

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

RE: 2258676 - IC CONST. - LOT 10 HPF

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: IC Construction Project Name: Spec Hse Model: Custom

Subdivision: High Pointe Farms

Lot/Block: 10

Address: TBD, TBD City: Columbia Cty

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10

T19794679

T19794680

Wind Speed: 130 mph

Truss Name

Roof Load: 37.0 psf

Floor Load: N/A psf

T17G T18

T19

T20

**T20G** 

This package includes 29 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.

T19794681

T19794682 T19794683

T19794684

T19794685

T19794686 T19794687

Seal#

No.	Seal#	Truss Name	Date	No.
123456789111234567890	T19794659 T19794660 T19794662 T19794663 T19794664 T19794666 T19794666 T19794667 T19794670 T19794671 T19794672 T19794673 T19794674 T19794675 T19794676 T19794676 T19794676	T01 T01G T02 T03 T03G T04 T04G T05 T06 T07 T08 T09 T11 T12 T13	3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20 3/25/20	23 24 25 26 27 28 29



Date

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: Velez, Joaquin

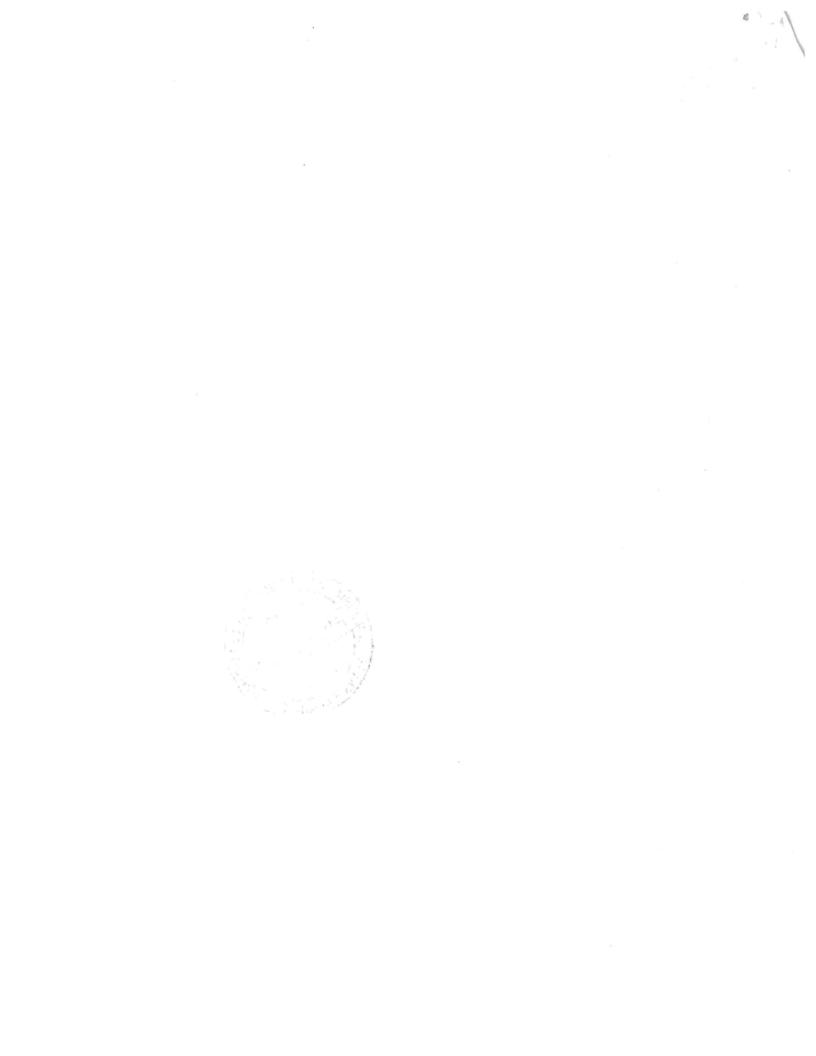
My license renewal date for the state of Florida is February 28, 2021.

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.



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

March 25,2020



Job	Truss	Truss Type		Qty	Ply	IC CON	ST LOT 10 HPF		000 00000000000
2258676	EJ01	Jack-Partial		18	1				T19794659
	7777			1.0			erence (optional)		
Builders FirstSource,	Jacksonville, FL - 32244,			8	.240 s Ma	r 9 2020 I	MiTek Industries.	Inc. Wed Mar 25 1	13:10:07 2020 Page 1
		0.20	ID:Yx7jB	Y9METY5	ATIM9Yo	QR_zhFUF	-T54?_8p_UuBK	R17cExeAiWSDE	1o3aupptL5ugbzXNy_
	<del></del>	-1-6-0 1-6-0	7-0-0 7-0-0				<del></del>		35
		1-0-0	7-0-0						
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		4x4 =							
		-	7-0-0 7-0-0						
			7-0-0						
LOADING (psf)		2-0-0 CSI.	DEFL.	ir	n (loc)	<b>Vdefl</b>	L/d	PLATES	GRIP
TCLL 20.0			0.70 Vert(LL)	0.15		>544	240	MT20	244/190
TCDL 7.0			0.53 Vert(CT)			>348	180		
BCLL 0.0 *			0.00 Horz(CT	0.03	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2	014 Matrix-	-MS					Weight: 25 lb	FT = 20%
LUMBER-			DDAOUU						
TOP CHORD 2x4 SP	No 2		BRACING TOP CHO		Ctmust	al was d -	haathiaa da w		
BOT CHORD 2x4 SP			BOT CHO		Digid on	ai wood S	tly applied or 10	applied or 6-0-0	oc purins.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=233(LC 12)

Max Uplift 3=-165(LC 12), 2=-113(LC 12), 4=-9(LC 12) Max Grav 3=188(LC 19), 2=346(LC 1), 4=127(LC 3)

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

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=165, 2=113.



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

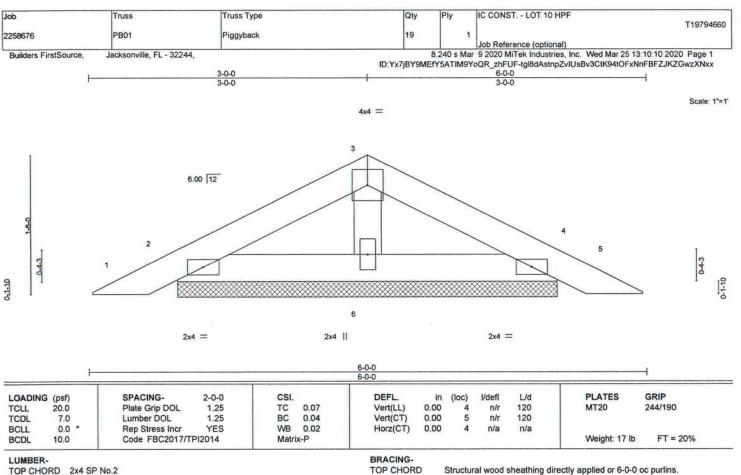
March 25,2020

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Piate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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

2x4 SP No.3 **OTHERS** 

**BOT CHORD** 

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

REACTIONS.

(size) 2=4-0-14, 4=4-0-14, 6=4-0-14

Max Horz 2=28(LC 12)

Max Uplift 2=-63(LC 12), 4=-69(LC 13), 6=-29(LC 12) Max Grav 2=114(LC 1), 4=114(LC 1), 6=141(LC 1)

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

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) 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



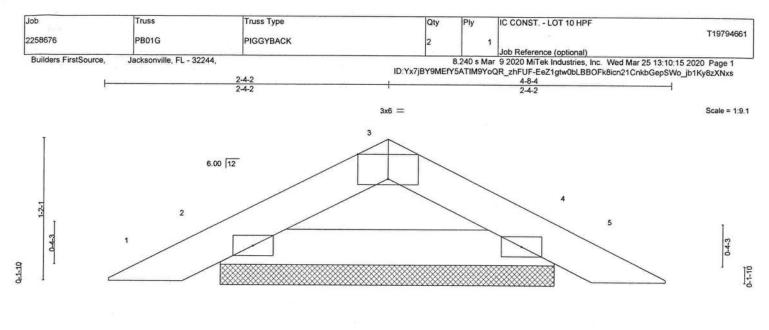
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 25,2020

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2x4 =

2x4 =

Structural wood sheathing directly applied or 4-8-4 oc purlins.

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

	H					4-8-4 4-8-4		-				
Plate Offse	ets (X,Y)-	[3:0-3-0,Edge]				4-0-4						
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	0.04	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	4	n/r	120		210700
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-P				0.000	(2000 <u>0</u>	Weight: 12 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

2x4 SP No.2

(size) 2=2-9-2, 4=2-9-2 Max Horz 2=21(LC 12)

Max Uplift 2=-60(LC 12), 4=-60(LC 13)

Max Grav 2=135(LC 1), 4=135(LC 1)

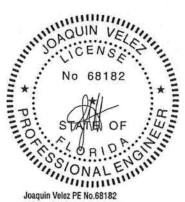
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) 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.
- \* 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.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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March 25,2020

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

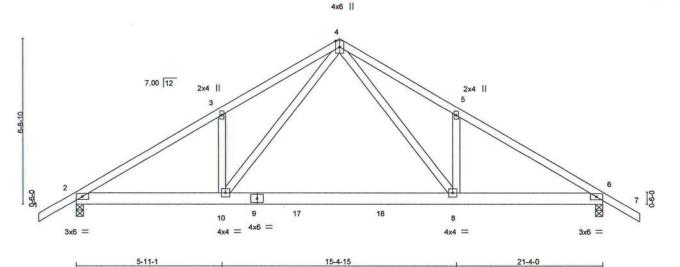
available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd. Tampa, FL 36610

Job IC CONST. - LOT 10 HPF Truss Truss Type Qty Ply T19794662 2258676 T01 Common Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:10:18 2020 Page 1 Jacksonville, FL - 32244, Builders FirstSource, ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-eDEAlvyuuGamFjTjNkLlfrP93TThfjmRPZG\_YSzXNxp 15-4-15 4-8-15 21-4-0 5-11-1 10-8-0

Scale = 1:44.8



LOADING (psf) SPACING. CSL DEFL GRIP 2-0-0 in (loc) I/defl L/d PLATES 20.0 Plate Grip DOL 1.25 0.18 8-10 244/190 TCLL TC 0.41 Vert(LL) >999 240 MT20 7.0 TCDL Lumber DOL 1.25 BC 0.85 Vert(CT) -0.35 >732 180 8-10 0.0 Rep Stress Incr 0.63 0.03 BCLL WB NO Horz(CT) 6 n/a n/a Code FBC2017/TPI2014 BCDL Matrix-MS FT = 20% 10.0 Weight: 124 lb

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 

2x4 SP No.3 WEBS

> (size) 2=0-3-8, 6=0-3-8 Max Horz 2=221(LC 11)

Max Uplift 2=-473(LC 12), 6=-473(LC 13) Max Grav 2=1166(LC 19), 6=1166(LC 20)

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

TOP CHORD 2-3=-1910/775, 3-4=-1949/936, 4-5=-1949/936, 5-6=-1911/775

**BOT CHORD** 2-10=-619/1726, 8-10=-297/1043, 6-8=-538/1578 WEBS 4-8=-537/1137, 5-8=-333/305, 4-10=-537/1136, 3-10=-333/305

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=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=473, 6=473.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20



Structural wood sheathing directly applied or 4-0-7 oc purlins.

Rigid ceiling directly applied or 9-2-3 oc bracing.

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

March 25,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTek® 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 designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify to specify of the overall building designer must verify a trust of the overall building designer must be overall building of more overall building of the overall buildin



Job	Truss	Truss Type	Qty	Ply	IC CONST LOT 10 HPF	
2258676	T01G	Common Supported Gable	1	1		T19794663
		3324 %		-	Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244			8.240 s Ma	r 9 2020 MiTek Industries, Inc. Wed Ma	ar 25 13:10:26 2020 Page 1
			ID:Yx7jBY9ME	FY5ATIM9Y	YoQR_zhFUF-PljBze2v0jadCy4GrQUd	XkbJiP2XT4cEoCPa?zXNxh
1-		10-8-0			21-4-0	, 22-10-0
' 1-4	5-0	10-8-0			10-8-0	1-6-0

Scale = 1:43.4

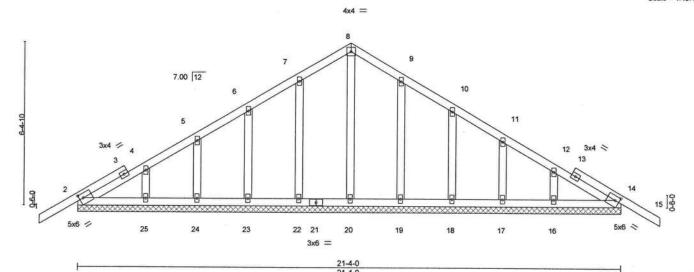


Plate Offsets (X,Y)-	[2:0-1-14,0-2-1], [14:0-1-14,0-2-1]		21-4-0	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L	_/d PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.13		20 MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.05		20
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09		n/a
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S		Weight: 123 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **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 21-4-0.

(lb) - Max Horz 2=-211(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 25, 16 except 22=-105(LC 12), 23=-102(LC 12), 24=-104(LC 12), 19=-102(LC 13), 18=-103(LC 13), 17=-104(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 22, 23, 24, 25, 19, 18, 17, 16

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=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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 25, 16 except (jt=lb) 22=105, 23=102, 24=104, 19=102, 18=103, 17=104.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.



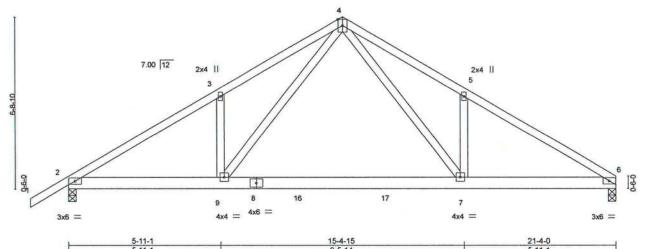
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

March 25,2020

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IC CONST. - LOT 10 HPF Job Truss Type Qty Truss Ply T19794664 2258676 T02 Common Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:10:40 2020 Page 1 Jacksonville, FL - 32244, Builders FirstSource. ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-?SZUwQDhj1Leu58yfMkvYUJwXL\_upfxgS\_b8KBzXNxT 10-8-0 4-8-15 15-4-15 4-8-15 Scale = 1:43.1 4x6 ||



		5-1	1-1		9-5-14					5-11-1			
OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.18	7-9	>999	240	MT20	244/190	
CDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.35	7-9	>735	180	CHACAPALIT		
BCLL	0.0	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.03	6	n/a	n/a			
3CDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS						Weight: 122 lb	FT = 20%	

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

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

Max Horz 2=212(LC 11)
Max Uplift 6=-421(LC 13), 2=-474(LC 12)

Max Grav 6=1085(LC 20), 2=1167(LC 19)

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

TOP CHORD 2-3=-1912/782, 3-4=-1953/943, 4-5=-1964/954, 5-6=-1927/791

BOT CHORD 2-9=-638/1714, 7-9=-316/1032, 6-7=-587/1583 WEBS 4-7=-551/1154, 5-7=-331/307, 4-9=-536/1135, 3-9=-333/305

### NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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=421, 2=474.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 9-13=-20, 7-9=-80(F=-60), 7-10=-20



Structural wood sheathing directly applied or 4-0-5 oc purlins.

Rigid ceiling directly applied or 9-0-11 oc bracing.

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

March 25,2020

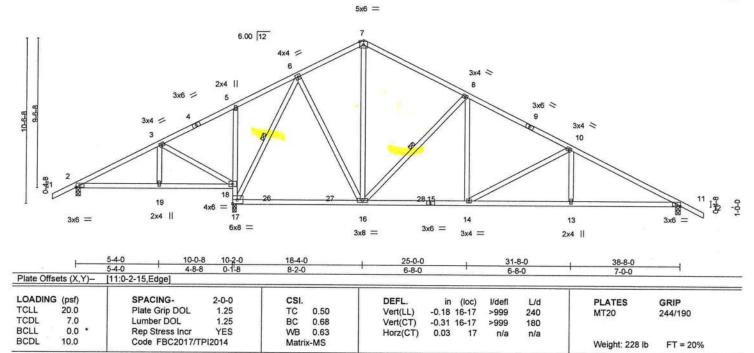
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty IC CONST. - LOT 10 HPF T19794665 2258676 T03 Roof Special Job Reference (optional) Builders FirstSource. Jacksonville FL - 32244 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:10:51 2020 Page 1 ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-AZkeDBMb7Pk4inU3oARUVoGnLnn0ufvI\_BIED2zXNxI 14-2-4 25-0-0 31-8-0 6-8-0

Scale = 1:70.7



BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.2 \*Except\*

5-17: 2x4 SP No.3

**WEBS** 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 17=0-3-0, 11=0-3-8

Max Horz 2=-257(LC 13)

Max Uplift 2=-212(LC 8), 17=-550(LC 12), 11=-520(LC 13) Max Grav 2=424(LC 23), 17=1516(LC 1), 11=1112(LC 1)

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

TOP CHORD 2-3=-416/551, 3-5=-87/281, 5-6=-97/365, 6-7=-697/625, 7-8=-732/605, 8-10=-1278/804,

10-11=-1839/999

BOT CHORD 2-19=-299/327, 18-19=-299/327, 17-18=-514/631, 5-18=-253/268, 16-17=-46/419,

14-16=-390/1073, 13-14=-752/1582, 11-13=-752/1582

WEBS 3-18=-434/571, 6-17=-1037/410, 6-16=-47/461, 7-16=-310/365, 8-16=-728/533, 8-14=-150/448, 10-14=-578/411, 10-13=0/289

### 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=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 exposed; 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 (it=lb) 2=212 17=550 11=520



Structural wood sheathing directly applied or 3-9-11 oc purlins.

6-17, 8-16

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

1 Row at midpt

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

March 25,2020

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Builders FirstSource Jacksonville, FL - 32244.

10-0-8

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:10:55 2020 Page 1 ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-3Kz93YP5AeEWBPoq10VQfeRYVOGOqY2tvpjRMpzXNxE 38-8-0 20-4-0

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

12-34, 11-35, 13-33

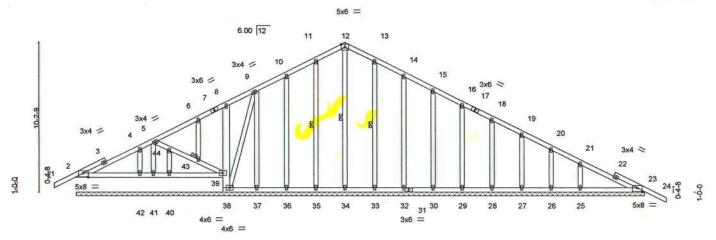
Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 38-39.

1 Row at midpt

1 Brace at Jt(s): 43

Scale = 1:75.4



		5-3-0	10-0-8 4-9-8	+				38-8-0 28-7-8				
Plate Offs	ets (X,Y)-	[2:0-4-0,0-3-1], [23:0-4-0,									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	0.17	Vert(LL)	0.00	23	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	0.00	24	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	23	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-S	1000					Weight: 285 lb	FT = 20%

BRACING-

WEBS

**JOINTS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 8-38: 2x6 SP No.2

WEBS 2x4 SP No.3

2x4 SP No.3 **OTHERS** 

REACTIONS. All bearings 38-8-0. Max Horz 2=-250(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 35, 36, 40, 42, 33, 32, 30, 29, 28, 27, 26, 23 except 2=-106(LC 13), 39=-197(LC 12), 25=-158(LC 13), 41=-112(LC 3), 37=-113(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 39, 38, 35, 36, 40, 33, 32, 30, 29, 28, 27, 26, 23, 41, 37

except 34=257(LC 13), 42=270(LC 3), 25=289(LC 1)

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

TOP CHORD 8-9=-87/306, 9-10=-99/307, 10-11=-122/374, 11-12=-142/427, 12-13=-142/427,

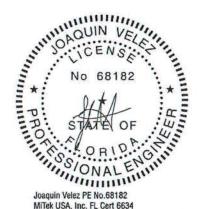
13-14=-122/374, 14-15=-100/310, 15-16=-80/251

WEBS 12-34=-273/54

### 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=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 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) Bearing at joint(s) 39 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 35, 36, 40, 42, 33, 32, 30, 29, 28, 27, 26, 23 except (jt=lb) 2=106, 39=197, 25=158, 41=112, 37=113.
- 11) Beveled plate or shirn required to provide full bearing surface with truss chord at joint(s) 2, 40, 42, 41.



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

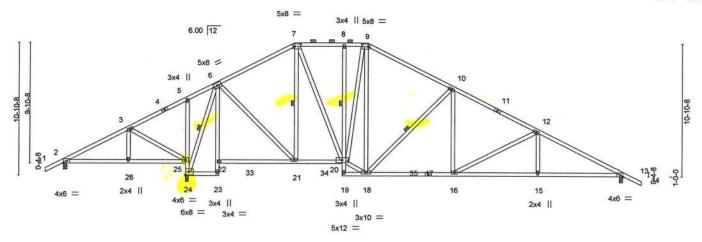
March 25,2020

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTek® 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 demage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Scale = 1:90.8



	1	5-4-0 10-0-8 5-4-0 4-8-8	0-1-8 2-7-8	19-0-0 6-2-8	22-10-8		32-0-0 7-0-0		39-0-0 7-0-0	46-0-0 7-0-0	4
Plate Offse	ets (X,Y)-	[7:0-6-0,0-2-8], [9:0-6-0,		02-0	3-10-0	2-1-0	7-0-0		7-0-0	7-0-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.14 16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.27 16-18	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	-0.06 24	n/a	n/a		
BCDL	10.0	Code FBC2017/7	PI2014	Matrix-	MS	TO SERVICE TO SERVICE AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON				Weight: 321 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

5-24,6-23,8-19: 2x4 SP No.3

WEBS 2x4 SP No.3

VVEBS 2X4 SP NO.3

REACTIONS. (size) 2=0-3-8, 24=0-3-0, 13=0-3-8

Max Horz 2=-264(LC 13)

Max Uplift 2=-226(LC 8), 24=-625(LC 12), 13=-609(LC 13) Max Grav 2=317(LC 23), 24=1938(LC 1), 13=1354(LC 1)

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

TOP CHORD 2-3=-184/562, 3-5=-65/603, 5-6=-11/572, 6-7=-968/759, 7-8=-1008/848, 8-9=-1006/848,

9-10=-1198/879, 10-12=-1797/1093, 12-13=-2367/1298

BOT CHORD 2-26=-309/121, 25-26=-309/121, 24-25=-472/534, 20-21=-134/785, 16-18=-645/1534,

15-16=-1020/2053, 13-15=-1020/2053

3-25=-435/580, 6-24=-1602/626, 6-21=-169/803, 7-21=-418/157, 7-20=-275/633, 18-20=-277/1092, 9-18=-244/254, 10-18=-771/556, 10-16=-144/487, 12-16=-584/420,

12-15=0/284

### NOTES-

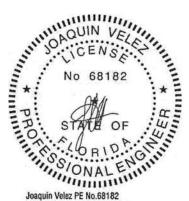
WEBS

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

- 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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x6 MT20 unless otherwise indicated.

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

- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=226, 24=625, 13=609
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-3-13 oc purlins,

Rigid ceiling directly applied or 5-8-7 oc bracing. Except:

8-20

6-24, 7-21, 10-18

2-0-0 oc purlins (5-7-13 max.): 7-9.

1 Row at midpt

1 Row at midpt

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

March 25,2020

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

Design valid for use only with MTek® 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 damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply IC CONST - LOT 10 HPF T19794668 2258676 T04G GABLE Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:11:06 2020 Page 1



Scale = 1:93.8 11 5x8 = 3x4 5x8 = 6.00 12 9 4x8 = 3x6 < 3x6 = 3x4 || 10 3x6 > 11 9-10-B 0-10-8 3x6 = 3x6 > 12 3x6 < 13 57 25 4x6 = 28 27 23 22 21 20 3x6 = 4x6 = 3x4 || 3x4 II 5x6 = 3x6 =6x8 = 3x6 || 3x4 = 5x8 = 3x8 =

			12-9-8 0-0-8 10-2-0 1-8-8 0-1-8 2-7-8	19-0-0 6-2-8	22-10-8	24-4-2 <sub>1</sub>	32-0-0 7-7-14		38-8-0 6-8-0	39-0-0	46-0-0	-1
Plate Offse	ets (X,Y)-	[7:0-6-0,0-2-8], [9:0-6-0,						-0]	6-8-0	0-4-0	7-0-0	
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	.60	Vert(LL)	-0.08 20-22	>999	240		MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0	.59	Vert(CT)	-0.17 20-22	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB 0	.57	Horz(CT)	-0.04 28	n/a	n/a	+		
BCDL	10.0	Code FBC2017/	TPI2014	Matrix-N	1S						Weight: 388 lb	FT = 20%

LUMBER-BRACING.

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

5-28,6-27,8-23: 2x4 SP No.3

WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3 TOP CHORD

Structural wood sheathing directly applied or 5-3-2 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 7-9.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 8-24

WEBS 1 Row at midpt

6-28, 7-25, 9-22, 10-22

REACTIONS. All bearings 7-7-8 except (jt=length) 2=0-3-8, 28=0-3-0, 19=0-3-8.

Max Horz 2=-264(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 17, 14 except 2=-242(LC 8), 28=-542(LC 12), 18=-719(LC 13) Max Grav All reactions 250 lb or less at joint(s) 16, 17, 14, 14 except 2=356(LC 23), 28=1568(LC 1), 18=1134(LC 1), 19=432(LC 3)

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

TOP CHORD 2-3=-269/642, 3-5=-52/515, 5-6=-17/497, 6-7=-730/631, 7-8=-671/667, 8-9=-668/666, 9-10=-814/659, 10-12=-894/594, 12-14=-169/334

BOT CHORD

2-30=-380/197, 29-30=-380/197, 28-29=-450/522, 24-25=-55/596, 20-22=-212/734,

19-20=-228/257, 18-19=-228/257, 17-18=-228/257, 16-17=-228/257, 14-16=-228/257 3-29=-439/583, 6-28=-1229/414, 6-25=-40/532, 7-24=-100/316, 22-24=-68/800,

9-24=-130/326, 10-20=-303/260, 12-20=-505/1054, 12-18=-1275/822

### 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=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 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) 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 17, 14, 14 except (jt=lb) 2=242, 28=542, 18=719.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

March 25,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component
Setsy University. 2013. 1. 2014. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply IC CONST. - LOT 10 HPF T19794669 2258676 T05 Piggyback Base Job Reference (optional) Jacksonville, FL - 32244. Builders FirstSource 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:11:13 2020 Page 1 ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-Xo3yridOxAVzLAAI5oqfORBWWeHb2aBX2c4O\_mzXNwy 7-0-0

Scale = 1:83.6

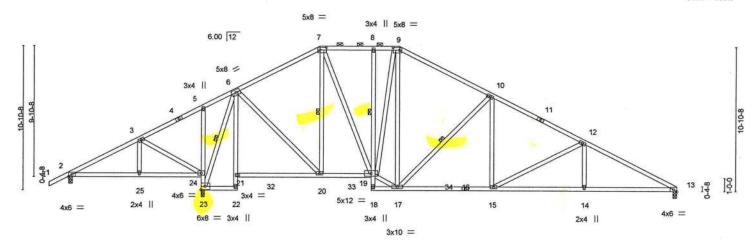


Plate Off	sets (X,Y)-	5-4-0 4-8-8	)-18 2-7-8 )-2-8]	6-2-8	3-10-8	2-1-8	7-0-0		7-0-0	7-0-0	
LOADIN	G (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI.	0.58	DEFL. Vert(LL)	in (loc) -0.14 15-17	l/defl >999	L/d 240	PLATES MT20	GRIP
TCDL BCLL	7.0 0.0 •	Lumber DOL Rep Stress Incr	1.25 YES	BC	0.72	Vert(CT) Horz(CT)	-0.14 15-17 -0.27 15-17 -0.06 23	>999 n/a	180 n/a	W120	244/190
BCDL	10.0	Code FBC2017/T		Matrix-		(01)				Weight: 318 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2 \*Except\*

5-23,6-22,8-18: 2x4 SP No.3

WEBS 2x4 SP No.3

(size) 2=0-3-8, 23=0-3-0, 13=0-3-8

Max Horz 2=-233(LC 13)

Max Uplift 2=-217(LC 8), 23=-636(LC 12), 13=-552(LC 13) Max Grav 2=317(LC 23), 23=1940(LC 1), 13=1271(LC 1)

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

TOP CHORD 2-3=-183/491, 3-5=-91/577, 5-6=-37/546, 6-7=-969/735, 7-8=-1010/832, 8-9=-1009/832,

12.9.8 10.2.0

10.0.8

19.00

9-10=-1200/859, 10-12=-1802/1078, 12-13=-2385/1301

**BOT CHORD** 2-25=-310/120, 24-25=-310/120, 23-24=-472/536, 19-20=-158/786, 15-17=-673/1539,

14-15=-1059/2071, 13-14=-1059/2071

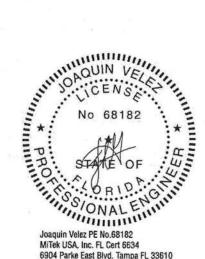
WEBS 3-24=-435/581, 6-23=-1604/654, 6-20=-189/804, 7-20=-419/170, 7-19=-283/635, 17-19=-305/1095, 9-17=-234/255, 10-17=-774/559, 10-15=-148/488, 12-15=-599/433,

12-14=0/285

### 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=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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=217, 23=636, 13=552,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-2-12 oc purlins,

Rigid ceiling directly applied or 5-6-5 oc bracing. Except:

8-19

6-23, 7-20, 10-17

2-0-0 oc purlins (5-7-12 max.): 7-9.

1 Row at midpt

1 Row at midpt

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March 25,2020

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



6904 Parke East Blvd. Tampa, FL 36610

Job Truss Truss Type Qty IC CONST. - LOT 10 HPF Ph T19794670 2258676 T06 Piggyback Base Job Reference (optional) **Builders FirstSource** Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:11:19 2020 Page 1 ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-MyQD5mh9X0F635dSR2x3diQX13IsSGIPQYXiBQzXNws 32-0-0 10-0-8 39-0-0 46-0-0 7-0-0

Scale = 1:82.2

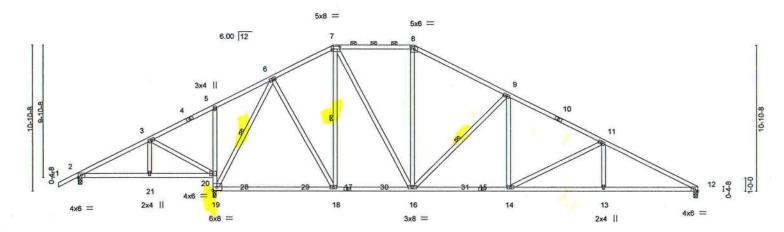


Plate Off	sets (X,Y)-		the state of the s	8-10-0	6-0-0	7-0-0		7-0-0	7-0-0	1
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC (	0.58 Vert(LL)	-0.26 18-19	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC (	0.85 Vert(CT)	-0.46 18-19	>938	180		
CLL	0.0 *	Rep Stress Incr	YES	WB (	0.79 Horz(CT)	0.04 12	n/a	n/a		
BCDL	10.0	Code FBC2017/	TPI2014	Matrix-I	MS			200	Weight: 283 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

32-0-0

39-0-0

2-0-0 oc purlins (4-10-10 max.): 7-8.

1 Row at midpt

Rigid ceiling directly applied or 5-6-6 oc bracing.

Structural wood sheathing directly applied or 3-2-3 oc purlins, except

6-19, 7-18, 9-16

LUMBER-

TOP CHORD 2x4 SP No.2

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

5-19: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 19=0-3-0, 12=0-3-8

Max Horz 2=-233(LC 13)

Max Uplift 2=-202(LC 8), 19=-633(LC 12), 12=-547(LC 13) Max Grav 2=419(LC 23), 19=1791(LC 1), 12=1304(LC 1)

10-0-8 10-2-0

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-403/480, 3-5=-111/255, 5-6=-92/339, 6-7=-1015/732, 7-8=-1087/841,

8-9=-1288/857, 9-11=-1876/1075, 11-12=-2457/1298

**BOT CHORD** 2-21=-300/316, 20-21=-300/316, 19-20=-522/636, 5-20=-261/272, 18-19=-91/574,

16-18=-137/865, 14-16=-670/1613, 13-14=-1057/2135, 12-13=-1057/2135 3-20=-430/571, 6-19=-1340/590, 6-18=-108/613, 7-18=-349/138, 7-16=-287/578,

8-16=-107/306, 9-16=-774/557, 9-14=-148/493, 11-14=-598/434, 11-13=0/283

### 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=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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

19-0-0

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=202, 19=633, 12=547
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

No 68182

No 68182

No 68182

No 68182

No 68182

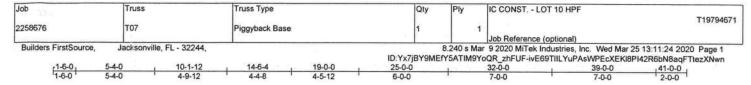
Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 25,2020

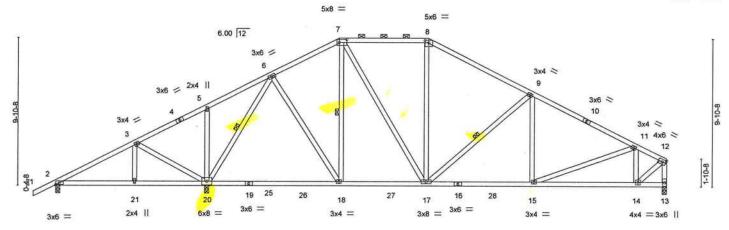
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ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





Scale = 1:74.2



	1	5-4-0 1 10-1-12	2 ,	19-0-0		25-0-0	- 1		32-0-0	1	39-0-0	41-0-0
11	1	5-4-0 4-9-12		8-10-4		6-0-0			7-0-0		7-0-0	2-0-0
Plate Offs	sets (X,Y)-	[7:0-6-0,0-2-8], [8:0-3-0,	0-2-0]									
LOADING	G (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)	-0.20	18-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.34	18-20	>999	180	20100000	
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code FBC2017/1	PI2014	Matrix	c-MS	1.50000-10000000					Weight: 259 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 2=0-3-8, 20=0-3-8, 13=0-3-8

Max Horz 2=275(LC 12)

Max Uplift 2=-134(LC 8), 20=-664(LC 12), 13=-413(LC 13)

Max Grav 2=335(LC 23), 20=1713(LC 1), 13=1085(LC 1)

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

3-5=-253/352, 5-6=-117/348, 6-7=-816/531, 7-8=-845/642, 8-9=-1030/637, 9-11=-1378/722, 11-12=-896/453, 12-13=-1092/534

18-20=-90/436, 17-18=-100/687, 15-17=-496/1163, 14-15=-417/817 BOT CHORD WEBS

3-20=-413/601, 5-20=-247/263, 6-20=-1289/713, 6-18=-143/523, 7-18=-256/175

7-17=-230/405, 9-17=-437/369, 11-15=-85/407, 11-14=-613/413, 12-14=-561/1091

### 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=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 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, 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=134, 20=664, 13=413.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 4-6-12 oc purlins,

6-20, 7-18, 9-17

except end verticals, and 2-0-0 oc purlins (5-6-4 max.): 7-8.

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

1 Row at midpt

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

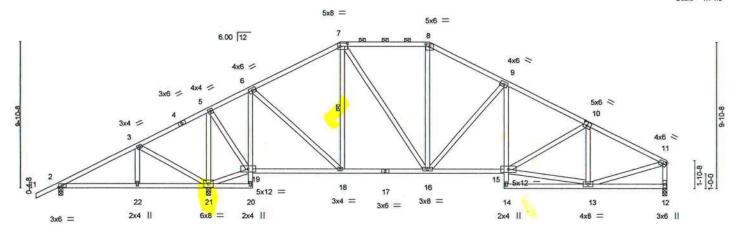
March 25,2020

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Job	Truss		Truss Type			Qty	Ply	IC CONST	LOT 10 HPF		
2258676	Т08		Piggyback Ba	ase		2	1				T19794672
Builders FirstSource,	Jackson	ville, FL - 32244,				15 V 7/5/6/		9 2020 Mi	ence (optional) Tek Industries, Inc. V		
r1-6-0	5-4-0	10-1-12	, 13-1-8 ,	19-0-0	- 1	25-0-0	30-0		F-?G9mdsrhiimPVxY 35-8-0	41-0-0	PRLCKZXNWg
1-6-0	5-4-0	4-9-12	2-11-12	5-10-8		6-0-0	5-0	0	5-8-0	5-4-0	13

Scale = 1:74.6



	1	5-4-0   10-1-12	13-1-8	19-0-0	25-0-0	30-0	3-0	35-8-0	, 41-0-0	- 1
		5-4-0 4-9-12	2-11-12	5-10-8	6-0-0	5-0	-0	5-8-0	5-4-0	-
Plate Offs	ets (X,Y)-	[7:0-6-0,0-2-8], [8:0-3-0,	0-2-0], [10:0-3-0,0	-3-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.50	Vert(LL)	-0.06 16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.12 15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.04 12	n/a	n/a		
BCDL	10.0	Code FBC2017/7	TPI2014	Matrix-MS	500 CO			0.020000	Weight: 275 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

2x4 SP No.2 TOP CHORD

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

6-20,9-14: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 21=0-3-8

Max Horz 2=275(LC 12)

Max Uplift 2=-128(LC 8), 12=-411(LC 13), 21=-680(LC 12) Max Grav 2=279(LC 23), 12=1059(LC 1), 21=1815(LC 1)

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

TOP CHORD 3-5=-292/540, 6-7=-820/513, 7-8=-886/650, 8-9=-1055/665, 9-10=-1415/784,

10-11=-1273/649, 11-12=-1014/545

**BOT CHORD** 6-19=-955/582, 16-18=-107/659, 15-16=-480/1211, 9-15=-91/297 3-21=-454/599, 5-21=-1343/711, 19-21=-455/417, 5-19=-478/1055, 6-18=-269/659, WEBS

7-18=-318/219, 7-16=-230/450, 9-16=-498/389, 13-15=-507/1062, 10-13=-418/290,

11-13=-498/1094

### 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=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 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, 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=128, 12=411, 21=680.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 4-9-2 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-4-1 max.): 7-8.

7-18

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

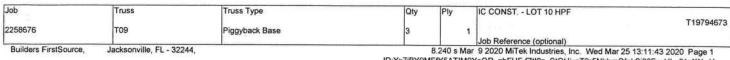
1 Row at midpt

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

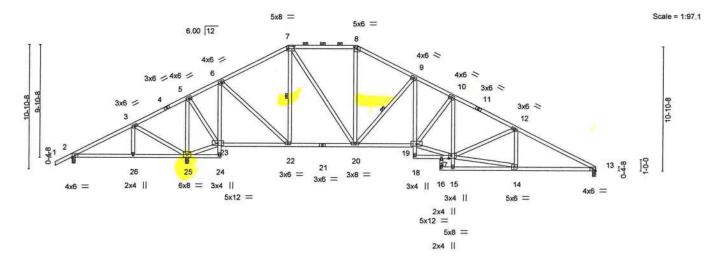
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		5-4-0 10-1- 5-4-0 4-9-1		19-0-0 5-10-8	25-0-0		0-0	32-4-0 2-4-0 1-	4-0 n-d	39-0-0 5-8-0	46-0-0 7-0-0	
Plate Offse	ets (X,Y)-	[7:0-6-0,0-2-8], [8:0-3-0,0	)-2-0], [13:0-2-11,	Edge], [17							700	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	0.15	16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.26	16	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix	k-MS	6 6					Weight: 304 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.2 \*Except\*

6-24,9-18,10-15: 2x4 SP No.3

2x4 SP No.3

WEBS

(size) 2=0-3-8, 13=0-3-8, 25=0-3-8

Max Horz 2=-233(LC 13)

Max Uplift 2=-182(LC 24), 13=-499(LC 13), 25=-739(LC 12) Max Grav 2=159(LC 23), 13=1217(LC 1), 25=2266(LC 1)

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

TOP CHORD

REACTIONS.

2-3=-210/623, 3-5=-356/991, 6-7=-837/577, 7-8=-1065/773, 8-9=-1251/798,

9-10=-1911/1092, 10-12=-2062/1126, 12-13=-2261/1176

BOT CHORD 2-26=-537/341, 25-26=-537/341, 6-23=-1326/690, 22-23=-146/318, 20-22=-89/674,

19-20=-599/1684, 9-19=-372/775, 13-14=-946/1959

WEBS 3-25=-464/331, 5-25=-1642/785, 23-25=-875/629, 5-23=-541/1325, 6-22=-373/1016,

7-22=-556/288, 7-20=-349/741, 8-20=-122/315, 9-20=-941/594, 17-19=-714/1785,

14-17=-917/1859

### 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=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
- 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.

- \* 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 (it=lb) 2=182, 13=499, 25=739,
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-3-5 oc purlins, except

7-22, 9-20

Rigid ceiling directly applied or 5-9-12 oc bracing. Except:

2-0-0 oc purlins (4-10-3 max.): 7-8.

10-0-0 oc bracing: 15-17

1 Row at midpt

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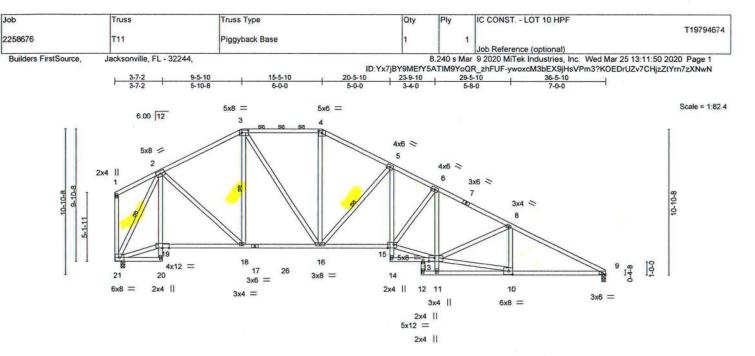
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6904 Parke East Blvd.



		0-5-10 3-7-2 0-5-10 3-1-8	9-5-10 5-10-8	15-5-10 6-0-0		20-5-10   22-9 5-0-0   2-4			5-10 8-0	+	36-5-10 7-0-0	——	
Plate Offse	ets (X,Y)-	[3:0-6-0,0-2-8], [4:0-3-0,0	0-2-0], [9:0-2-15	5,Edge], [10:0	0-3-8,0-3-0	], [13:0-5-0,0-3-4],	[15:0-5-8	,0-3-4]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.16	12	>999	240		MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.30	12	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.13	9	n/a	n/a			
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS	transfer at						Weight: 263 lb	FT = 20%

LUMBER-TOP CHORD

2x4 SP No.2 BOT CHORD

2x4 SP No.2 \*Except\*

2-20,5-14,6-11: 2x4 SP No.3

WEBS 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 3-0-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-11 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-11-8 oc bracing: 15-16 5-6-10 oc bracing: 9-10.

10-0-0 oc bracing: 11-13

WEBS

1 Row at midpt

2-21, 3-18, 5-16

REACTIONS.

(size) 9=0-3-8, 21=0-3-8 Max Horz 21=-382(LC 13)

Max Uplift 9=-515(LC 13), 21=-401(LC 13)

Max Grav 9=1359(LC 1), 21=1352(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1329/747, 3-4=-1413/893, 4-5=-1637/932, 5-6=-2330/1237, 6-8=-2430/1253,

8-9=-2568/1282

**BOT CHORD** 2-19=-7/345, 18-19=-145/789, 16-18=-165/1115, 15-16=-729/2059, 5-15=-389/823,

9-10=-1041/2234

2-21=-1649/744, 19-21=-114/766, 2-18=-183/508, 3-16=-291/595, 4-16=-182/448,

5-16=-986/610, 13-15=-829/2117, 10-13=-1006/2116

### 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=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) 9=515, 21=401.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

March 25,2020

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Job Truss Truss Type IC CONST. - LOT 10 HPF Qty Plv T19794675 2258676 T12 Piggyback Base Job Reference (optional) Jacksonville, FL - 32244, Builders FirstSource. 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:11:59 2020 Page 1 ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-BerLVRAF6IIRsEh8nSfRF85MpBwCpMxIdmEqc6zXNwE 23-9-10 3-7-2 5x8 = 5x6 = Scale = 1:82.4 6.00 12 3 4x6 > 5x6 = 5 4x6 > 4x6 = 6 3x6 > 9-10-8 3x4 < 8 5-1-11 15 18 16 3x6 = 17 26 21 20 3x8 = 14 3x6 = 3x6 II 5x8 = 2x4 12 11 10 3x4 = 3x6 = 3x4 6x8 = 2x4 || 5x12 = 2x4 || 23-9-10 9-5-10 5-10-8 15-5-10 6-0-0 1-0-0 Plate Offsets (X,Y)-[3:0-6-0,0-2-8], [4:0-3-0,0-2-0], [9:0-2-15,Edge], [10:0-3-8,0-3-0], [13:0-5-0,0-3-4], [15:0-5-8,0-3-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. PLATES GRIP l/defl 1 /d TCLL 20.0 Plate Grip DOL 1.25 TC 0.65 Vert(LL) -0.17 12 >999 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.92 -0.32 Vert(CT) 12 >999 180 BCLL 0.0 Rep Stress Incr WB 0.81 0.25 Horz(CT) 9 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-MS Weight: 257 lb FT = 20%LUMBER-BRACING-Structural wood sheathing directly applied or 3-0-3 oc purlins, TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 \*Except\* except end verticals, and 2-0-0 oc purlins (4-1-10 max.): 3-4. 5-14,6-11: 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: WEBS 2x4 SP No.3 4-1-14 oc bracing: 19-20 6-11-8 oc bracing: 15-16 5-6-10 oc bracing: 9-10. 1 Row at midpt 2-19 10-0-0 oc bracing: 11-13 WEBS 1 Row at midpt 3-18, 5-16 REACTIONS.

(size) 21=Mechanical, 9=0-3-8

Max Horz 21=-382(LC 13)

Max Uplift 21=-401(LC 13), 9=-515(LC 13) Max Grav 21=1352(LC 1), 9=1359(LC 1)

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

TOP CHORD 1-2=-776/414, 2-3=-1333/747, 3-4=-1412/893, 4-5=-1636/932, 5-6=-2330/1237,

6-8=-2430/1253, 8-9=-2568/1282, 1-21=-1392/721

**BOT CHORD** 20-21=-107/380, 19-20=-873/509, 2-19=-846/526, 18-19=-141/763, 16-18=-165/1119,

15-16=-729/2060, 5-15=-389/825, 9-10=-1041/2234

WEBS 2-18=-182/538, 3-16=-294/588, 4-16=-182/448, 5-16=-988/610, 13-15=-829/2119,

10-13=-1006/2116, 1-20=-599/1181

### 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=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) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb)
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

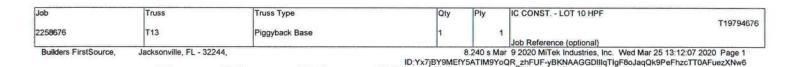


Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

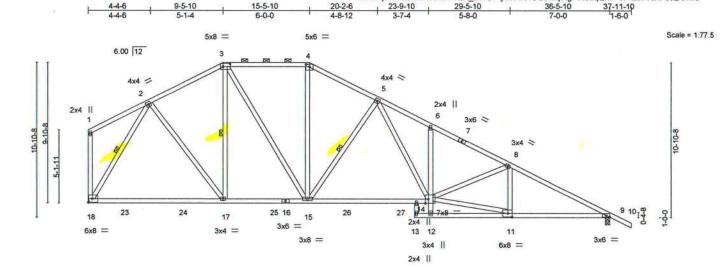
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MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters and non-cube multiple multin





15-5-10



		9-5-10		15-5-10		22-9-10	23-9-1	) 2	9-5-10	1	36-5-10	
		9-5-10		6-0-0		7-4-0	1-0-0		5-8-0	7/	7-0-0	
Plate Offse	ets (X,Y)-	[3:0-6-0,0-2-8], [4:0-3-0,0	-2-0], [9:0-2-15	,Edge], [11:0	)-3-8,0-3-0],	[14:0-2-12,Edge]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.32	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.58	17-18	>751	180	37-30-33-3	
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TF	PI2014	Matrix	x-MS	40.50 \$50.00 \$0.00 \$10.					Weight: 248 lb	FT = 20%

BRACING-TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

6-12: 2x4 SP No.3

2x4 SP No.3 WEBS

REACTIONS.

(size) 9=0-3-8, 18=Mechanical

Max Horz 18=-414(LC 13)

Max Uplift 9=-567(LC 13), 18=-399(LC 13) Max Grav 9=1441(LC 1), 18=1398(LC 2)

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

TOP CHORD 2-3=-1223/730, 3-4=-1290/854, 4-5=-1484/893, 5-6=-2415/1361, 6-8=-2437/1241,

8-9=-2549/1267

**BOT CHORD** 17-18=-124/799, 15-17=-107/1054, 14-15=-556/1691, 9-11=-991/2215 WEBS

2-17=-129/565, 3-17=-253/153, 3-15=-281/569, 4-15=-171/410, 5-15=-765/544, 5-14=-512/929, 11-14=-950/2171, 8-11=-258/195, 2-18=-1350/749

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=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.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=567, 18=399.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-3 max.): 3-4.
Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

3-17, 5-15, 2-18

10-0-0 oc bracing: 12-14

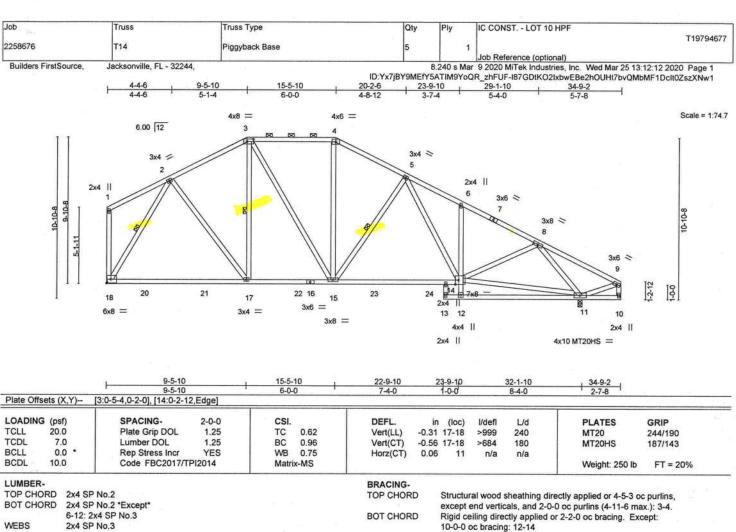
1 Row at midpt

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

March 25,2020

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WERS

1 Row at midpt

3-17, 5-15, 2-18

WEBS 2x4 SP No.3

REACTIONS.

(size) 11=0-3-8, 18=Mechanical Max Horz 18=-337(LC 13)

Max Uplift 11=-512(LC 13), 18=-365(LC 12)

Max Grav 11=1387(LC 1), 18=1241(LC 2)

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

TOP CHORD

2-3=-1051/642, 3-4=-1042/727, 4-5=-1208/752, 5-6=-1611/962, 6-8=-1618/844

**BOT CHORD** WEBS

17-18=-146/686, 15-17=-129/899, 14-15=-418/1249 2-17=-109/468, 3-15=-212/383, 4-15=-108/303, 5-15=-419/371, 5-14=-222/361,

11-14=-435/905, 8-14=-78/510, 8-11=-1658/920, 2-18=-1165/656

### 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=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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (|t=lb| 11=512, 18=365,
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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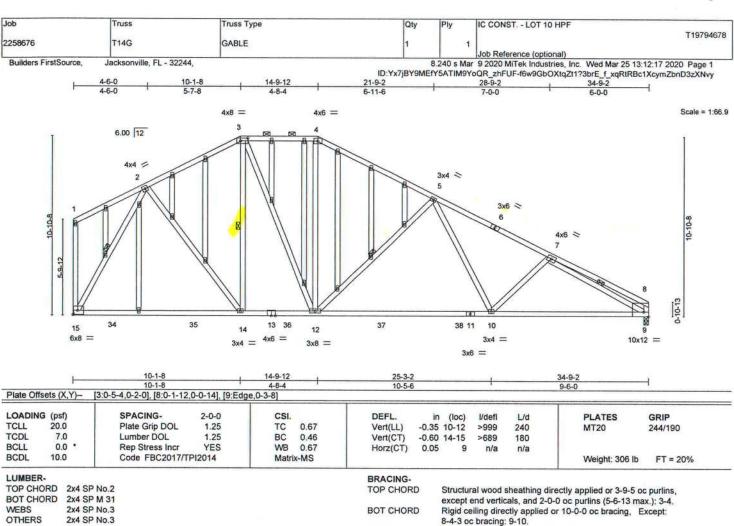
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ANS/TPH Quality Criteria, DSB-89 and BCSI Building Componately Information

available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





**WEBS** 

1 Row at midpt

REACTIONS.

(size) 15=Mechanical, 9=0-3-8

Max Horz 15=-344(LC 13)

Max Uplift 15=-395(LC 12), 9=-479(LC 13) Max Grav 15=1340(LC 2), 9=1275(LC 1)

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

TOP CHORD 2-3=-1097/687, 3-4=-1069/768, 4-5=-1269/779, 5-7=-1938/1030, 7-8=-393/230,

8-9=-289/211

**BOT CHORD** 14-15=-159/683, 12-14=-140/925, 10-12=-601/1486, 9-10=-868/1759

2-14=-109/514, 3-12=-265/464, 4-12=-106/305, 5-12=-635/519, 5-10=-143/472, WEBS

7-10=-180/286, 2-15=-1244/718, 7-9=-1772/870

### 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=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 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) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=395, 9=479,
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

No 68182

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Joaquin Velez PE No.68182

3-14, 5-12, 2-15, 7-9

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

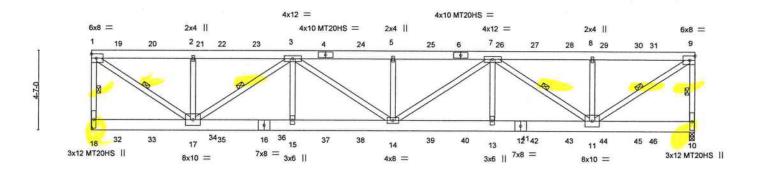
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Job	Truss	Truss Type		Qty	Ply	IC CONST LOT 10	HPF	
2258676	T15	FLAT GIRDE	R	1	1			T19794679
						Job Reference (option	nal)	
Builders FirstSource,	Jacksonville, FL - 3224	44,		8	.240 s Mar	9 2020 MiTek Industr	ies, Inc. Wed Mar 25 13:12:21	1 2020 Page 1
				ID:Yx7jBY9MEfY5	ATIM9YoQ1	R_zhFUF-YtAf6yR2w3	3JVdNM442b8n?5z3bNzHYX	hBZ NazXNvu
	5-10-11	11-7-10	17-4-9	23-1-8	-	28-10-7	34-9-2	·
W	5-10-11	5-8-15	5-8-15	5-8-15	1	5-8-15	5-10-11	1

Scale: 3/16"=1"



		5-10-11 5-10-11	11-7-10 5-8-15	-1	17-4-9 5-8-15	23-1 5-8-				-10-7 8-15	34-9-2 5-10-11	—
LOADING TCLL TCDL BCLL	(psf) 20.0 7.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 NO	CSI. TC BC WB	0.80 0.28 0.92	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.40 -0.47 0.07	(loc) 14 14 10	l/defl >999 >884 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 244/190 187/143
BCDL	10.0	Code FBC2017/7	TPI2014	Matri	x-MS						Weight: 283 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3 \*Except\*

1-17,3-17,3-14,7-14,7-11,9-11: 2x4 SP No.2

TOP CHORD

BRACING-

**BOT CHORD** WEBS

Rigid ceiling directly applied or 6-4-15 oc bracing.

except end verticals.

1 Row at midpt

1-18, 9-10, 1-17, 3-17, 7-11, 9-11

Structural wood sheathing directly applied or 2-8-15 oc purlins,

REACTIONS.

(size) 18=Mechanical, 10=0-3-8 Max Uplift 18=-1780(LC 4), 10=-1943(LC 4) Max Grav 18=2748(LC 1), 10=2963(LC 1)

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

TOP CHORD 1-18=-2589/1743, 1-2=-3344/2170, 2-3=-3344/2170, 3-5=-5958/3871, 5-7=-5958/3871,

7-8=-3381/2199, 8-9=-3381/2199, 9-10=-2737/1892

**BOT CHORD** 15-17=-3480/5349, 14-15=-3480/5349, 13-14=-3484/5354, 11-13=-3484/5354 WEBS

1-17=-2625/4050, 2-17=-669/636, 3-17=-2453/1603, 3-15=-56/501, 3-14=-478/745, 5-14=-617/588, 7-14=-475/739, 7-13=-57/494, 7-11=-2414/1571, 8-11=-701/672,

9-11=-2659/4093

### NOTES-

- 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) Provide adequate drainage to prevent water ponding. 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (ft=lb) 18=1780, 10=1943.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 161 lb down and 145 lb up at 1-6-6, 161 lb down and 145 lb up at 3-6-6, 161 lb down and 145 lb up at 5-6-6, 161 lb down and 145 lb up at 7-6-6, 161 lb down and 145 lb up at 9-6-6, 161 lb down and 145 lb up at 11-6-6, 161 lb down and 145 lb up at 13-6-6, 161 lb down and 145 lb up at 15-6-6, 161 lb down and 145 lb up at 17-6-6, 161 lb down and 145 lb up at 19-6-6, 161 lb down and 145 lb up at 21-6-6, 161 lb down and 145 lb up at 23-6-6, 161 lb down and 145 lb up at 25-6-6, 161 lb down and 145 lb up at 27-6-6, 161 lb down and 145 lb up at 29-6-6, 161 lb down and 145 lb up at 31-6-6, and 161 lb down and 145 lb up at 32-4-14, and 157 lb down and 153 lb up at 34-7-6 on top chord, and 87 lb down and 29 lb up at 1-6-6, 87 lb down and 29 lb up at 3-6-6, 87 lb down and 29 lb up at 5-6-6, 87 lb down and 29 lb up at 7-6-6, 87 lb down and 29 lb up at 9-6-6, 87 lb down and 29 lb up at 11-6-6, 87 lb down and 29 lb up at 13-6-6, 87 lb down and 29 lb up at 15-6-6, 87 lb down and 29 lb up at 17-6-6, 87 lb down and 29 lb up at 19-6-6, 87 lb down and 29 lb up at 21-6-6, 87 lb down and 29 lb up at 23-6-6, 87 lb down and 29 lb up at 25-6-6, 87 lb down and 29 lb up at 27-6-6, 87 lb down and 29 lb up at 29-6-6, 87 lb down and 29 lb up at 31-6-6, and 87 lb down and 29 lb up at 32-4-14, and 103 lb down and 22 Ib up at 34-7-6 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).

No 68182

No 68182

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

March 25,2020

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters and 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 designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Pracing 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 uckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent uckling of individual truss web and for the property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	IC CONST LOT 10 HPF	
2258676	T15	FLAT GIRDER	1	1		T19794679
	1073	577.023.550.670.13		,	Job Reference (optional)	

Builders FirstSource,

Jacksonville, FL - 32244,

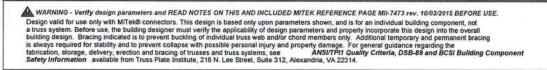
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:12:21 2020 Page 2  $ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-YtAf6yR2w33JVdNM442b8n?5z3bNzHYXhBZ\_NqzXNvu$ 

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-9=-54, 10-18=-20

Concentrated Loads (lb)

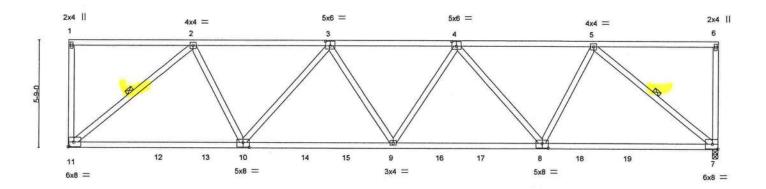
Vert: 4=-111(B) 9=-132(B) 10=-71(B) 3=-111(B) 15=-63(B) 14=-63(B) 5=-111(B) 6=-111(B) 19=-111(B) 20=-111(B) 21=-111(B) 22=-111(B) 23=-111(B) 24=-111(B) 25=-111(B) 25





Job	Truss	Truss Type		Qty	Ply	IC CONST LOT 10 HPF	
2258676	T16	FLAT		1	1		T19794680
		the state of the s				Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 322	244,		8	240 s Mar	9 2020 MiTek Industries, I	nc. Wed Mar 25 13:12:23 2020 Page 1
			ID:Yx7jB	Y9MEfY5/	ATIM9YoQ	R_zhFUF-UGIQXeTISgJ1lv	vWIBV43DC4V6s75RFRq8V25RjzXNvs
	-7-13	13-11-9	20-9-9	1		28-1-5	34-9-2
, 6	-7-13	7-3-12	6-10-0	1		7-3-12	6-7-13

Scale = 1:59.2



-		9-4-6		17-4-9		- 0	25-4-12			1	34-9-2	T.
1		9-4-6	-	8-0-3			8-0-3			1	9-4-6	
Plate Offse	ets (X,Y)-	[3:0-3-0,0-3-0], [4:0-3-0,0	-3-0], [8:0-4-0,	0-3-0], [10:0-4-0	0,0-3-0]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC C	0.50	Vert(LL)	-0.21 10		>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0	0.90	Vert(CT)	-0.43 10		>954	180		2111100
BCLL	0.0	Rep Stress Incr	YES	WB 0	0.64	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix-N	MS						Weight: 199 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

REACTIONS.

(size) 11=Mechanical, 7=0-3-8

Max Uplift 11=-590(LC 8), 7=-590(LC 8)

Max Grav 11=1275(LC 1), 7=1275(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1590/733, 3-4=-2011/946, 4-5=-1590/733

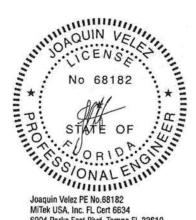
10-11=-629/1269, 9-10=-959/1966, 8-9=-959/1966, 7-8=-629/1269 **BOT CHORD** 

**WEBS** 2-11=-1628/814, 2-10=-232/774, 3-10=-586/350, 4-8=-586/350, 5-8=-232/774,

5-7=-1628/814

### NOTES-

- 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; 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.
- \* 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=590, 7=590.



Structural wood sheathing directly applied or 3-10-0 oc purlins,

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

except end verticals.

1 Row at midpt

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March 25,2020

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Truss Type Qty Job IC CONST. - LOT 10 HPF Truss Ply T19794681 T17 Roof Special 2258676 1 Job Reference (optional) Jacksonville, FL - 32244 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:12:25 2020 Page 1 Builders FirstSource, ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-QfPAyKUY\_Hal\_Eg7Jv7Xld9sqgs3vAm7cpXCWbzXNvq 20-4-0 6-1-11 26-8-0 6-4-0 Scale: 3/16"=1" 4x6 || 5 7.00 12 2x4 || 2x4 // 5x6 / 1-0-0 12 11 10 3x6 = 3x8 = 4x4 = 2x4 | 2x4 || 5x12 = 12-3-8 26-8-0 Plate Offsets (X,Y)-[3:0-2-12,0-3-0], [7:0-0-0,0-0-3] SPACING-CSI. DEFL PLATES GRIP LOADING (psf) 2-0-0 in (loc) l/defl L/d 20.0 Plate Grip DOL 1.25 0.42 TCLL TC Vert(LL) -0.17 8-9 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.68 Vert(CT) -0.30 8-9 >999 180 0.0 Rep Stress Incr WB 0.53 BCLL YES Horz(CT) 0.05 n/a n/a BCDL Code FBC2017/TPI2014 Matrix-MS FT = 20% 10.0 Weight: 152 lb

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2

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

4-11: 2x4 SP No.3 VEBS 2x4 SP No.3

WEBS WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS.

(size) 7=0-3-8, 2=0-3-8

Max Horz 2=272(LC 9)

Max Uplift 7=-346(LC 13), 2=-413(LC 12)

Max Grav 7=997(LC 1), 2=1086(LC 1)

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

TOP CHORD 2-3=-1587/651, 3-4=-1455/651, 4-5=-1538/763, 5-6=-1490/721, 6-7=-1577/673
BOT CHORD 2-12=-572/1440, 4-9=-251/226, 8-9=-239/962, 7-8=-489/1297

WEBS 9-12=-548/1472, 5-9=-415/892, 5-8=-302/642, 6-8=-384/339

### NOTES-

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

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=346, 2=413.



Structural wood sheathing directly applied or 4-4-0 oc purlins.

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

10-0-0 oc bracing: 9-11

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

March 25,2020

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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 damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty IC CONST. - LOT 10 HPF 2258676 T17G GABLE Job Reference (optional) Jacksonville, FL - 32244, Builders FirstSource 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:12:26 2020 Page 1 ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-urzY9gVBlbiccOFKtdemrqi514L5eivGqTGl22zXNvp Scale = 1:50.8 4x4 = 10 7.00 12 3x6 4 11 9 12 3x6 / 13 3x6 > 16 17 7x8 || 25 24 23 22 21 20 5x6 / 32 31 30 29 28 27 26-8-0 Plate Offsets (X,Y)-[2:0-1-14,0-2-1], [3:0-3-4,0-2-8], [18:0-1-14,0-2-1] LOADING (psf) SPACING-2-0-0 DEFL I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.13 Vert(LL) -0.01 19 n/r 120 MT20 244/190

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.01

0.01

19

18

n/r

120

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

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

Weight: 175 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

7.0

0.0

10.0

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

9-27: 2x4 SP No.3

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS. All bearings 26-8-0.

(lb) - Max Horz 2=-261(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 26, 18, 25, 28, 31, 32, 20 except

1.25

YES

2=-103(LC 8), 29=-103(LC 12), 30=-101(LC 12), 24=-103(LC 13), 23=-104(LC 13),

BC

WB 0.21

Matrix-S

0.11

22=-100(LC 13), 21=-105(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 27, 26, 18, 25, 28, 29, 30, 31,

32, 24, 23, 22, 21, 20

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 7-8=-172/264, 8-9=-220/299, 9-10=-229/294, 10-11=-229/286

### NOTES-

Unbalanced roof live loads have been considered for this design.

- 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.
- Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 18, 25, 28, 31, 32, 20 except (jt=lb) 2=103, 39=103, 30=101, 24=103, 23=104, 22=100, 21=105.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18, 25, 24, 23, 22, 21, 20,



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

March 25,2020

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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/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty IC CONST. - LOT 10 HPF Ply T19794683 2258676 T18 Roof Special 3 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:12:28 2020 Page 1  $ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-qD5JaMXRHCyKriPi\_2gEwFnLCtrV6XZZInls6wzXNvn$ 24-4-8 4-0-8 Scale = 1:53.9 5x8 || 6 7.00 12 3x6 / 3x6 % 28 11 10-1-0 3x4 || 3x8 > 15 14 13 4x4 = 3x8 = 11-0-0 12-3-8 14-3-8 Plate Offsets (X,Y)-[8:0-4-0,0-4-10], [9:0-1-12,0-2-9] LOADING (psf) SPACING-2-0-0 CSI. DEFL in I/defl L/d **PLATES** GRIP (loc) 20.0 TCLL Plate Grip DOL 1.25 TC 0.54 Vert(LL) -0.218-11 >999 240 MT20 244/190 1.25 BC TCDL 7.0 Lumber DOL 0.88 Vert(CT) -0 44 8-11 >726 180 0.0 \* BCLL Rep Stress Incr YES WB 0.52 Horz(CT) 0.28 9 n/a n/a Code FBC2017/TPI2014 BCDL 10.0 Matrix-MS Weight: 168 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 \*Except\* Structural wood sheathing directly applied or 4-4-1 oc purlins. TOP CHORD 6-9: 2x6 SP M 26 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 6-8-0 oc bracing: 8-11

JOINTS

10-0-0 oc bracing: 12-14, 11-12

1 Brace at Jt(s): 12, 11

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

5-14,17-18: 2x4 SP No.3, 8-10: 2x6 SP No.2

WEBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 9=0-3-8, 2=0-3-8

Max Horz 2=272(LC 9)

Max Uplift 9=-341(LC 13), 2=-412(LC 12) Max Grav 9=997(LC 1), 2=1081(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1577/645, 3-5=-1740/741, 5-6=-1799/853, 6-7=-1680/754, 7-8=-2033/877,

8-22=-593/268

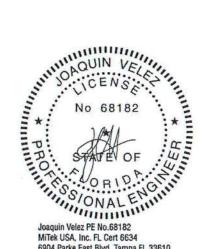
**BOT CHORD** 

2-15=-566/1407, 5-12=-254/223, 11-12=-271/1079, 8-11=-730/1905 3-15=-475/256, 12-15=-600/1510, 6-12=-486/1049, 6-11=-295/775, 7-11=-801/473

### WEBS 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=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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=341, 2=412.



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March 25,2020

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Job Truss Truss Type Qty Ply IC CONST. - LOT 10 HPF T19794684 2258676 T19 ROOF SPECIAL GIRDER Job Reference (optional) Builders FirstSource. Jacksonville, FL - 32244 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:12:31 2020 Page 1 ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-FonRCNZJa7Kui98HfAExYuPvh4vmJpD0\_I\_WjFzXNvk 18-4-0 4-1-11 1-6-0 11-0-0 22-4-0

Scale = 1:58.3

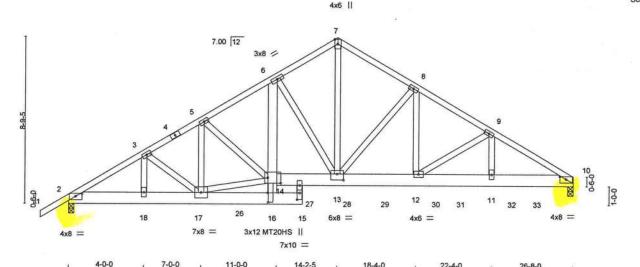


Plate Of	fsets (X,Y)-	[2:0-4-0,0-1-11], [10:0-4-	0,0-1-11], [13:0	-4-0,0-3-12],	[14:0-8-0,0-	3-8], [15:0-4-4,0-1	-8], [16:0	0-6-0,0-	-0-4]			
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	0.15	15	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.25	15	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.06	10	n/a	n/a		1011110
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS			100	70.77	1115	Weight: 874 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

4-0-0

10-0-0 oc bracing: 14-16

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

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

LUMBER-

WEBS

TOP CHORD 2x4 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E \*Except\*

6-16: 2x6 SP No.2 2x4 SP No.3 \*Except\*

7-13: 2x4 SP No.2

REACTIONS.

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

Max Horz 2=272(LC 24)

Max Uplift 10=-3057(LC 9), 2=-3153(LC 8)
Max Grav 10=8664(LC 1), 2=7156(LC 1)

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

TOP CHORD 2-3=-12935/5663, 3-5=-13249/5835, 5-6=-12412/5019, 6-7=-9814/3831, 7-8=-9838/3852,

8-9=-12390/4559, 9-10=-14796/5273

BOT CHORD 2-18=-5013/11117, 17-18=-5013/11117, 16-17=-1771/4000, 14-16=-1011/2667,

6-14=-2235/4664, 13-14=-4300/10734, 12-13=-3828/10669, 11-12=-4477/12747,

10-11=-4477/12747

WEBS 3-18=-534/286, 3-17=-385/501, 5-17=-976/871, 14-17=-3391/7636, 5-14=-993/1016,

6-13=-4170/2107, 7-13=-3737/9594, 8-13=-3474/1208, 8-12=-1139/3797, 9-12=-2477/859,

9-11=-675/2360

### NOTES-

1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 5-17 2x4 - 2 rows staggered at 0-6-0 oc.

Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 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.

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) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

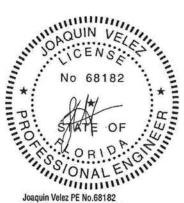
5) All plates are MT20 plates unless otherwise indicated.

All plates are 3x6 MT20 unless otherwise indicated.
 This takes have designed for a 10.0 set better about the state of the stat

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) except (jt=lb) 10=3057, 2=3153.



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

March 25,2020

Continued on page 2

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	IC CONST LOT 10 HPF
2258676	T19	ROOF SPECIAL GIRDER	1	1	T19794684
		DOWNERS AND DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF		4	Job Reference (optional)

Builders FirstSource,

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:12:31 2020 Page 2 ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-FonRCNZJa7Kui98HfAExYuPvh4vmJpD0\_I\_WjFzXNvk

### NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2728 lb down and 1800 lb up at 7-0-12, 1255 lb down and 610 lb up at 9-0-12, 1320 lb down and 415 lb up at 10-9-4, 1221 lb down and 385 lb up at 12-8-12, 1221 lb down and 385 lb up at 16-8-12, 1221 lb down and 385 lb up at 18-8-12, 1221 lb down and 385 lb up at 22-8-12, and 1378 lb down and 419 lb up at 22-8-12, and 1332 lb down and 421 lb up at 24-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

11) Filler applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-7=-54, 7-10=-54, 16-23=-20, 15-16=-20, 14-20=-20

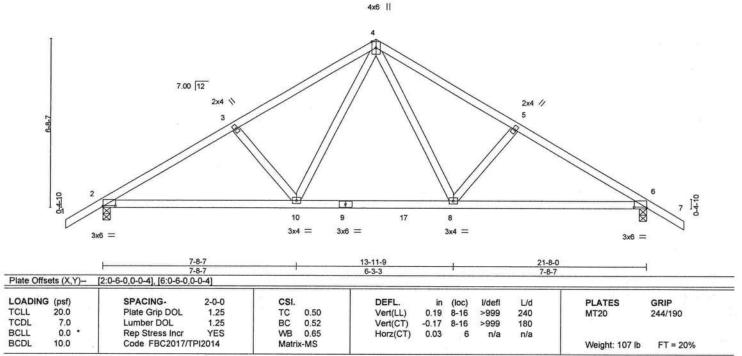
Concentrated Loads (lb)

Vert: 16=-1255(B) 17=-2728(B) 26=-1255(B) 27=-1167(B) 28=-1167(B) 29=-1167(B) 30=-1167(B) 31=-1167(B) 32=-1331(B) 33=-1332(B)



Job Qty IC CONST. - LOT 10 HPF Truss Truss Type T19794685 2258676 T20 Common 1 Job Reference (optional) Jacksonville, FL - 32244, Builders FirstSource 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:12:33 2020 Page 1 ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-BBuCd3ba5lacyTHgnbGPdJVDXudQnmoIR3Tdo8zXNvi 10-10-0 16-4-9 21-8-0 5-3-7

Scale = 1:44.1



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=-224(LC 10)

Max Uplift 2=-346(LC 12), 6=-346(LC 13)

Max Grav 2=883(LC 1), 6=883(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1234/1400, 3-4=-1075/1378, 4-5=-1075/1378, 5-6=-1234/1400

TOP CHORD **BOT CHORD** 

2-10=-1107/1034, 8-10=-629/680, 6-8=-1116/1034

**WEBS** 4-8=-668/411, 5-8=-349/308, 4-10=-668/411, 3-10=-350/308

### 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=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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=346, 6=346.



Structural wood sheathing directly applied or 5-0-14 oc purlins.

Rigid ceiling directly applied or 4-11-8 oc bracing.

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

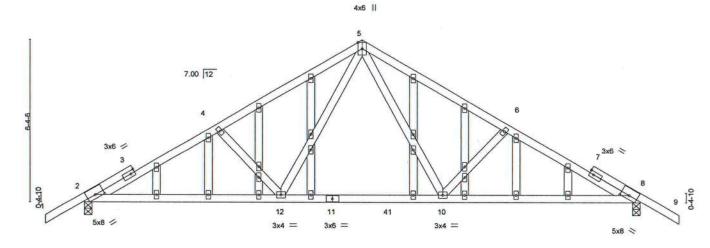
March 25,2020

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Job Truss Truss Type IC CONST. - LOT 10 HPF Qty Ply T19794686 2258676 T20G GABLE 1 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Mar 25 13:12:34 2020 Page 1 Builders FirstSource. Jacksonville, FL - 32244. ID:Yx7jBY9MEfY5ATIM9YoQR\_zhFUF-fNSarPbCs2iTZdssLIneAW1JGI\_?WEHSgjCAKazXNvh 21-8-0 5-6-9 1-6-0

Scale = 1:43.2



			7-8-7 7-8-7		+	13-11-9 6-3-3			_		1-8-0 '-8-7	
Plate Offse	ets (X,Y)-	[2:0-4-1,0-1-12], [8:0-4-1,	7			000					-0-7	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	0.18	10-39	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.16	10-39	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS	23. 95					Weight: 144 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=-214(LC 10)

Max Uplift 2=-348(LC 12), 8=-348(LC 13) Max Grav 2=880(LC 1), 8=880(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1281/1484, 4-5=-1124/1429, 5-6=-1124/1429, 6-8=-1281/1484

**BOT CHORD** 

2-12=-1223/1124, 10-12=-654/694, 8-10=-1235/1124

WEBS 4-12=-401/378, 5-12=-710/441, 5-10=-710/440, 6-10=-401/378

### 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=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
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=348, 8=348.



Structural wood sheathing directly applied or 4-1-0 oc purlins.

Rigid ceiling directly applied or 4-9-13 oc bracing.

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

March 25,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST LOT 10 HPF	
2258676	T21	Common	2	,	Job Reference (optional)	T19794687

Builders FirstSource.

Jacksonville, FL - 32244,

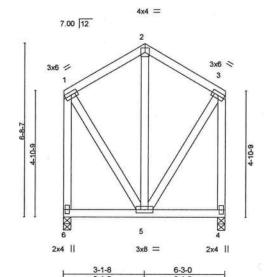
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

Scale = 1:42.8



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.00	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MP	, ,					Weight: 58 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

(size) 6=0-3-8, 4=0-3-8

Max Horz 6=54(LC 9) Max Uplift 6=-89(LC 13), 4=-89(LC 12)

Max Grav 6=220(LC 1), 4=220(LC 1)

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

- 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) 6, 4.



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

March 25,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



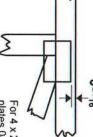
6904 Parke East Blvd. Tampa, FL 36610

### Symbols

# PLATE LOCATION AND ORIENTATION



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



plates 0- 1/18" from outside For 4 x 2 orientation, locate edge of truss.

00

6

5

required direction of slots in This symbol indicates the connector plates

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

### PLATE SIZE

4 × 4

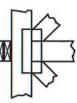
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## 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



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

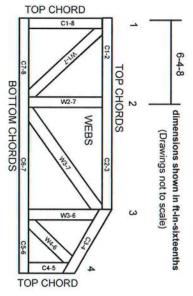
### ANSI/TPI1: Industry Standards:

National Design Specification for Metal Building Component Safety Information, Plate Connected Wood Truss Construction Design Standard for Bracing

DSB-89

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.

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

# 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

ω

- 4 Provide copies of this truss design to the building all other interested parties designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. oint and embed fully. Knots and wane at joint

6

- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- 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
- 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

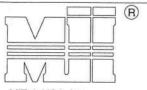
- Do not cut or alter truss member or plate without prior approval of an engineer
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use
- Review all portions 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.

### AUGUST 1, 2016

### T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

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 (0.131" X 3")	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 Rows of La	Continuous ateral 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		

	// //	Nails	
	+	SF SF	PACING
WEB			
		+ -1	T-BRACE
Nails	T-Brace		
	Web		<i></i>

Nails	
Web	I-Brace
Nails	

	Brace Size for Two-Ply Truss			
	Specified Rows of La	Continuous iteral 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.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

February 12, 2018

### **AUGUST 1, 2016**

### SCAB-BRACE DETAIL

### MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1

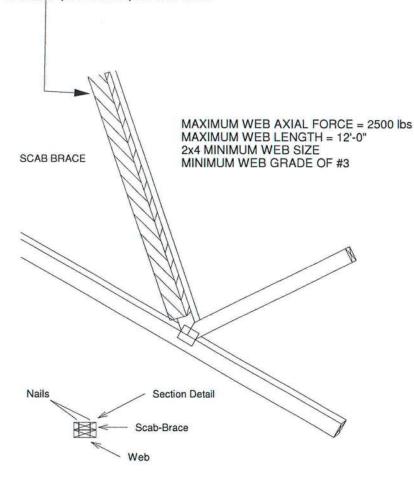


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

Scab must cover full length of web +/- 6".

\*\*\* THIS DETAIL IS NOT APLICABLE WHEN BRACING IS \*\*\* REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

APPLY 2x\_\_\_ SCAB TO ONE FACE OF WEB WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIĘS (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

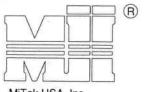
February 12, 2018

# STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

February 12, 2018

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc. ENGINEERED BY

- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED. THE LOADS INDICATED.
- THE LOADS INDICATED.

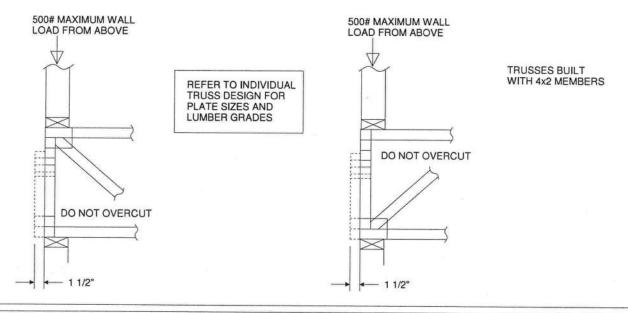
  2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

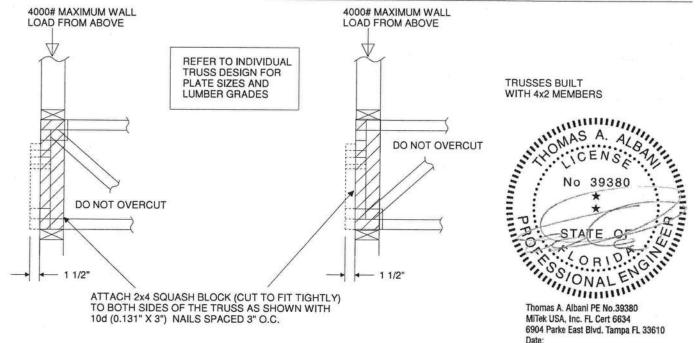
  3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.

  4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.

  5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X ORIENTATION ONLY.

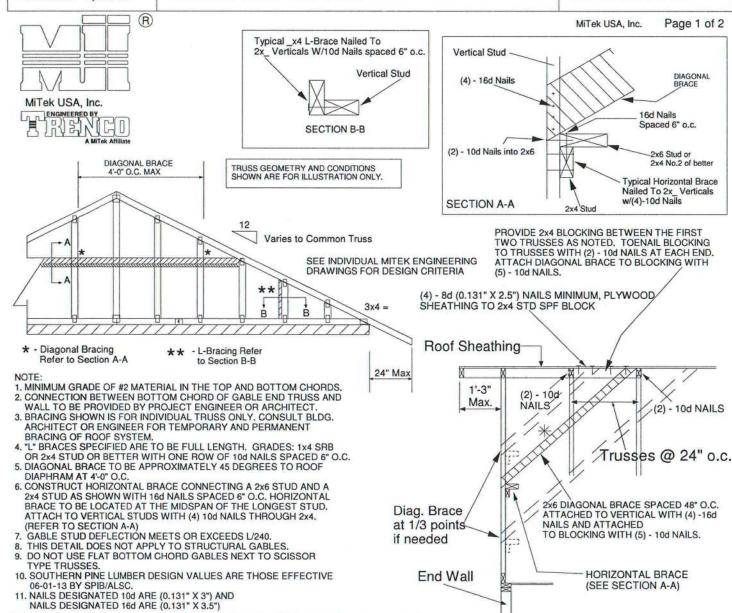
  6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





### Standard Gable End Detail

#### MII-GE130-D-SP



Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
and Grade		Maximum Stud Length							
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7			
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13			
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1			

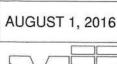
→ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D 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.



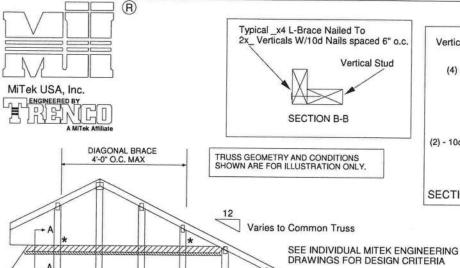
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### Standard Gable End Detail

# MII-GE130-SP

MiTek USA, Inc.



Page 1 of 2 Vertical Stud DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails SECTION A-A

> 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 NAILS.

- Diagonal Bracing - L-Bracing Refer

to Section B-B

#### Refer to Section A-A NOTE

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.

1. MINIMOM GHADE 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)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.

NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

1'-3" Max.	(2) - 10d NAILS (2) - 10d NAILS
1	Trusses @ 24" o.c.
Diag. Brace at 1/3 points if needed	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.
End Wall	HORIZONTAL BRACE (SEE SECTION A-A)

Roof Sheathing

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

3x4 =

24" Max

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
and Grade		Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6		
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1		
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15		

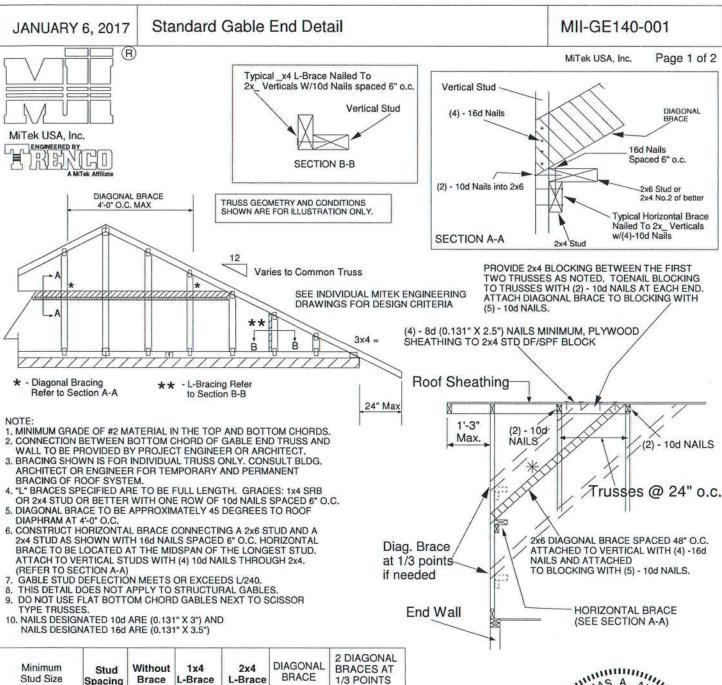
Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

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.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
and Grade		Maximum Stud Length						
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4		
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11		
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12		

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 nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE : 1.60

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



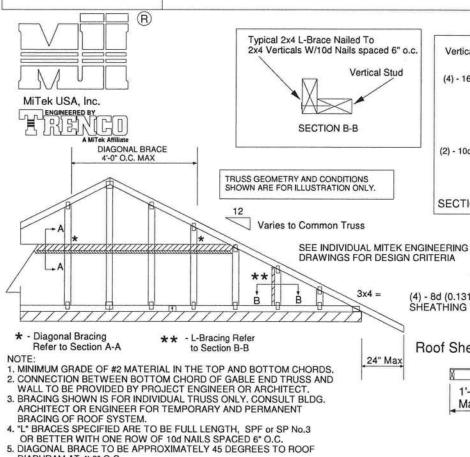
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## Standard Gable End Detail

# MII-GE170-D-SP

Page 1 of 2

MiTek USA, Inc.



2X6 SP OR SPF No. 2 DIAGONAL BRACE 16d Nails

Spaced 6" o.c.

Typical Horizontal Brace

Nailed To 2x4 Verticals

w/(4)-10d Nails

2X6 SP OR SPF No. 2

(2) - 10d NAILS

Trusses @ 24" o.c.

2X4 SP OR SPF No. 2 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 NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD, SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

SECTION A-A

1'-0" - 10d Max. NAILS

Diag. Brace at 1/3 points if needed

End Wall

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

> HORIZONTAL BRACE (SEE SECTION A-A)

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4.

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.

NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

DIAPHRAM AT 4'-0" O.C.

(REFER TO SECTION A-A)

Minimum Stud Size Species	Stud Spacing	Without Brace	2 DIAGONAL BRACES AT 1/3 POINTS					
and Grade	-	Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4			
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3			
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13			
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7			
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5			
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14			

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 diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

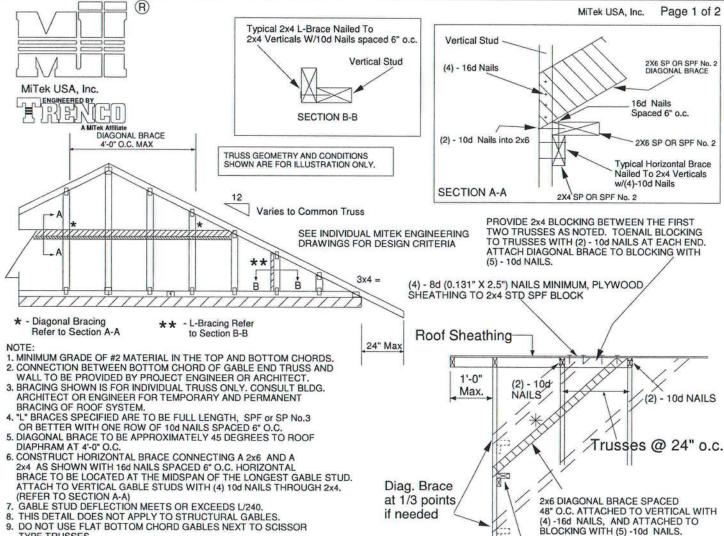
ASCE 7-10 170 MPH DURATION OF LOAD INCREASE: 1.60 STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

#### Standard Gable End Detail

# MII-GE180-D-SP



End Wall

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
 SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE
 CONTROL OF THE PROPERTY OF THE PROPERTY

06-01-13 BY SPIB/ALSC.

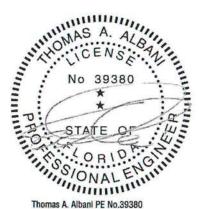
 NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size	Stud Spacing			DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
Species and Grade		Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3			
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7			
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4			
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1			
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7			
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9			

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 diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

ASCE 7-10 180 MPH DURATION OF LOAD INCREASE : 1.60 STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



HORIZONTAL BRACE

(SEE SECTION A-A)

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MiTek USA, Inc. Page 1 of 1

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MiTek USA, Inc. ENGINEERED B 0 K

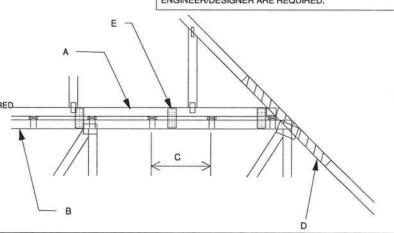
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ASCE 7-10 DURATION OF LOAD INCREASE: 1.60** 

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 TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, 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:

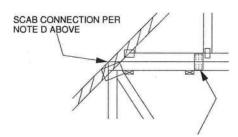
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft. E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH

MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72° O.C. W/ (4) (0.131° X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5° EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

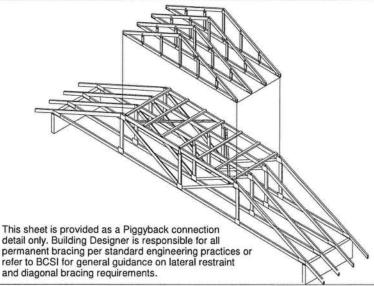


#### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

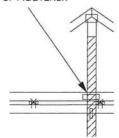
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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.



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.

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)
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 LRS

FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,

NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.

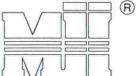


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#### STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT 7-10





MiTek USA, Inc. ENGINEERED BY 国别别

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.

MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C.

CATEGORY II BUILDING

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E

A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0(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 TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, 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: DIRECTIONS AND:

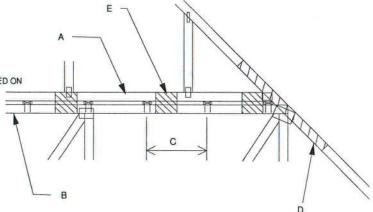
DIRECTIONS AND:

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.

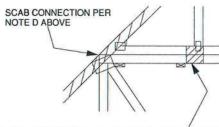
E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH

3 - 60 (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

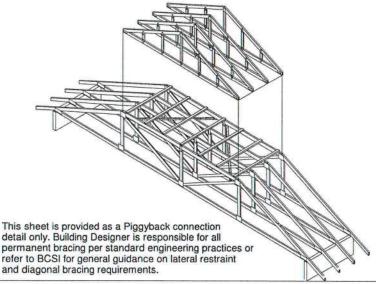


#### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

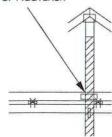
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



**VERTICAL WEB TO** EXTEND THROUGH **BOTTOM CHORD** OF PIGGYBACK



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

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.

AS SHOWN IN DELAIL.
ATTACH 2 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)

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. FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS.

NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.

CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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#### STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

#### MII-REP01A1

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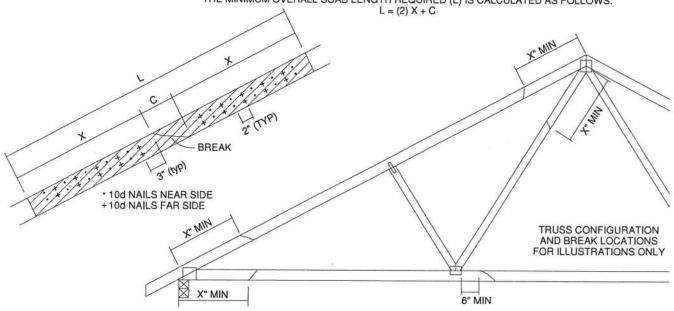
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TOTAL NUMBER OF			MAXIMUM FORCE (lbs) 15% LOAD DURATION									
OF BREAK *	X INCHES	SP		DF		SPF		HF				
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6		
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028		
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608		
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187		
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767		
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347		

<sup>\*</sup> DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x\_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

#### DO NOT USE REPAIR FOR JOINT SPLICES

- THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN, THIS REPAIR DOES
   NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS
   SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.

  2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR
  AND HELD IN PLACE DURING APPLICATION OF REPAIR.
- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

  WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

  THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x\_ ORIENTATION ONLY. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



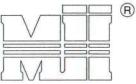
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### LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

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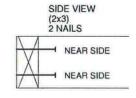
NOTES:

- 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.

# THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

# VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY



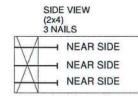
OE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail) DIAM. SPF-S HF SPE .131 88.0 69.9 80.6 68.4 59.7 LONG 63.4 .135 93.5 74.2 85.6 72.6 3.5" 162 108.8 99.6 86.4 84.5 73.8 3.25" LONG .128 74.2 57.6 50.3 67.9 58.9 75.9 60.3 59.0 51.1 .131 69.5 81.4 64.6 63.2 74.5 .148 52.5

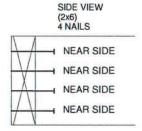
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

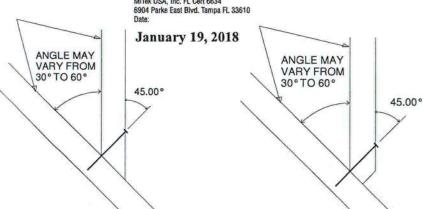
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

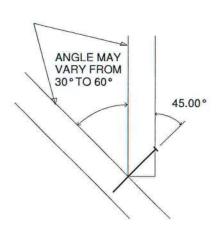






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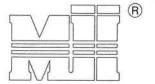


# TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

#### GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW

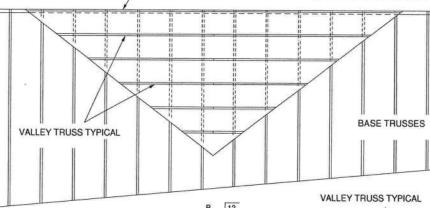
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A

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.

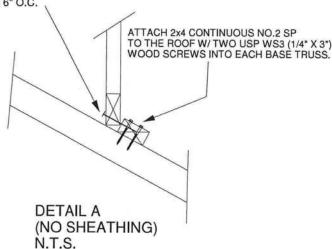
6. NAILING DONE PER NDS - 01

7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS OR GIRDER TRUSS SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



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



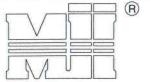
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#### TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

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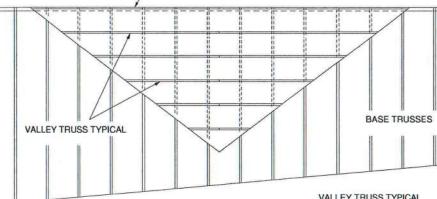
MiTek USA, Inc. ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

#### **GENERAL SPECIFICATIONS**

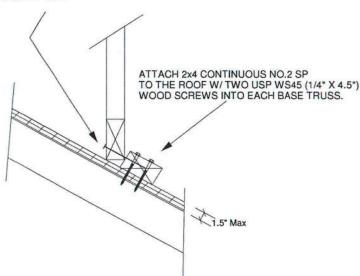
- 1. NAIL SIZE 10d (0.131" X 3")
  2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT
  3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
  4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
- SECURE TO BASE TRUSSES AS PER DETAIL A

  5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE
- INDIVIDUAL DESIGN DRAWINGS.
- 6. NAILING DONE PER NDS-01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS VALLEY TRUSS TYPICAL OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.) .....

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



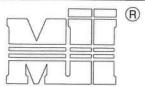
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING **EXPOSURE C** WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)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



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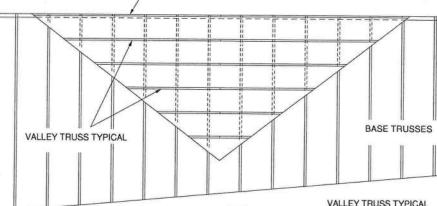
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ENGINEERED BY 140

GABLE END, COMMON TRUSS OR GIRDER TRUSS

#### GENERAL SPECIFICATIONS

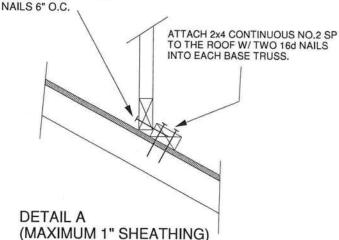
- NAIL SIZE 16d (0.131" X 3.5")
   INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



GABLE END, COMMON TRUSS VALLEY TRUSS TYPICAL 12 OR GIRDER TRUSS SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 16d

N.T.S.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES

No 39380

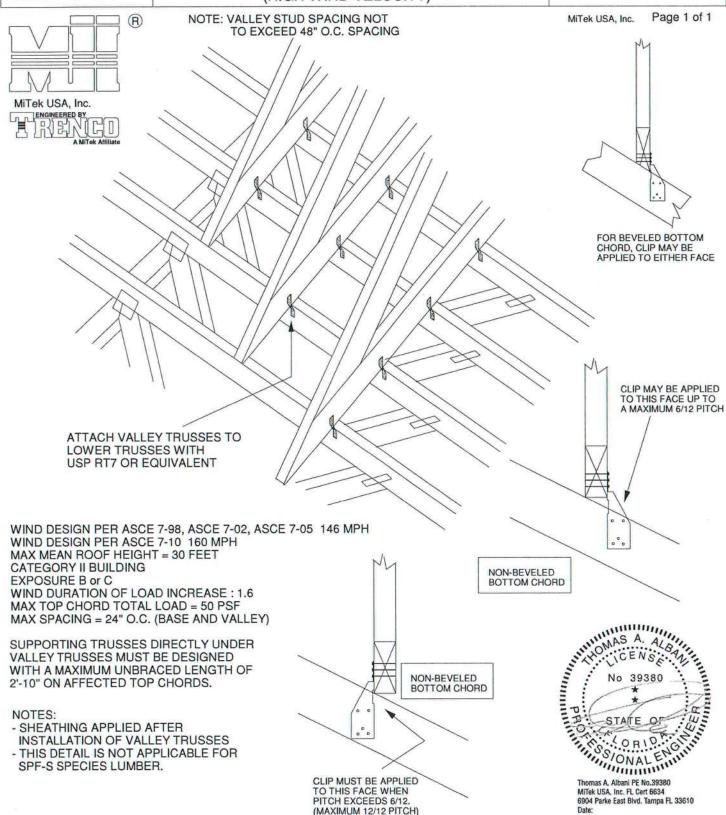
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# TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

**MII-VALLEY** 



### Standard Gable End Detail

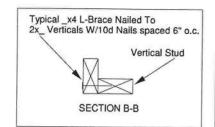
MII-GE146-001

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DIAGONAL BRACE



Vertical Stud DIAGONAL (4) - 16d Nails BRACE 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails SECTION A-A

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. 4'-0" O.C. MAX 12 Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =B L-Bracing Refer to Section B-B Diagonal Bracing

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 NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK

Roof Sheathing

24" Max

#### NOTE:

Refer to Section A-A

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:
2x4 No 3/STUD SP 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)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

TYPE TRUSSES.

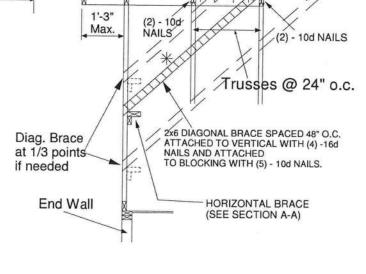
NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAI BRACES AT 1/3 POINTS			
and Grade		Maximum Stud Length						
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10			
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11			
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7			

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 nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 **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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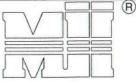
# **OCTOBER 5, 2016**

#### REPLACE BROKEN OVERHANG

MII-REP13B

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TRUSS CRITERIA:

LOADING: 40-10-0-10 DURATION FACTOR: 1.15 SPACING: 24" O.C. TOP CHORD: 2x4 OR 2x6 PITCH: 4/12 - 12/12 HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

**END BEARING CONDITION** 

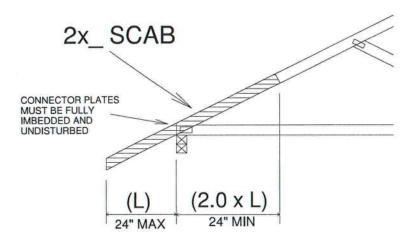
NOTES:

1. ATTACH 2x\_SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.

2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED.

TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



#### **IMPORTANT**

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf. Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



6904 Parke East Blvd. Tampa FL 33610 Date:

## LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

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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.

