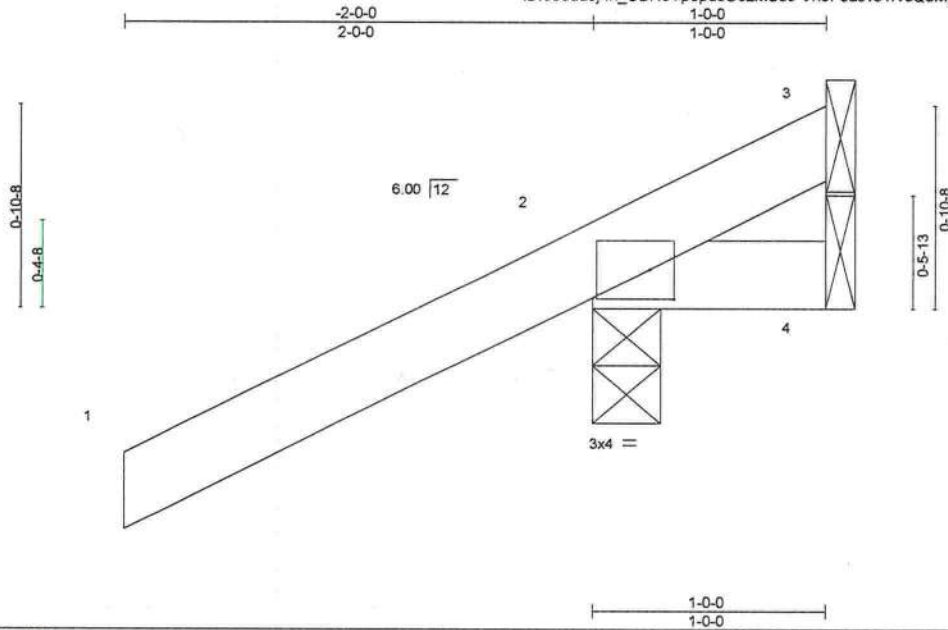


Job 1755797	Truss CJ01	Truss Type Jack-Open	Qty 6	Ply 1	BLAKE CONST. - MARTINO RES. Job Reference (optional)	T17005224
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Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:17 2019 Page 1  
ID:66eudoj4n\_UBHeYp0pd8U0zMS6s-Vn9PJasvs1ncQ5MgvxpY9JcVypSiPztYoznl\_zlXW0



Scale = 1:9.5

Plate Offsets (X,Y) - [2:0-1-4,0-1-9]									
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 0.32	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.07	Vert(CT)	0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MP						Weight: 7 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

**REACTIONS.** (lb/size) 3=-27/Mechanical, 2=254/0-3-8, 4=-46/Mechanical  
Max Horz 2=66(LC 12)  
Max Uplift 3=-27(LC 1), 2=-162(LC 12), 4=-46(LC 1)  
Max Grav 3=25(LC 16), 2=254(LC 1), 4=44(LC 16)

**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.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 162 lb uplift at joint 2 and 46 lb uplift at joint 4.



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Date:

May 8, 2019

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**MiTek**

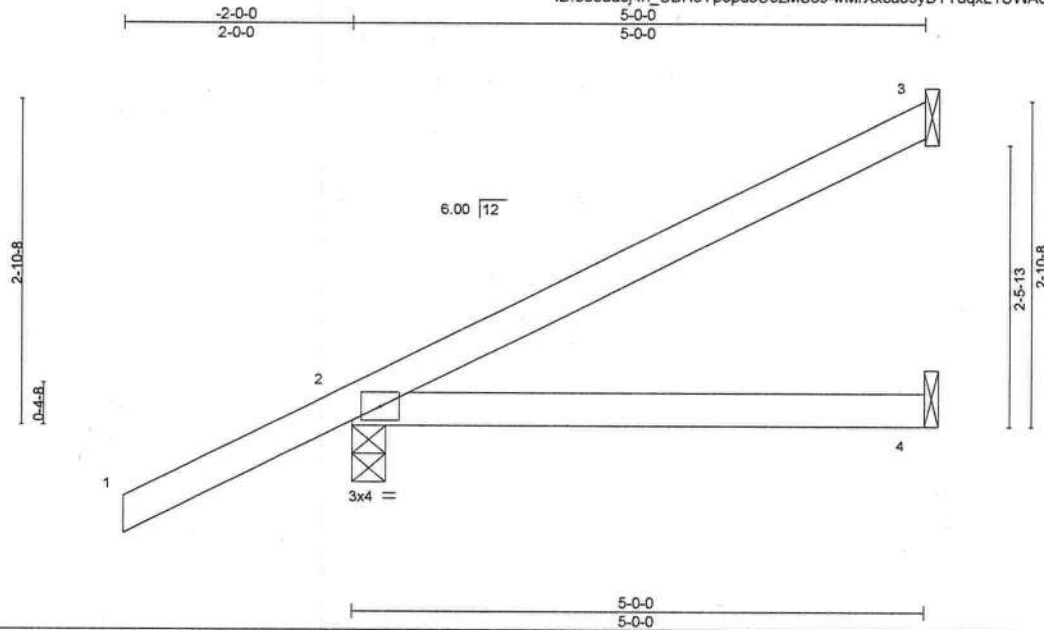
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38186

Job 1755797	Truss CJ05	Truss Type Jack-Open	Qty 4	Ply 1	BLAKE CONST. - MARTINO RES. Job Reference (optional)	T17005226
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Builders FirstSource, Jacksonville, FL - 32244,

6.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:20 2019 Page 1  
ID:66eudoj4n\_UBHeYp0pd8U0zMS6s-wMrXxcuo9yDTTuxqL1UWAox6IAokvmIJEmBRtJzIXVz



Scale = 1:19.5

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 0.32	Vert(LL)	0.03	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.05	4-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						
								Weight: 19 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(lb/size) 3=108/Mechanical, 2=313/0-3-8, 4=53/Mechanical  
Max Horz 2=162(LC 12)  
Max Uplift 3=98(LC 12), 2=137(LC 12), 4=1(LC 12)  
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=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.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 3, 137 lb uplift at joint 2 and 1 lb uplift at joint 4.



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Date:

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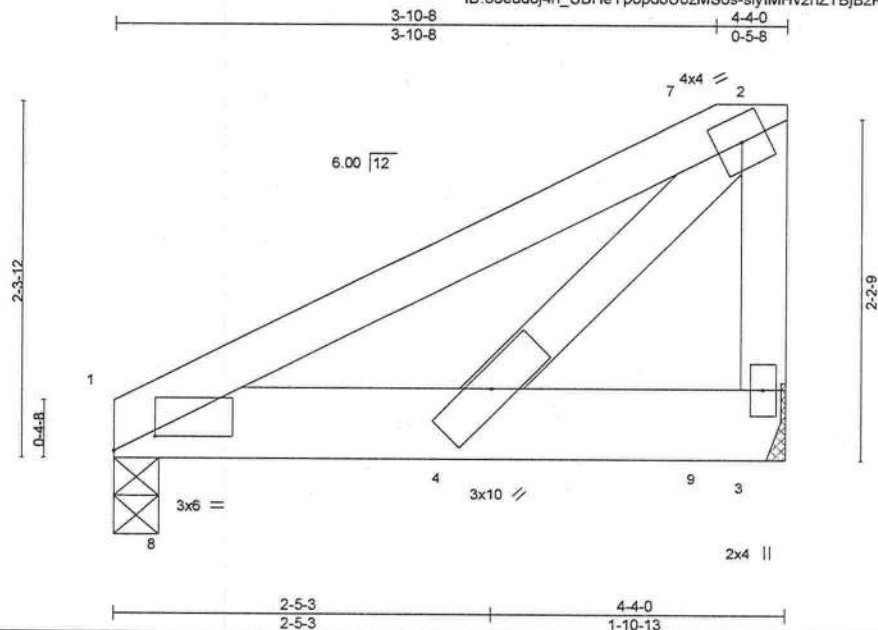
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Job 1755797	Truss EJ02	Truss Type Half Hip Girder	Qty 1	Ply 1	BLAKE CONST. - MARTINO RES.	T17005228
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Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:22 2019 Page 1  
ID:66eudoj4n\_UBHeYp0pd8U0zMS6s-slyIMhv2hZTBjBzKTSX\_FD0U7zSONbsci4gYyCziXVx



Scale = 1:14.4

Plate Offsets (X,Y)--		[1:0-3-3,0-1-2]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.21
TCDL 7.0	Lumber DOL	1.25	BC 0.35
BCLL 0.0	Rep Stress Incr	NO	WB 0.34
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 4 >999 240
			Vert(CT) -0.02 4-6 >999 180
			Horz(CT) 0.00 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 24 lb FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(lb/size) 1=885/0-3-8, 3=537/Mechanical  
Max Horz 1=71(LC 8)  
Max Uplift 1=210(LC 8), 3=190(LC 8)

#### FORCES.

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

TOP CHORD 1-2=736/171, 2-3=472/190  
BOT CHORD 1-4=172/618  
WEBS 2-4=250/899

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 1 and 190 lb uplift at joint 3.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 85 lb up at 3-10-8 on top chord, and 531 lb down and 143 lb up at 0-4-12, and 525 lb down and 149 lb up at 2-4-12, and 93 lb down and 18 lb up at 3-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=54, 1-3=20  
Concentrated Loads (lb)  
Vert: 4=525(F) 7=46(B) 8=531(F) 9=10(B)



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May 8, 2019

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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/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.

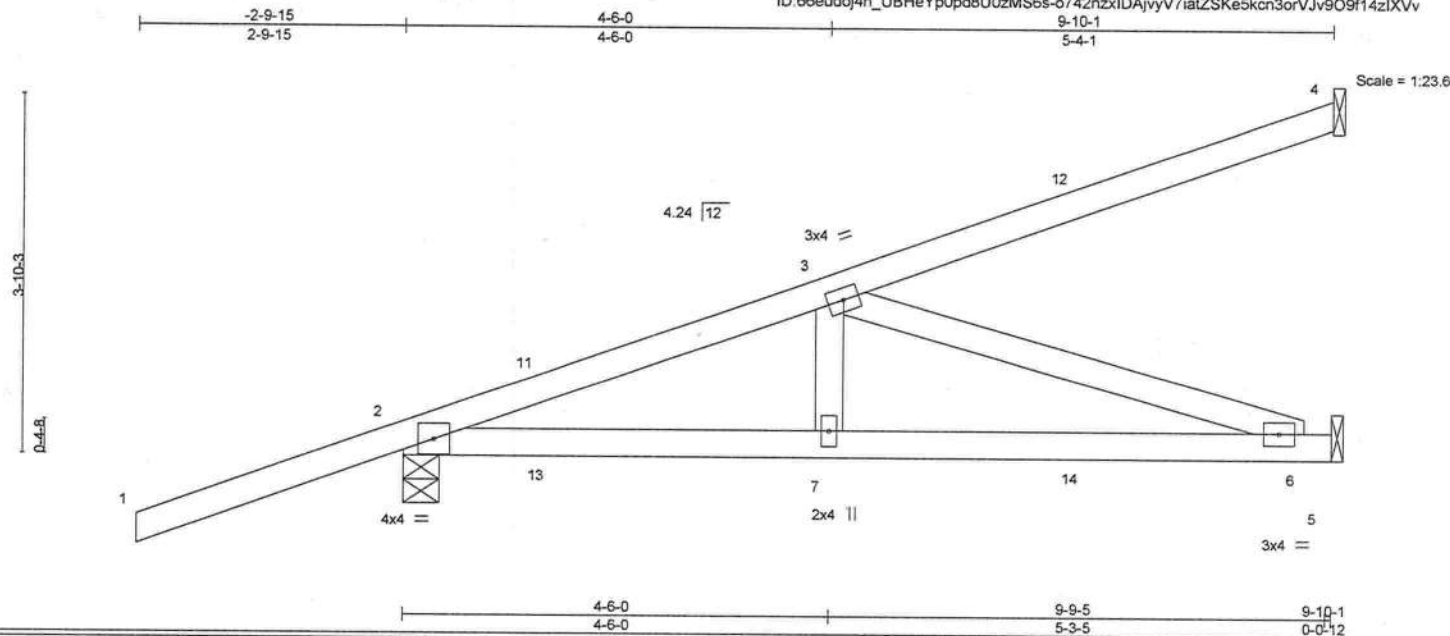


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Tampa, FL 36610

Job 1755797	Truss HJ10	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	BLAKE CONST. - MARTINO RES.	T17005230
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Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:24 2019 Page 1  
ID:66eudoj4n\_UBHeYp0pd8U0zMS6s-o742nzxIDAjvyV7iatZSK5kcn3orVJv9O9f14zlXVv



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.06	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.12	6-7	>967	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.35	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS							
									Weight: 44 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(lb/size) 4=150/Mechanical, 2=463/0-4-9, 5=251/Mechanical  
Max Horz 2=233(LC 22)  
Max Uplift 4=141(LC 4), 2=264(LC 4), 5=103(LC 3)  
Max Grav 4=150(LC 1), 2=463(LC 1), 5=266(LC 3)

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

TOP CHORD 2-3=-628/252  
BOT CHORD 2-7=-327/573, 6-7=-327/573  
WEBS 3-6=-603/345

#### 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 4, 264 lb uplift at joint 2 and 103 lb uplift at joint 5.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 103 lb up at 1-6-1, 86 lb down and 103 lb up at 1-6-1, 26 lb down and 38 lb up at 4-4-0, 26 lb down and 38 lb up at 4-4-0, and 50 lb down and 97 lb up at 7-1-15, and 50 lb down and 97 lb up at 7-1-15 on top chord, and 36 lb down and 74 lb up at 1-6-1, 36 lb down and 74 lb up at 1-6-1, 28 lb down and 2 lb up at 4-4-0, 28 lb down and 2 lb up at 4-4-0, and 44 lb down and 15 lb up at 7-1-15, and 44 lb down and 15 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 5-8=-20  
Concentrated Loads (lb)  
Vert: 7=5(F=2, B=2) 11=50(F=25, B=25) 12=-64(F=-32, B=-32) 13=70(F=35, B=35) 14=-49(F=-24, B=-24)



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Date:

May 8, 2019

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6904 Parke East Blvd.  
Tampa, FL 33610



Job 1755797	Truss T02	Truss Type Hip	Qty 1	Ply 1	BLAKE CONST. - MARTINO RES.	T17005232
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Builders FirstSource, Jacksonville, FL - 32244,

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-2-0-0	4-9-8	9-0-0	15-0-0	19-2-8	24-0-0	26-0-0
2-0-0	4-9-8	4-2-8	6-0-0	4-2-8	4-9-8	2-0-0

Scale = 1:45.6

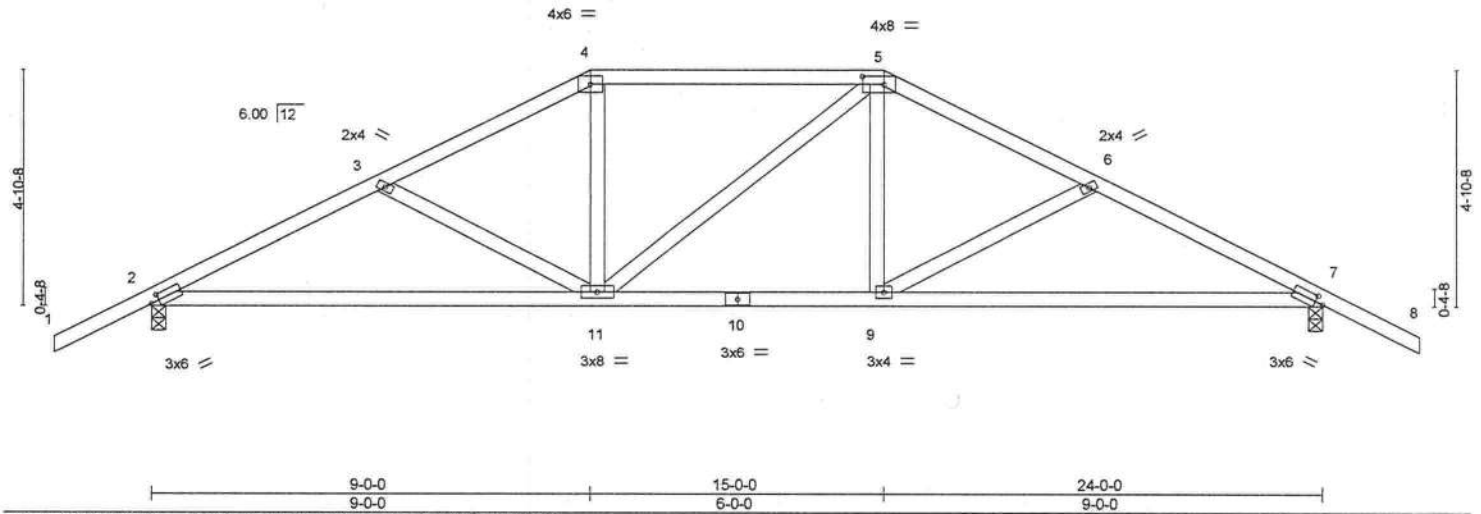


Plate Offsets (X,Y)- [2:0-1-15,0-1-8], [5:0-5-4,0-2-0], [7:0-1-15,0-1-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Vert(LL) -0.16	9-17	>999	240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.70	Vert(CT) -0.32	9-17	>890	180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.05	7	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight: 119 lb FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-6-9 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-6-11 oc bracing.

**REACTIONS.** (lb/size) 2=996/0-3-8, 7=996/0-3-8  
Max Horz 2=-75(LC 10)  
Max Uplift 2=-208(LC 12), 7=-208(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1535/817, 3-4=-1283/677, 4-5=-1107/659, 5-6=-1282/677, 6-7=-1535/817  
BOT CHORD 2-11=-578/1345, 9-11=-370/1106, 7-9=-605/1345  
WEBS 3-11=-281/269, 4-11=-79/356, 5-9=-84/356, 6-9=-282/269

#### 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) 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 2 and 208 lb uplift at joint 7.



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May 8, 2019

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6904 Parke East Blvd.  
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Job 1755797	Truss T04	Truss Type Common	Qty 6	Ply 1	BLAKE CONST. - MARTINO RES.	T17005234
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8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:29 2019 Page 1  
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17-9-11 24-0-0 26-0-0  
5-9-11 6-2-5 2-0-0

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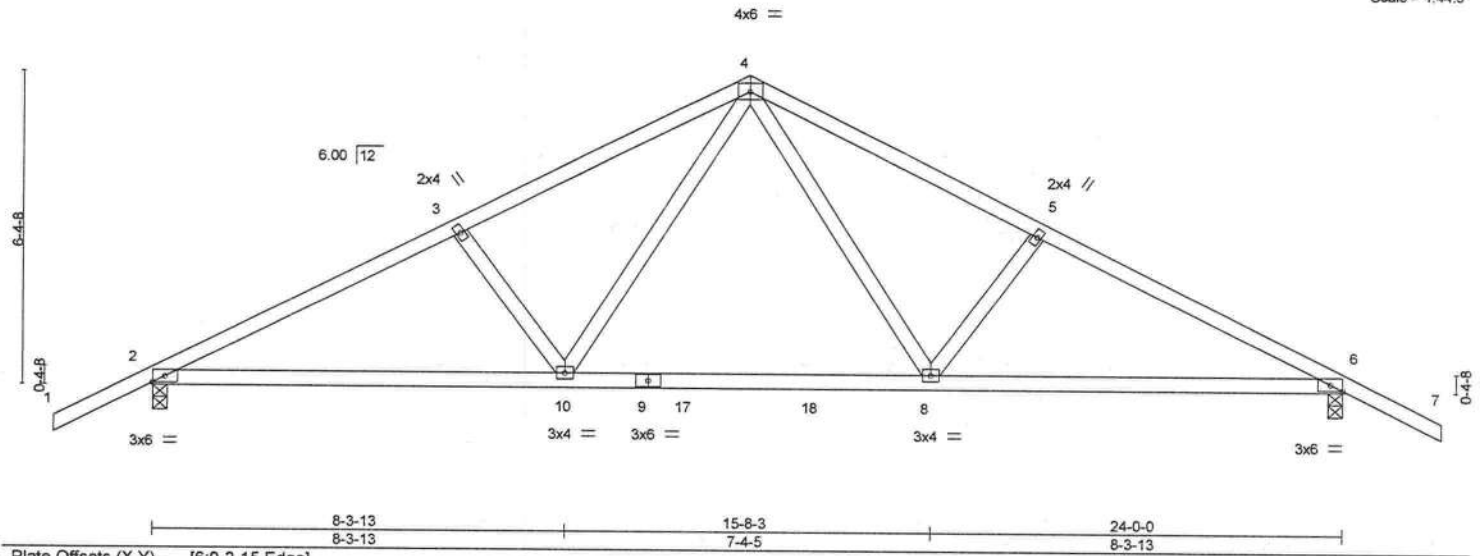


Plate Offsets (X,Y) - [6:0-2:15,Edge]		8-3-13		15-8-3		24-0-0	
		8-3-13		7-4-5		8-3-13	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	-0.13 8-10	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.23 8-16	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.04 6	n/a	n/a
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS				
				Weight: 114 lb FT = 20%			

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-8-4 oc bracing.

#### REACTIONS.

(lb/size) 2=996/0-3-8, 6=996/0-3-8  
Max Horz 2=95(LC 11)  
Max Uplift 2=225(LC 12), 6=225(LC 13)

#### FORCES.

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

TOP CHORD 2-3=1518/809, 3-4=1334/780, 4-5=1334/780, 5-6=1518/809  
BOT CHORD 2-10=565/1307, 8-10=254/869, 6-8=583/1307  
WEBS 4-8=267/506, 5-8=328/330, 4-10=267/506, 3-10=328/330

#### 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) 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.
- \* 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 225 lb uplift at joint 2 and 225 lb uplift at joint 6.



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Date:

May 8,2019

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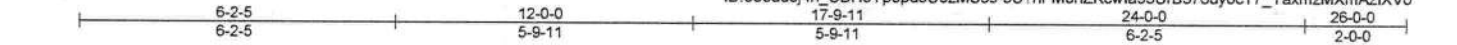


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Tampa, FL 33610

Job 1755797	Truss T06	Truss Type Common	Qty 2	Ply 1	BLAKE CONST. - MARTINO RES.	T17005236
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Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:31 2019 Page 1  
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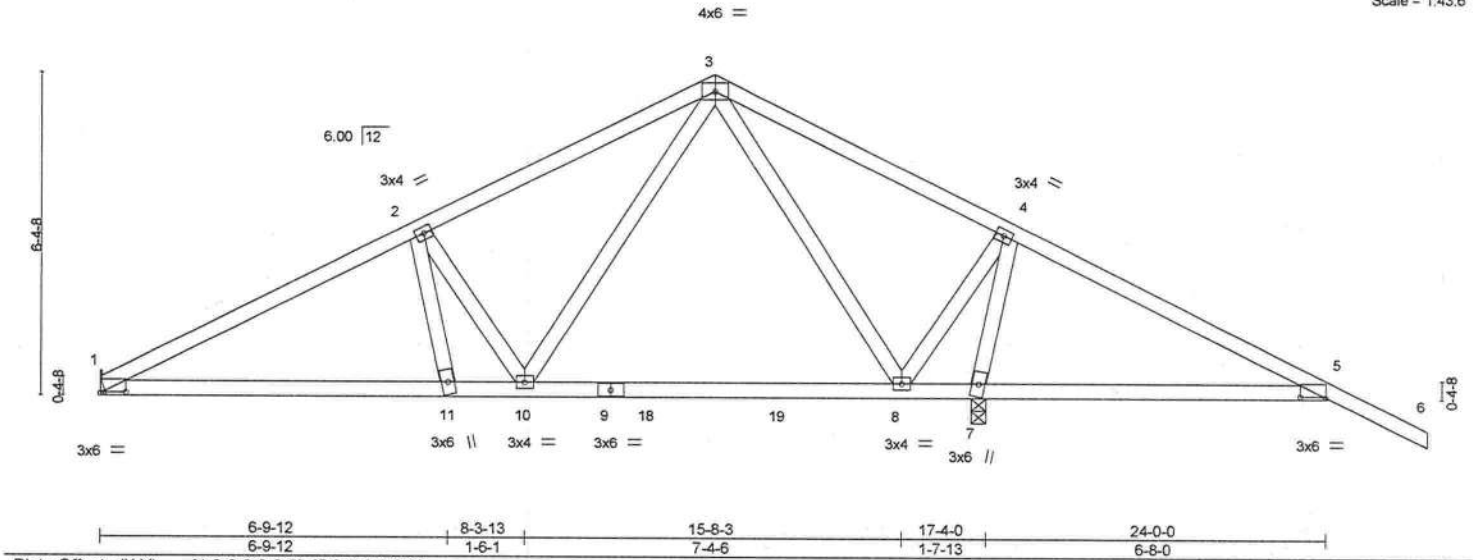


Plate Offsets (X,Y)-- [1:0-6-0,0-0-3], [5:0-6-0,0-0-3]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.58		Vert(LL) -0.07 8-10		>999 240		MT20 244/190	
TCDL 7.0		Lumber DOL 1.25		BC 0.56		Vert(CT) -0.14 8-10		>999 180			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.82		Horz(CT) 0.01 7		n/a n/a			
BCDL 10.0		Code FBC2017/TP12014		Matrix-MS						Weight: 119 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-10-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 1=484/Mechanical, 7=1400/0-3-8  
Max Horz 1=102(LC 13)  
Max Uplift 1=129(LC 12), 7=316(LC 13)  
Max Grav 1=545(LC 23), 7=1400(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=819/205, 2-3=606/198, 3-4=588/519, 4-5=931/756  
BOT CHORD 1-11=184/697, 10-11=184/721, 8-10=66/428, 7-8=874/1190, 5-7=602/982  
WEBS 3-8=837/828, 4-8=589/921, 4-7=1281/981, 3-10=304/532, 2-10=448/375

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) and C-C Exterior(2) zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 1 and 316 lb uplift at joint 7.



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May 8, 2019

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Job 1755797	Truss T08	Truss Type Roof Special	Qty 1	Ply 1	BLAKE CONST. - MARTINO RES.	T17005238
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Builders FirstSource, Jacksonville, FL - 32244,

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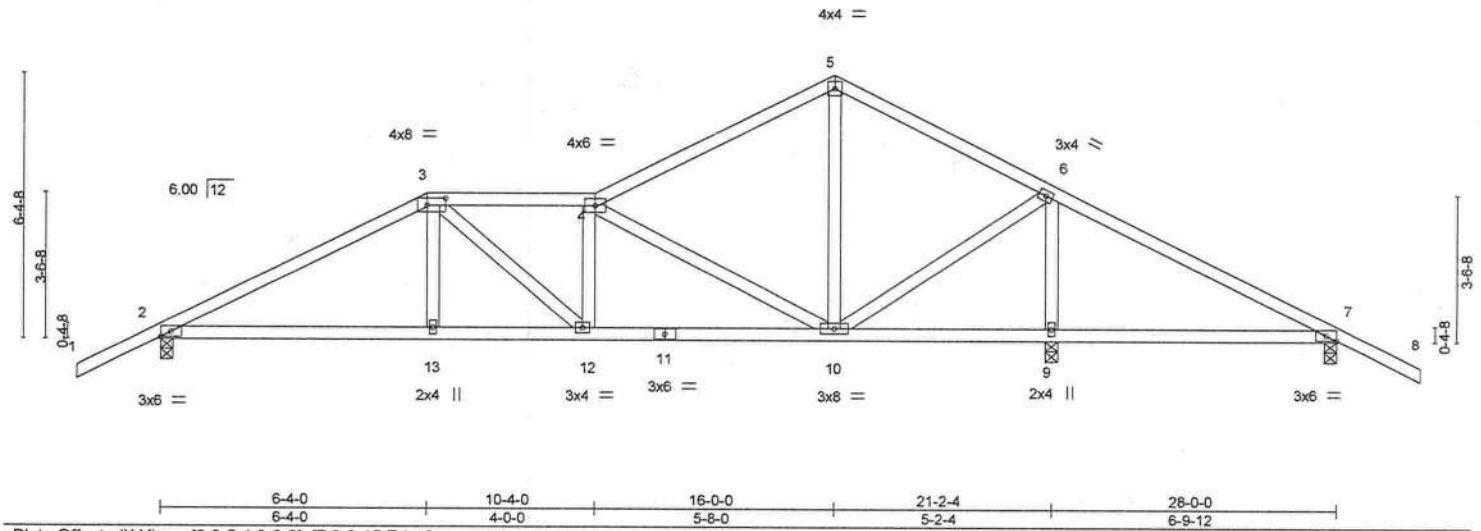


Plate Offsets (X,Y)--		[3:0-5-4,0-2-0], [7:0-2-15,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.49		Vert(LL)	-0.05 13-16	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.43		Vert(CT)	-0.12 13-16	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.70		Horz(CT)	0.02 9	n/a	n/a		
BCDL 10.0		Code FBC2017/TPI2014		Matrix-MS						Weight: 142 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS.

(lb/size) 2=836/0-3-8, 9=1264/0-3-8, 7=188/0-3-8  
Max Horz 2=95(LC 10)  
Max Uplift 2=214(LC 12), 9=231(LC 12), 7=100(LC 13)  
Max Grav 2=836(LC 1), 9=1264(LC 1), 7=280(LC 24)

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

TOP CHORD 2-3=-1161/597, 3-4=-1095/666, 4-5=-471/339, 5-6=-478/355, 6-7=-108/398  
BOT CHORD 2-13=-350/972, 12-13=-349/978, 10-12=-436/1096, 9-10=-313/266, 7-9=-313/266  
WEBS 4-10=-847/520, 6-10=-275/770, 6-9=-1107/630

#### 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) 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 2, 231 lb uplift at joint 9 and 100 lb uplift at joint 7.



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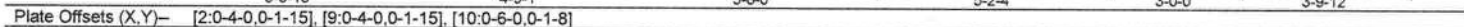
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T17005240

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:37 2019 Page 1  
ID:66eudoi4n UBHeYp0pd8U0zMS6s-weMvVQ5S9AM30VdCr6IVMN8 80bTQJd08vnr azIXV

Scale = 1:50.0

Weight: 201 lb      FT = 20%

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 5-3-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-14.

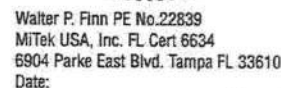
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**TOP CHORD**  
2-8=1029/372, 3-4=688/311, 4-5=574/307, 5-6=373/275, 6-7=415/272,  
7-8=179/832, 8-9=1166/345

**BOT CHORD**  
2-17=347/941, 16-17=347/941, 14-16=198/496, 12-14=697/205, 10-12=288/1026,  
9-10=288/1026

**WEBS**  
3-16=397/160, 5-16=109/415, 5-14=547/205, 7-14=198/967, 7-12=1200/282,  
8-10=347/1633, 8-12=1867/449

LOAD CASE(S) Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=54, 4-5=54, 5-6=54, 6-9=54, 2-9=20

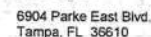


May 8, 2019

Continued on page 2

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Job 1755797	Truss T11	Truss Type Hip	Qty 1	Ply 1	BLAKE CONST. - MARTINO RES.	T17005241
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Builders FirstSource, Jacksonville, FL - 32244,

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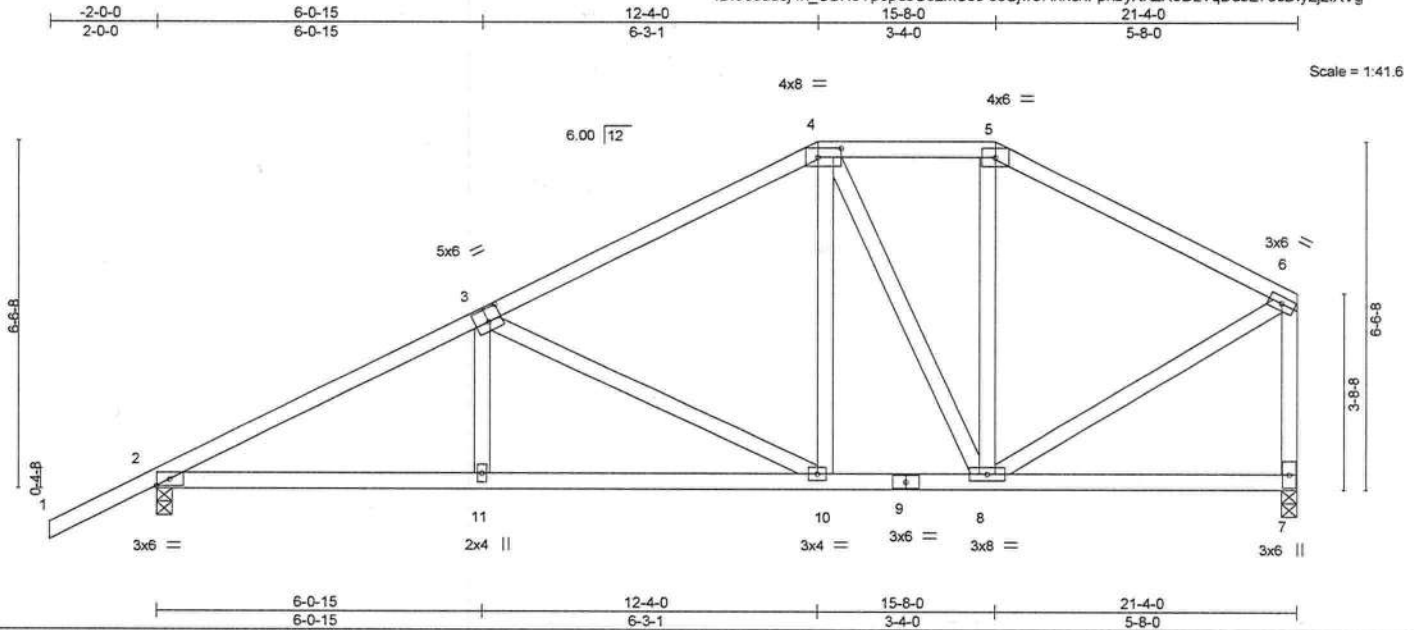


Plate Offsets (X,Y) - [3:0-3-0,0-0-0], [4:0-5-4,0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.05 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.12 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 126 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-6 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-1-9 oc bracing.

#### REACTIONS.

(lb/size) 2=897/0-3-8, 7=779/0-3-8  
Max Horz 2=177(LC 12)  
Max Uplift 2=205(LC 12), 7=134(LC 12)

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

TOP CHORD 2-3=-1343/658, 3-4=-812/456, 4-5=-532/402, 5-6=-662/377, 6-7=-724/432  
BOT CHORD 2-11=-681/1148, 10-11=-682/1146, 8-10=-326/658  
WEBS 3-11=0/267, 3-10=-553/401, 4-10=-151/362, 4-8=-326/160, 6-8=-273/591

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 2 and 134 lb uplift at joint 7.



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6904 Parke East Blvd.  
Tampa, FL 36610

Job 1755797	Truss T13	Truss Type Common	Qty 13	Ply 1	BLAKE CONST. - MARTINO RES.	T17005243
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Builders FirstSource, Jacksonville, FL - 32244,

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-2-0-0	7-1-12	13-1-0	19-3-0	25-5-1	31-4-4	38-6-0	40-6-0
2-0-0	7-1-12	5-11-4	6-2-1	6-2-0	5-11-3	7-1-12	2-0-0

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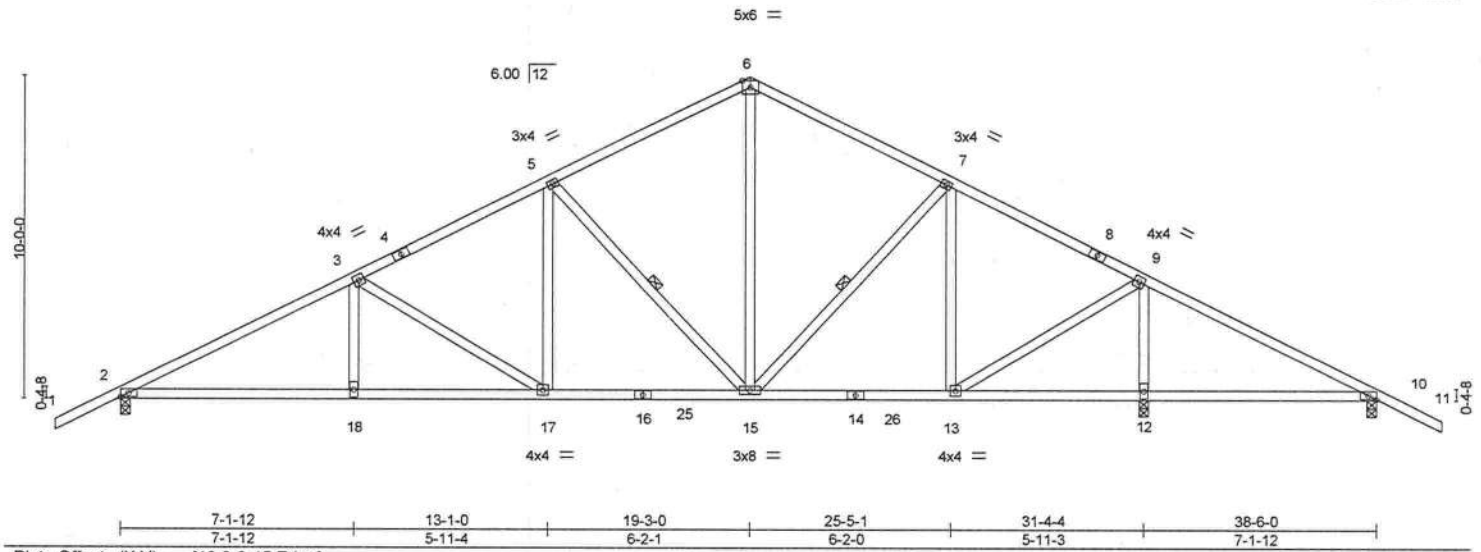


Plate Offsets (X,Y) - [10'-0-2-15,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(LL)	0.16	12-24	>551	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.17	18-21	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.05	12	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 217 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 7-15, 5-15

#### REACTIONS.

(lb/size) 2=1221/0-3-8, 12=1676/0-3-8, 10=167/0-3-8  
Max Horz 2=223/LC 12)  
Max Uplift 2=507/LC 12), 12=538/LC 13), 10=179/LC 8)  
Max Grav 2=1221/LC 1), 12=1676/LC 1), 10=257/LC 24)

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

TOP CHORD 2-3=1988/1059, 3-5=1485/892, 5-6=978/709, 6-7=977/708, 7-9=835/561,  
9-10=160/483  
BOT CHORD 2-18=760/1710, 17-18=760/1710, 15-17=463/1263, 13-15=162/679, 12-13=336/244,  
10-12=336/244  
WEBS 6-15=363/515, 7-15=76/277, 7-13=521/305, 9-13=439/1188, 9-12=1502/829,  
5-15=682/485, 5-17=153/438, 3-17=526/376, 3-18=0/272

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 507 lb uplift at joint 2, 538 lb uplift at joint 12 and 179 lb uplift at joint 10.



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Tampa, FL 36610

Job 1755797	Truss T14	Truss Type Roof Special	Qty 1	Ply 1	BLAKE CONST. - MARTINO RES. Job Reference (optional)	T17005245
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Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:47 2019 Page 1  
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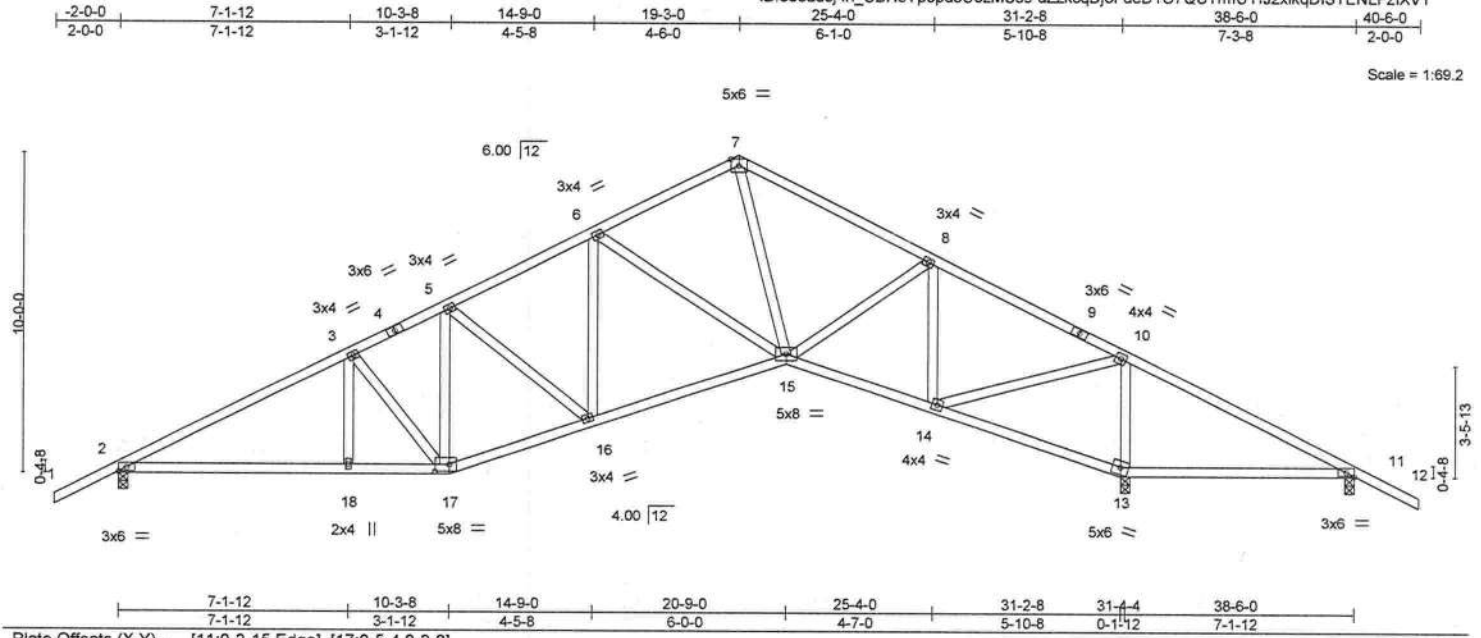


Plate Offsets (X,Y)~		[11:0-2-15,Edge], [17:0-5-4,0-2-8]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.20 13-24	>443	240	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	0.16 13-24	>542	180				
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.09 13	n/a	n/a				
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS									
										Weight: 213 lb	FT = 20%		

#### LUMBER-

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

#### BRACING-

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 3-7-2 oc purlins.  
Rigid ceiling directly applied or 5-11-1 oc bracing.

#### REACTIONS.

(lb/size) 2=1165/0-3-8, 13=1943/0-3-8, 11=42/0-3-8  
Max Horz 2=144(LC 10)  
Max Uplift 2=276(LC 12), 13=323(LC 12), 11=228(LC 10)  
Max Grav 2=1165(LC 1), 13=1943(LC 1), 11=112(LC 24)

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

TOP CHORD 2-3=1859/1012, 3-5=1535/956, 5-6=1476/881, 6-7=1058/633, 7-8=1274/716,  
8-10=822/514, 10-11=265/944  
BOT CHORD 2-18=713/1593, 17-18=713/1593, 16-17=572/1412, 15-16=430/1362, 14-15=137/713,  
13-14=886/458, 11-13=760/391  
WEBS 3-17=417/292, 6-16=131/280, 6-15=512/435, 7-15=383/736, 8-15=56/499,  
8-14=806/377, 10-14=536/1541, 10-13=1513/817

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl.,  
GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions  
shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide  
will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)  
2=276, 13=323, 11=228.



Walter P. Finn PE No.22839  
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Date:

May 8,2019

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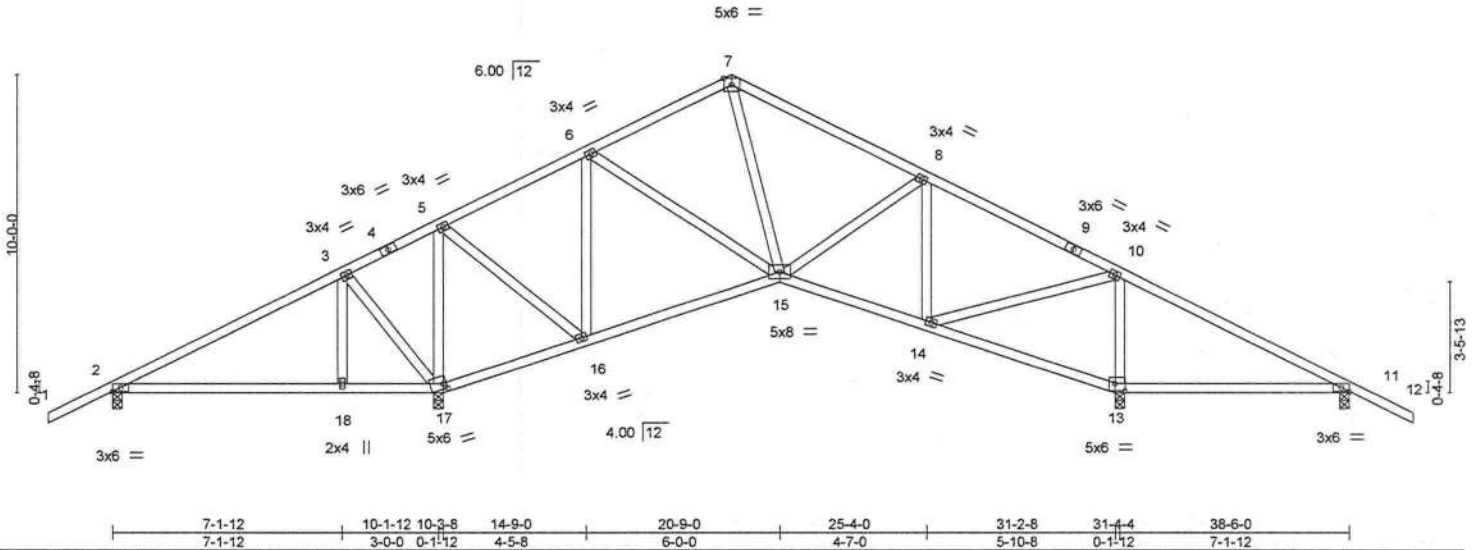
**MiTek**

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Tampa, FL 33610

Job 1755797	Truss T15	Truss Type Roof Special	Qty 7	Ply 1	BLAKE CONST. - MARTINO RES. Job Reference (optional)	T17005247
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Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:52 2019 Page 1  
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	0.19 13-24 >453 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.18 13-24 >486 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03 13 n/a n/a				
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							
								Weight: 213 lb		FT = 20%	

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:  
10-0-0 oc bracing: 15-16,14-15.

#### REACTIONS.

All bearings 0-3-8.  
(lb) - Max Horz 2=144(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) except 2=171(LC 8), 17=297(LC 12), 13=225(LC 13),  
11=169(LC 8)  
Max Grav All reactions 250 lb or less at joint(s) except 2=385(LC 23), 17=1339(LC 1), 13=1098(LC 1),  
11=310(LC 24)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=162/281, 3-5=31/345, 5-6=324/278, 6-7=570/370, 7-8=653/382, 8-10=666/423  
BOT CHORD 16-17=346/367, 15-16=0/317, 14-15=53/568  
WEBS 3-18=281/264, 3-17=455/606, 5-17=859/388, 5-16=240/723, 6-16=514/249,  
6-15=0/264, 7-15=110/289, 8-15=80/252, 8-14=315/119, 10-14=101/712,  
10-13=895/493

#### 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) 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide  
will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 2, 297 lb uplift at  
joint 17, 225 lb uplift at joint 13 and 169 lb uplift at joint 11.



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Date:

May 8, 2019

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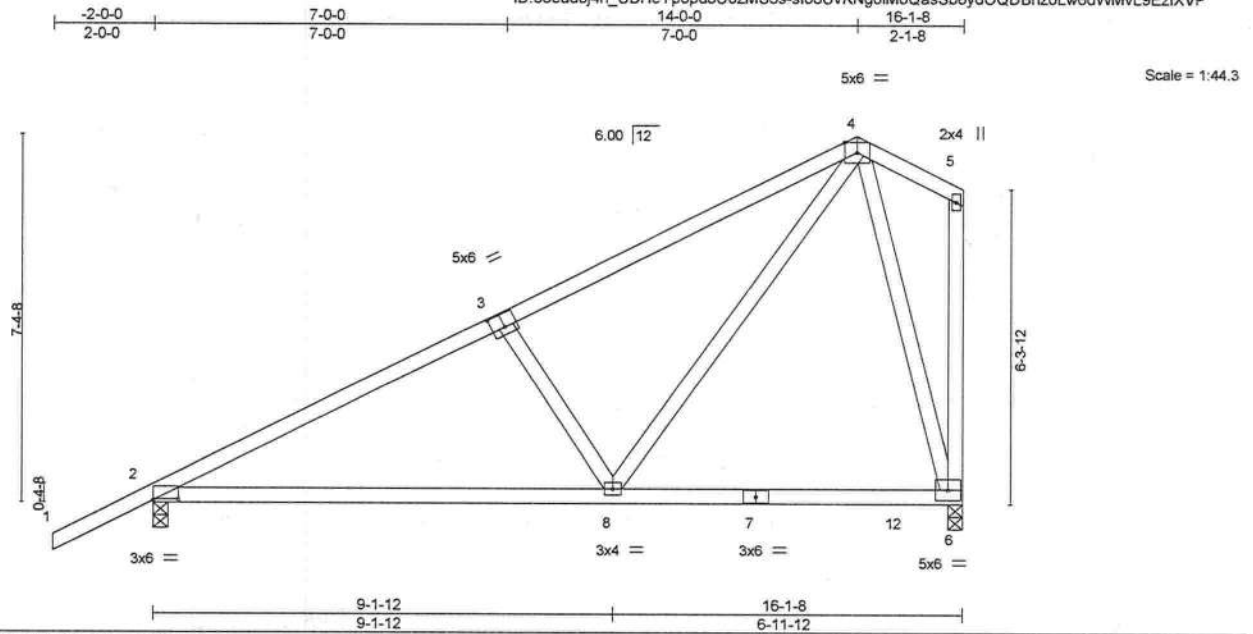


Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [3:0-3-0,0-3-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		I/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.14 8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.30 8-11	>643	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.01 6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS						Weight: 92 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-10-9 oc bracing.

REACTIONS.

(lb/size) 2=706/0-3-8, 6=584/0-3-8  
Max Horz 2=243(LC 12)  
Max Uplift 2=-150(LC 12), 6=-174(LC 12)

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

TOP CHORD 2-3=-839/348, 3-4=-660/332  
BOT CHORD 2-8=-539/711  
WEBS 3-8=-388/412, 4-8=-369/625, 4-6=-544/410

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 2 and 174 lb uplift at joint 6.



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**WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER EXPOSURE PAGE MIT-1413 (W, 10/03/2015) BEFORE USE.**

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - MARTINO RES.	T17005250
1755797	T18	Common Girder	1	2	Job Reference (optional)	

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8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:33:59 2019 Page 2  
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# **LOAD CASE(S) Standard**

## **Concentrated Loads (lb)**

Vert: 12=-565(F) 13=-560(F) 14=-560(F) 15=-560(F) 16=-560(F) 17=-560(F) 18=-558(F) 19=-566(F)

### **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 Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
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Job 1755797	Truss T19G	Truss Type Common Supported Gable	Qty 1	Ply 1	BLAKE CONST. - MARTINO RES. Job Reference (optional)	T17005252
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Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:34:02 2019 Page 1  
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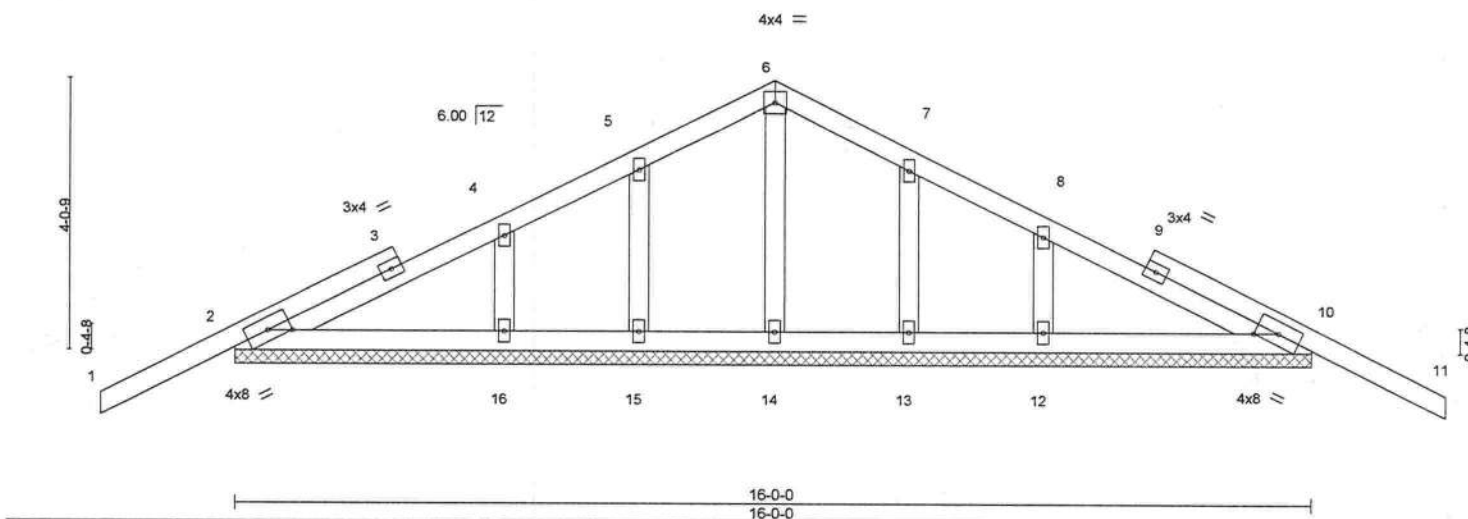


Plate Offsets (X,Y)--		[2:0-4-0,0-1-15], [10:0-4-0,0-1-15]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31
TCDL 7.0	Lumber DOL	1.25	BC 0.10
BCLL 0.0	Rep Stress Incr	YES	WB 0.05
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S
		DEFL.	in (loc)
		Vert(LL)	-0.02 11 n/r 120
		Vert(CT)	-0.02 11 n/r 120
		Horz(CT)	0.00 10 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 81 lb	FT = 20%

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

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

**REACTIONS.** All bearings 16-0-0.  
(lb) - Max Horz 2=98(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 15, 13 except 2=123(LC 12), 10=140(LC 13), 16=124(LC 12), 12=128(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16, 13, 12 except 2=264(LC 23), 10=264(LC 24)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 13 except (jt=lb) 2=123, 10=140, 16=124, 12=128.



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May 8, 2019

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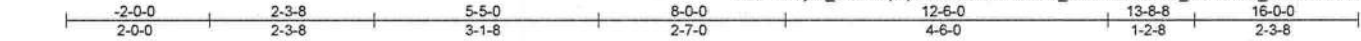
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Tampa, FL 33610

Job 1755797	Truss T21	Truss Type Roof Special	Qty 1	Ply 1	BLAKE CONST. - MARTINO RES. Job Reference (optional)	T17005254
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Builders FirstSource, Jacksonville, FL - 32244,

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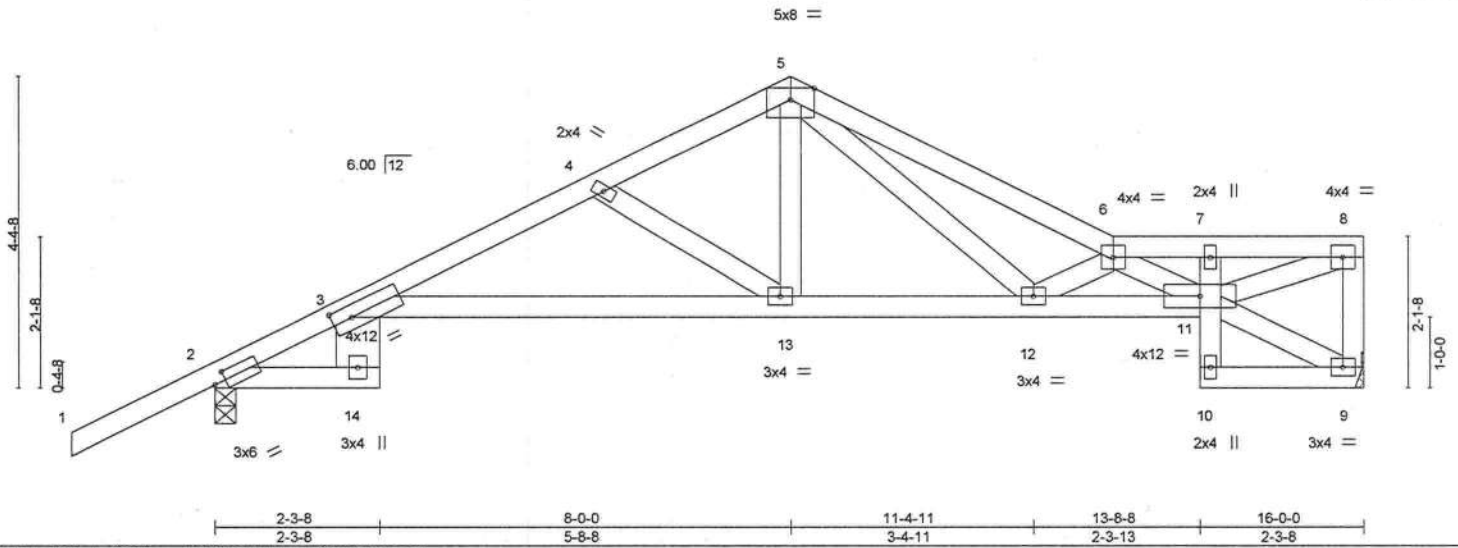


Plate Offsets (X,Y) - [2:0-1-15,0-1-8], [3:0-3-4,0-2-0]

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.66		Vert(LL)	0.25	3-13	>752	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.93		Vert(CT)	-0.49	3-13	>385	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44		Horz(CT)	0.28	9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS								
										Weight: 85 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*  
1-5: 2x4 SP M 31  
BOT CHORD 2x4 SP No.2 \*Except\*  
3-14: 2x8 SP 2400F 2.0E, 7-10: 2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-14 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

#### REACTIONS.

(lb/size) 9=580/Mechanical, 2=703/0-3-8  
Max Horz 2=115(LC 12)  
Max Uplift 9=125(LC 13), 2=161(LC 12)

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

TOP CHORD 3-16=-418/162, 3-4=-1292/733, 4-5=-959/559, 5-6=-1438/800, 6-7=-1195/639,  
7-8=-1074/585, 8-9=-524/299  
BOT CHORD 3-13=-699/1214, 12-13=-399/806, 11-12=-1028/1808  
WEBS 4-13=-479/353, 5-13=-225/483, 5-12=-337/586, 6-12=-708/474, 6-11=-719/457,  
8-11=-624/1145

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=125, 2=161.



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Date:

May 8, 2019

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6904 Parke East Blvd.  
Tampa, FL 33610

Job 1755797	Truss T23	Truss Type Half Hip	Qty 1	Ply 1	BLAKE CONST. - MARTINO RES.	T17005256
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Builders FirstSource, Jacksonville, FL - 32244,

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Job Reference (optional)



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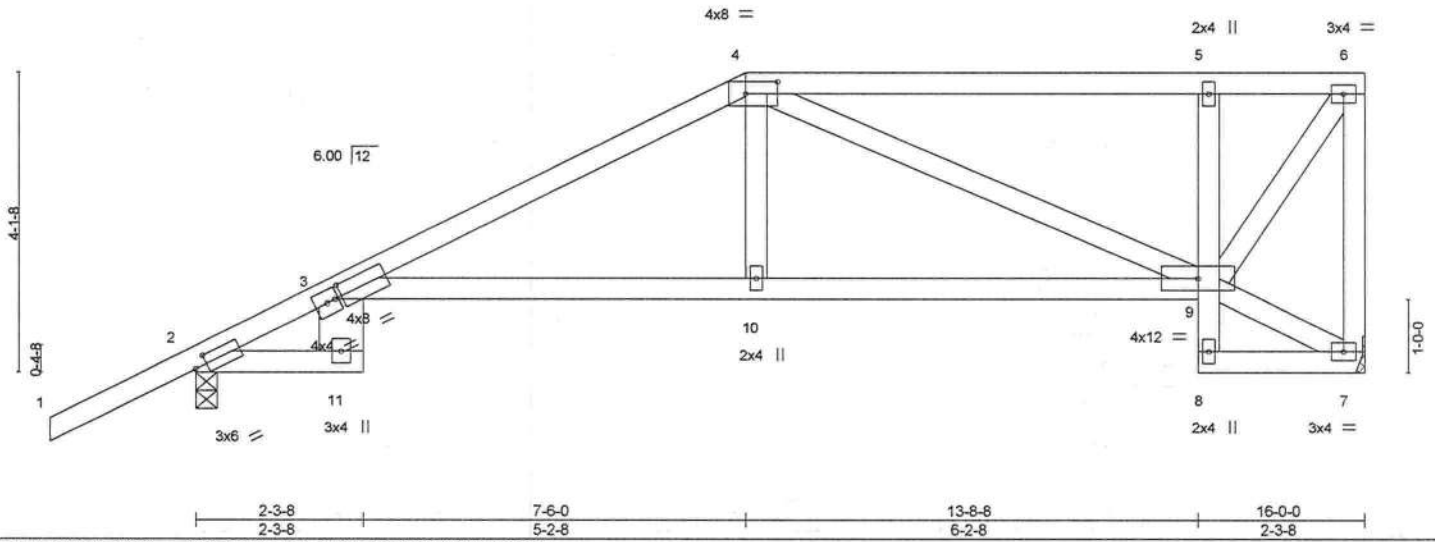


Plate Offsets (X,Y)- [2:0-1-15,0-1-8], [3:0-1-3,0-2-0], [4:0-5-4,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	0.33	3-10	>573	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.55	3-10	>344	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.28	7	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 87 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP M 31 \*Except\*  
4-6: 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
3-11: 2x8 SP 2400F 2.0E, 3-9: 2x4 SP M 31, 5-8: 2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING-

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

#### REACTIONS.

(lb/size) 7=580/Mechanical, 2=703/0-3-8  
Max Horz 2=154(LC 12)  
Max Uplift 7=147(LC 9), 2=151(LC 12)

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

TOP CHORD 3-13=418/69, 3-4=1040/520, 4-5=415/235, 5-6=385/218, 6-7=540/303  
BOT CHORD 3-10=552/915, 9-10=556/929, 5-9=287/233  
WEBS 4-10=66/376, 4-9=564/351, 6-9=378/666

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=147, 2=151.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 8,2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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 Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610



Job 1755797	Truss T25	Truss Type Half Hip	Qty 1	Ply 1	BLAKE CONST. - MARTINO RES.	T17005258
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Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:34:10 2019 Page 1

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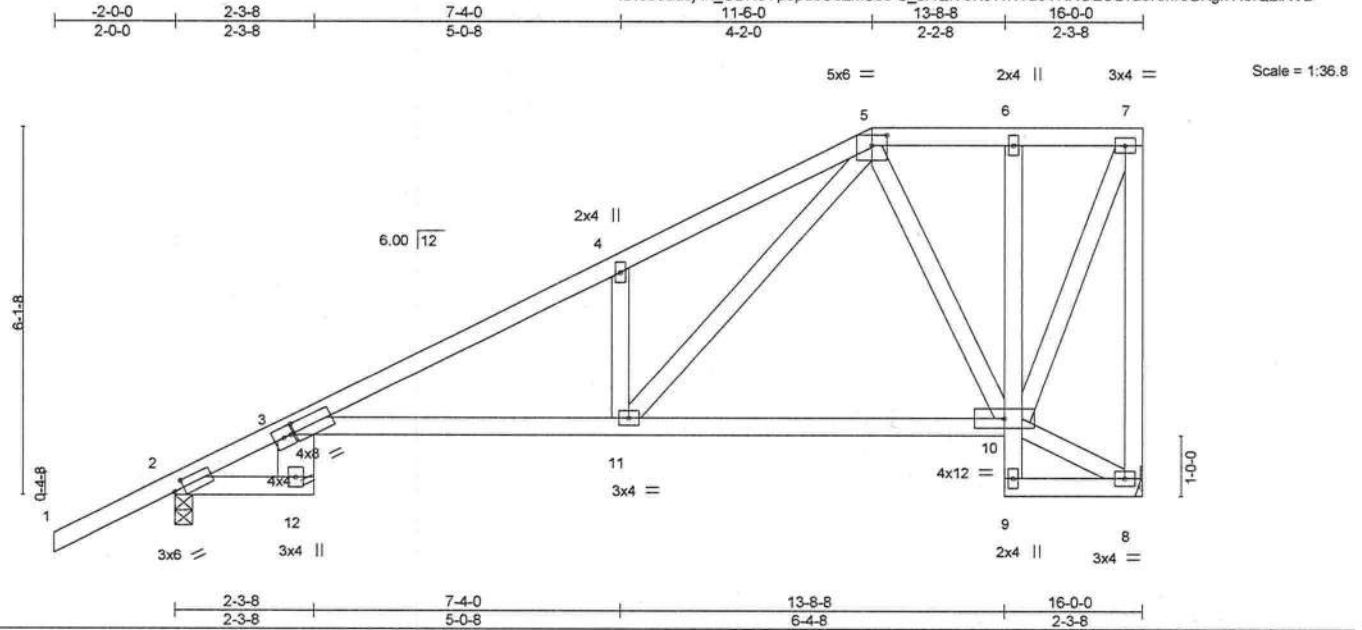


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [3:0-0-15,0-2-0], [5:0-3-0,0-2-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.33 3-11	>585	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.51 3-11	>371	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.26 8	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS						Weight: 103 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP M 31 \*Except\*  
5-7: 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
3-12: 2x8 SP 2400F 2.0E, 3-10: 2x4 SP M 31, 6-9: 2x4 SP No.3  
WEBS 2x4 SP No.3

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

**REACTIONS.** (lb/size) 8=580/Mechanical, 2=703/0-3-8  
Max Horz 2=222(LC 12)  
Max Uplift 8=141(LC 12), 2=150(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-14=-418/0, 3-4=-1103/527, 4-5=-1177/733, 7-8=-552/349  
BOT CHORD 3-11=-685/984, 10-11=-262/373  
WEBS 4-11=-431/424, 5-11=-647/934, 5-10=-361/299, 7-10=-338/545

#### 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) 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=141, 2=150.



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Date:

May 8,2019

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6904 Parke East Blvd.  
Tampa, FL 33610

Job 1755797	Truss T27	Truss Type Common	Qty 2	Ply 1	BLAKE CONST. - MARTINO RES.	T17005260
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Builders FirstSource, Jacksonville, FL - 32244,

8.220 s Nov 16 2018 MiTek Industries, Inc. Wed May 8 14:34:12 2019 Page 1  
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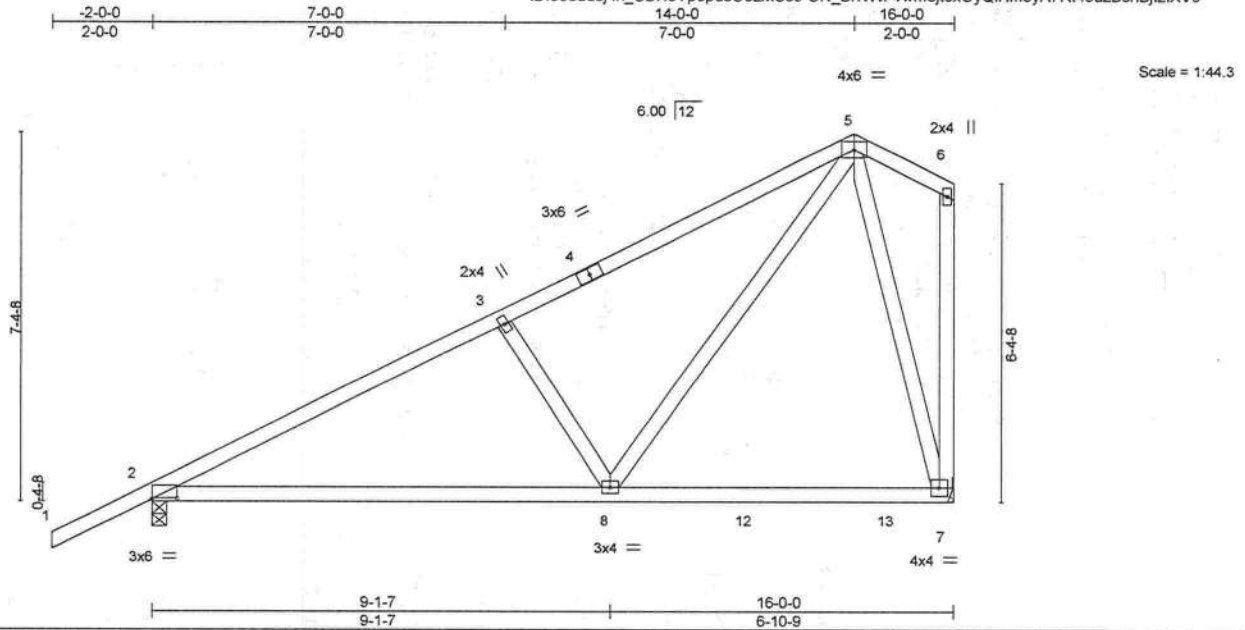


Plate Offsets (X,Y) - [2:0-6-0,0-0-3]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.54	Vert(LL)	-0.14	8-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	-0.30	8-11	>641	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS							
									Weight: 91 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-10-14 oc bracing.

#### REACTIONS.

(lb/size) 2=701/0-3-8, 7=580/Mechanical  
Max Horz 2=244(LC 12)  
Max Uplift 2=148(LC 12), 7=175(LC 12)  
Max Grav 2=701(LC 1), 7=581(LC 19)

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

TOP CHORD 2-3=829/339, 3-5=652/327  
BOT CHORD 2-8=535/701  
WEBS 3-8=387/413, 5-8=373/626, 5-7=544/416

#### 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) 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=148, 7=175.



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Date:

May 8,2019

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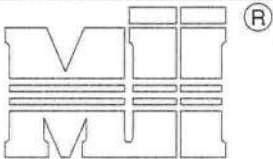
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AUGUST 1, 2016

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

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

ENGINEERED BY  
**TRENCO**  
A MiTek Affiliate

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 Continuous Rows of Lateral Bracing

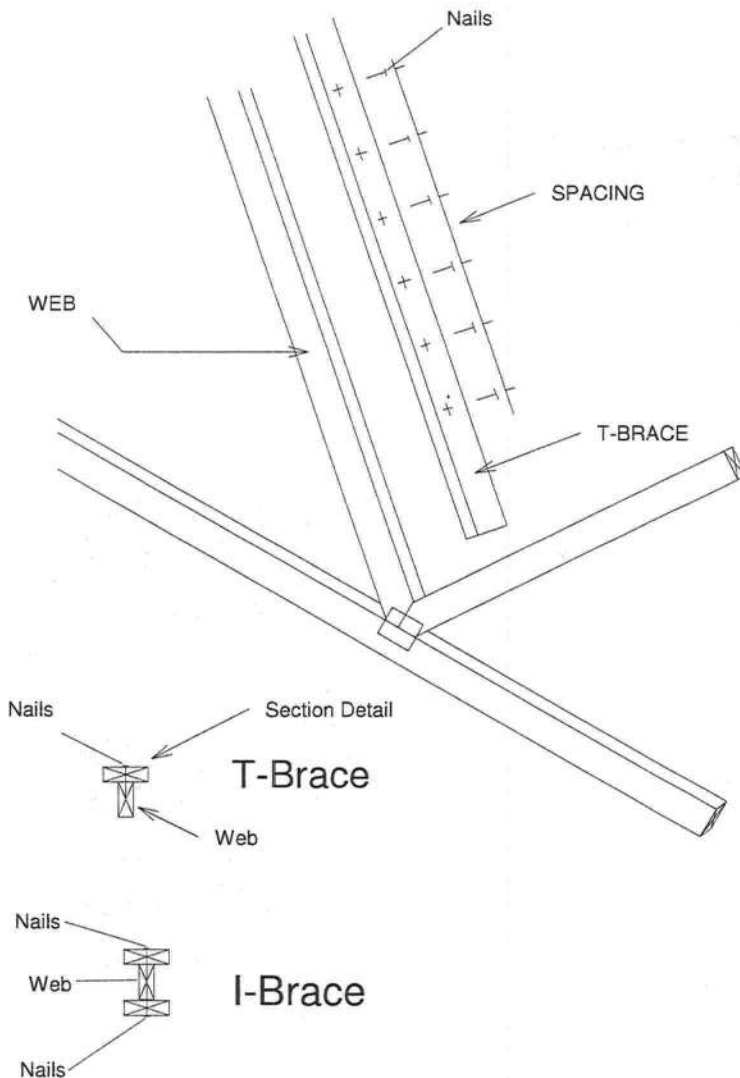
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

## Brace Size for Two-Ply Truss

### Specified Continuous Rows of Lateral Bracing

Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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



Thomas A. Albani PE No. 39380  
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Date:

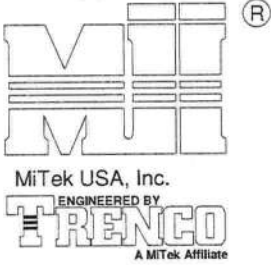
February 12, 2018

AUGUST 1, 2016

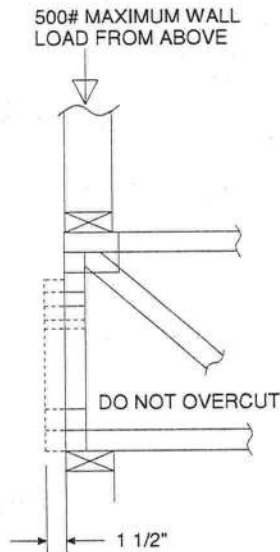
# STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

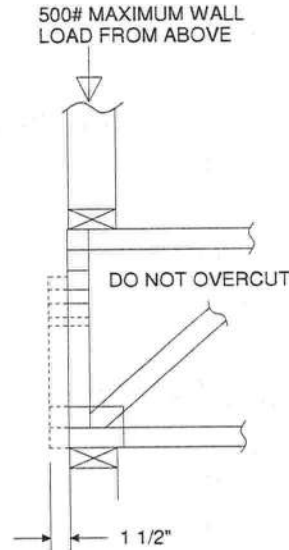
MiTek USA, Inc. Page 1 of 1



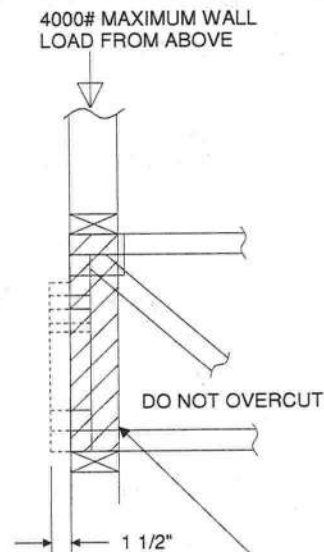
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS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



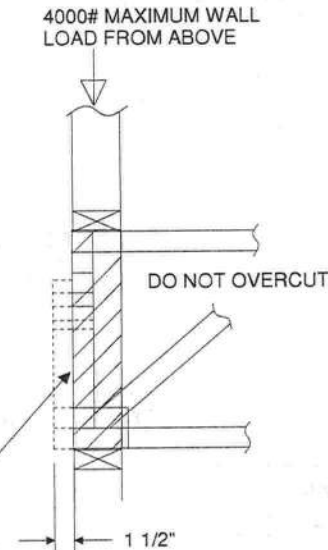
REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



TRUSSES BUILT WITH 4x2 MEMBERS



REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



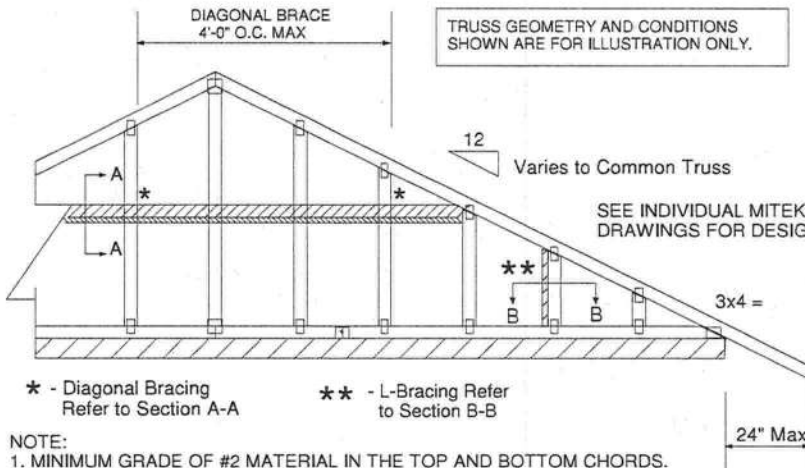
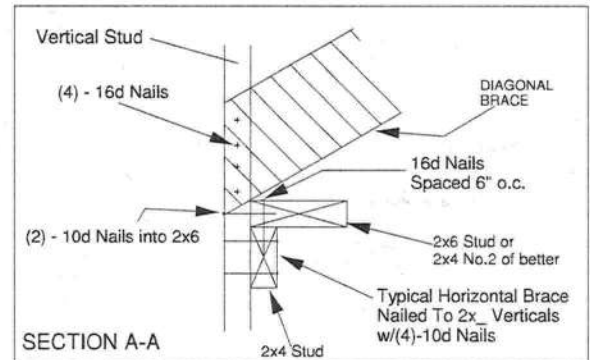
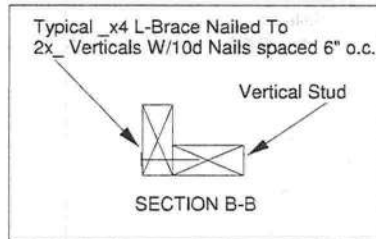
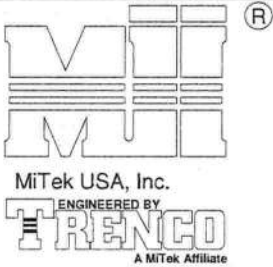
TRUSSES BUILT WITH 4x2 MEMBERS

ATTACH 2x4 SQUASH BLOCK (CUT TO FIT TIGHTLY) TO BOTH SIDES OF THE TRUSS AS SHOWN WITH 10d (0.131" X 3") NAILS SPACED 3" O.C.



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Date:

February 12, 2018



\* - Diagonal Bracing  
Refer to Section A-A

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

## NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 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

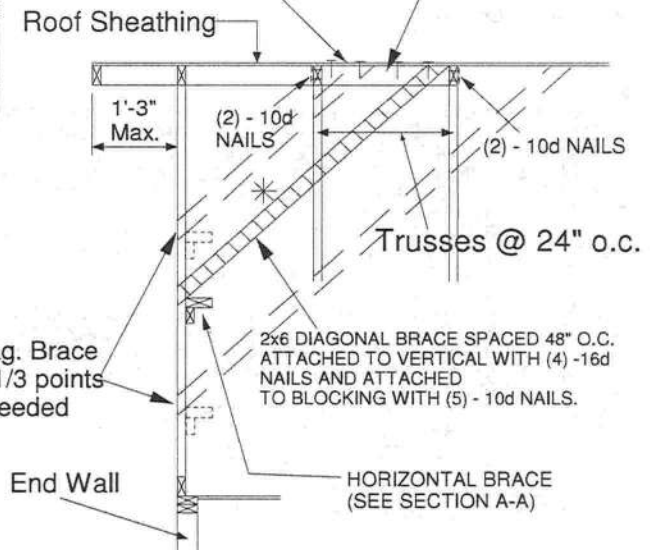
- \* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

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.

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.

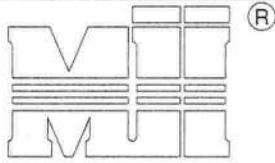
(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK



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Date:

February 12, 2018





MiTek USA, Inc.

ENGINEERED BY  
**TRENCO**  
A MiTek AffiliateTypical 2x4 L-Brace Nailed To  
2x4 Verticals W/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

TRUSS GEOMETRY AND CONDITIONS  
SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING  
DRAWINGS FOR DESIGN CRITERIA

3x4 =

24" Max

\* - Diagonal Bracing  
Refer to Section A-A\*\* - L-Bracing Refer  
to Section B-B

NOTE:

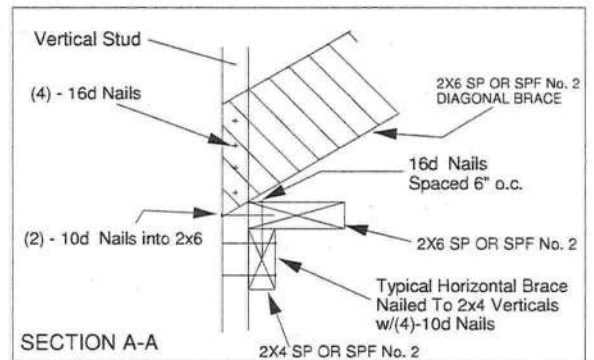
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 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 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. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		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.



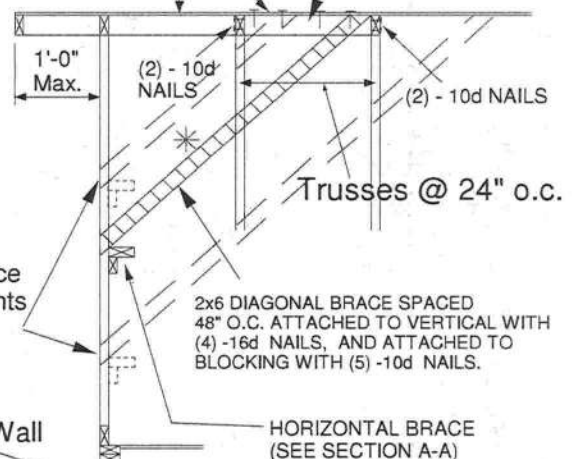
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

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

Roof Sheathing

Diag. Brace at 1/3 points if needed

End Wall



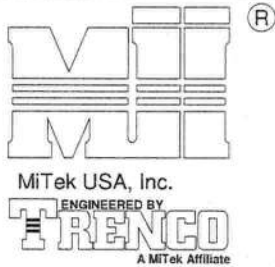
Thomas A. Albani PE No.39380  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 12, 2018

AUGUST 1, 2016

# STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-7-10

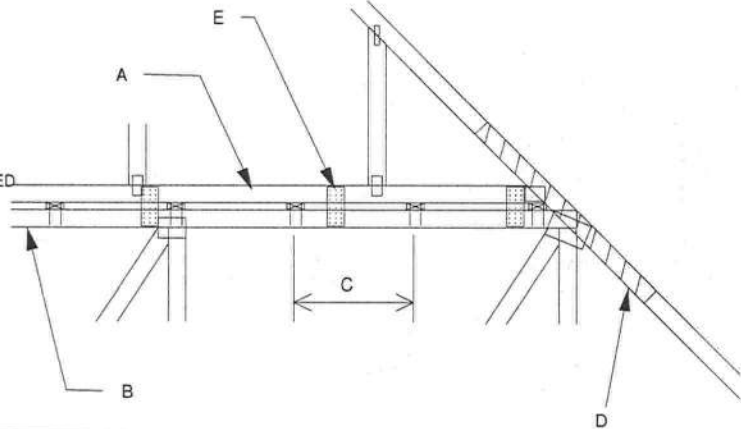


MiTek USA, Inc. Page 1 of 1

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 TRANSFERRING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

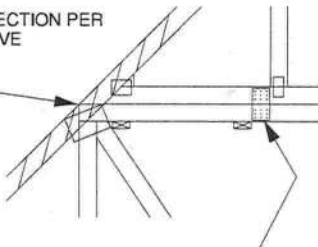
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X  $\frac{1}{2}$ " 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)



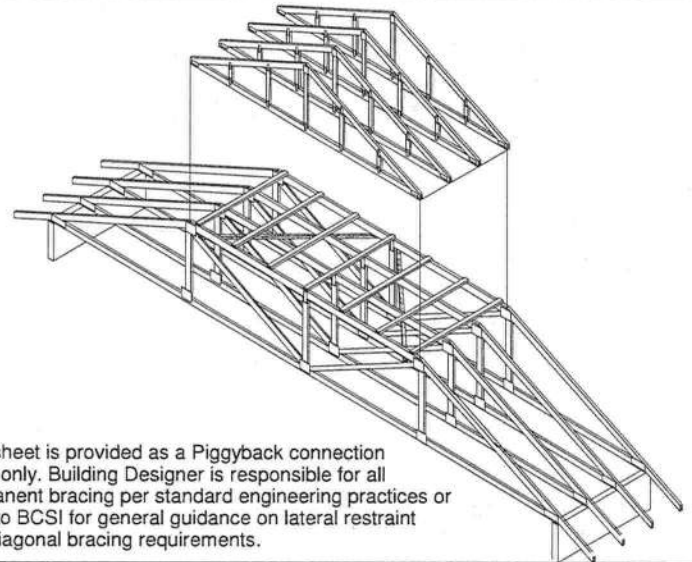
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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.

SCAB CONNECTION PER NOTE D ABOVE

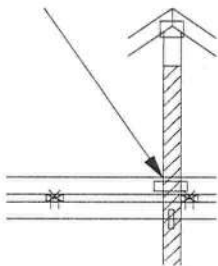


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



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

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



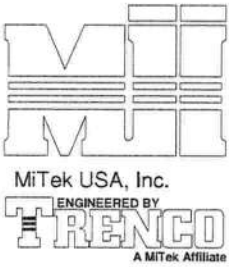
FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- 2) ATTACH 2 x  $\frac{1}{2}$ " 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)
- 3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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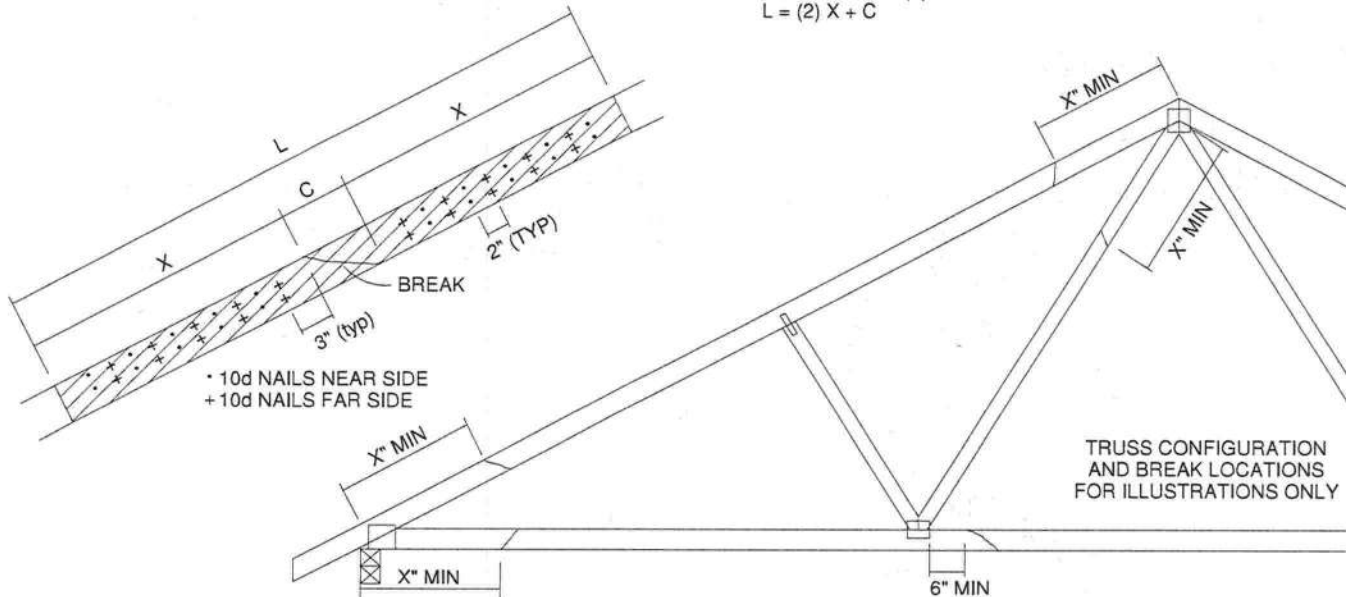
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
			2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187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

\* 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:

$$L = (2) X + C$$



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

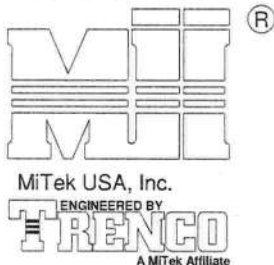
#### NOTES:

1. 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 UNDEGRADED. 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 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 UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x ORIENTATION ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



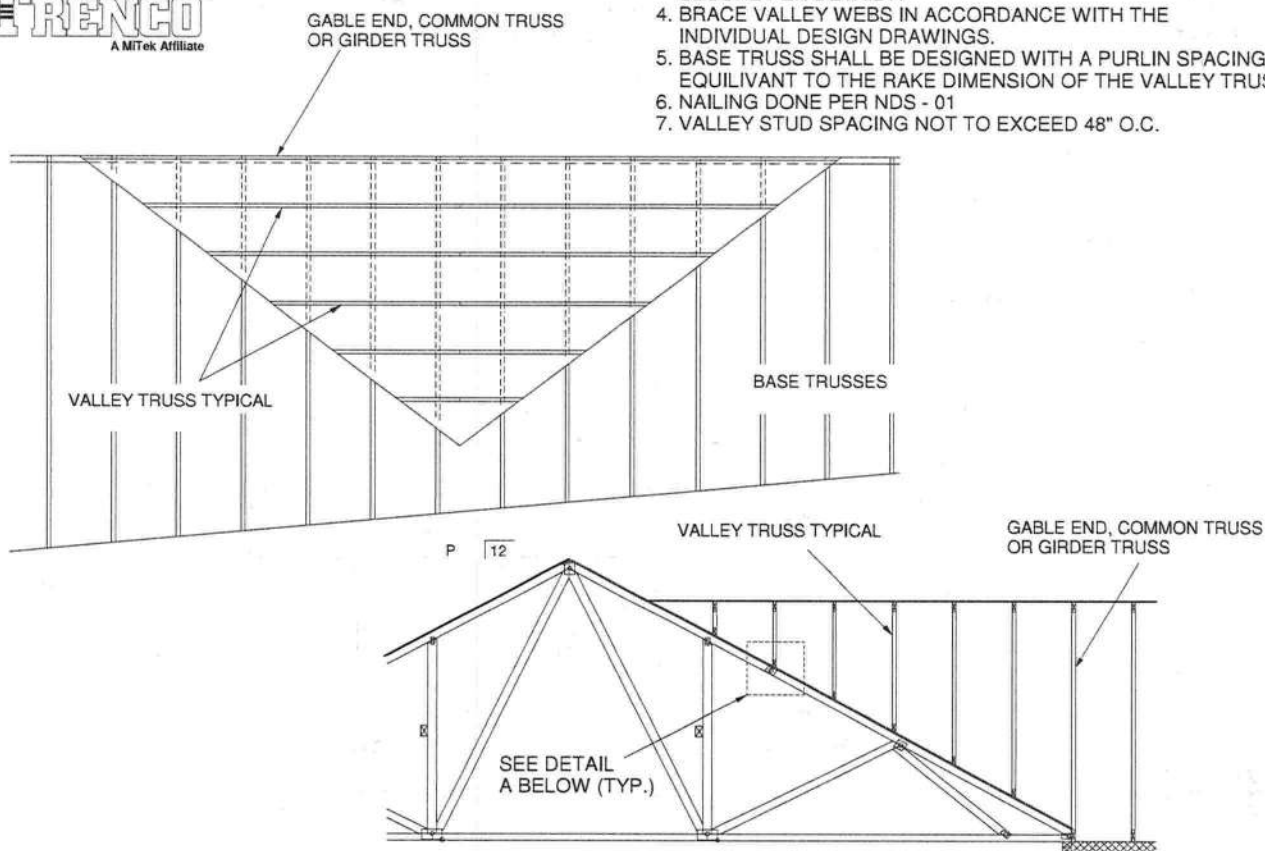
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January 19, 2018



## 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 EQUIVALENT 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.



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

ATTACH 2x4 CONTINUOUS NO.2 SP  
TO THE ROOF W/ TWO USP WS3 (1/4" X 3")  
WOOD SCREWS INTO EACH BASE TRUSS.

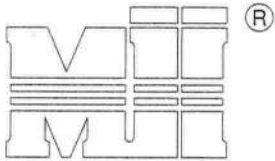
WIND DESIGN PER ASCE 7-98, ASCE 7-05 146 MPH  
WIND DESIGN PER ASCE 7-10 160 MPH  
MAX MEAN ROOF HEIGHT = 30 FEET  
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12  
CATEGORY II BUILDING  
EXPOSURE C  
WIND DURATION OF LOAD INCREASE : 1.60  
MAX TOP CHORD TOTAL LOAD = 50 PSF  
MAX SPACING = 24" O.C. (BASE AND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

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



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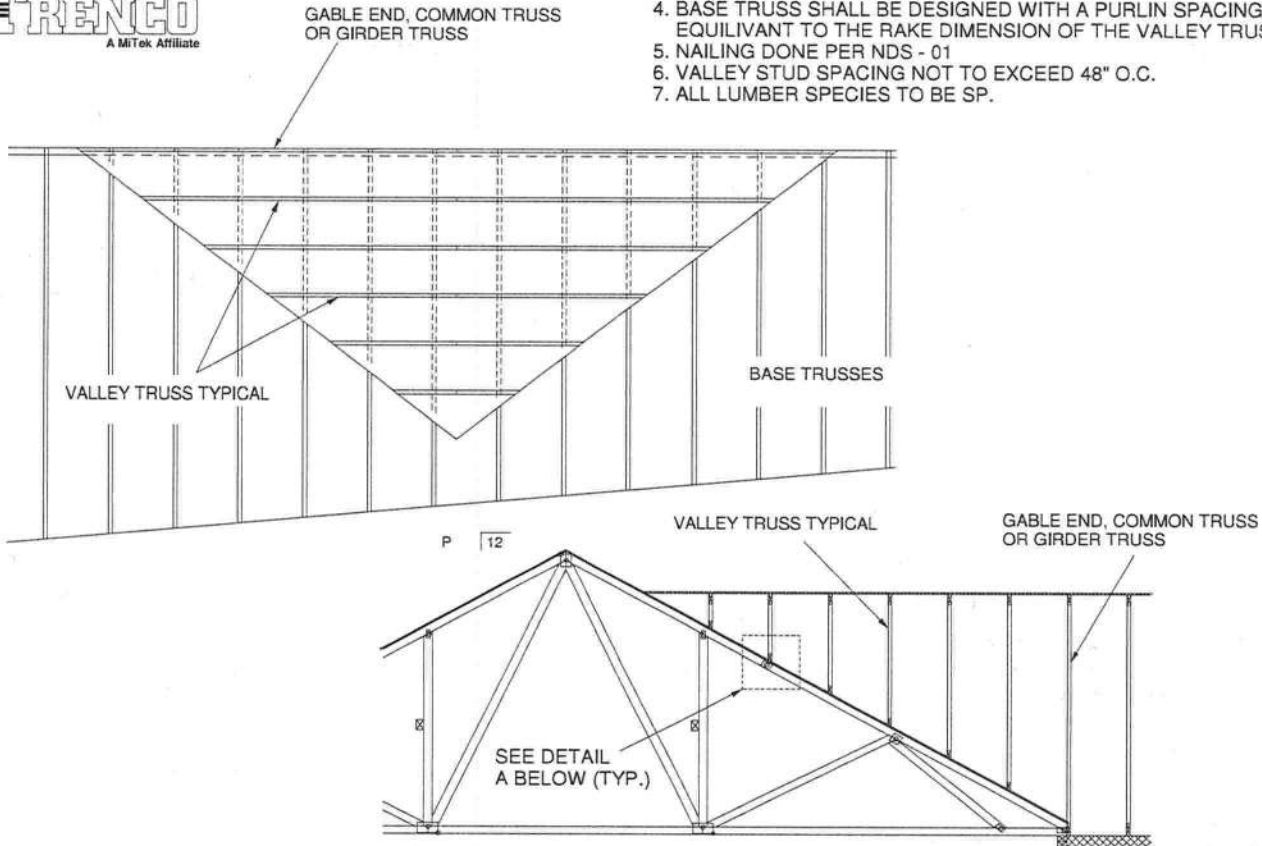


MiTek USA, Inc.

ENGINEERED BY  
**TRENCO**  
A MiTek Affiliate

## GENERAL SPECIFICATIONS

1. NAIL SIZE 16d (0.131" X 3.5")
2. 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 EQUIVARIANT 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.



SECURE VALLEY TRUSS  
W/ ONE ROW OF 16d  
NAILS 6" O.C.

ATTACH 2x4 CONTINUOUS NO.2 SP  
TO THE ROOF W/ TWO 16d NAILS  
INTO EACH BASE TRUSS.

DETAIL A  
(MAXIMUM 1" SHEATHING)  
N.T.S.

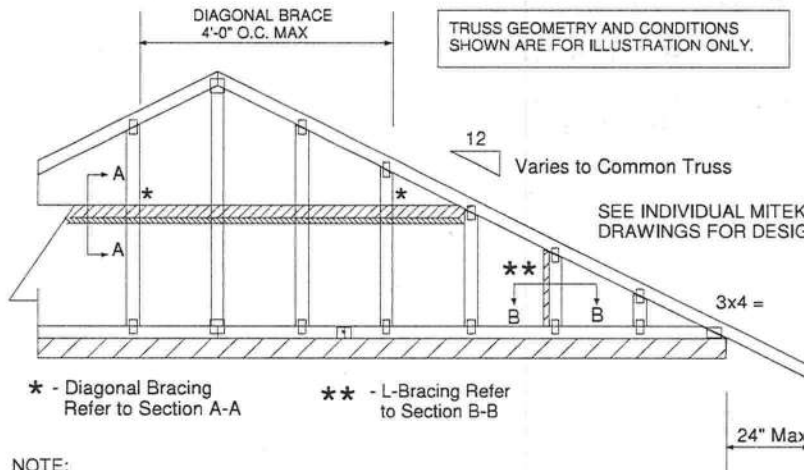
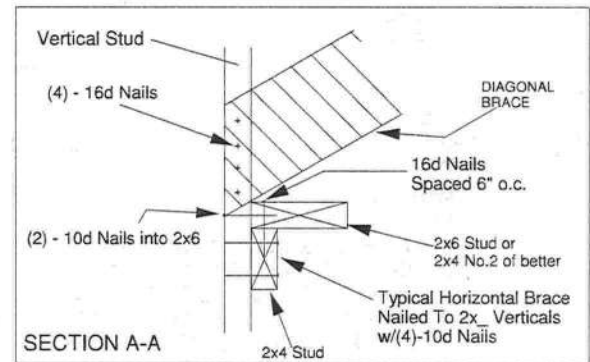
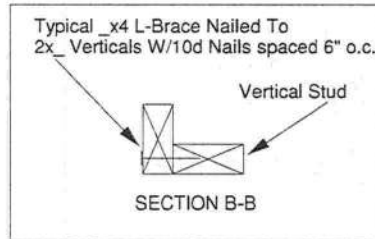
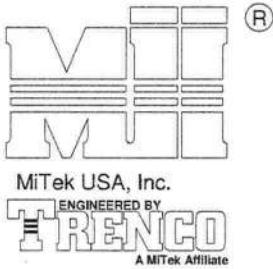
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH  
WIND DESIGN PER ASCE 7-10 150 MPH  
MAX MEAN ROOF HEIGHT = 30 FEET  
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12  
CATEGORY II BUILDING  
EXPOSURE C OR B  
WIND DURATION OF LOAD INCREASE : 1.60  
MAX TOP CHORD TOTAL LOAD = 60 PSF  
MAX SPACING = 24"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



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## NOTE:

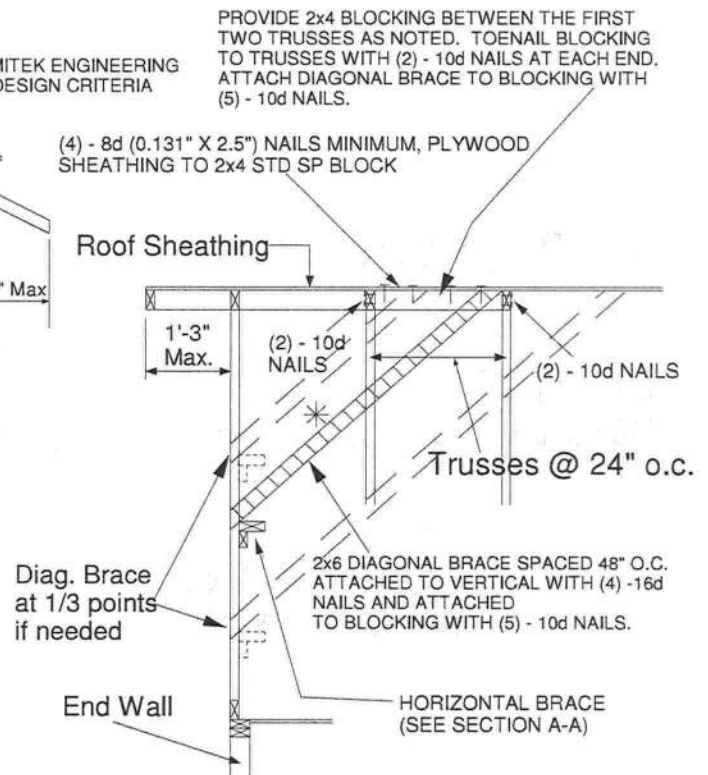
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF 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)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		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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