structural wood sheathing directly applied.

6-12, 4-12

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:69.7

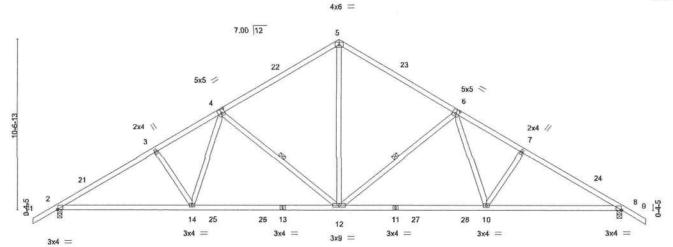


Plate Off	sets (X,Y)-	8-4-7 [2:0-0-5,0-0-0], [4:0-2-8,0	-3-0], [6:0-2-8,	9-1 0-3-0], [8:0-0-			9-1	1-9			8-4-7	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.19	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.38	10-12	>999	240	950 MAD (1994)	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	-AS	Wind(LL)	0.08	12	>999	240	Weight: 190 lb	FT = 15%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD WERS

2x4 SP No.2

Max Horz 2=222(LC 11) Max Uplift 2=-132(LC 12), 8=-132(LC 12)

8-4-7

Max Grav 2=1490(LC 1), 8=1490(LC 1)

(size) 2=0-3-8, 8=0-3-8

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

TOP CHORD 2-3=-2351/232, 3-4=-2171/252, 4-5=-1525/259, 5-6=-1525/259, 6-7=-2171/252,

7-8=-2351/232

BOT CHORD 2-14=-90/2075, 12-14=-41/1808, 10-12=-51/1712, 8-10=-100/1963

WEBS 5-12=-82/1014, 6-12=-693/160, 6-10=0/479, 7-10=-264/101, 4-12=-693/160, 4-14=0/479,

10-2-14

3-14=-264/101

NOTES.

1) Unbalanced roof live loads have been considered for this design,

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -1-6-0 to 2-0-0, Interior(1) 2-0-0 to 17-6-0, Exterior(2) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 36-6-0 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=132, 8=132.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

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

December 4,2020

体 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5:19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of Individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

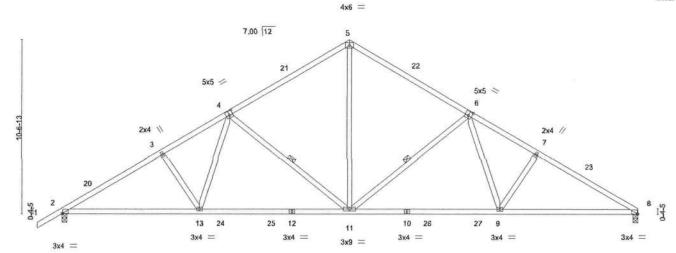


Qty Job Truss Truss Type ROLAND Ply T22065563 RSNROLAND COMMON 1 Job Reference (optional) SANTA FE TRUSS COMPANY INC. BELL EL 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 3 09:55:58 2020 Page 1

17-6-0

ID:EF32TCII_XICUpKf5reGB6z2oYp-EoFCTZ8ePErSc9upjF1ZNLC8DD?GGVtLwGQF3kyCipI 24-9-2 28-10-5 35-0-0

Scale = 1:68.3



8-4-7 9-1-9 Plate Offsets (X,Y)-[2:0-0-9,0-0-0], [4:0-2-8,0-3-0], [6:0-2-8,0-3-0], [8:0-0-9,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL **PLATES** GRIP (loc) I/defl TCLL 20.0 Plate Grip DOL 1.25 TC 0.58 Vert(LL) -0.19 11-13 >999 MT20 244/190 360 TCDL 10.0 Lumber DOL 1.25 BC 0.81 Vert(CT) -0.39 11-13 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.28 Horz(CT) 0.10 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS Wind(LL) 0.08 9-19 >999 240 Weight: 187 lb FT = 15%

17-6-0

LUMBER-

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

1-6-0

BRACING-

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

26-7-9

WEBS

1 Row at midpt

35-0-0

REACTIONS. (size) 2=0-3-8, 8=0-3-8

Max Horz 2=218(LC 11)

Max Uplift 2=-133(LC 12), 8=-83(LC 12) Max Grav 2=1492(LC 1), 8=1398(LC 1)

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

TOP CHORD 2-3=-2355/234, 3-4=-2175/254, 4-5=-1529/260, 5-6=-1528/264, 6-7=-2187/276,

7-8=-2351/257

BOT CHORD 2-13=-127/2067, 11-13=-77/1800, 9-11=-75/1720, 8-9=-140/1981

WEBS 5-11=-87/1016, 6-11=-700/162, 6-9=-1/492, 7-9=-262/118, 4-11=-693/160, 4-13=0/479,

10-2-14

3-13=-264/101

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -1-6-0 to 2-0-0, Interior(1) 2-0-0 to 17-6-0, Exterior(2) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 35-0-0 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) 8 except (jt=lb) 2=133.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

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

December 4,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTak® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, eraction and bracing of busses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20601





35-0-0 4-11-3 4-11-3

Scale = 1:69,5

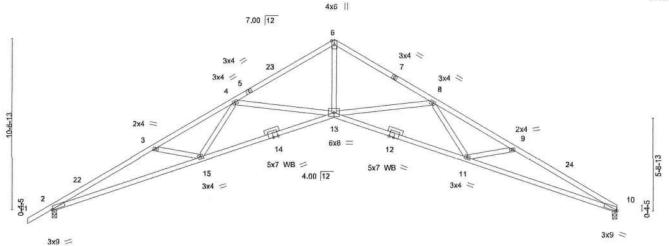


Plate Offsets (X,Y)		9-2-15 [2:0-0-13,Edge], [10:0-0-	(3,Edge)	8-	8-3-1		8-3-1				9-2-15	1	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.54	13-15	>783	360	MT20	244/190	
CDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-1.13 1	13-15	>370	240			
CLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.91	10	n/a	n/a			
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	-AS	Wind(LL)	0.36 1	13-15	>999	240	Weight: 166 lb	FT = 15%	

BRACING-

TOP CHORD

BOT CHORD

25-9-1

35-0-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

17-6-0

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 *Except* **BOT CHORD**

2-14,10-12: 2x4 SP No.1 2x4 SP No.2

WERS **OTHERS** 2x4 SP No.2

REACTIONS.

(size) 10=0-3-8, 2=0-3-8 Max Horz 2=218(LC 11)

Max Uplift 10=-83(LC 12), 2=-133(LC 12)

9-2-15

Max Grav 10=1398(LC 1), 2=1492(LC 1)

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

TOP CHORD 2-3=-4919/420, 3-4=-4512/326, 4-6=-3288/201, 6-8=-3288/208, 8-9=-4533/348, 9-10=-4950/457

BOT CHORD 2-15=-314/4408, 13-15=-150/3847, 11-13=-147/3856, 10-11=-340/4441 WEBS

6-13=-62/2860, 8-13=-913/238, 8-11=-1/579, 9-11=-353/192, 4-13=-907/233,

4-15=0/573, 3-15=-355/171

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; B=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -1-6-0 to 2-0-0, Interior(1) 2-0-0 to 17-6-0, Exterior(2) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 35-0-0 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) 10, 2 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) 10 except ([t=lb])
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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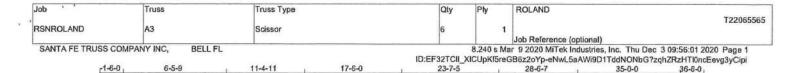
Julius Lee PE No. 34869 MiTek USA, Inc. FL Cert 8834 6904 Parke East Blvd. Tampa FL 33610 Date:

December 4,2020

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL7473 rev. 5/19/2020 REFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, eraction and bracing of trusses and truss systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





4-11-3

35-0-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Scale = 1:70,5

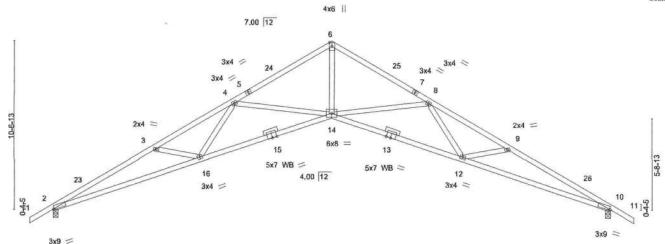


Plate Offs	ets (X,Y)-	9-2-15 [2:0-0-13,Edge], [10:0-0-1	3,Edge]	8-	-3-1		8-3-1				9-2-15	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.50	12-14	>843	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-1.06	12-14	>396	240	e orantesation	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.86	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TI	PI2014	Matrix	x-AS	Wind(LL)	0.31	12-14	>999	240	Weight: 169 lb	FT = 15%

BRACING-

TOP CHORD

BOT CHORD

25-9-1

17-6-0

LUMBER-

TOP CHORD 2x4 SP No.1

2x4 SP No.1 *Except* **BOT CHORD**

14-15.13-14: 2x4 SP No.2

WEBS 2x4 SP No.2 2x4 SP No.2 OTHERS

REACTIONS.

(size) 2=0-3-8, 10=0-3-8

Max Horz 2=-222(LC 10)

Max Uplift 2=-132(LC 12), 10=-132(LC 12) Max Grav 2=1490(LC 1), 10=1490(LC 1)

9-2-15

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

TOP CHORD 2-3=-4911/370, 3-4=-4504/276, 4-6=-3280/163, 6-8=-3280/154, 8-9=-4504/283,

9-10=-4911/378

BOT CHORD 2-16=-231/4400, 14-16=-68/3840, 12-14=-87/3840, 10-12=-253/4400 WEBS

6-14=-17/2851, 8-14=-906/234, 8-12=0/574, 9-12=-354/173, 4-14=-907/235, 4-16=0/574,

3-16=-356/174

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -1-6-0 to 2-0-0, Interior(1) 2-0-0 to 17-6-0, Exterior(2) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 36-6-0 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) 2, 10 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 ((t=lb)
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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December 4,2020

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ANSITE!* Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty ROLAND T22065566 RSNROLAND GABLE A3ET 1 Job Reference (optional) SANTA FE TRUSS COMPANY INC. 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 3 09:56:03 2020 Page 1 ID:EF32TCII_XICUpKf5reGB6z2oYp-am25WGCmEmTljwnmWodk4Ov0wEpRxIC44Y7?lxyCipg 17-6-0 11-6-0 29-6-0 35-0-0 23-6-0

6-0-0

6-0-0

Scale = 1:69.0

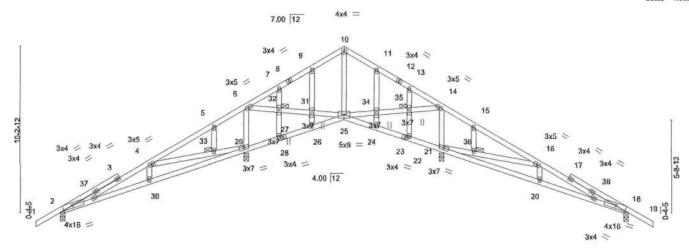


Plate Offsets (X,Y)-		5-6-0 [2:0-7-8,0-2-2], [18:0-7-8,	6-0-0 0-2-2], [23:0-1-	10,0-1-8], [2	6-0-0 7:0-1-10,0-1-8]		6-0-0			6-0-0	5-6-0	N
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.03	2-30	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.07	2-30	>999	240	11 90000000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	18	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	k-S	Wind(LL)	0.03	30	>999	240	Weight: 203 lb	FT = 15%

17-6-0

LU	M	В	Е	R-	

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WERS 2x4 SP No 2 2x4 SP No.2 OTHERS

BRACING-TOP CHORD

23-6-0

BOT CHORD JOINTS

Structural wood sheathing directly applied or 6-0-0 oc purlins.

35-0-0

Rigid ceiling directly applied or 6-0-0 oc bracing.

29-6-0

6-0-0

1 Brace at Jt(s): 32, 33, 35, 36

REACTIONS. All bearings 0-3-8.

> Max Horz 2=-215(LC 10) (lb) -

5-6-0

Max Uplift All uplift 100 lb or less at joint(s) 21, 29 except 2=-118(LC 12), 18=-118(LC 12)

11-5-0

6-0-0

All reactions 250 lb or less at joint(s) except 21=1077(LC 1), 29=1106(LC 17), 2=414(LC 21), 18=414(LC Max Grav

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

TOP CHORD 2-4=-654/134, 4-5=-22/729, 5-6=0/753, 14-15=0/699, 15-16=-33/663, 16-18=-654/139

BOT CHORD

2-30=-34/602, 29-30=-39/608, 28-29=-707/193, 26-28=-685/195, 25-26=-661/186,

24-25=-642/184, 22-24=-665/191, 21-22=-687/188, 20-21=-47/561, 18-20=-42/555

10-25=-261/54, 25-34=0/519, 34-35=0/522, 14-35=0/523, 14-21=-659/47,

21-36=-1100/203, 16-36=-1109/206, 6-32=0/554, 31-32=0/553, 25-31=0/549,

6-29=-685/39, 4-33=-1112/208, 29-33=-1103/204

NOTES-

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -1-6-0 to 2-0-0, Interior(1) 2-0-0 to 17-6-0, Exterior(2) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 36-6-0 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 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) Bearing at joint(s) 2, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 29 except (jt=lb) 2=118, 18=118.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 21, 29.

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

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

December 4,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly and properly and properly incorporate the design into the overall salvays required for stability and to prevent collapse with possible personal injury and properly a



Job ' Truss Truss Type Qly Ply ROLAND T22065567

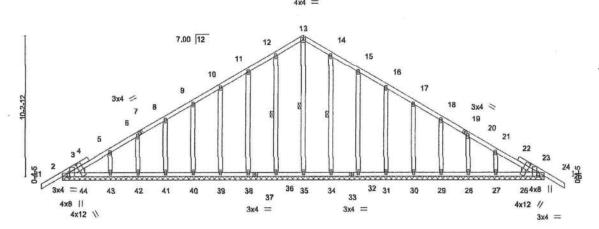
RSNROLAND AET Common Supported Gable 1 1 1

SANTA FE TRUSS COMPANY INC, BELL FL 8.240 s Mar 9 2020 MITek Industries, Inc. Thu Dec 3 09:56:04 2020 Page 1

6-0 17-6

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 3 09:56:04 2020 Page 1
ID:EF32TCIL_XICUpKf5reGB6z20Yp-2ycTjcCP?4ccK4My4W8zdcSGTeEogFsEICIZHOyCipf
36-6-0.

Scale = 1:81,3



35-0-0 [2:0-3-8,Edge], [2:0-1-9,Edge], [3:0-0-0,0-2-0], [23:0-0-0,0-2-0], [24:0-1-9,Edge], [24:0-3-8,Edge], [26:0-2-14,0-8-12], [44:0-2-14,0-8-12] Plate Offsets (X,Y)-GRIP LOADING (psf) SPACING-CSI. DEFL. **PLATES** I/defl L/d (loc) 244/190 Plate Grip DOL TC Vert(LL) -0.01 25 120 MT20 TCLL 20.0 1.25 0 14 n/r TCDL 10.0 Lumber DOL 1.25 BC 0.04 Vert(CT) -0.0125 n/r 120 0.0 * BCLL Rep Stress Incr YES WB 0.12 Horz(CT) 0.01 24 n/a nla Weight: 242 lb FT = 15% BCDL 10.0 Code FBC2017/TPI2014 Matrix-S

LUMBER-

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

TOP CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 13-35, 12-36, 14-34

REACTIONS.

NS. All bearings 35-0-0.

(lb) - Max Horz 2=-215(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 38, 39, 40, 41, 42, 43, 34, 32, 31, 30, 29, 28, 27, 24

Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 38, 39, 40, 41, 42, 43, 44, 34, 32, 31, 30, 29,
28, 27, 26, 24

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

TOP CHORD 12-13=-221/259, 13-14=-221/259

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vuit=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -1-6-0 to 2-0-0, Exterior(2) 2-0-0 to 17-6-0, Corner(3) 17-6-0 to 21-0-0, Exterior(2) 21-0-0 to 38-6-0 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 stude 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 36, 38, 39, 40, 41, 42, 43, 34, 32, 31, 30, 29, 28, 27, 24.

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

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

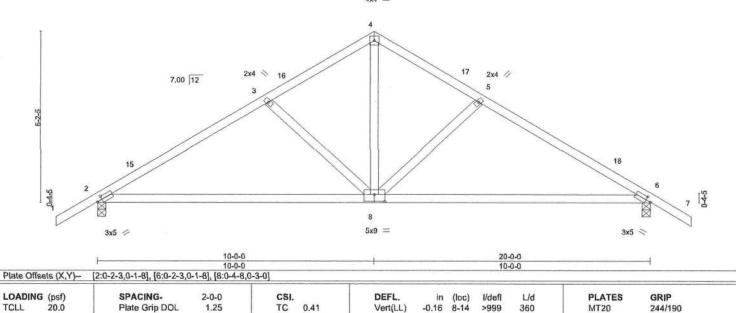
December 4,2020

MARNING - Ven'ty design paranieters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, areation and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply ROLAND T22065568 RSNROLAND B Common 1 Job Reference (optional) SANTA FE TRUSS COMPANY INC. BELL FL 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 3 09:56:06 2020 Page 1 ID:EF32TCII_XICUpKf5reGB6z2oYp-?LjE8IEfWhsKaOVLBxARi1XYqShf84HWmWMgLGyCipd -1-6-0 1-6-0 10-0-0 13-9-10 20-0-0 Scale = 1:40.7 4x4 =



Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.35

0.03

0.30 8-14

8-14

>694

>804

n/a

Rigid ceiling directly applied.

240

n/a

240

Structural wood sheathing directly applied.

Weight: 93 lb

FT = 15%

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

10.0

10.0

0.0 *

2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-134(LC 10)

Max Uplift 2=-295(LC 12), 6=-295(LC 12) Max Grav 2=890(LC 1), 6=890(LC 1)

Lumber DOL

Rep Stress Incr

Code FBC2017/TPI2014

FORCES. (lb) - Max, Comp./Max, Ten. - All forces 250 (lb) or less except when shown, TOP CHORD 2-3=-1150/725, 3-4=-900/689, 4-5=-900/689, 5-6=-1150/725

BOT CHORD

2-8=-541/950, 6-8=-554/950

WEBS

4-8=-648/672, 5-8=-338/211, 3-8=-338/211

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6,0psf; BCDL=6,0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat, II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-0-0, Exterior(2) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 21-6-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-AS

0.91

0.39

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads,

1.25

YES

- 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=295, 6=295.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

December 4,2020



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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Truss Type Qty ROLAND Job T22065569 RSNROLAND BET Common Supported Gable 1 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 3 09:56:07 2020 Page 1

SANTA FE TRUSS COMPANY INC.

10-0-0

ID:EF32TCII_XICUpK(5reGB6z2oYp-TXHcMdFHH?_ABY4XleigEE3njrFbtdkg?A5DuiyCipc 20-0-0

Scale = 1:40.8

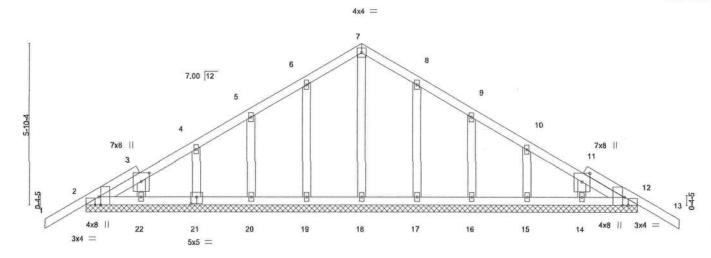


Plate Offsets (X,Y)- [2:0-3-8,Edge], [2:0-1-9,Edge], [3:0-3-12,0-3-8], [11:0-3-12,0-3-8], [12:0-1-9,Edge], [12:0-3-8,Edge], [21:0-2-8,0-3-0]										8,0-3-0]		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	13	n/r	120	VIII.	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-S	Linesecutescute:					Weight: 111 lb	FT = 15%

20-0-0

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 2=127(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 17, 16, 15

Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat, II; Exp B; Encl., GCpl=0.18; MWFRS (directional) and C-C Corner(3) -1-6-0 to 1-6-0, Exterior(2) 1-6-0 to 10-0-0, Corner(3) 10-0-0 to 13-0-0, Exterior(2) 13-0-0 to 21-6-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 17, 16, 15.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12.

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

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

December 4,2020

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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2570 Crain Highway, Suite 203 Waldorf, MD 20601



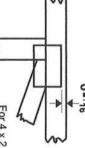
Symbols

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- ¹16" from outside edge of truss.

11

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



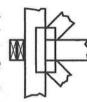
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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:

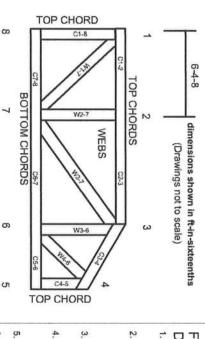
ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.

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.

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

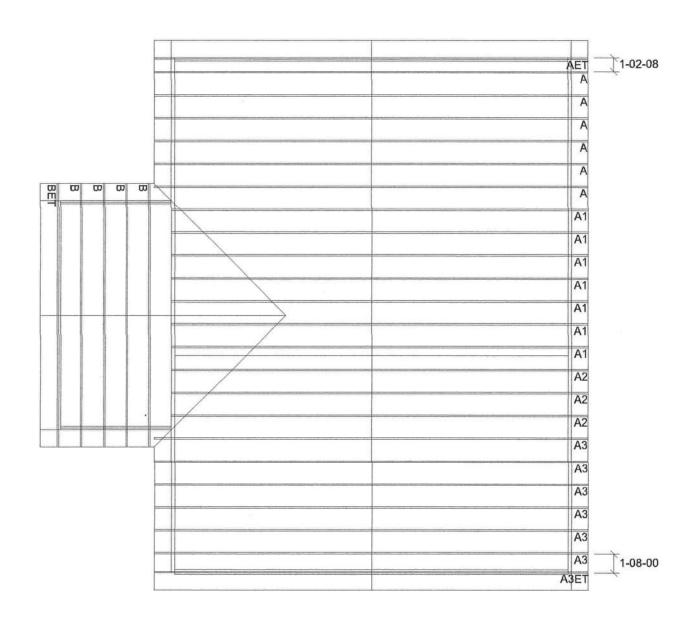
General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7

- Unless atherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.



Santa Fe Truss

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

Job Name: HETSLER RESIDENCE

Customer: ROSENBOOM CONSTRUCTION