

RE: 2802418
SIMQUE - LOT 145 PLL

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

Site Information:

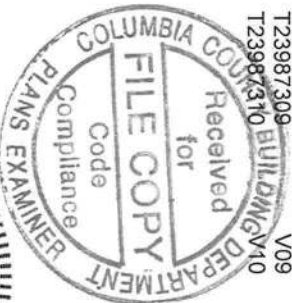
Customer: Aaron Simque Homes Project Name: 2802418
Lot/Block: 145 Model: 1995 Elev B
Address: TBD Subdivision: The Preserve at Laurel Lake
City: Columbia Cty State: FL

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

Design Code: FBC2020/TP12014 Design Program: MITek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

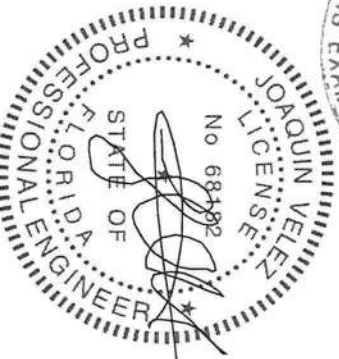
This package includes 35 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

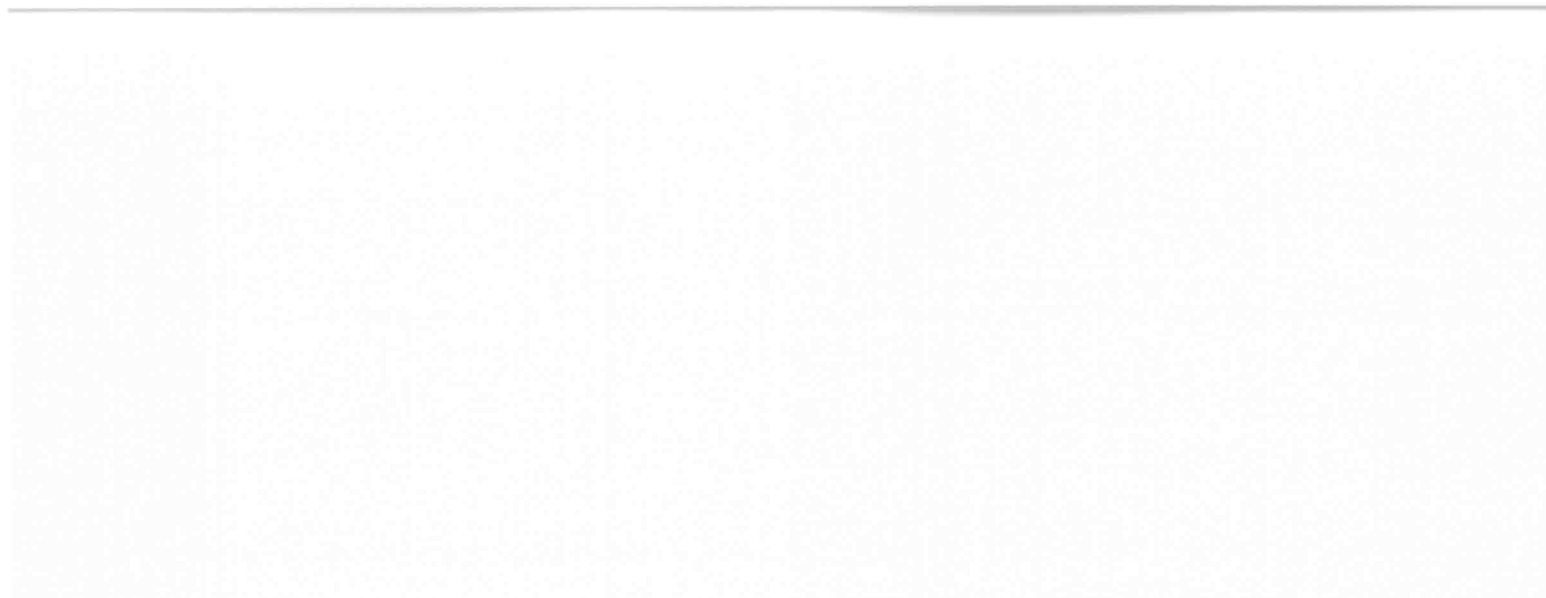
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T23987276	CJ01	5/19/2021	21	T23987296	T12	5/19/2021
2	T23987277	CJ03	5/19/2021	22	T23987297	T12G	5/19/2021
3	T23987278	CJ05	5/19/2021	23	T23987298	T13	5/19/2021
4	T23987279	EJ01	5/19/2021	24	T23987299	T14	5/19/2021
5	T23987280	EJ02	5/19/2021	25	T23987300	T14G	5/19/2021
6	T23987281	HJ10	5/19/2021	26	T23987301	V01	5/19/2021
7	T23987282	PB01	5/19/2021	27	T23987302	V02	5/19/2021
8	T23987283	PB02	5/19/2021	28	T23987303	V03	5/19/2021
9	T23987284	T01	5/19/2021	29	T23987304	V04	5/19/2021
10	T23987285	T02	5/19/2021	30	T23987305	V05	5/19/2021
11	T23987286	T03	5/19/2021	31	T23987306	V06	5/19/2021
12	T23987287	T04	5/19/2021	32	T23987307	V07	5/19/2021
13	T23987288	T05	5/19/2021	33	T23987308	V08	5/19/2021
14	T23987289	T06	5/19/2021	34	T23987309	V09	5/19/2021
15	T23987290	T07	5/19/2021	35	T23987310	BUILDINGV10	5/19/2021
16	T23987291	T08	5/19/2021				
17	T23987292	T09	5/19/2021				
18	T23987293	T10	5/19/2021				
19	T23987294	T11	5/19/2021				
20	T23987295	T11G	5/19/2021				

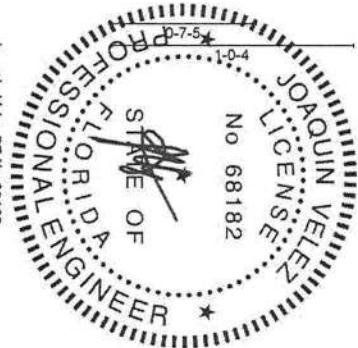
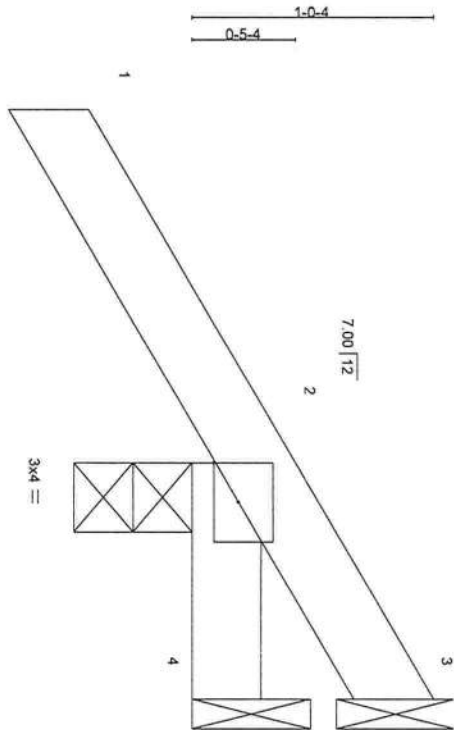


The truss drawing(s) referenced above have been prepared by
MITek USA, Inc. under my direct supervision
based on the parameters provided by Builders FirstSource-Jacksonville.
Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2023.
Florida COA: 6634

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







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

Plate Offsets (X, Y) - [2:Edge, 0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.23	Ver(L) 0.00	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.06	Ver(CT) 0.00		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		
BCDL 10.0	Code FBC2020(TP)2014	Matrix-MP			

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

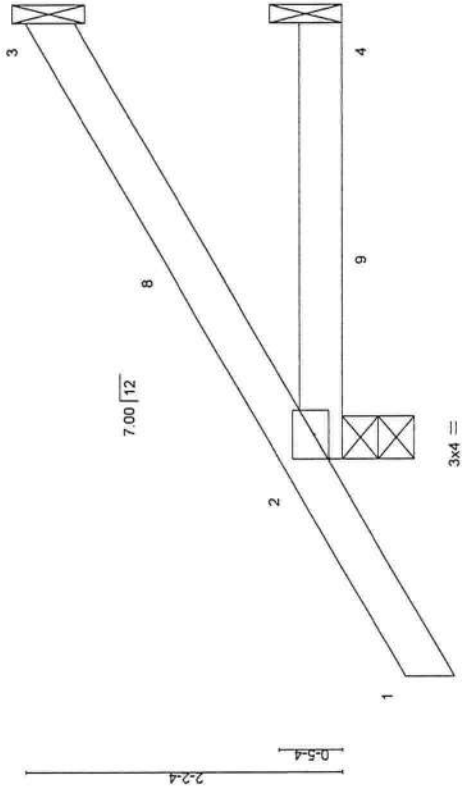
BRACING-					
TOP CHORD					
BOT CHORD					

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horiz 2=66(LC 12)
 Max Uplift 3=5(LC 1), 2=-108(LC 12), 4=-25(LC 19)
 Max Grav 3=8(LC 16), 2=179(LC 1), 4=27(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 (all by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 3, 108 lb uplift at joint 2 and 25 lb uplift at joint 4.



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Plate Offsets (X,Y)--- [2 Edge, 0.1-4]

LOADING (psf)		SPACING-		CSI.		DEFL.		in (loc)		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.21	Vert(LL)	0.01	4-7	>999	240		MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.01	4-7	>999	180					
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a					
BCDL	10.0	Code	FBC2020/TP/2014	Matrix-MP										Weight: 12 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=123(LC 12)
Max Uplift 3=63(LC 12), 2=92(LC 12), 4=27(LC 9)
Max Grav 3=67(LC 19), 2=210(LC 1), 4=51(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3, 92 lb uplift at joint 2 and 27 lb uplift at joint 4.

BRACING-

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

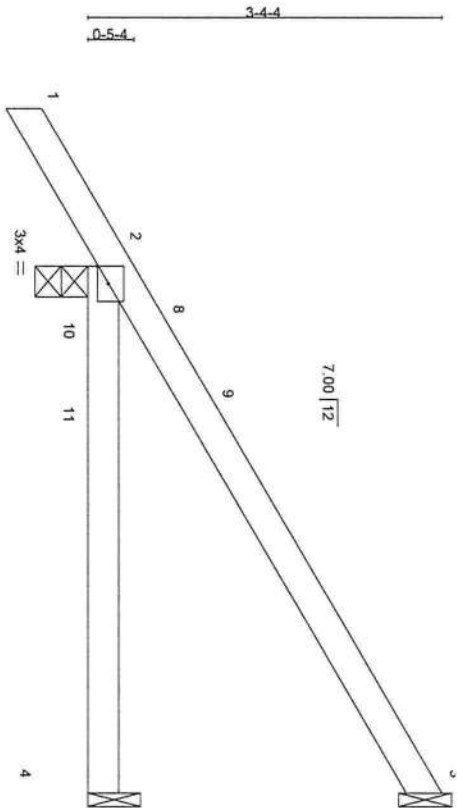


Plate Offsets (X,Y)-- [2:Edge 0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/D	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(L)	0.11	4-7	>564	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	0.09	4-7	>631		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code FBC2020/TP12014		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.

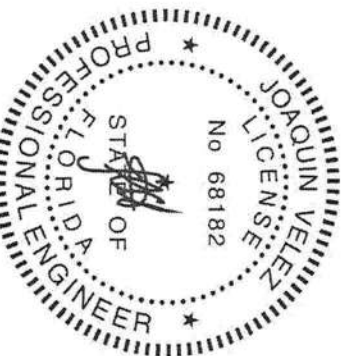
REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Uplift 3=-116(LC 12), 2=-103(LC 12), 4=-48(LC 9)
Max Grav 3=125(LC 19), 2=276(LC 1), 4=89(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch left and right exposed; C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 3, 103 lb uplift at joint 2 and 48 lb uplift at joint 4.



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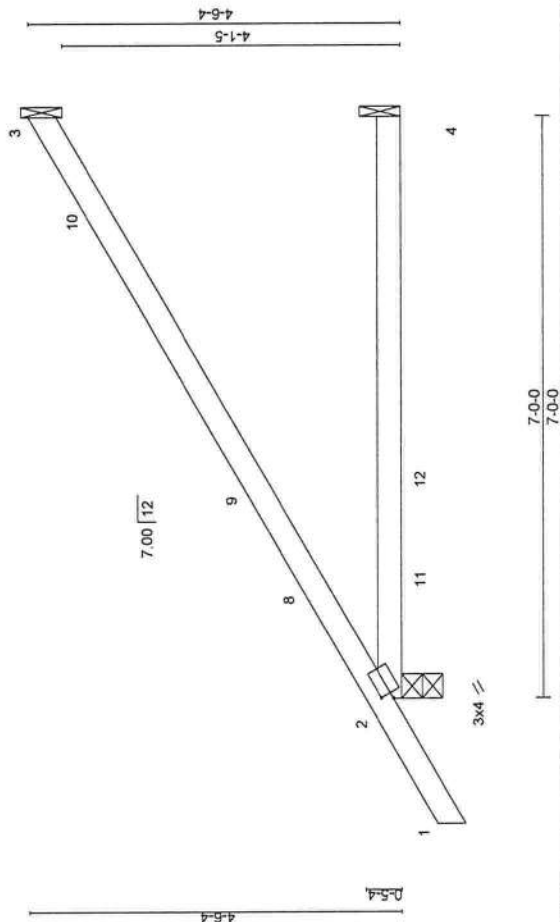


Plate Offsets (X,Y) - [2'-0"-15'-0"-1'-8"]									
LOADING (psf)		SPACING		CSL		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	2'-0"-0"	TC	0.85	Vert(LL)	0.32	MT20	244/190
TCDL	7.0	Lumber DOL	1'-25"	BC	0.38	Vert(CT)	0.28		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS					
LUMBER- (size) 3=Mechanical, 2=0-3-8, 4=Mechanical									
TOP CHORD 2x4 SP No.2									
BOT CHORD 2x4 SP M 31									
REACTIONS. Max Horz 2=230(LC 12)									
Max Uplift 3=-147(LC 12), 2=-123(LC 12), 4=-72(LC 9)									
Max Grav 3=176(LC 19), 2=346(LC 1), 4=131(LC 3)									
BRACING- (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.									
TOP CHORD Structural wood sheathing directly applied or 2'-2'-0" oc purlins.									
BOT CHORD Rigid ceiling directly applied or 10'-0'-0" oc bracing.									
Weight: 25 lb FT = 20%									

- NOTES-**
- 1) Wind: ASCE 7-16: Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 3, 123 lb uplift at joint 2 and 72 lb uplift at joint 4.



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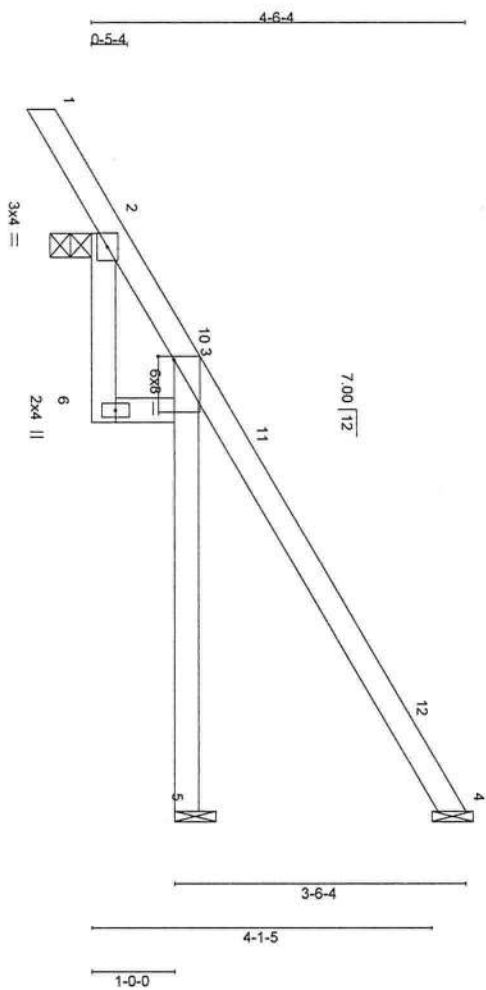


Plate Offsets (X,Y)-- [3.0-0.8, 0.2-5]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	PLATES	GRIP
TCLL	Plate Grip DOL	1.25	TC	Vert(L)	MT20	244/190
TCDL	Lumber DOL	1.25	BC	Vert(CT)		
BCLL	Rep Stress Incr	YES	WB	Horz(CT)		
BCDL	Code FBC2020/PI2014		Matix-MR		Weight: 27 lb	FT = 20%

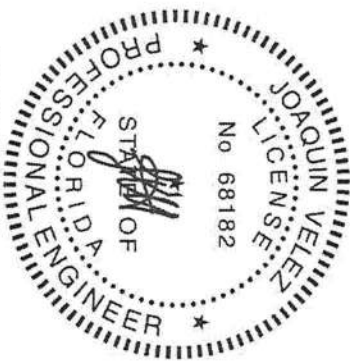
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 3-6: 2x4 SP No.3

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.

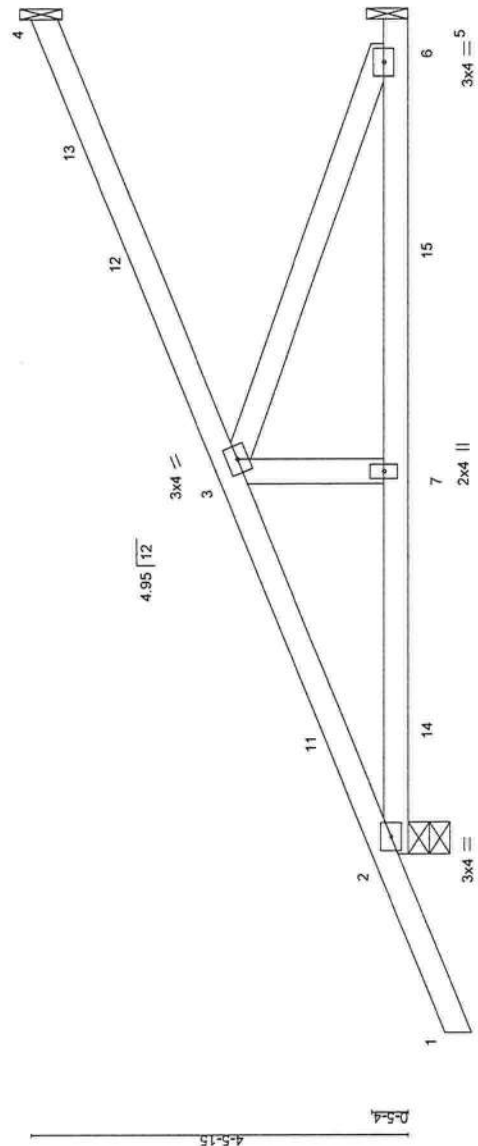
REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horiz 2=230(LC 12)
 Max Uplift 4=-130(LC 12), 2=-121(LC 12), 5=-29(LC 12)
 Max Grav 4=175(LC 19), 2=351(LC 1), 5=123(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vastd=101mph; TCDD=4.2psf; BCDD=3.0psf; h=20ft; Cat. II; Exp. C; Encl. GCPI=0.18; MMFRS (envelope) gable end zone and C-C Exterior(ZE) -1-6-0 to 1-6-0, Interior(I) 1-6-0 to 6-11-4 zone; C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 4, 121 lb uplift at joint 2 and 29 lb uplift at joint 5.



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 6904 Parke East Blvd. Tampa FL 33610
 Date:



4-5-15	4-6-0	4-6-0	9-9-5	9-10-1
			5-3-5	0-0-12

LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCCL 20.0	Plate Grip DOL 1.25	TC 0.59	Vert(LL)	0.11	6-7	>999	MT20	244/190
TCCL 7.0	Lumber DOL 1.25	BC 0.60	Vert(CT)	-0.12	6-7	>999		
BCCL 0.0	Rep Stress Incr NO	WB 0.39	Horz(CT)	-0.01	5	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						

Weight: 44 lb FT = 20%

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-12 oc bracing.

LUMBER-

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

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=230(LC 8)
Max Uplift 4=-136(LC 8), 2=-422(LC 4), 5=-287(LC 5)
Max Grav 4=150(LC 1), 2=526(LC 1), 5=298(LC 1)

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

TOP CHORD 2-3=-735/546
BOT CHORD 2-7=-618/607, 6-7=-618/607
WEBS 3-7=-147/280, 3-8=-652/664

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Endl., GCpl=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 4, 422 lb uplift at joint 2 and 287 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 76 lb up at 1-6-1, 86 lb down and 76 lb up at 1-6-1, 105 lb down and 63 lb up at 4-4-0, 105 lb down and 63 lb up at 4-4-0, and 136 lb down and 124 lb up at 7-1-15, and 136 lb down and 124 lb up at 7-1-15 on top chord, and 60 lb down and 54 lb up at 1-6-1, 60 lb down and 54 lb up at 1-6-1, 20 lb down and 35 lb up at 4-4-0, 20 lb down and 35 lb up at 4-4-0, and 42 lb down and 63 lb up at 7-1-15, and 42 lb down and 63 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

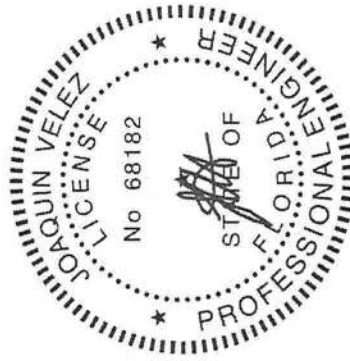
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

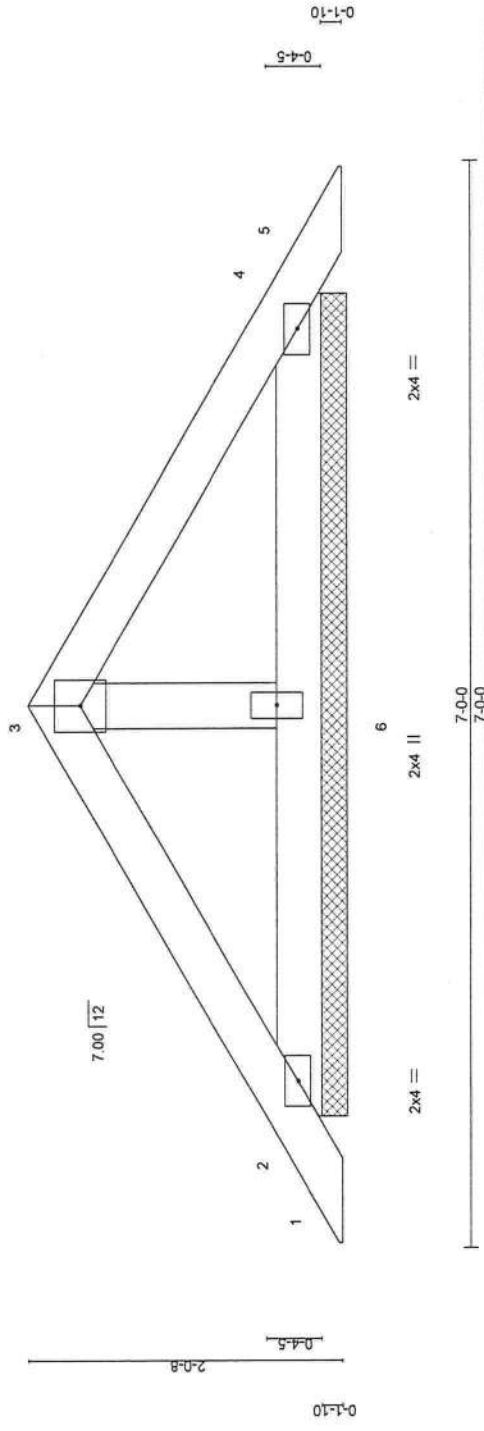
Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-41/F=-.2 R=-.2 1-2=-74/F=-.37 R=-.37 1-5=-57/F=-.29 R=-.29



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LOADING (psf)	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TPI2014	CSI, TC 0.15 BC 0.07 WB 0.03 Matrix-P	DEFL. in (loc)	l/defl	PLATES MT20	GRIP 244/190
TCLL 20.0	2-0-0 Plate Grip DOL 1.25	TC 0.15	0.00	5		
TCDL 7.0	Lumber DOL 1.25	BC 0.07	0.00	5		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	0.00	4		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P				

Weight: 22 lb FT = 20%

LUMBER-

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

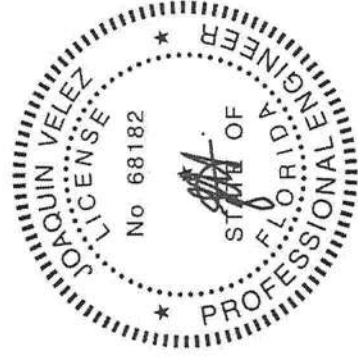
REACTIONS.

(size) 2=5-3-11, 4=5-3-11, 6=5-3-11
Max Horiz 2=-59(LC 10)
Max Uplift 2=-74(LC 12), 4=-82(LC 13), 6=-82(LC 14)
Max Grav 2=134(LC 1), 4=134(LC 20), 6=134(LC 21)

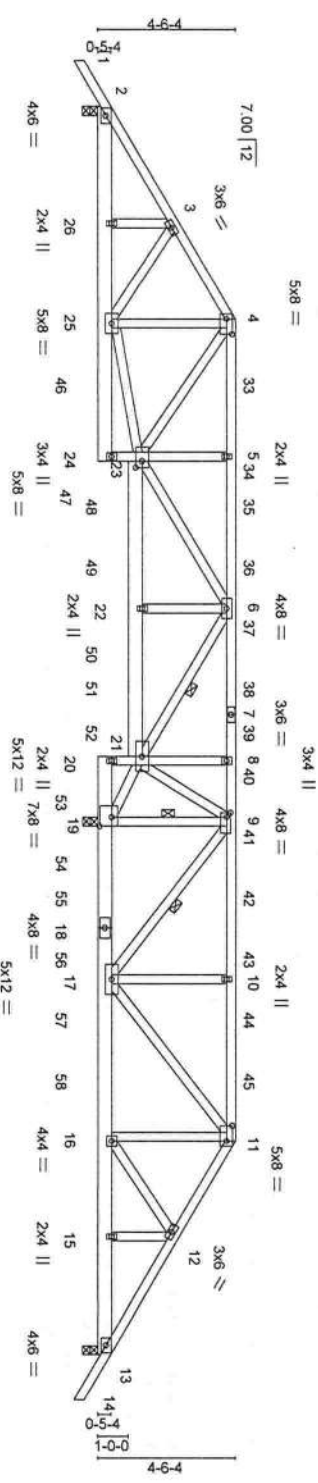
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCo=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6.0 tall by 2-0.0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

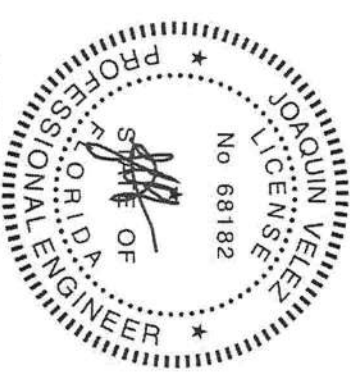
LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.78	Ver(1L) 0.17	MT20	244/190
TCCL 7.0	Lumber DOL	1.25	BC 0.51	Ver(CT) -0.20		
BCLL 0.0	Rep Stress Incr	NO	WB 0.91	22-23 >999		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS	19 n/a	Weight: 276 lb	FT = 20%

LUMBER-	2x4 SP No. 2	BRACING-	TOP CHORD	Structural wood sheathing directly applied or 3-4-7 oc purlins.
TOP CHORD	2x6 SP No. 2 *Except*	TOP CHORD	BOT CHORD	Rigid ceiling directly applied or 4-11-6 oc bracing.
BOT CHORD	5-24-8-20: 2x4 SP No. 3	WEBS	WEBS	1 Row at midpt
WEBS	2x4 SP No. 3			6-21, 9-19, 9-17

REACTIONS. (size) 2=0-3-8, 19=0-3-8 (req. 0-5-1), 13=0-3-8
 Max Horiz 2=-159(LC 25)
 Max Uplift 2=-933(LC 8), 19=3206(LC 5), 13=603(LC 9)
 Max Grav 2=1356(LC 19), 19=4316(LC 1), 13=773(LC 20)

FORCES. (lb) - Max Comp Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2194/1560, 3-4=-2041/1559, 4-5=-2314/1724, 5-6=-2331/1731, 6-8=-924/1259, 8-9=-958/1307, 9-10=0/320, 10-11=900/924, 12-13=-1085/971
 BOT CHORD 2-26=-1344/1855, 25-26=-1344/1855, 5-23=-523/452, 22-23=-766/1299, 21-22=-766/1299, 8-21=-384/326, 17-19=-1976/1453, 16-17=-709/767, 15-16=-777/898, 13-15=-777/898
 WEBS 3-25=-308/231, 4-25=-243/390, 23-25=-1124/1552, 4-23=-457/742, 6-23=-1048/1290, 6-22=-66/471, 6-21=-293/22017, 19-21=-2054/1538, 9-21=-800/1257, 9-19=-293/72202, 9-17=-1920/2394, 10-17=-618/545, 11-17=-1082/798, 11-16=-526/678, 12-16=-254/217

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft. Cat. II; Exp C; Encl., GCPI=0.18; MMWFRS (envelope) gable end zone; porch right exposed. Lumber DOL=1.60 Plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) WARNING: Required bearing size at joint(s) 19 greater than input bearing size.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 2=933, 19=3206, 13=603.



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down and 130 lb up at 19-0-12, 158 lb down and 120 lb up at 20-6-0, 150 lb down and 147 lb up at 21-11-4, 150 lb down and 147 lb up at 23-11-4, 150 lb down and 147 lb up at 25-11-4, 150 lb down and 147 lb up at 27-11-4, 150 lb down and 147 lb up at 29-11-4, and 150 lb down and 147 lb up at 31-11-4, and 226 lb down and 294 lb up at 34-0-0 on top chord, and 338 lb down and 409 lb up at 7-0-0, 91 lb down and 92 lb up at 9-0-12, 91 lb down and 92 lb up at 11-0-12, 83 lb down and 49 lb up at 13-0-12, 83 lb down and 49 lb up at 15-0-12, 83 lb down and 49 lb up at 17-0-12, 83 lb down and 49 lb up at 19-0-12, 83 lb down and 49 lb up at 20-6-0, 91 lb down and 92 lb up at 21-11-4, 91 lb down and 92 lb up at 23-11-4, 91 lb down and 92 lb up at 25-11-4, 91 lb down and 92 lb up at 27-11-4, 91 lb down and 92 lb up at 29-11-4, and 91 lb down and 92 lb up at 31-11-4, and 338 lb down and 409 lb up at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-11=-54, 11-14=-54, 24-27=-20, 21-23=-20, 20-30=-20

Concentrated Loads (lb)

Vert: 4=-105(F) 11=-179(F) 25=-338(F) 16=-338(F) 33=-105(F) 34=-105(F) 35=-100(F) 36=-100(F) 37=-100(F) 38=-100(F) 39=-100(F) 40=-105(F) 41=-105(F) 42=-105(F) 43=-105(F) 44=-105(F) 45=-105(F) 46=-69(F) 47=-69(F) 48=-76(F) 49=-76(F) 50=-76(F) 51=-76(F) 52=-76(F) 53=-69(F) 54=-69(F) 55=-69(F) 56=-69(F) 57=-69(F) 58=-69(F)

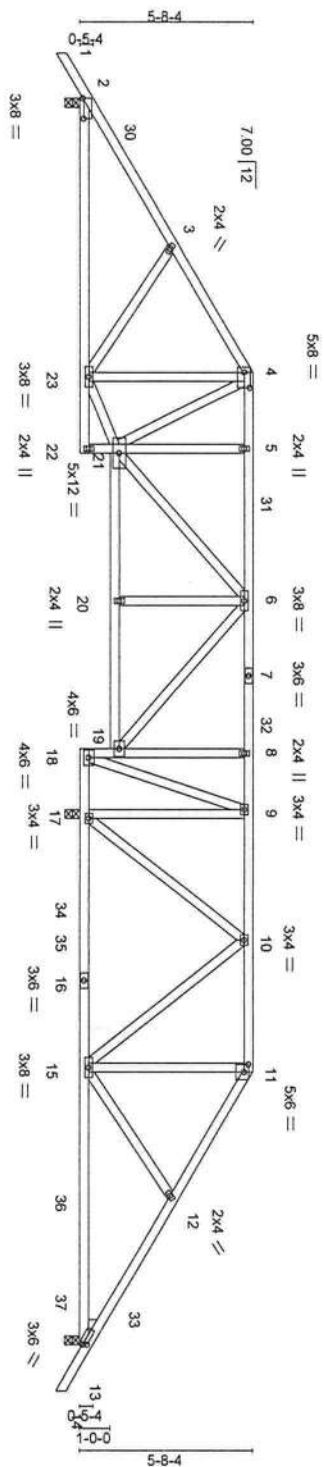


Plate Offsets (X,Y) --	9-0-0	11-8-0	16-6-4	21-4-8	23-6-4	32-0-0	41-0-0
	9-0-0	2-8-0	4-10-4	4-10-4	2-1-12	8-5-12	9-0-0

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.41	in (loc) 0.28	MT20	244/190
TCCL 7.0	Lumber DOL 1.25	BC 0.70	15-29 >741		
BCLL 0.0	Rep Stress Incr YES	WB 0.89	0.24 15-29 >864		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	17 n/a	Weight: 247 lb	FT = 20%

LUMBER-	2x4 SP No.2	BRACING-	Structural wood sheathing directly applied or 5-0-12 oc purlins.
TOP CHORD	2x4 SP No.2 *Except*	TOP CHORD	Rigid ceiling directly applied or 5-4-15 oc bracing.
BOT CHORD	5-22-8-18: 2x4 SP No.3	BOT CHORD	

WEBS	2x4 SP No.3
WEDGE	
Right: 2x4 SP No.3	

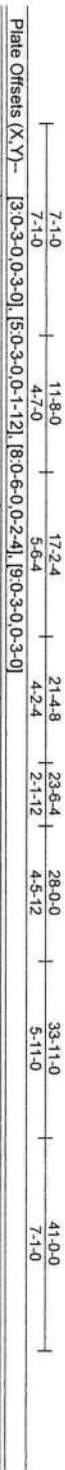
REACTIONS.	(size) 2=0-3-8, 17=0-3-8, 13=0-3-8
	Max Horiz 2=196(LC 10)
	Max Uplift 2=423(LC 12), 17=901(LC 9), 13=369(LC 13)
	Max Grav 2=880(LC 25), 17=1926(LC 2), 13=616(LC 26)

FORCES.	(lb) - Max. Comp/Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1169/590, 3-4=-974/497, 4-5=-940/560, 5-6=-949/566, 6-8=-71/283, 8-9=-74/286, 9-10=-194/547, 10-11=-362/692, 11-12=-477/750, 12-13=673/849
BOT CHORD	2-23=-522/1041, 20-21=-272/636, 19-20=-272/636, 18-19=-935/420, 17-18=-479/217, 13-15=-698/566
WEBS	3-23=-335/257, 21-23=-300/886, 4-21=-201/329, 6-21=-180/430, 6-19=-1065/455, 9-18=-412/873, 9-17=-969/465, 10-17=-803/587, 10-15=-470/543, 11-15=-277/116, 12-15=-312/270

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vast=101mph; TCCL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl. GCp=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 32-0-0, Exterior(2R) 32-0-0 to 36-2-6, Interior(1) 36-2-6 to 42-6-0 zone, porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a 10.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 2=4-23, 17=901, 13=369.



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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-10 oc purlins.
BOT CHORD	2x4 SP No.2 *Except* 4-20,7-16; 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 6-17, 8-15, 7-15

Max Uplift 2=-419(LC 12), 15=-544(LC 12), 10=-390(LC 13)
Max Grav 2=929(LC 19), 15=1968(LC 2), 10=752(LC 20)

BOT CHORD 2-21=489/1120, 18-19=235/632, 17-18=162/401, 7-17=266/755, 12-14=266/641, 10-13=266/637

19-21=484/1153, 3-19=392/236, 5-19=353/195, 5-18=524/192, 6-18=124/659,
6-17=882/361, 8-15=843/257, 8-14=168/580, 9-14=700/374, 9-12=0/292,
7-15=1067/505

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16, Vult=130mph (3-second gust) Vase=101mph; TCDF=.4, 2psf; BCDF=.3, 0psf; Cat. II; Exp C; Encl. GCP10-18; MMWFRS (envelope) gable end zone and C-C Exterior(2E) 1.6-0 to 1.6-0, Interior(1) 1.6-0 to 13.0-0, Exterior(2R) 13.0-0 to 17.2-4, Interior(1) 17.2-4 to 28.0-0, Exterior(2R) 28.0-0 to 32.2-15, Interior(1) 32.2-15 to 42.6-0 zone; C-C for members and forces
- 3) MMWFRS for reactions shown; Lumber DOL = .60 plate grip DOL = .60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 5'-6" tall by 2'-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 (j)=(lb) 2'-4"19, 15'-5"44, 10'-3"90.

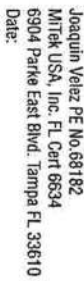


Plate Offsets (X,Y)–	[6.0-6.0,0-2-4], [9.0-3.0,0-1-12], [12.0-3.0,0-3-0], [13.0-2.5,0-1-8]									
LOADING (psf)										
TCLL	20.0									
TCDL	7.0									
BCLL	0.0 *									
BCDL	10.0									
SPACING-	2-0-0									
Plate Grip DOL	1.25									
Lumber DOL	1.25									
Rep Stress Incr	YES									
Code	FBC2020/TP12014									
CSL										
TC	0.48									
BC	0.55									
WB	0.72									
Matrix-MS										
DEFL.										
in (loc)										
l/defl										
L/d										
VERT(LL)	>999									
Vert(CT)	-0.14									
Horz(CT)	-0.05									
PLATES	MT20									
GRIP	244/190									
Weight:	297 lb									
FT = 20%										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-5.9 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 4-7.5 oc bracing. Except:
	5-23.7-19.25-26.28-29; 2x4 SP No.3		1 Row at midpt 7-20
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 6-20, 8-18, 9-18

REACTIONS.

(size)	2=0-3-8, '18=0-3-8, '13=0-3-8
Max Horiz	2=-307(LC 10)
Max Uplift	2=-398(LC 12), '18=-586(LC 12), '13=-332(LC 13)
Max Grav	2=849(LC 19), '18=2221(LC 2), '13=565(LC 20)

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

TOP CHORD

2-3=-1118/512, 3-5=-768/460, 5-6=-427/376, 6-7=0/462, 7-8=0/470, 8-9=-14/688,
9-10=-134/518, 10-11=-124/461, 11-12=-406/406, 12-13=-1106/664

BOT CHORD

2-24=-515/1084, 5-22=-174/479, 21-22=-339/683, 20-21=-249/387, 19-20=-1187/495,
7-20=-334/270, 18-19=-639/303, 17-18=-520/269, 16-17=-220/280, 15-16=-482/959,
13-15=-478/955

WEBS

22-24=-512/1012, 3-22=-443/240, 5-21=-662/376, 6-21=-281/821, 6-20=-1073/362,
8-19=-459/1110, 8-18=-1130/452, 9-18=-786/235, 9-17=-307/643, 11-17=-635/354,
11-16=-580/480, 12-16=-675/342

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16: Vu1=130mph (3-second gust) Vasd=101mph; TCADL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; End., GCpf=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1.6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 42-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Bearing at joint(s) 13 considers parallel to grain value using ANSII/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=398, 18=586, 13=332.



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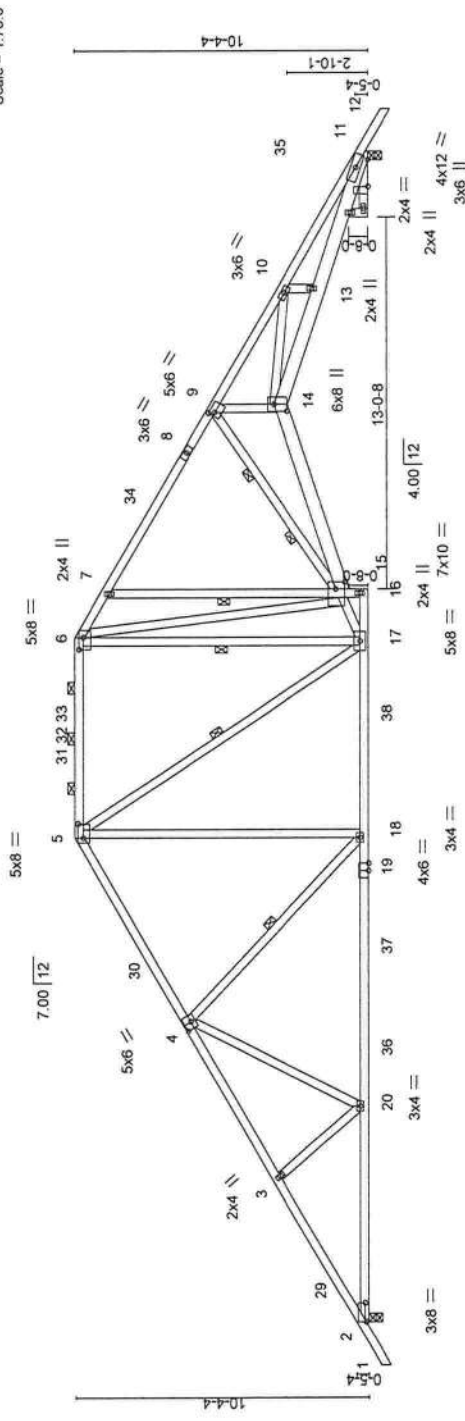


Plate Offsets (X,Y)=	7-7-4	17-0-0	24-0-0	25-8-0	32-2-4	36-3-0	38-8-8	41-0-0
	7-7-4	9-4-12	7-0-0	1-8-0	6-6-4	4-0-12	2-5-8	2-3-8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.82	Vert(LL)	-0.47 14-15	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.97	Vert(CT)	-0.81 14-15	>609		
BCLL 0.0 *	Rep Stress Incl YES	WB 0.97	Horz(CT)	0.45 26	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					
						Weight: 281 lb	FT = 20%

Weight: 281 lb FT = 20%

Structural wood sheathing directly applied or 2-1/7 oc purlins, except 2-0 oc purlins (3-0-12 max.); 5-6.
Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
1 Row at midpt 7-15
2 Rows at midpt 4-18, 5-17, 6-17
2 Rows at 1/3 pts 9-15

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	
BOT CHORD	2x4 SP M 31 *Except*	BOT CHORD	
	7-16,11-21: 2x4 SP No.3, 14-15: 2x6 SP No.2, 11-14: 2x6 SP M 26		
WEBS	2x4 SP No.3 *Except*	WEBS	
	9-14: 2x4 SP No.2		

REACTIONS.

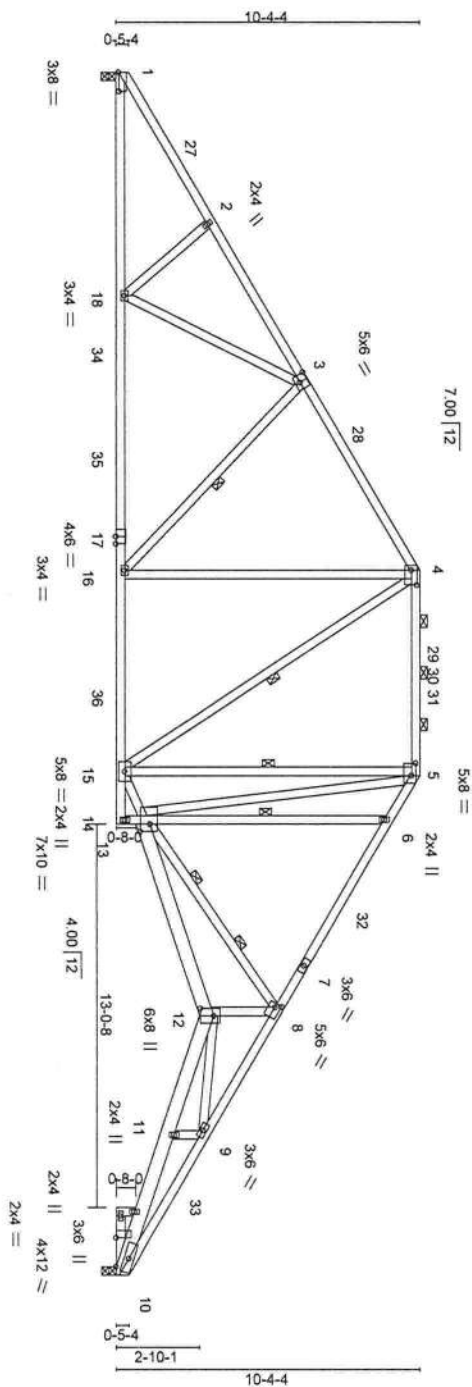
(size) 2=0-3-8, 11=0-3-8, 11=0-3-8
 Max Horz 2=344(LC 10)
 Max Uplift 2=640(LC 12), 11=640(LC 12)
 Max Grav 2=1791(LC 19), 11=1764(LC 19)

FORCES. (lb) - Max. Comp. Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3--2886/969, 3-4--2768/975, 4-5--2067/1764, 5-6--1695/738, 6-7--2267/967,
7-8--2573/287, 9-10--2573/175, 10-11--5740/1849
BOT CHORD
2-20--960/2669, 18-20--750/2272, 17-18--439/1756, 7-15--327/280, 14-15--1301/5011,
13-14--1554/5223, 11-13--1533/5141
WEBS
4-20--143/582, 4-18--328/432, 5-18--248/3876, 6-15--331/1803,
6-15--178/5773, 9-15--781/1126, 9-14--877/3455

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph, TCDF=4.2psf, BCDL=3.0psf; h=20ft; Cat. II; Exp C; End., GCip=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1.6-0 to 1-6-0, Interior(1) 1-6-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 42-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 11, 11 considers parallel to grain value using ANSII/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j1=1b) 2=640, 11=640, 11=640.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.82	Ver(1L) -0.47	MT20	244/190
TCCL 7.0	Lumber DOL 1.25	BC 0.98	Ver(1L) -0.81		
BCLL 0.0	Rep Stress Incr YES	WB 1.00	Ver(1L) 12-13		
BCDL 10.0	Code FBC2020(TP)2014	Matrix-MS	Horz(CT) 0.46	Weight: 276 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No. 2	TOP CHORD Structural wood sheathing directly applied or 2-1-6 oc purlins, except
BOT CHORD 2x4 SP M 31 Except*	2-0-0 oc purlins (3-0-7 max.) 4-5.
WEBS 6-14, 10-19: 2x4 SP No. 3, 12-13: 2x6 SP No. 2, 10-12: 2x6 SP M 26	Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
2x4 SP No. 3 Except*	1 Row at midpt 6-13
8-12: 2x4 SP No. 2	2 Rows at 1/3 pts 8-13

REACTIONS. (size) 1=0-3-8, 10=0-3-8, 10=0-3-8
 Max Horiz 1=316(LC 8)
 Max Uplift 1=588(LC 12), 10=588(LC 13)
 Max Grav 1=1713(LC 19), 10=1685(LC 20), 10=1517(LC 1)

FORCES. (lb) - Max. Comp/Max. Ten. - All forces 250 (lb) or less except when shown.
 1-2=-2915/1004, 2-3=-2783/989, 3-4=-2072/768, 4-5=-1700/741, 5-6=-2274/976,
 6-8=-2338/836, 8-9=-5777/1829, 9-10=-5788/1941
 1-18=-994/2674, 16-18=-775/2267, 15-16=-461/1746, 6-13=-327/281, 12-13=-1403/5031,
 11-12=-1678/5267, 10-11=-1660/5188
 3-18=-153/595, 3-16=-734/437, 4-16=-245/878, 5-15=-580/225, 13-15=-353/1808,
 5-13=-601/1583, 8-13=-3446/1189, 8-12=-946/3473

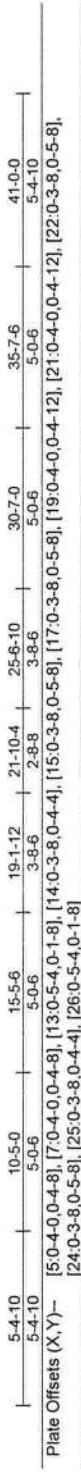
BOT CHORD
 1-18=-994/2674, 16-18=-775/2267, 15-16=-461/1746, 6-13=-327/281, 12-13=-1403/5031,
 11-12=-1678/5267, 10-11=-1660/5188

WEBS
 3-18=-153/595, 3-16=-734/437, 4-16=-245/878, 5-15=-580/225, 13-15=-353/1808,
 5-13=-601/1583, 8-13=-3446/1189, 8-12=-946/3473

- NOTES.**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vast=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GC=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0.0-0 to 3-0-0, Interior(1) 3-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 41-0-0 zone-C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Bearing at joint(s) 10, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=588, 10=588, 10=588.
 - 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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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.22	Vert(LL)	0.10 22-24	>999	MT20	244/190
TDOL 7.0	Lumber DOL	1.25	WB 0.29	Vert(CT)	-0.15 22-24	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.96	Horz(CT)	0.02 13	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					
							Weight: 990 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt
	2-26, 10-13: 2x6 SP No.2		2-26, 10-13, 5-21, 6-19

REACTIONS.

(size)	26=0-3-8, 13=0-3-8, 19=(0-3-8 + bearing block) (req. 0-5-5)
Max Uplift	26=-2213(LC 4), 13=-1474(LC 5), 19=-4354(LC 5)
Max Grav	26=4891(LC 30), 13=3297(LC 2), 19=8954(LC 29)

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

TOP CHORD

2-26=4257/2001, 2-3=2307/1041, 3-4=3187/1429, 4-5=2541/1109, 5-6=1145/437,
7-8=788/409, 8-9=1662/734, 9-10=1431/637, 10-13=2708/1267

BOT CHORD

24-25=1041/2307, 22-24=1429/3187, 21-22=1107/2538, 19-21=194/570,
17-19=408/786, 15-17=734/1662, 14-15=637/1431

WEBS

2-25=2156/4784, 3-25=2135/1106, 3-24=825/1872, 4-24=564/778, 4-22=1378/682,
5-22=1300/3075, 5-21=3869/1863, 6-21=1741/3938, 6-19=4091/1958,
7-19=2254/1189, 7-17=885/1970, 8-17=1907/870, 8-15=577/1579, 9-15=266/490,
9-14=597/397, 10-14=1313/2958

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9.0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9.0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 19 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16

2x8 total fasteners per block. Bearing is assumed to be SP No.2.

4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vast=101mph; TCDF=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

6) Provide adequate drainage to prevent water ponding.

7) All plates are 7x8 MT20 unless otherwise indicated.

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

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. With BCDL = 10.0psf



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315 lb up at 20-1-4, 424 lb down and 256 lb up at 22-1-4, 424 lb down and 256 lb up at 24-1-4, 422 lb down and 256 lb up at 26-1-4, 684 lb down and 309 lb up at 28-1-4, 695 lb down and 309 lb up at 30-1-4, 690 lb down and 309 lb up at 32-1-4, 687 lb down and 309 lb up at 34-1-4, and 698 lb down and 309 lb up at 36-1-4, and 684 lb down and 309 lb up at 38-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=14, 2-3=54, 3-28=204(F=150), 10-28=54, 10-11=14, 12-27=20

Concentrated Loads (lb)

Vert: 29=600(B) 31=600(B) 32=600(B) 33=600(B) 34=600(B) 35=600(B) 36=600(B) 37=600(B) 38=600(B) 39=600(B) 40=600(B) 41=302(B) 42=302(B) 43=302(B) 44=585(B) 45=585(B) 46=585(B) 47=585(B) 48=585(B) 50=585(B)

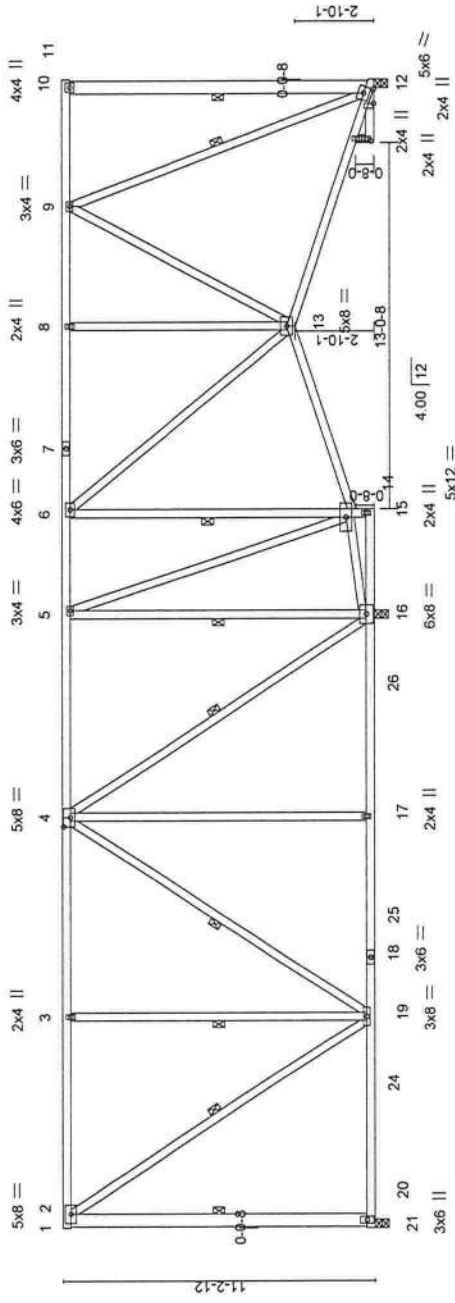


Plate Offsets (X,Y) -- [4.0-4.0,0.3-0.0], [12.0-0.0,0.6-6.1], [22.0-2.1,0.1-0.0]

7-6-4	14-8-4	21-10-4	25-8-0	32-2-4	38-8-8	41-0-0
7-6-4	7-2-0	7-2-0	3-9-12	6-6-4	6-6-4	2-3-8

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50	Vert(LL)	-0.19	12-13	240	MT20	244/190
TCOL 7.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.39	12-13	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	-0.04	12	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						

Weight: 374 lb FT = 20%

LUMBER-	2x4 SP No.2	BRACING-	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
TOP CHORD	2x4 SP No.2 *Except*	TOP CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
BOT CHORD	6-15,12-22: 2x4 SP No.3	BOT CHORD	1 Row at midpt
WEBS	2x4 SP No.3 *Except*	WEBS	2-20, 10-12, 2-19, 3-19, 4-19, 4-16, 5-16, 9-12

REACTIONS.	(size)	20=0-3-8, 12=0-3-8, 16=0-3-8
	Max Horz	20=509(LC 10)
	Max Uplift	20=462(LC 8), 12=307(LC 9), 16=915(LC 9)
	Max Grav	20=852(LC 2), 12=619(LC 2), 16=1950(LC 2)

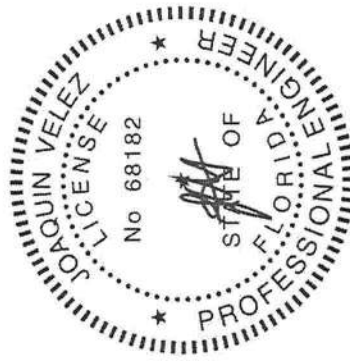
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-20=-677/615, 2-3=-371/322, 3-4=-371/322, 6-8=-325/338, 8-9=-325/338

BOT CHORD 19-20=-504/526, 17-19=-408/423, 16-17=-408/423, 6-14=-577/495, 13-14=-255/237, 12-13=-302/328

WEBS 2-19=-536/627, 3-19=-403/423, 4-19=-257/268, 4-17=0/418, 4-16=-931/680, 5-16=-905/702, 14-16=-297/375, 5-14=-433/689, 6-13=-295/448, 8-13=-322/338, 9-13=-214/300, 9-12=-485/472

- NOTES-
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf, h=20ft, Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-0-0, Exterior(2) 4-0-0 to 37-0-0, Corner(3) 37-0-0 to 41-0-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) Bearing at joint(s) 12 considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 20=462, 12=307, 16=915.



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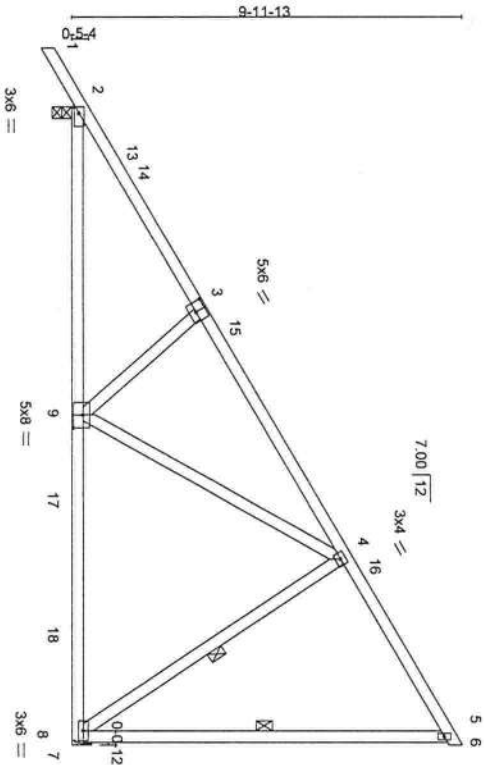


Plate Offsets (X,Y) - [3-0-3-0,0-3-0], [9-0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.53	Vert(L) -0.22	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.84	Vert(CT) -0.33		
BCLL 0.0	Rep Stress Incr	NO	WB 0.25	Horz(CT) 0.01		
BCDL 10.0	Code FBC2020/PI2014		Matrix-MS			
					Weight: 98 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 8=Mechanical
Max Horiz 2=420(LC 12)
Max Uplift 2=248(LC 12), 8=295(LC 12)
Max Grav 2=942(LC 19), 8=850(LC 19)

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

TOP CHORD 2-3=-1143/177, 3-4=-884/130
BOT CHORD 2-9=-444/1017, 8-9=-168/402
WEBS 3-9=-396/287, 4-9=-199/758, 4-8=-708/304

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp. C; Encl. GCPI=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 16-4-6 zone; C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 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 (if=lb) 2=249, 8=295.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 157 lb down and 72 lb up at 2-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (pl)
- Vert. 1-5=-54, 5-6=-14, 7-10=20
- Concentrated Loads (lb)
- Vert. 14=-150



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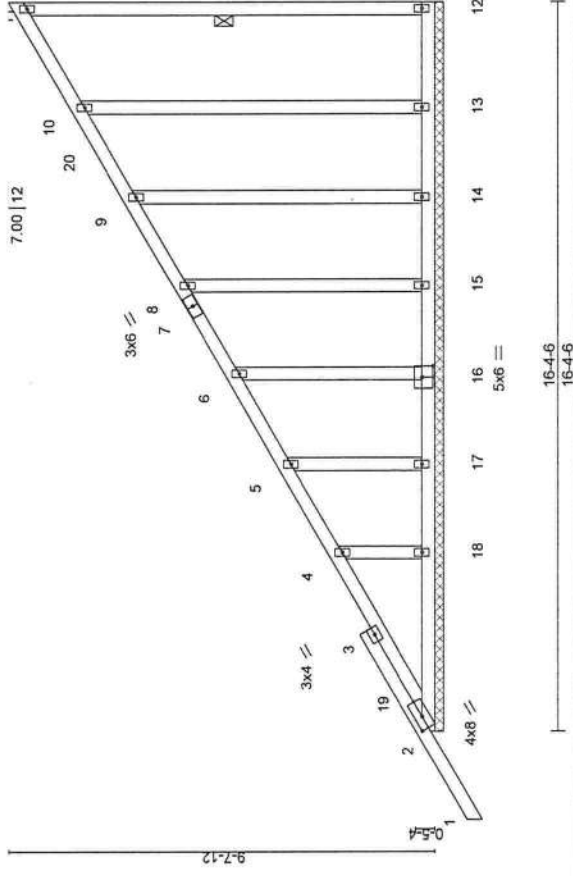


Plate Offsets (X,Y) - [2.0-3.7, 0.1-15], [16.0-3.0, 0.3-0]																	
LOADING (psf)		SPACING-		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	0.01	1	n/r	1	n/r	120	MT20	244/190	Weight: 116 lb FT = 20%		
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.01	1	n/r	1	n/r	120					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	16	n/a	n/a	n/a						
BCDL	10.0	Code	FBC2020/TP12014	Matrix-S													

DEFL.		in (loc)		l/defl		L/d	
Vert(LL)	0.01	1	n/r	1	n/r	120	120
Vert(CT)	0.01	1	n/r	1	n/r	120	120
Horz(CT)	0.00	16	n/a	16	n/a	n/a	n/a
CSL							
TC 0.36							
BC 0.10							
WB 0.18							
Matrix-S							
SPACING-							
2-0-0							
Plate Grip DOL							
1.25							
Lumber DOL							
1.25							
Rep Stress Incr							
YES							
Code							
FBC2020/TP12014							
LUMBER-							
2x4 SP No.2							
2x4 SP No.2							
2x4 SP No.3							
2x4 SP No.3							
REACTIONS.							
All bearings 16-4-6.							
(lb) - Max Horz 2=504(LC 12)							
Max Uplift All uplift 100 lb or less at joint(s) 12 except 18=116(LC 12), 17=103(LC 12), 16=106(LC 12), 15=105(LC 12), 14=101(LC 12), 13=120(LC 12)							
Max Grav All reactions 250 lb or less at joint(s) 12, 17, 16, 15, 14, 13 except 2=266(LC 1), 18=257(LC 19)							
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.							
TOP CHORD 2-4=-559/285, 4-5=-461/215, 5-6=-387/184, 6-8=-306/142							

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) 2-0-0 to 1-0-0. Exterior(2N) 1-0-0 to 16-2-10 zone; C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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) 12 except (j=lb) 18=116, 17=103, 16=106, 15=105, 14=101, 13=120.



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Date:

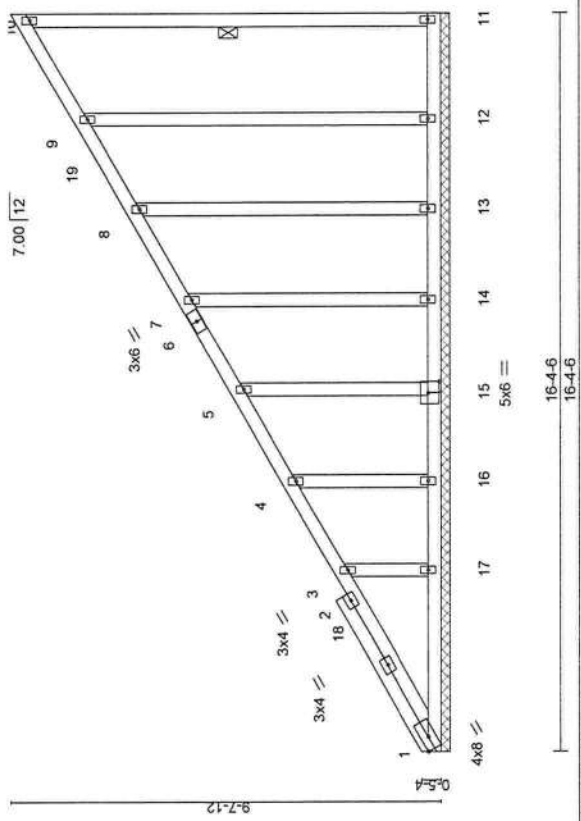


Plate Offsets (X,Y)–		[1:Edge 0-1-15], [15:0-3-0-0-3-0]									
LOADING (psf)	SPACING-	2-0-0		CSI,	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25		TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25		BC 0.11	Vert(CT)	n/a	-	n/a			
BCLL 0.0 *	Rep Stress Incr	YES		WB 0.18	Horz(CT)	0.00	15	n/a			
BCDL 10.0	Code FBC2020/TPI2014			Matrix-S					Weight: 114 lb	FT = 20%	

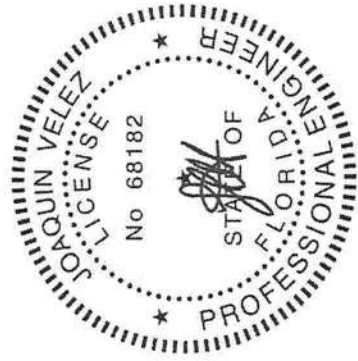
LUMBER-		Weight: 114 lb FT = 20%									
TOP CHORD	2x4 SP No.2										
BOT CHORD	2x4 SP No.2										
WEBS	2x4 SP No.3										
OTHERS	2x4 SP No.3										

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-11

REACTIONS. All bearings 16-4-6.
(lb) - Max Horz 1=460(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 11, 16 except 17=149(LC 12), 15=108(LC 12), 14=105(LC 12), 13=102(LC 12), 12=121(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 11, 1, 16, 15, 14, 13, 12 except 17=287(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-567/281, 3-4=-458/214, 4-5=-388/183, 5-7=-306/142

- NOTES-**
- 1) Wind: ASCE 7-16: Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 16-2-10 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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.
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 Dpsf 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) 11, 16 except (if=lb) 17=149, 15=108, 14=105, 13=102, 12=121.



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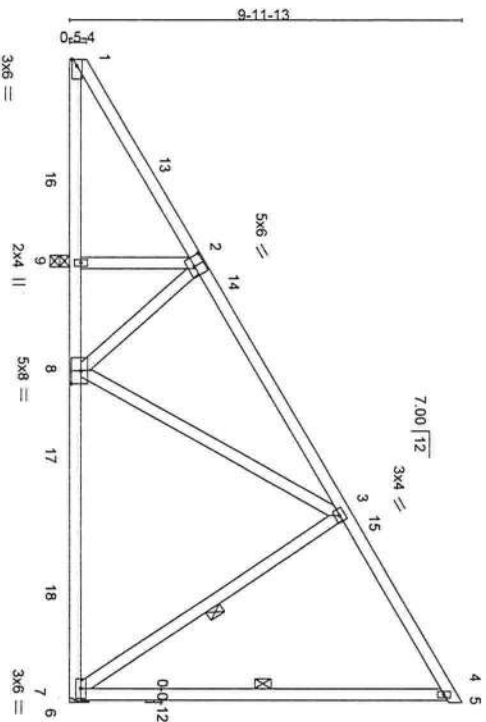


Plate Offsets (X,Y) = [2.0-3.0,0.3-0], [8.0-4.0,0.3-0]

5.0-0 5.2-4 7.10-14 16.4-6
5.0-0 0.2-4 2.8-10 8.5-8

LOADING (psf)	SPACING-	2.0-0	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50	Vert(L)	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.72	Vert(CT)		
BCLL 0.0	Rep Stress Incr	YES	WB 0.22	Horz(CT)		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS	-0.21 7-8 >619 240 -0.34 7-8 >382 180 -0.00 7 n/a n/a		
					Weight: 100 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 9=0-3.8, 7=Mechanical
Max Horiz 9=383(LC 12)
Max Uplift 9=-194(LC 12), 7=-238(LC 14)
Max Grav 9=961(LC 2), 7=515(LC 19)

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

TOP CHORD 1-2=-372/283
BOT CHORD 1-9=-266/361, 8-9=-329/66
WEBS 2-9=-914/302, 2-8=-205/19, 3-7=-302/227

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vast=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MMWFRS (envelope) gable end zone and C-C Exterior(ZE) 0.0-0 to 3.0-0, Interior(I) 3.0-0 to 16-4.6 zone; cantilever left exposed; C-C for members and forces & MMWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 (I=lb) 9=194, 7=236.



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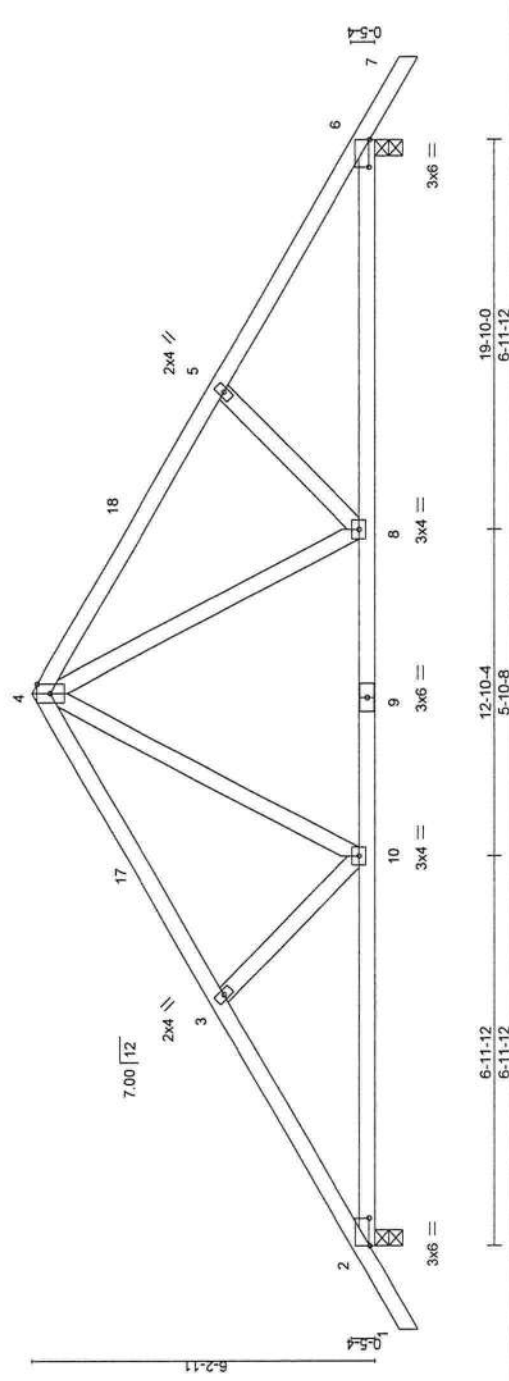


Plate Offsets (X,Y) -		[2'-0"-6'-0"-0'-0'-2']		[6'-0"-6'-0"-0'-0'-2']		[6'-11-12]		[6'-11-12]		[12'-10-4]		[5'-10-8]		[19'-10-0]		[6'-11-12]	
LOADING (psf)		SPACING	2'-0"-0			CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP					
TCLL	20.0	Plate Grip DOL	1.25		TC	0.40	Vert(LL)	0.12	10-13	>999	MT20	244/190					
TCOL	7.0	Lumber DOL	1.25		BC	0.42	Vert(CT)	-0.11	10-13	>999							
BCLL	0.0 *	Rep Stress Incr	YES		WB	0.53	Horz(CT)	0.02	6	n/a							
BCDL	10.0	Code FBC2020/TPI2014			Matrix-MS												

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

REACTIONS		(size)		2'-0"-3'-8		6'-0"-3'-8	
Max Horz							
Max Uplift							
Max Grav							

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

NOTES-

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

2) Wind: ASCE 7-16: Vu=130mph (3-second gust) Vsd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Endl.

GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-11-0 to 12-11-0, Interior(1) 12-11-0 to 21-4-0 zone; porch left and right exposed,C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=b) 2=331, 6=331.



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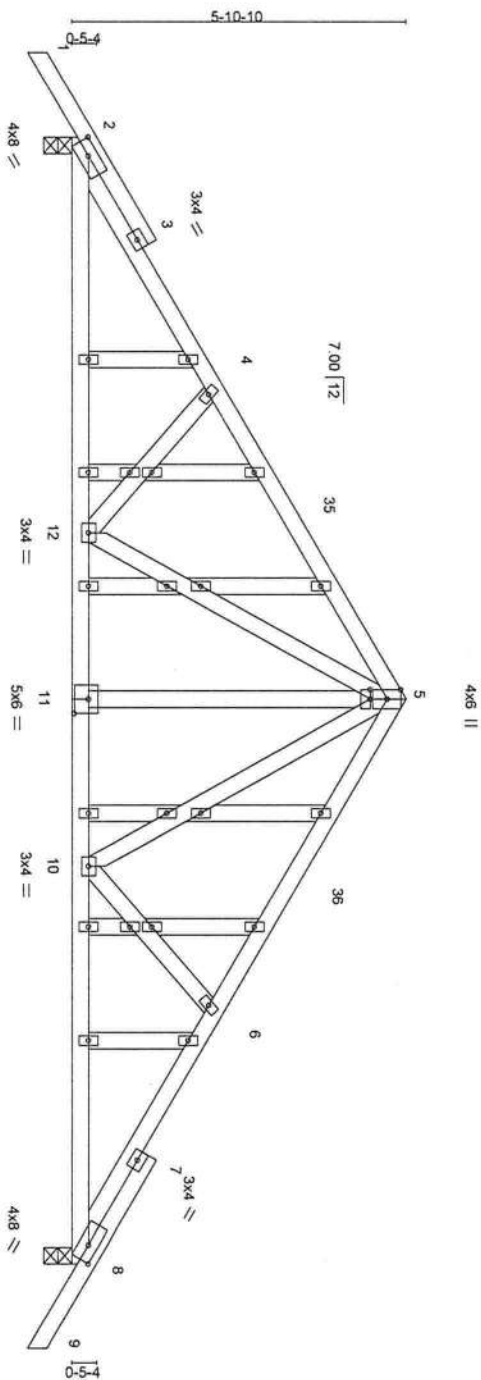


Plate Offsets (X, Y) - [2'-0" 3'-7" 0'-1-15], [5'-0" 2'-0" 0'-0-0], [8'-0" 3'-7" 0'-1-15], [1'-10" 3'-0" 0'-3-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.61	Ver(1L)	0.12	MT20	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Ver(CT)	10-34		244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	12-31		
BCDL	10.0	Code FBC2020/PT2014		Matrix-MS			8		
								Weight: 136 lb FT = 20%	

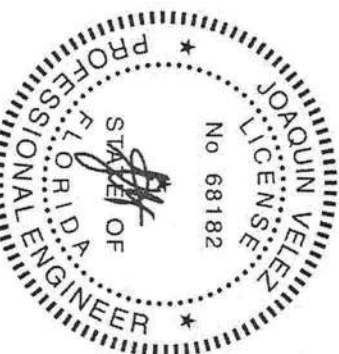
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-1-1 oc bracing.

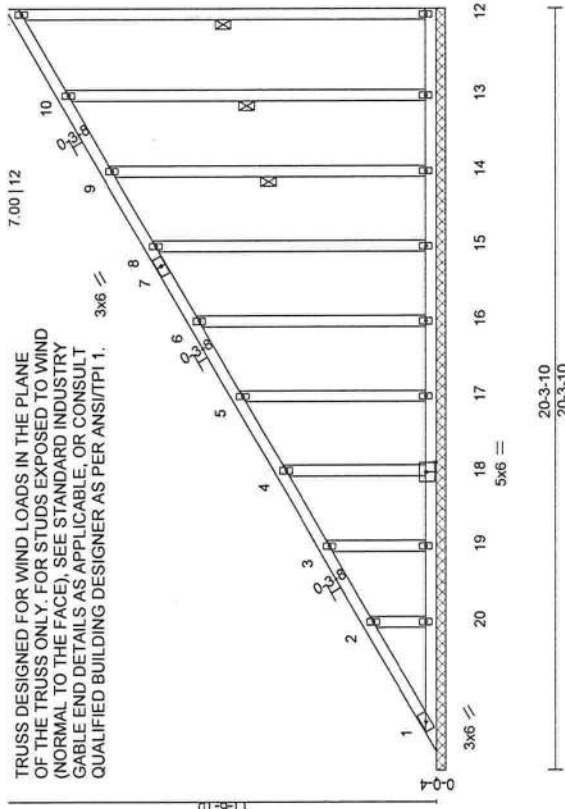
REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horiz 2=201(LC 10)
 Max Uplift 2=334(LC 12), 8=334(LC 13)
 Max Grav 2=812(LC 1), 8=812(LC 1)

FORCES. (lb) - Max. Comp/Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1183/1405, 4-5=-1015/1334, 5-6=-1015/1334, 6-8=-1183/1405
 BOT CHORD 2-12=-1173/1033, 10-12=-638/630, 8-10=-1190/1033
 WEBS 5-10=678/384, 6-10=-326/322, 5-12=-678/384, 4-12=-326/322

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Valt=130mph (3-second gust) Vasd=101mph; TCCL=4, 2psf; BCLL=3, 0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-11-0, Exterior(2F) 9-11-0 to 12-11-0, Interior(1) 12-11-0 to 21-4-0 zone; porch left and right exposed; C-C for members and forces & MMFRS 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/PI 1.
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 Opst 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) except (if=lb) 2=334, 8=334.



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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.

Plate Offsets (X,Y) -		[18-0-3-0-0-3-0]	
LOADING (psf)	SPACING-	2-0-0	
TCLL 20.0	Plate Grip DOL	1.25	
TCDL 7.0	Lumber DOL	1.25	
BCLL 0.0 *	Rep Stress Incr	YES	
BCDL 10.0	Code FBC2020/TPI2014		

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

REACTIONS:	All bearings 20-3-10.
	Max Horz 1=555(LC 12)
	Max Uplift All uplift 100 lb or less at joint(s) 12, 1, 19 except 20=159(LC 12), 18=109(LC 12), 17=104(LC 12), 16=105(LC 12), 15=105(LC 12), 14=103(LC 12), 13=118(LC 12)
	Max Grav All reactions 250 lb or less at joint(s) 12, 20, 19, 17, 16, 15, 14, 13 except 1=261(LC 12)

DEFLECTION		Weight: 145 lb	
Vert(LL)		FT = 20%	
Vert(CT)			
Horz(CT)			

CSL		Matrix-S	
TC			
BC			
WB			

DEFL.		in (loc)	
Vert(LL)		n/a	
Vert(CT)		n/a	
Horz(CT)		0.00	

L/d		GRIP	
999		244/190	
999			
n/a			

PLATES		MT20	

L/d		GRIP	
999		244/190	
999			
n/a			

PLATES		MT20	

L/d		GRIP	
999		244/190	
999			
n/a			

PLATES		MT20	

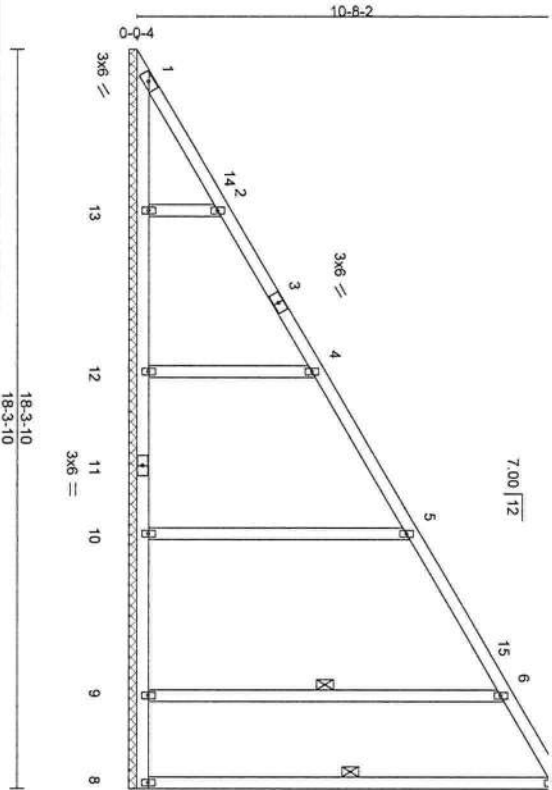
NOTES:
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-0-8 to 4-0-0, Interior(1) 4-0-0 to 20-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 1, 19 except (j)=lb) 20=159, 18=109, 17=104, 16=105, 15=105, 14=103, 13=118.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=604/339, 2-3=508/279, 3-4=449/250, 4-5=378/210, 5-6=311/174

REACTIONS. (lb) - All bearings 20-3-10.
(lb) - Max Horz 1=555(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 12, 1, 19 except 20=159(LC 12), 18=109(LC 12), 17=104(LC 12), 16=105(LC 12), 15=105(LC 12), 14=103(LC 12), 13=118(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 12, 20, 19, 18, 17, 16, 15, 14, 13 except 1=261(LC 12)



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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.16	in (loc)	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.18	Ver(1L) n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Ver(CT) n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-S	Horz(CT) -0.00	Weight: 104 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt
 7-8, 6-9

REACTIONS. All bearings 18-3-10.
 (lb) - Max Horz 1=511(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 1 except 13=-218(LC 12), 12=-206(LC 12), 10=-217(LC 12), 9=-178(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 8, 1 except 13=401(LC 19), 12=411(LC 19), 10=468(LC 19), 9=365(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-550/311, 2-4=-416/236, 4-5=-283/164
 WEBS 2-13=-256/236, 5-10=-256/241

NOTES-
 1) Wind: ASCE 7-16, Vult=130mph (3-second gust) Vast=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp. C; Encl. GCp=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) 0.6-8 to 3-6-8, Interior(1) 3-6-8 to 18-1-14 zone; C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 3) All plates are 2x4 MT20 unless otherwise indicated.
 4) Gable requires continuous bottom chord bearing.
 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) 8, 1 except (l=lb) 13=218, 12=206, 10=217, 9=178.



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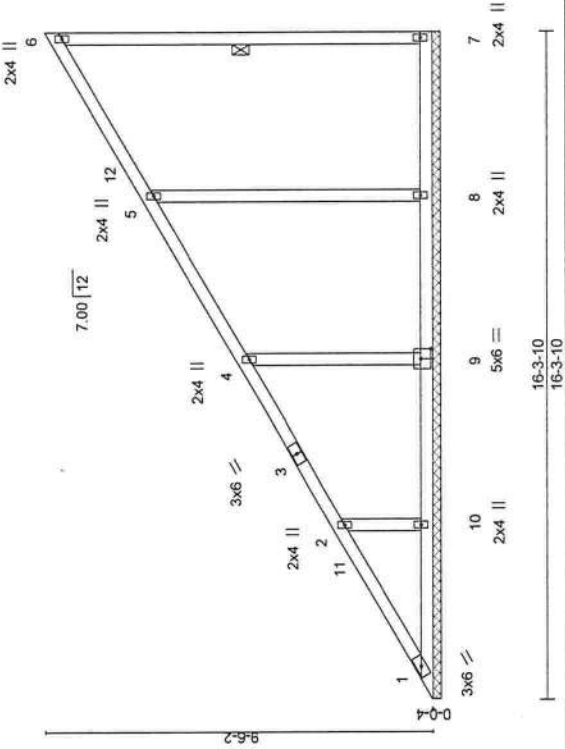


Plate Offsets (X, Y) — [9-0-3-0-0-3-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.17	Vert(LL)	n/a	MT20	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	n/a		244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	7		
BCDL	10.0	Code FBC2020/TP12014		Matrix-S					
								Weight: 84 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt
OTHERS	2x4 SP No.3		6-7

NOTES-

1) Wind: ASCE 7-16: Vult=130mph (3-second gust) Vasd=101mph; TCDEL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0.6-8 to 3-6-8, Interior(1) 3-6-8 to 16-1-14 zone,C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

3) Gable requires continuous bottom chord bearing.

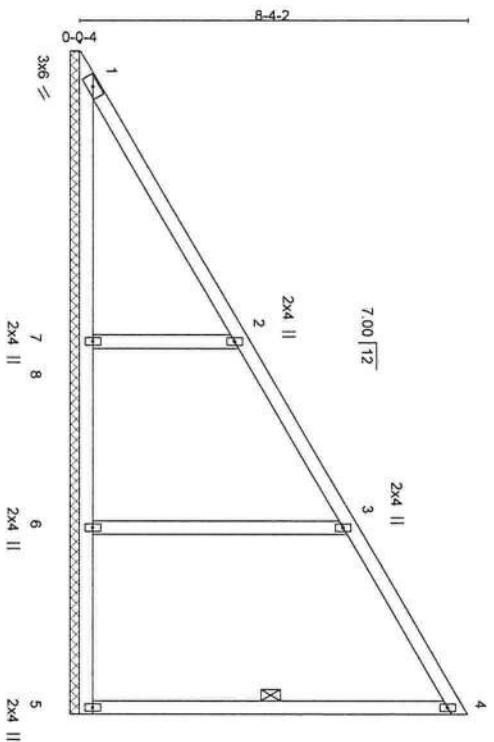
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1 except (j=b) 8=226, 9=201, 10=229.



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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.36	in (loc) L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.26	Vert(LL) n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Vert(CT) n/a		
BCDL 10.0	Code FBC2020/FP12014	Matrix-S	Horz(CT) 0.00	Weight: 69 lb	FT = 20%

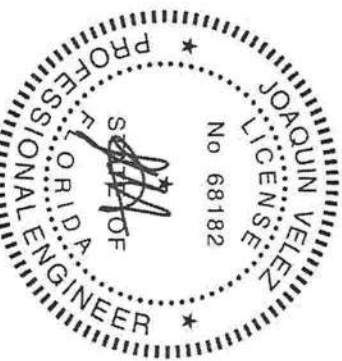
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

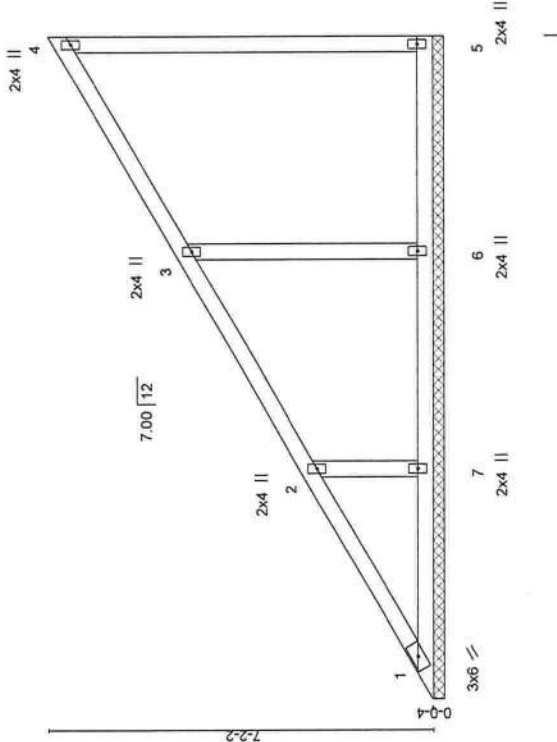
REACTIONS. All bearings 14-3-3.
 (lb) - Max Horiz 1=395(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=189(LC 12), 7=309(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=421(LC 19), 7=588(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=379/243
 WEBS 2-7=356/325

- NOTES-**
- 1) Wind: ASCE 7-16; Valt=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 14-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (I=lb) 6=189, 7=309.



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LOADING (psf)	SPACING	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.16	Vert(CT)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						

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

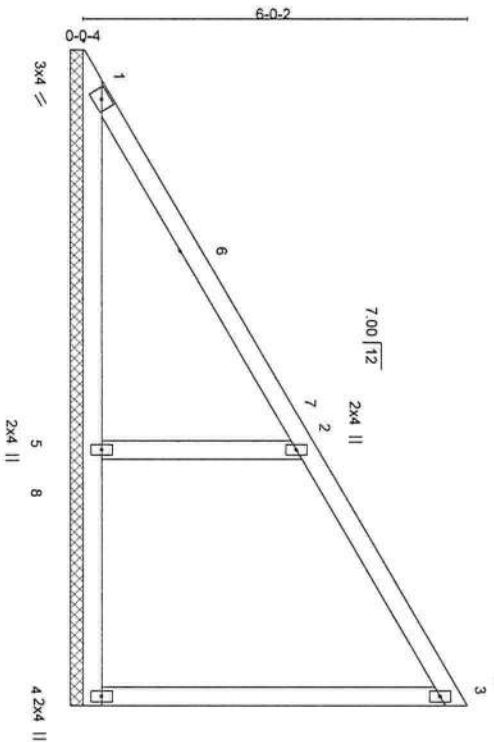
REACTIONS. All bearings 12-3-3.
(lb) - Max Horz 1=337(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=220(LC 12), 7=225(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=444(LC 19), 7=411(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=348/228
WEBS 3-6=263/255, 2-7=262/248

- NOTES-
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 12-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (j=l=b) 6=220, 7=225.



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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.36	in (loc)	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.27	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.10	Vert(C1)		
BCDL 10.0	Code FBC2020/TP12014		Matrix-S	Horz(C1)	Weight: 45 lb	FT = 20%

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

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

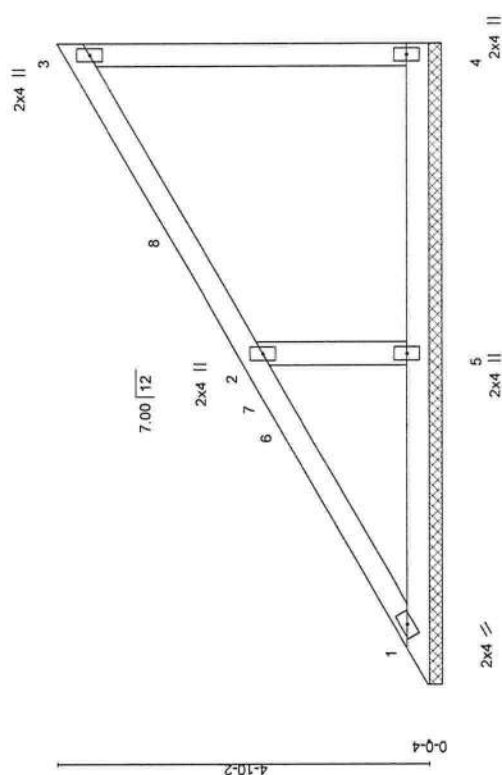
REACTIONS.
 (size) 1=10-3-3, 4=10-3-3, 5=10-3-3
 Max Horz 1=242(LC 12)
 Max Uplift 4=-36(LC 14), 5=-272(LC 12)
 Max Grav 1=185(LC 20), 4=134(LC 19), 5=620(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-373/329

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl, GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 10-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (if=lb) 5=272.



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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 35 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS.

	(size)	1=8-3-3, 4=8-3-3, 5=8-3-3
Max Horz	1=202(LC 12)	
Max Uplift	4=50(LC 12), 5=227(LC 12)	
Max Grav	1=108(LC 1), 4=125(LC 19), 5=380(LC 19)	

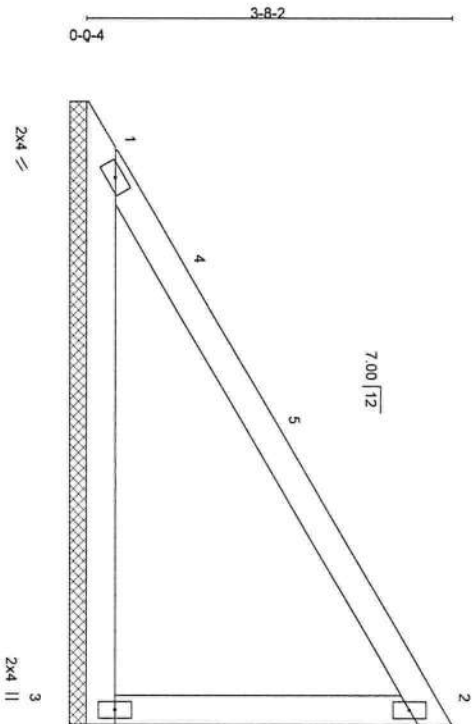
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=282/283

NOTES:

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0.6-8 to 3-6.8, Interior(1) 3-6.8 to 8-1-14 zone, C-C members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 4 except (I=Ib) 5=227.



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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.55	Vert(LL) n/a	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.40	Vert(CT) n/a		
BCDL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		
BCDL 10.0	Code FBC2020/FP12014	Matrix-P		Weight: 24 lb	FT = 20%

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

REACTIONS.	(size) 1=6-3-3, 3=6-3-3
	Max Horiz 1=163(LC 12)
	Max Uplift 1=52(LC 12), 3=147(LC 12)
	Max Grav 1=208(LC 1), 3=230(LC 19)

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

- NOTES-
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 6-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 1 except (ft=lb) 3=147.



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LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.23	Vert(LL)	n/a	-	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	WB 0.15	Vert(CT)	n/a	-	999		
BCLL 0.0 *	Rep Stress Incr	YES	BC 0.00	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-P						
								Weight: 16 lb	FT = 20%

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

Structural wood sheathing directly applied or 4-3-10 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc bracing.

BRACING-
TOP CHORD
BOT CHORD

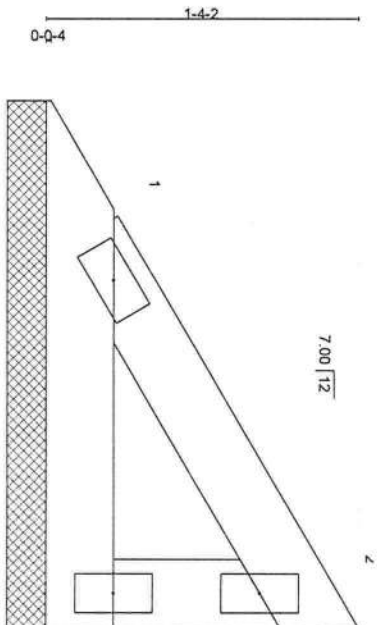
REACTIONS.

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0.6-8 to 3-6, Interior(1) 3-6-8 to 4-1-14 zone, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 1, 3.





LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.05	Vert(L)	n/a	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	n/a	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code FBC2020/FP12014		Matrix-P					Weight: 7 lb	FT = 20%

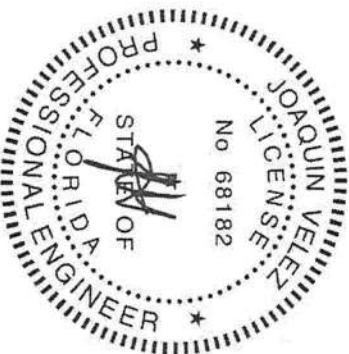
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.
 (size) 1=2-3-3, 3=2-3-3
 Max Horiz 1=47(LC 12)
 Max Uplift 1=-15(LC 12), 3=-42(LC 12)
 Max Grav 1=60(LC 1), 3=66(LC 19)

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

- NOTES-**
- 1) Wind: ASCE 7-16; V_{ult}=130mph (3-second gust) V_{asd}=101mph; TC_{DOL}=4.2psf; BC_{DOL}=3.0psf; h=20ft; Cat. II; Exp. C; Encl., GC_{PI}=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 1, 3.

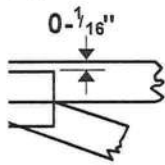


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Tools

PLATE ORIENTATION AND ORIENTATION

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



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

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

tion details available in MiTek 20/20 or upon request.

SIZE

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

BRACING LOCATION

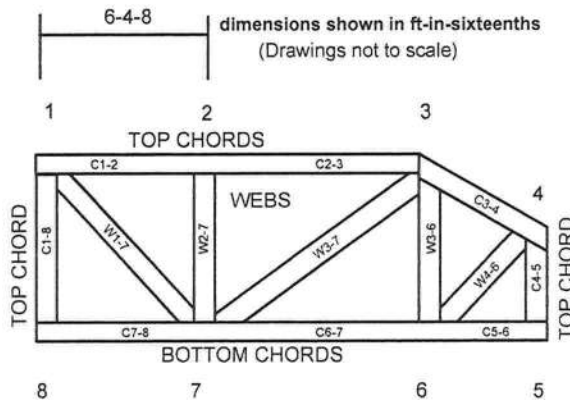
Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

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

Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing. Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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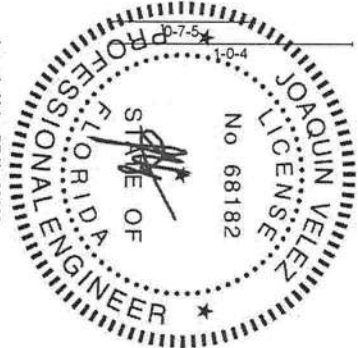
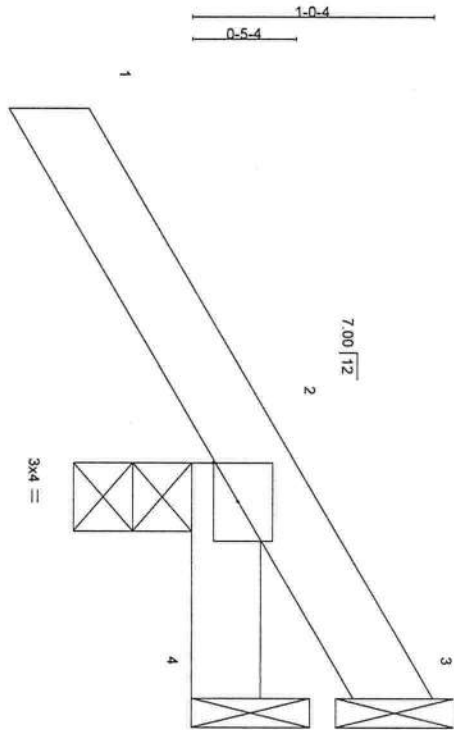
MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety

Failure to Follow Could Cause Property Damage or Personal Injury

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



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Plate Offsets (X,Y) - [2:Edge 0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	ldefl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.23	Vert(L)	0.00	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	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 FBC2020/TP12014		Matrix-MP						Weight: 6 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horiz 3=5(LC 1), 2=-108(LC 12), 4=-25(LC 19)
Max Grav 3=8(LC 16), 2=179(LC 1), 4=27(LC 16)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=20ft; Cal. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 3, 108 lb uplift at joint 2 and 25 lb uplift at joint 4.

 $3 \times 4 =$

Plate Offsets (X,Y)→	[2:Edge,0-1-4]																	
LOADING (psf)	SPACING-		2-0-0		CSI,		DEFL.		in		l/defl		L/d		PLATES		GRIP	
TCLL 20.0	Plate Grip DOL		1.25		TC 0.21		Vert(LL)		0.01		4-7		>999		MT20		244/190	
TCDL 7.0	Lumber DOL		1.25		BC 0.14		Vert(CT)		-0.01		4-7		>999					
BCLL 0.0 *	Rep Stress Incr		YES		WB 0.00		Horz(CT)		-0.00		3		n/a					
BCDL 10.0	Code		FBC2020/TP12014		Matrix-MP													
Weight: 12 lb FT = 20%																		

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., Gcpi=0.18; MWFRS (envelope) gable end and zone and C-C Exterior(2E) -1.6-0 to 1-6.0, Interior(1) 1-6.0 to 2-11.4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6.0 tall by 2-0.0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for Truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3, 92 lb uplift at joint 2 and 27 lb uplift at joint 4.

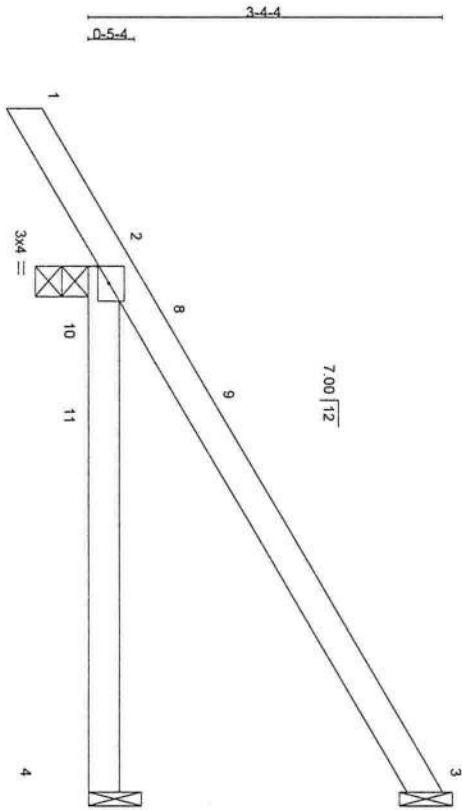


Plate Offsets (X,Y)-- [2:Edge 0-1-4]

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	0.42	0.11	4.7	>564	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	0.09	4.7	>631	180		
BCDL	0.0	Rep Stress Incr	YES	WB	0.00	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2020/PI2014		Matrix-MP						Weight: 19 lb	FT = 20%

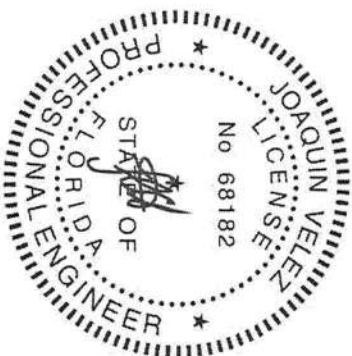
LUMBER-											
TOP CHORD	2x4 SP No.2										
BOT CHORD	2x4 SP No.2										

BRACING-											
TOP CHORD											
BOT CHORD											

RECTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horiz 2=18(LC 12)
Max Uplift 3=-16(LC 12), 2=-103(LC 12), 4=-48(LC 9)
Max Grav 3=125(LC 19), 2=276(LC 1), 4=89(LC 3)

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

- NOTES-
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0; Interior(1) 1-6-0 to 4-11-4 zone; porch left and right exposed; C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 3, 103 lb uplift at joint 2 and 48 lb uplift at joint 4.



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Plate Offsets (X,Y)→	7.0.0	7.0.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.85	Vert(LL) >263	0.32	4-7	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.38	Vert(CT)	0.28	4-7	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.02	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 25 lb	FT = 20%

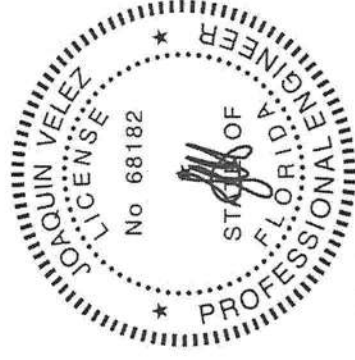
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31

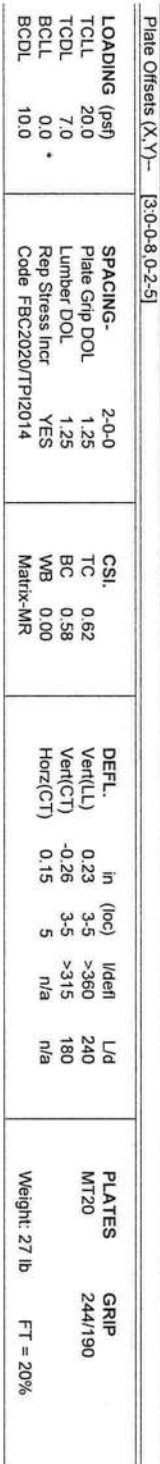
(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=230(LC 12)

Max Horiz 2=230(LC 12)
Max Uplift 3=-147(LC 12), 2=123(LC 12), 4=-72(LC 9)
Max Grav 3=176(LC 19), 2=346(LC 1), 4=131(LC 3)

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.4, 2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp. C; Encl., Gcpl=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) -1.6-0, Interior(1) -1.6-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 3, 123 lb uplift at joint 2 and 72 lb uplift at joint 4.





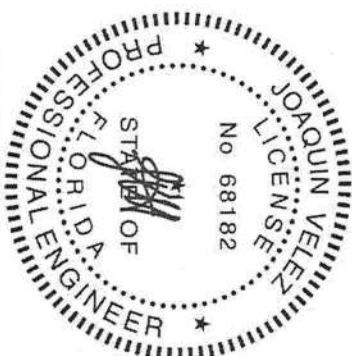
REACTIONS.

(size)	4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz	2=230(LC 12)
Max Uplift	4=-130(LC 12), 2=-121(LC 12), 5=-29(LC 12)
Max Grav	4=175(LC 19), 2=351(LC 1), 5=123(LC 3)

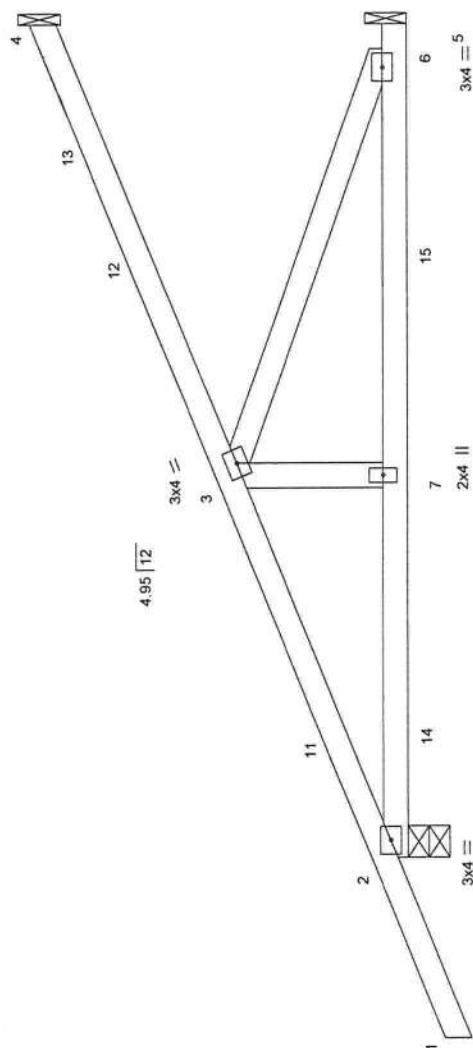
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; $U=130$ mph (3-second gust) Vasc=10.1 mph; TCDL=4.2 psf; BCDL=3.0 psf; $h=20$ ft; Cat. II; Exp. C; Encl., GC-01-018. MWFRS (uniform) gable end zone and C-C Exterior(ZE)-1-6-0 to 1-6-0, Interior(I)-1-6-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 4, 121 lb uplift at joint 2 and 29 lb uplift at joint 5.



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LOADING (psf)	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code	CSI, TC BC WB Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.11 -0.12 -0.01	I/defl 6-7 6-7 5	L/d >999 180 n/a	PLATES MT20	GRIP 244/190
2-0-0	1.25	0.59						
TCLL 20.0	1.25	0.60						
TCDL 7.0								
BCLL 0.0 *	NO	0.39						
BCDL 10.0	FBC2020/TP12014							

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

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horiz 2=230(LC 8)
Max Uplift 4=-136(LC 8), 2=-422(LC 4), 5=-287(LC 1)
Max Grav 4=150(LC 1), 2=526(LC 1) 5=298(LC 1)

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

TOP CHORD 2-3=-735/546
BOT CHORD 2-7=-618/607, 6-7=-618/607
WERS 3-7=-147/280 3-6=-652/664

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCip=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

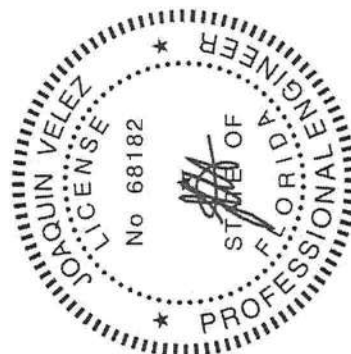
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- 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 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 4, 422 lb uplift at joint 2 and 287 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 76 lb up at 1-6-1, 86 lb down and 76 lb up at 1-6-1, 105 lb down and 63 lb up at 4-4-0, 105 lb down and 63 lb up at 4-4-0, and 136 lb down and 124 lb up at 7-1-15, and 136 lb down and 124 lb up at 7-1-15 on top chord, and 60 lb down and 54 lb up at 1-6-1, 60 lb down and 54 lb up at 1-6-1, 20 lb down and 35 lb up at 4-4-0, 20 lb down and 35 lb up at 4-4-0, and 42 lb down and 63 lb up at 7-1-15, and 42 lb down and 63 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

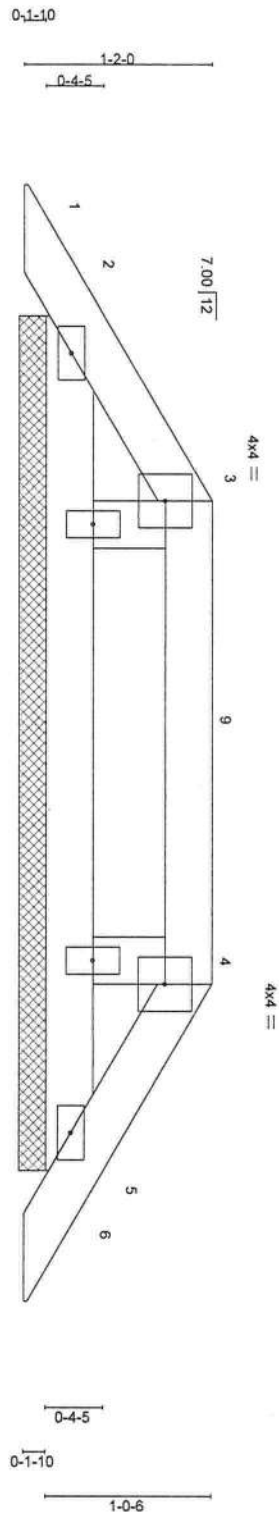
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Vert: $1-4=-54, 5-8=-20$

Concentrated Loads (lb)



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LOADING (psf)		SPACING-		CSL		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.13	in (loc)	L/d	MT20	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.04	5	n/r	120	244/190
BCDL	0.0	Rep Stress Incr	YES	WB	0.03	5	n/a	120	
BCDL	10.0	Code FBC2020/TP12014		Matrix-P		5	n/a		
								Weight: 20 lb	
								FT = 20%	

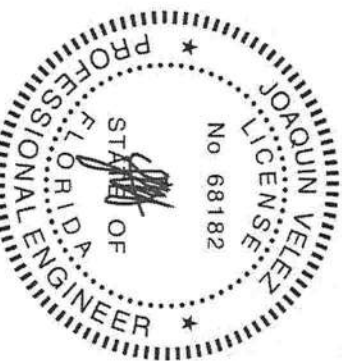
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

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.

REACTIONS. All bearings 5-3-11.
 (lb) - Max Horiz 2=32(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7
 Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

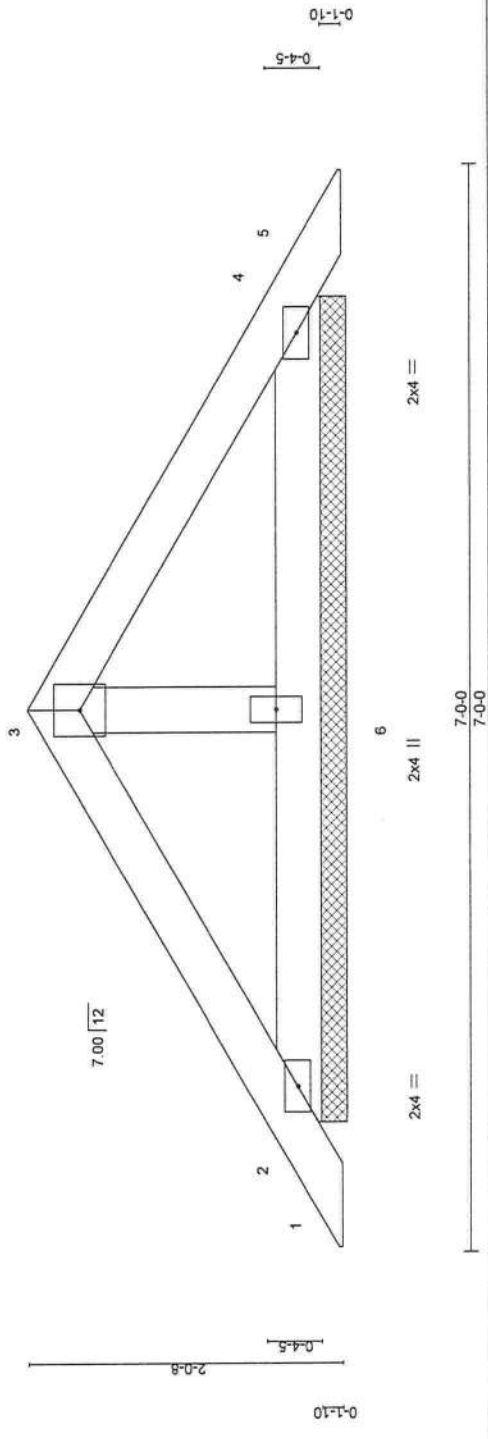
FORCES. (lb) - Max. Comp/Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES.**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCP=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate gnp DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 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 (all by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 8, 7.
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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4x4 =



LOADING (psf)	SPACING-	CSI,	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.15	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.07	Vert(CT) 0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P						

LUMBER-		BRACING-	Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
TOP CHORD			
BOT CHORD			
OTHERS			
2x4 SP No.2			
2x4 SP No.2			
2x4 SP No.3			
2x4 SP No.3			

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

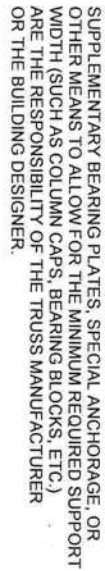
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 3-4-7 cc purlins. Rigid ceiling directly applied or 4-11-6 cc bracing. 1 Row at midpt 6-21, 9-19, 9-17
--	---

- 1) Unbalanced roof live loads have been considered. Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, n=20ft, Cal. II; Exp C, Encl.
- 2) Wind: ASCE 7-16; Vail=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, n=20ft, Cal. II; Exp C, Encl., GCP=0.18; MWFRS (envelope) gable end zone, porch right exposed, Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) WARNING: Required bearing size at joint(s) 19 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb)



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down and 130 lb up at 19-0-12, 158 lb down and 120 lb up at 20-6-0, 150 lb down and 147 lb up at 21-11-4, 150 lb down and 147 lb up at 25-11-4, 150 lb down and 147 lb up at 27-11-4, 150 lb down and 147 lb up at 29-11-4, and 226 lb down and 294 lb up at 34-0-0 on top chord, and 338 lb down and 409 lb up at 7-0-0, 91 lb down and 92 lb up at 9-0-12, 91 lb down and 49 lb up at 13-0-12, 83 lb down and 49 lb up at 15-0-12, 83 lb down and 49 lb up at 17-0-12, 83 lb down and 49 lb up at 19-0-12, 83 lb down and 49 lb up at 20-6-0, 91 lb down and 92 lb up at 21-11-4, 91 lb down and 92 lb up at 23-11-4, 91 lb down and 92 lb up at 25-11-4, 91 lb down and 92 lb up at 27-11-4, 91 lb down and 92 lb up at 29-11-4, and 91 lb down and 92 lb up at 31-11-4, and 338 lb down and 409 lb up at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-11=-54, 11-14=-54, 24-27=-20, 21-23=-20, 20-30=-20

Concentrated Loads (lb)

Vert: 4=-105(F) 11=-179(F) 25=-338(F) 16=-338(F) 33=-105(F) 34=-105(F) 35=-100(F) 36=-100(F) 37=-100(F) 38=-100(F) 39=-100(F) 40=-105(F) 41=-105(F) 42=-105(F) 43=-105(F) 44=-105(F) 45=-105(F) 46=-69(F) 47=-69(F) 48=-76(F) 49=-76(F) 50=-76(F) 51=-76(F) 52=-76(F) 53=-69(F) 54=-69(F) 55=-69(F) 56=-69(F) 57=-69(F) 58=-69(F)

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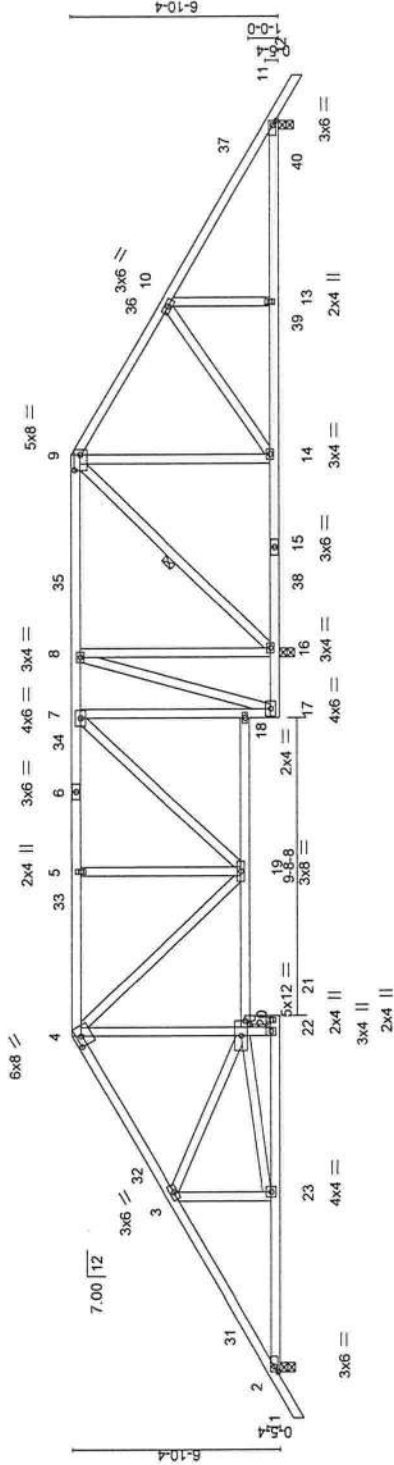


Plate Offsets (X,Y) =		5-8.8	11-3.8	11-8.0	16-4.0	21-4.8	23-6.4	30-0.0	35-0.9	41-0.0
		5-8.8	5-7.0	0-4.8	4-8.0	5-0.8	2-1-12	6-5-12	5-0-9	5-11-7
Plate Offsets (X,Y) =		[4.0-4.0-0-1-11], [9.0-6.0-0-2-4], [24.0-2.0-0-1-8]								

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	Vert(LL) 14-16	0.08 14-16	>999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.40	Vert(CT) 19-20	-0.11 19-20	>999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.02 11	0.02 11	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS					Weight: 258 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD
4-22, 7-17: 2x4 SP No.3	
WEBS 2x4 SP No.3	WEBS
	1 Row at midpt
	9-16

REACTIONS.
(size) 2=0-3-8, 16=0-3-8, 11=0-3-8
Max Horiz 2=233(LC 11)
Max Uplift 2=423(LC 12), 16=814(LC 9), 11=386(LC 13)
Max Grav 2=911(LC 19), 16=1948(LC 2), 11=821(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1248/566, 3-4=945/515, 4-5=533/410, 5-7=533/411, 7-8=69/293, 8-9=125/514, 9-10=308/563, 10-11=723/907
BOT CHORD 2-23=516/1146, 4-20=160/553, 19-20=308/795, 17-18=871/367, 7-18=786/376, 16-17=395/170, 14-16=311/237, 13-14=715/577, 11-13=715/577
WEBS 3-20=402/233, 4-19=461/142, 5-19=322/249, 7-19=405/981, 8-17=359/823, 8-16=1079/542, 9-16=839/666, 9-14=609/481, 10-14=463/508, 10-13=298/229, 20-23=507/1081

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 30-0-0, Exterior(2R) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 42-6-0 zone; porch right exposed; C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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, 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) 2=423, 16=814, 11=386.



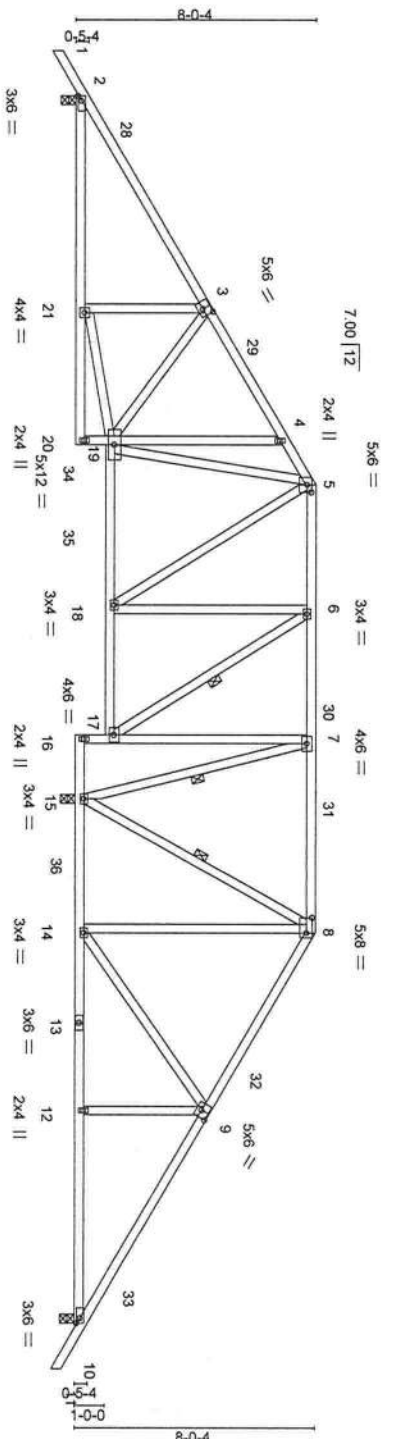


Plate Offsets (X,Y) -	[3-0-3-0,0-3-0]	[5-0-3-0,0-1-12]	[8-0-6-0,0-2-4]	[9-0-3-0,0-3-0]						
7-1-0	11-8-0	17-2-4	21-4-8	23-6-4	28-0-0	33-11-0	41-0-0			
7-1-0	4-7-0	5-6-4	4-2-4	2-1-12	4-5-12	5-11-0	7-1-0			

LOADING (psf)	SPACING	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	in (loc)	MT20	244/190
TCCL 7.0	Lumber DOL 1.25	BC 0.52	Vert(L) -0.08 21-24 >999		
BCCL 0.0 *	Rep Stress Incr YES	WB 0.72	Vert(CT) -0.16 21-24 >999		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	Horz(CT) 0.02 15 n/a		
				Weight: 268 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-17, 8-15, 7-15

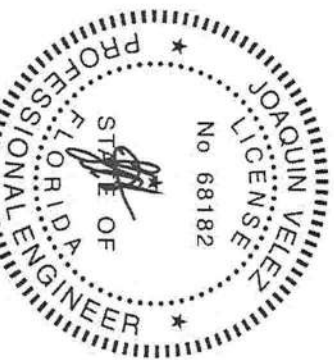
WEBS
2x4 SP No. 3

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=0-3-8
Max Horiz 2=2-70(LC 10)
Max Uplift 2=419(LC 12), 15=544(LC 12), 10=390(LC 13)
Max Grav 2=929(LC 19), 15=1968(LC 2), 10=752(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1182/532, 3-4=900/513, 4-5=842/585, 5-6=362/348, 6-7=60/291, 7-8=136/511,
8-9=259/358, 9-10=839/482
2-21=489/1120, 18-19=235/632, 17-18=162/401, 7-17=266/755, 12-14=266/641,
10-12=266/637
BOT CHORD 19-21=484/1153, 3-19=392/236, 5-19=353/795, 5-18=524/192, 6-18=124/659,
6-17=882/361, 8-15=843/257, 8-14=168/580, 9-14=700/374, 9-12=0/292,
7-15=1067/505

WEBS
19-21=484/1153, 3-19=392/236, 5-19=353/795, 5-18=524/192, 6-18=124/659,
6-17=882/361, 8-15=843/257, 8-14=168/580, 9-14=700/374, 9-12=0/292,
7-15=1067/505

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Valt=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl.
GCP=0.18; MMFERS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) -1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-4, Interior(1) 17-2-4 to 28-0-0, Exterior(2R) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 42-6-0 zone C-C for members and forces & MMFERS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j)=lb
2=419, 15=544, 10=390.



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6304 Parke East Blvd, Tampa FL 33610
Date:

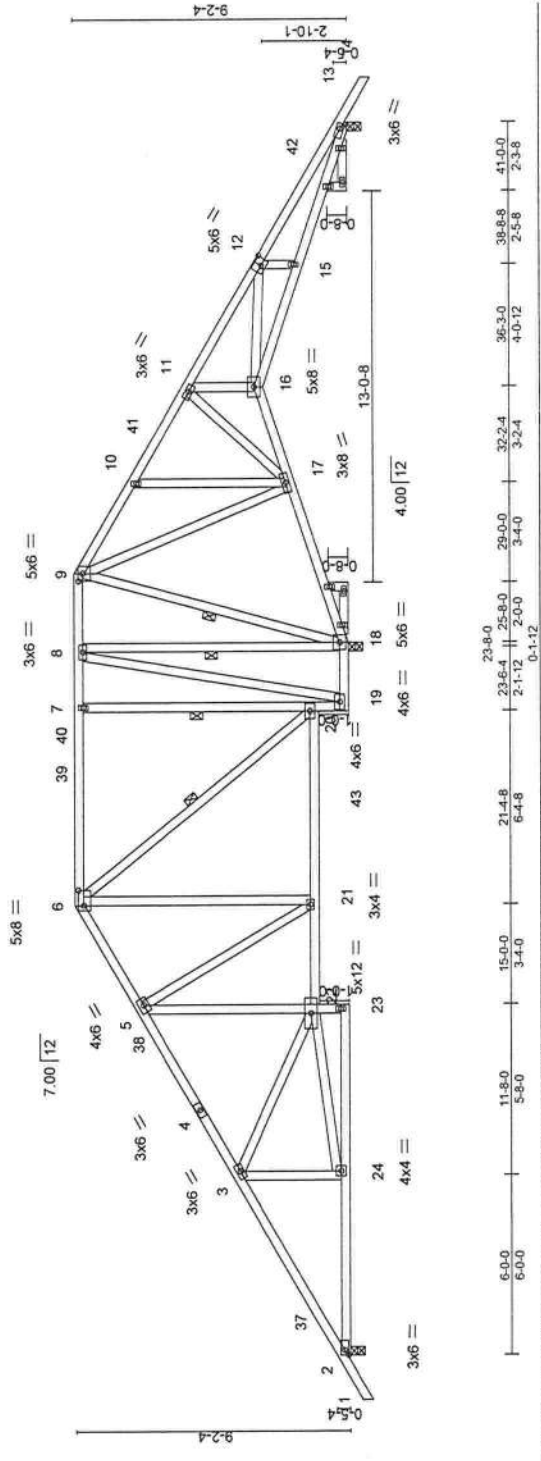


Plate Offsets (X,Y) = [6.0-6.0-0.2-4], [9.0-3.0-0.1-12], [12.0-3.0-0.3-0], [13.0-2.5-0.1-8]																			
LOADING (psf)		SPACING-		2-0-0		CSL		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL		1.25		TC 0.48		Vert(LL)		-0.09 20-21		>999		240		MT20		244/190	
TCDL 7.0		Lumber DOL		1.25		BC 0.55		Vert(CT)		-0.14 20-21		>999		180					
BCLL 0.0 *		Rep Stress Incr		YES		WB 0.72		Horz(CT)		-0.05 18		n/a		n/a					
BCDL 10.0		Code FBC2020/TP12014				Matrix-MS												Weight: 297 lb FT = 20%	

LUMBER									
TOP CHORD	2x4 SP No.2								
BOT CHORD	2x4 SP No.2 *Except*								
WEBS	5-23, 7-19, 25-26, 28-29; 2x4 SP No.3								
	2x4 SP No.3								

REACTIONS									
(size)	2=0-3-8, 18=0-3-8, 13=0-3-8								
Max Horz	2=307(LC 10)								
Max Uplift	2=-398(LC 12), 18=-586(LC 12), 13=-332(LC 13)								
Max Grav	2=849(LC 19), 18=2221(LC 2), 13=565(LC 20)								

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.									
TOP CHORD	2-3=-1118/512, 3-5=-768/460, 5-6=-427/376, 6-7=0/462, 7-8=0/470, 8-9=-14/688, 9-10=-134/518, 10-11=-124/461, 11-12=-406/406, 12-13=-1106/664								
BOT CHORD	2-24=-515/1084, 5-22=-174/479, 21-22=-339/683, 20-21=-249/387, 19-20=-1187/495, 7-20=-334/270, 18-19=-639/303, 17-18=-520/269, 16-17=-220/280, 15-16=-482/959, 13-15=-478/955								
WEBS	22-24=-512/1012, 3-22=-443/240, 5-21=-862/376, 6-21=-281/821, 6-20=-1073/362, 8-19=-459/1110, 8-18=-1130/452, 9-18=-786/235, 9-17=-307/643, 11-17=-635/354, 11-16=-180/480, 12-16=-675/342								

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 26-0-0, Exterior(2R) 26-0-0 to 30-2-15, Interior(1) 30-2-15 to 42-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 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.
- Bearing at joint(s) 13 considers parallel to grain value using ANSIT/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j)=(b) 2=398, 18=586, 13=332.

BRACING-

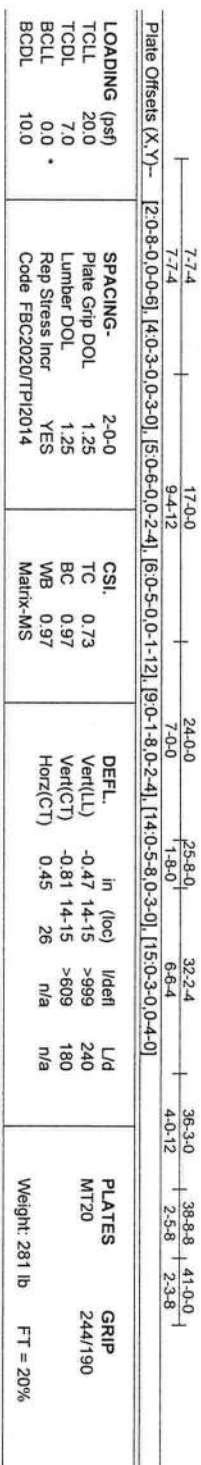
TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 5-5-9 oc purlins.
Rigid ceiling directly applied or 4-7-5 oc bracing. Except:
1 Row at midpt 7-20
1 Row at midpt 6-20, 8-18, 9-18

PLATES MT20
GRIP 244/190
Weight: 297 lb FT = 20%

JOAQUIN VELEZ
LICENSE
No 68182
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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



8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (I=b)
2=640, 11=640, 11=640



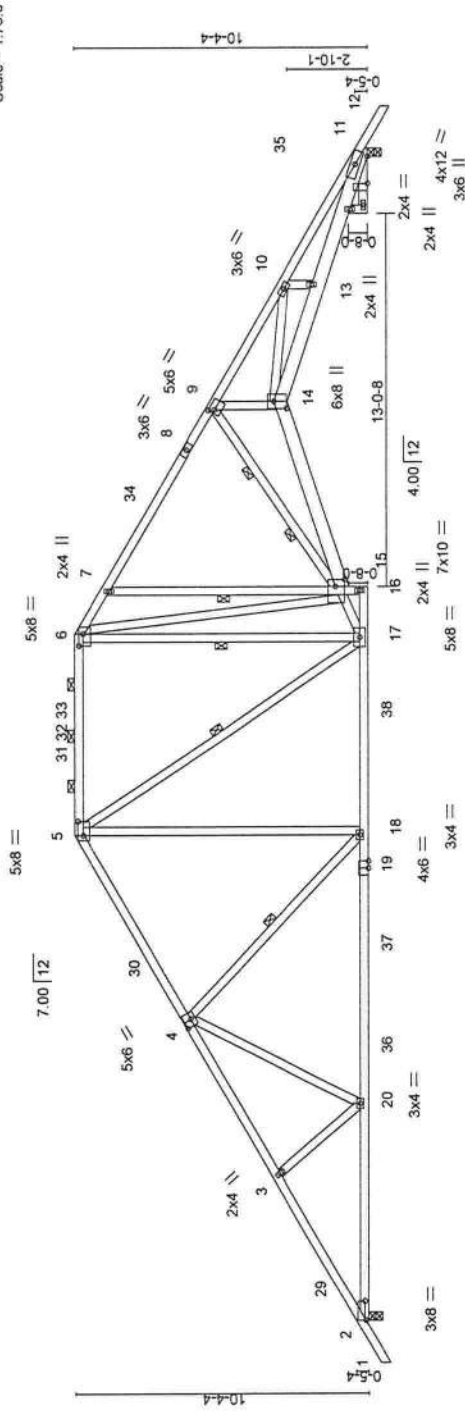


Plate Offsets (X,Y) =		[2.0-8.0,0.0-6.0], [4.0-3.0,0.0-3.0], [5.0-6.0,0.0-2.4], [6.0-5.0,0.0-1.12], [9.0-1.8,0.0-2.4], [14.0-5.8,0.0-3.0], [15.0-3.0,0.4-0.4]		7.7-4		17.0-0		24.0-0		25.8-0		36.3-0		38.8-8		41.0-0	
				7.7-4		9.4-12		7.0-0		1.8-0		4.0-12		2.5-8		2.3-8	

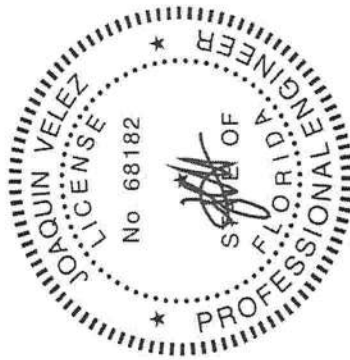
LOADING (psf)		SPACING		CSI		DEFL.		in (loc)		I/defl		L/d		PLATES		GRIP	
TCCLL		Plate Grip DOL		TC		Vert(LL)		-0.47		>999		240		MT20		244/190	
TCDDL		Lumber DOL		BC		Vert(CT)		-0.81		14-15		>609					
BCCLL		Rep Stress Incr		WB		Horz(CT)		0.45		26		n/a					
BCDDL		Code FBC2020/TPI2014		Matrix-MS													

LUMBER		BRACING	
TOP CHORD		TOP CHORD	
BOT CHORD		BOT CHORD	
WEBS		WEBS	

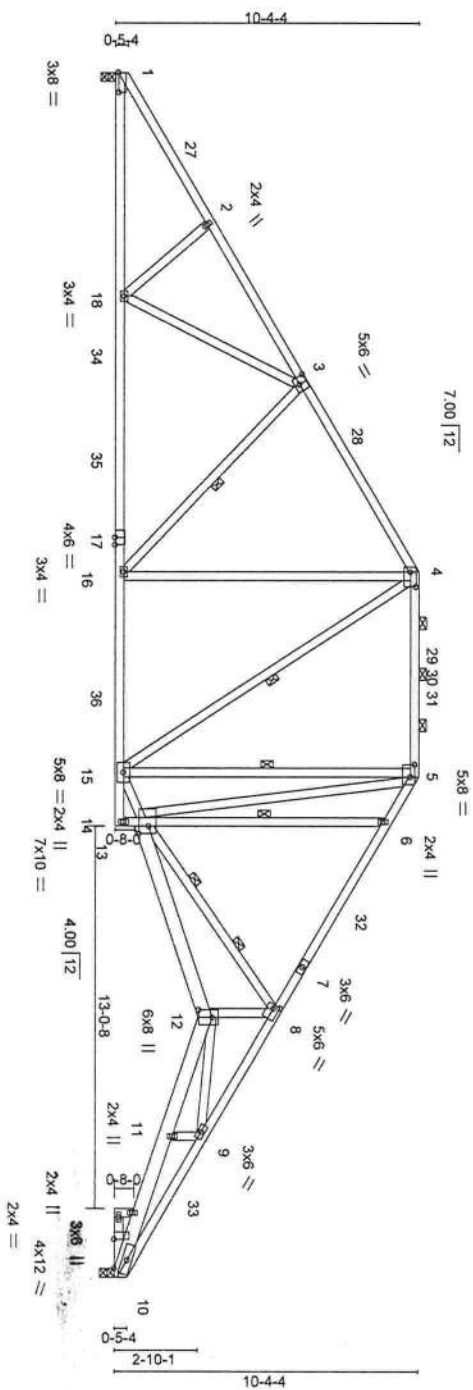
REACTIONS	
(size) 2=0-3-8, 11=0-3-8, 11=0-3-8	
Max Horiz 2=344(LC 10)	
Max Uplift 2=640(LC 12), 11=640(LC 13)	
Max Grav 2=1791(LC 19), 11=1764(LC 20), 11=1598(LC 1)	

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	
2-3=-2898/989, 3-4=-2768/975, 4-5=-2067/764, 5-6=-1695/738, 6-7=-2267/967, 7-9=-2332/827, 9-10=-5753/1755, 10-11=-5740/1849	
BOT CHORD	
2-20=-960/2668, 18-20=-750/2272, 17-18=-439/1756, 7-15=-327/280, 14-15=-1301/5011, 13-14=-1554/5223, 11-13=-1533/5141	
WEBS	
4-20=-143/582, 4-18=-728/432, 5-18=-243/875, 6-17=-577/207, 15-17=-331/1803, 6-15=-578/1573, 9-15=-3418/1126, 9-14=-877/3455	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vuil=130mph (3-second gust) Vasd=101mph; TCDDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E), 1-6-0 to 1-6-0, Interior(1) 1-6-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 42-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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, with BCDL = 10.0psf.
 - Bearing at joint(s) 11, 11 considers parallel to grain value using ANS/ITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=640, 11=640, 11=640.
 - 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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LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.82	Ver(1L) -0.47	MT20	24/190
TCCL 7.0	Lumber DOL 1.25	BC 0.98	Ver(CT) -0.81		
BCLL 0.0	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.46		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	n/a	Weight: 276 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP M.31 *Except*	BOT CHORD
WEBS 6-14, 10-19; 2x4 SP No.3, 12-13; 2x6 SP No.2, 10-12; 2x6 SP M.26	WEBS
8-12: 2x4 SP No.2	2 Rows at 1/3 pts
	8-13

REACTIONS. (size) 1=0-3-8, 10=0-3-8, 10=0-3-8
Max Horiz 1=316(LC 8)
Max Uplift 1=588(LC 12), 10=588(LC 13)
Max Grav 1=1713(LC 19), 10=1685(LC 20), 10=1517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
1-2=2915/1004, 2-3=2783/989, 3-4=2072/768, 4-5=1700/741, 5-6=2274/976,
6-8=2338/836, 8-9=5777/1829, 9-10=5788/1941
1-18=994/2674, 16-18=775/2267, 15-16=461/1746, 6-13=327/281, 12-13=1403/5031,
11-12=1678/5267, 10-11=1660/5188
3-18=153/595, 3-16=734/437, 4-16=245/678, 5-15=580/225, 13-15=353/1808,
5-13=601/1583, 8-13=3446/1189, 8-12=946/3473

- NOTES.**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Valt=130mph (3-second gust) Valt=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 41-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Bearing at joint(s) 10, 10 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=588, 10=588, 10=588.
 - 9) 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
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Date:

Scale = 1/69.5

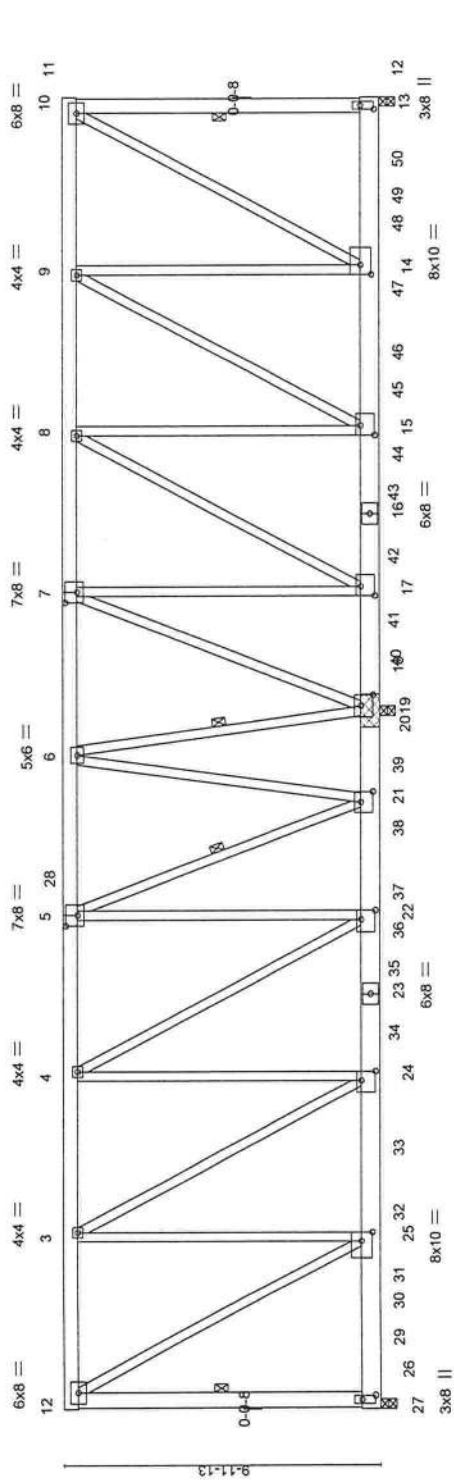


Plate Offsets (X,Y)-		[5.0-4.0-0.4-8], [7.0-4.0-0.4-8], [13.0-5.4-0.1-8], [14.0-3.8-0.4-4], [15.0-3.8-0.5-8], [17.0-4.0-0.4-12], [21.0-4.0-0.4-12], [22.0-3.8-0.5-8], [24.0-3.8-0.5-8], [25.0-3.8-0.4-4], [26.0-5.4-0.1-8]	
6x8	12	5.4-10	5.4-10
4x4	3	10.5-0	5.0-6
4x4	4	15.5-6	5.0-6
7x8	5	19.1-12	3.8-6
5x6	6	21.10-4	2.8-8
7x8	7	25.6-10	3.8-6
4x4	8	30.7-0	5.0-6
4x4	9	35.7-6	5.0-6
6x8	10	41.0-0	5.4-10
6x8	11		
6x8	12		
3x8	13		
3x8	14		
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3x8	95		
3x8	96		
3x8	97		
3x8	98		
3x8	99		
3x8	100		

LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2.0-0	TC 0.22	Vert(LL)	0.10 22-24	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.29	Vert(CT)	-0.15 22-24	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.96	Horz(CT)	0.02 13	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS					

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
BOT CHORD	BOT CHORD
WEBS	WEBS

REACTIONS. (size) 26=0-3-8, 13=0-3-8, 19=(0-3-8 + bearing block) (req. 0-5-5)
Max Uplift 26=2213(LC 4), 13=1474(LC 5), 19=4354(LC 5)
Max Grav 26=4891(LC 30), 13=3297(LC 2), 19=8954(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-26=4257/2001, 2-3=2307/1041, 3-4=3187/1429, 4-5=2541/1109, 5-6=1145/437, 7-8=788/409, 8-9=1662/734, 9-10=1431/637, 10-13=2708/1267
BOT CHORD 24-25=1041/2307, 22-24=1429/3187, 21-22=1107/2538, 19-21=194/570, 17-19=408/786, 15-17=734/1662, 14-15=637/1431
WEBS 2-25=2156/4784, 3-25=2135/1106, 3-24=825/1872, 4-24=564/778, 4-22=1378/682, 5-22=1300/3075, 5-21=3869/1863, 6-21=1741/3938, 6-19=4091/1958, 7-19=2254/1189, 7-17=885/1970, 8-17=1907/870, 8-15=577/1579, 9-15=266/490, 9-14=597/397, 10-14=1313/2958

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all piles, 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.
- 2x8 SP 2400F 2.0E bearing block 12" long at jt. 19 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Endl., GCpl=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 7x8 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 DOL = 1.60

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315 lb up at 20-11-4, 424 lb down and 256 lb up at 22-11-4, 424 lb down and 256 lb up at 24-11-4, 422 lb down and 256 lb up at 26-11-4, 684 lb down and 309 lb up at 28-11-4, 695 lb down and 309 lb up at 30-11-4, 690 lb down and 309 lb up at 32-11-4, 687 lb down and 309 lb up at 34-11-4, and 698 lb down and 309 lb up at 36-11-4, and 684 lb down and 309 lb up at 38-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

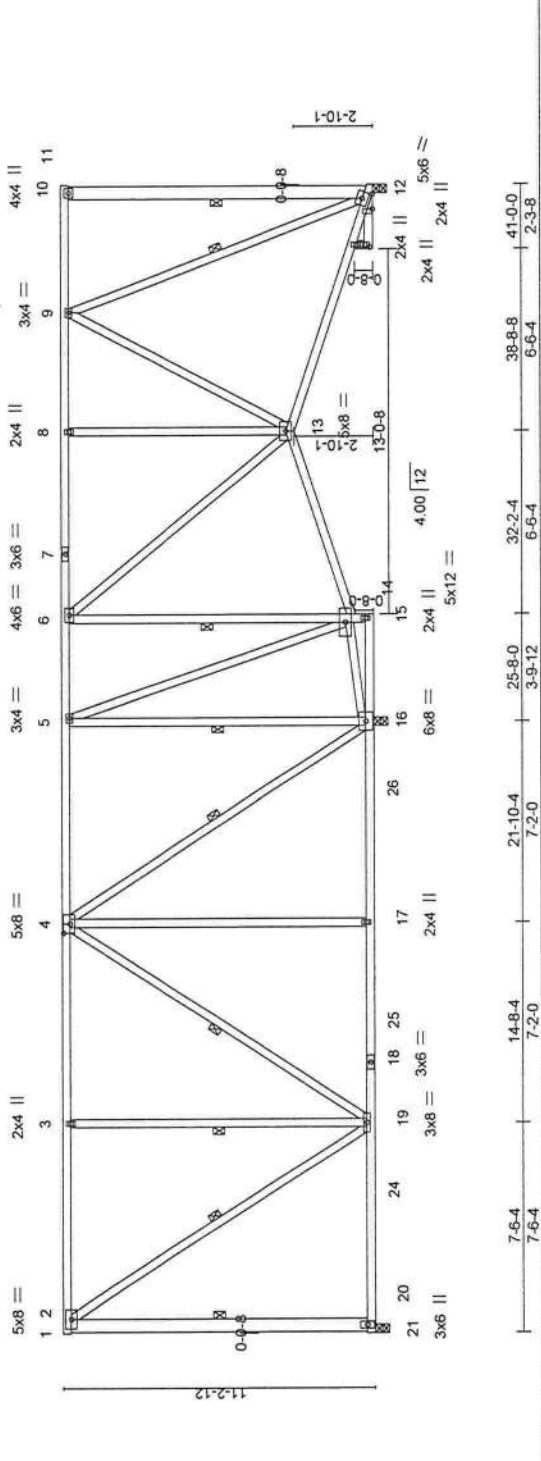
1) Dead + Roof Live (balanced). Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=14, 2-3=54, 3-28=204(f=150), 10-28=54, 10-11=14, 12-27=20

Concentrated Loads (lb)

Vert: 29=600(B) 31=600(B) 32=600(B) 33=600(B) 34=600(B) 35=600(B) 36=600(B) 37=600(B) 38=600(B) 39=600(B) 40=600(B) 41=302(B) 42=302(B) 43=302(B) 44=585(B) 45=585(B) 46=585(B) 47=585(B) 48=585(B) 50=585(B)



LOADING (psf)		SPACING		CSL		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.50	Vert(LL)	-0.19	12-13	>999	240				MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.39	12-13	>591	180							
BCLL	0.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	-0.04	12	n/a	n/a							
BCDL	10.0	Code FBC2020/TP12014		Matrix-MS													

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No 2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No 2 *Except*	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS	6-15, 12-22: 2x4 SP No.3	WEBS	1 Row at midpt
	2-20, 10-12: 2x6 SP No.2, 2-19, 4-19, 4-16: 2x4 SP No.2		2-20, 10-12, 2-19, 3-19, 4-19, 4-16, 5-16, 9-12

REACTIONS.	
(size)	20=0-3-8, 12=0-3-8, 16=0-3-8
Max Horz	20=509(LC 10)
Max Uplift	20=462(LC 8), 12=307(LC 9), 16=915(LC 9)
Max Grav	20=852(LC 2), 12=619(LC 2), 16=1950(LC 2)

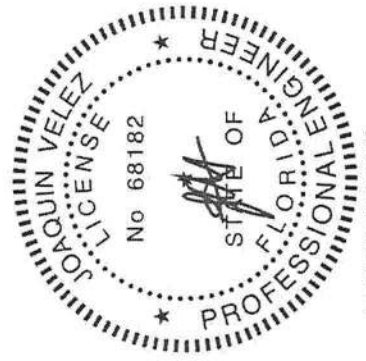
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-20=-677/615, 2-3=-371/322, 3-4=-371/322, 6-8=-325/338, 8-9=-325/338

BOT CHORD 19-20=-504/526, 17-19=-408/423, 16-17=-408/423, 6-14=-577/495, 13-14=-255/237, 12-13=-302/328

WEBS 2-19=-536/627, 3-19=-403/423, 4-19=-257/268, 4-17=0/418, 4-16=-931/680, 5-16=-905/702, 14-16=-297/375, 5-14=-433/689, 6-13=-295/448, 8-13=-322/338, 9-13=-214/300, 9-12=-485/472

- NOTES-
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Endl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 4-0-0, Exterior(2) 4-0-0 to 37-0-0, Corner(3) 37-0-0 to 41-0-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) Bearing at joint(s) 12 considers parallel to grain value using ANSIT/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 20=462, 12=307, 16=915.



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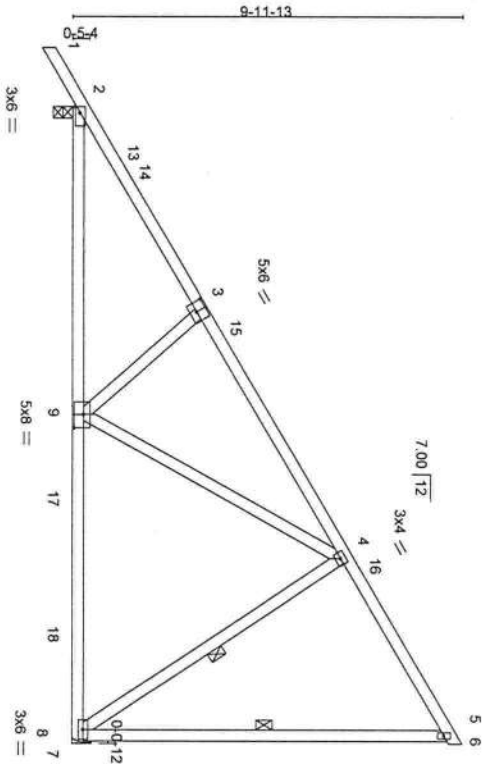


Plate Offsets (X, Y) - [3-0-3-0, 0-3-0], [9-0-4-0, 0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.53	Vert(L) -0.22	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.84	Vert(CT) -0.33		
BCDL 0.0	Rep Stress Incr	NO	WB 0.25	Horz(CT) 0.01		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS	8 n/a	Weight: 98 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 8=Mechanical
 Max Horz 2=420(LC 12)
 Max Uplift 2=-249(LC 12), 8=-295(LC 12)
 Max Grav 2=942(LC 19), 8=850(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1143/177, 3-4=-884/130
 BOT CHORD 2-9=-444/1017, 8-9=-168/402
 WEBS 3-9=-396/287, 4-9=-199/758, 4-8=-708/304

- NOTES.**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 16-4-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 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 (if=lb) 2-2-49, 8=295.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 157 lb down and 72 lb up at 2-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (psf)
 Vert: 1-5=-54, 5-6=-14, 7-10=20

Concentrated Loads (lb)
 Vert: 14=-150

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-10-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-7-12 oc bracing.
 WEBS 1 Row at midpt 5-8, 4-8



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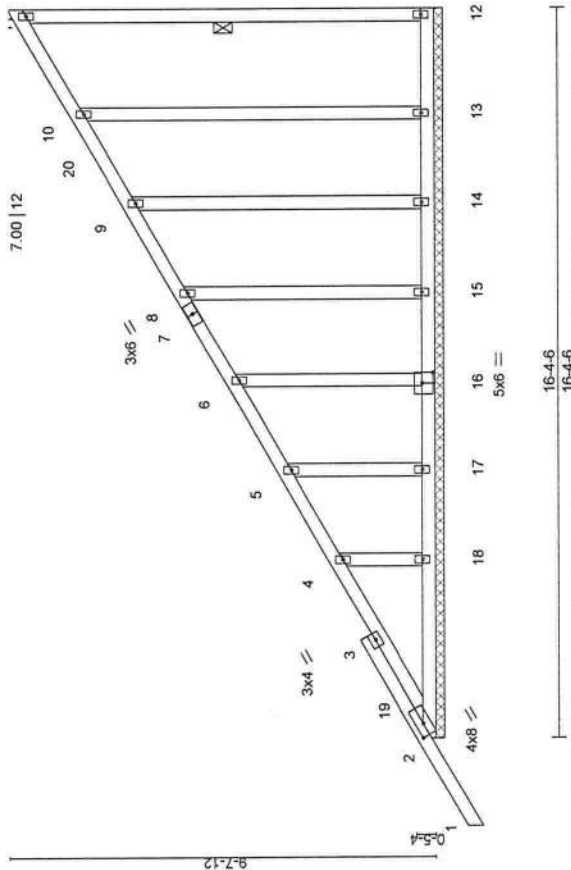


Plate Offsets (X,Y) - [2-0-3-7-0-1-15], [16-0-3-0-0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCCL 20.0	Plate Grip DOL 1.25	TC 0.36	Vert(LL) 1	0.01	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.10	Vert(CT) 1	0.01	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 16	0.00	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-S						

Weight: 116 lb FT = 20%

LUMBER-

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

REACTIONS.

All bearings 16-4-6.
(lb) - Max Horz 2=504(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 18=116(LC 12), 17=103(LC 12), 16=106(LC 12), 15=105(LC 12), 14=101(LC 12), 13=120(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 12, 17, 16, 15, 14, 13 except 2=266(LC 1), 18=257(LC 19)

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

TOP CHORD 2-4=-559/285, 4-5=-461/215, 5-6=-387/184, 6-8=-306/142

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 16-2-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 12 except (l=lb) 18=116, 17=103, 16=106, 15=105, 14=101, 13=120.



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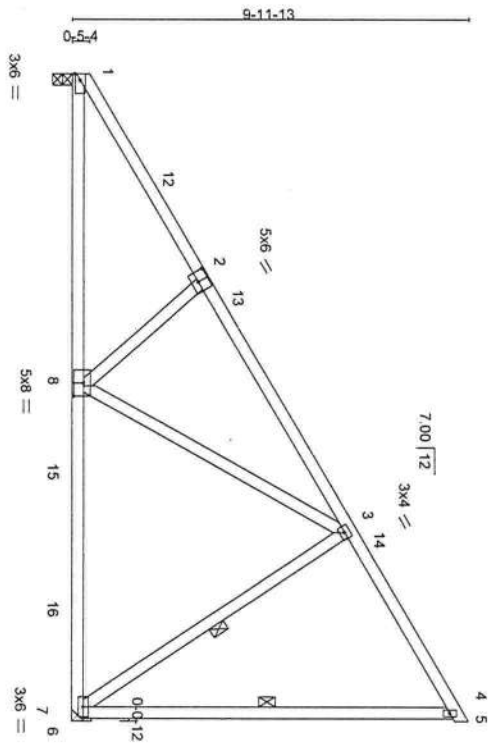


Plate Offsets (X,Y) - [2:0-3:0,0-3:0],[8:0-4:0,0-3:0]

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.50	Ver(1L) -0.22	MT20	244/190
TCCL 7.0	Lumber DOL 1.25	BC 0.77	Ver(CT) -0.35		
BCCL 0.0	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.01		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS			
				Weight: 95 lb	FT = 20%

LUMBER-	2x4 SP No.2	BRACING-	TOP CHORD	Structural wood sheathing directly applied or 5-7-13 oc purlins, except end verticals.
TOP CHORD	2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 8-11-3 oc bracing.
WEBS	2x4 SP No.3		WEBS	1 Row at midpt
				4-7, 3-7

REACTIONS.	(size)	1=0-3-8, 7=Mechanical
	Max Horz	1=363(LC 12)
	Max Uplift	1=-131(LC 12), 7=289(LC 12)
	Max Grav	1=722(LC 19), 7=835(LC 19)

FORCES.	(lb)	- Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1005/135, 2,3=-851/119	
BOT CHORD	1-8=-420/955, 7-8=-164/392	
WEBS	2-8=-346/268, 3-8=-184/714, 3-7=-688/297	

- NOTES-
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; Encl. GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-4-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 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 (1)=lb



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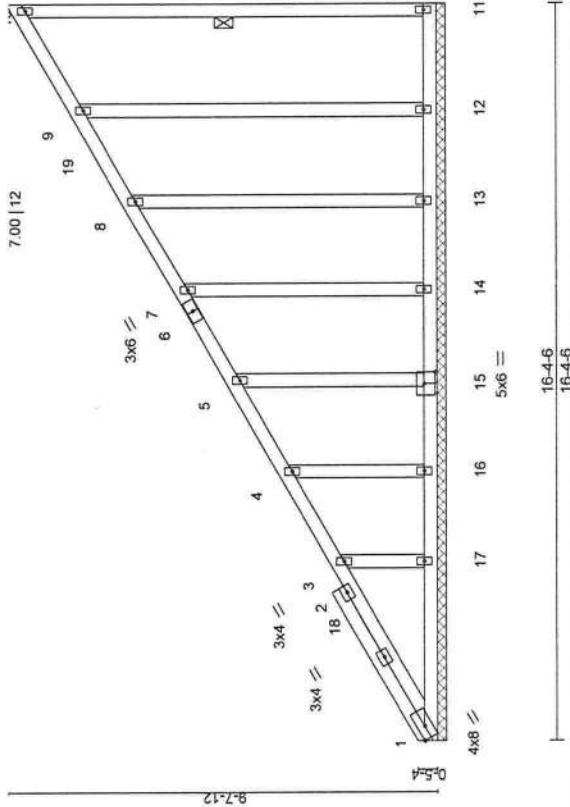


Plate Offsets (X,Y) = [1' Edge, 0.1-1.5], [15'-0.3-0.0-3-0]

LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.11	Vert(LL) 999	n/a	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.11	Vert(CT) 999	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) n/a	0.00	15	n/a		
BCDL 10.0	Code FBC2020/TP12014	Matrix-S						

LUMBER-	2x4 SP No.2	BRACING-	Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
TOP CHORD	2x4 SP No.2	TOP CHORD	Rigid ceiling directly applied or 6'-0" oc bracing.
BOT CHORD	2x4 SP No.3	BOT CHORD	1 Row at midpt
WEBS	2x4 SP No.3	WEBS	10-11
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 16'-4-6.
(lb) - Max Horz 1=460(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 11, 16 except 17=149(LC 12), 15=108(LC 12), 14=105(LC 12), 13=102(LC 12), 12=121(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 11, 1, 16, 15, 14, 13, 12 except 17=287(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-567/281, 3-4=-458/214, 4-5=-388/183, 5-7=-306/142

- NOTES-
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cal. II; Exp C; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 16-2-10 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/TP1 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2'-0" oc.
 - 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.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 16 except (j)=lb) 17=149, 15=108, 14=105, 13=102, 12=121.



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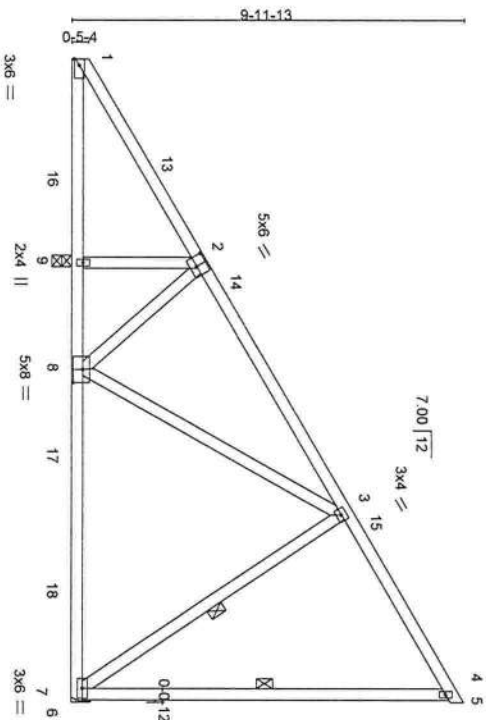


Plate Offsets (X,Y) - [2:0-3:0,0-3:0],[8:0-4:0,0-3:0]

LOADING (psf)	SPACING	2-0-0	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50	Ver(1L)	MT20	244/190
TCCL 7.0	Lumber DOL	1.25	BC 0.72	Ver(CT)		
BCCL 0.0	Rep Stress Incr	YES	WB 0.22	Horz(CT)		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS			
					Weight: 100 lb	FT = 20%

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

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

REACTIONS. (size) 9=0-3-8, 7=Mechanical
 Max Horiz 9=383(LC 12)
 Max Uplift 9=-194(LC 12), 7=236(LC 14)
 Max Grav 9=961(LC 2), 7=515(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-372/383
 BOT CHORD 1-9=-266/361, 8-9=-329/66
 WEBS 2-9=-914/302, 2-8=-205/19, 3-7=-302/227

- NOTES.**
- 1) Wind: ASCE 7-16; Valt=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-4-6 zone; cantilever left exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 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 (I=lb) 9=194, 7=236.



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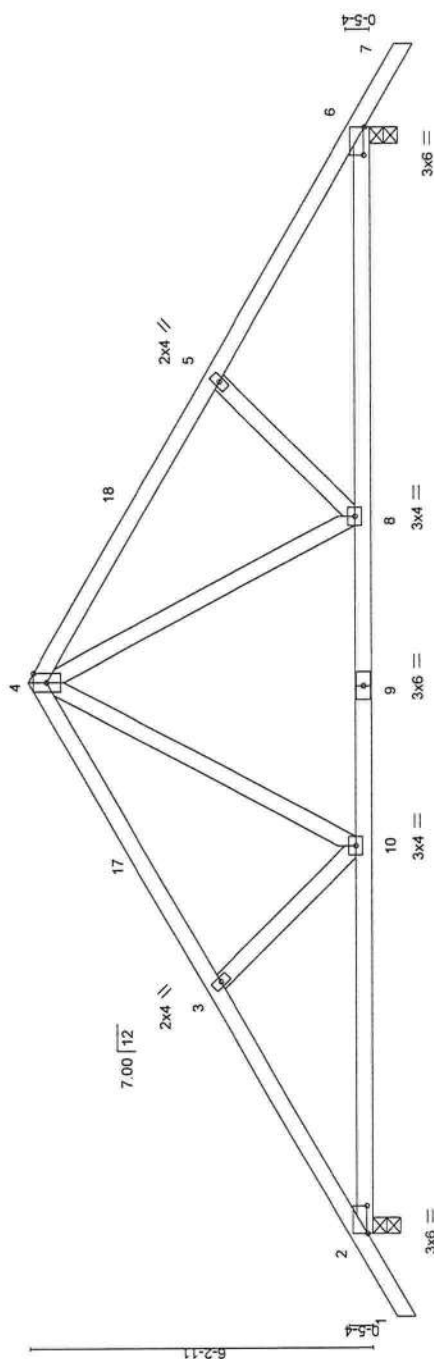


Plate Offsets (X,Y)–

6-11-12	12-10-4	19-10-0
6-11-12	5-10-8	6-11-12

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	0.12 10-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.11 10-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.02 6	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS						

Weight: 98 lb FT = 20%

LUMBER-
BRACING-

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

Structural wood sheathing directly applied or 5-4-3 oc purlins.
Rigid ceiling directly applied or 5-3-12 oc bracing.

Weight: 98 lb
FT = 20%

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=212(LC 10)
Max Uplift 2=331(LC 12), 6=8
Max Grav 2=815(LC 1) 6=8

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

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

TOP CHORD 2-3=-1134/1309, 3-4=-966/1277, 4-5=-966/1278, 5-6=-1134/1310

BOT CHORD $2-10=-1047/939$, $8-10=-613/615$, $6-8=-1062/939$

WEBS
4-8=-633/354, 5-8=-290/275, 4-10=-632/354, 3-10=-290/274

NOTES-

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

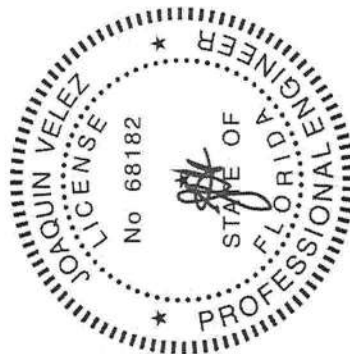
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=107mph; TCDF=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1.6 to 1.6, Interior(1) 1.6 to 1.6, Exterior(2R) 9.1 to 12.1, Interior(1) 12.1 to 12.1; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j)=ib)
2=331, 6=331.



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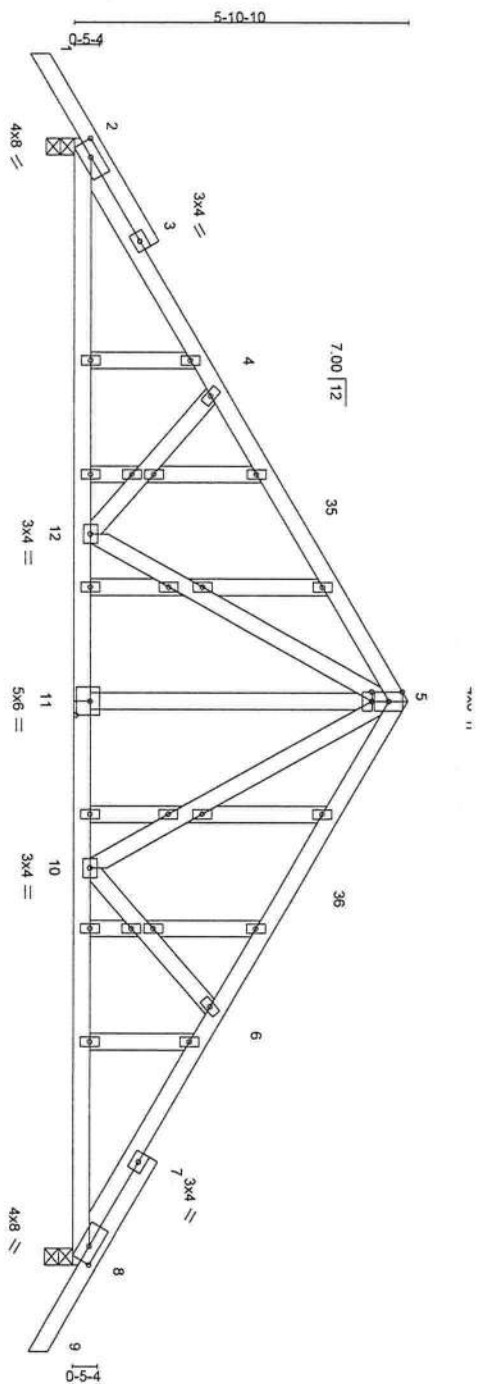


Plate Offsets (X,Y) -- [2:0-3-7-0-1-15], [5:0-2-0-0-0-0], [8:0-3-7-0-1-15], [11:0-3-0-0-3-0]									
6-11-12 6-11-12 12-10-4 5-10-8 19-10-0 6-11-12									
LOADING (psf)	SPACING-	CSL		DEFL.	PLATES		GRIP		
TCLL 20.0	Plate Grip DOL	TC	0.61	in (loc)	L/d	MT20	244/190		
TCCL 7.0	Lumber DOL	BC	0.41	Ver(1L)	>999				
BCLL 0.0 *	Rep Stress Incr	WB	0.52	Ver(CT)	>999	180			
BCDL 10.0	Code FBC2020/PI2014			Horz(CT)	n/a	n/a			
		Matrix-MS							
						Weight: 136 lb	FT = 20%		

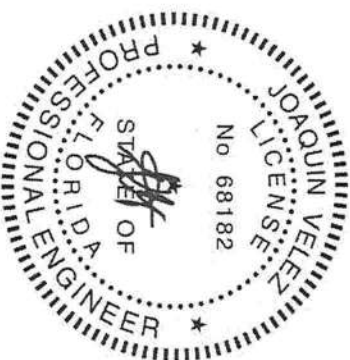
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-1-1 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horiz 2=201(LC 10)
 Max Uplift 2=334(LC 12), 8=334(LC 13)
 Max Grav 2=812(LC 1), 8=812(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1183/1405, 4-5=-1015/1334, 5-6=-1015/1334, 6-8=-1183/1405
 BOT CHORD 2-12=-1173/1033, 10-12=-638/630, 8-10=-1190/1033
 WEBS 5-10=-678/384, 6-10=-326/322, 5-12=-678/384, 4-12=-326/322

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16: Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCP=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-11-0 to 12-11-0, Interior(1) 12-11-0 to 21-4-0 zone; porch left and right exposed; C-C for members and forces & MMFRS 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/PT 1.
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=334, 8=334.



Joaquin Velez PE No.68182
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 Date:

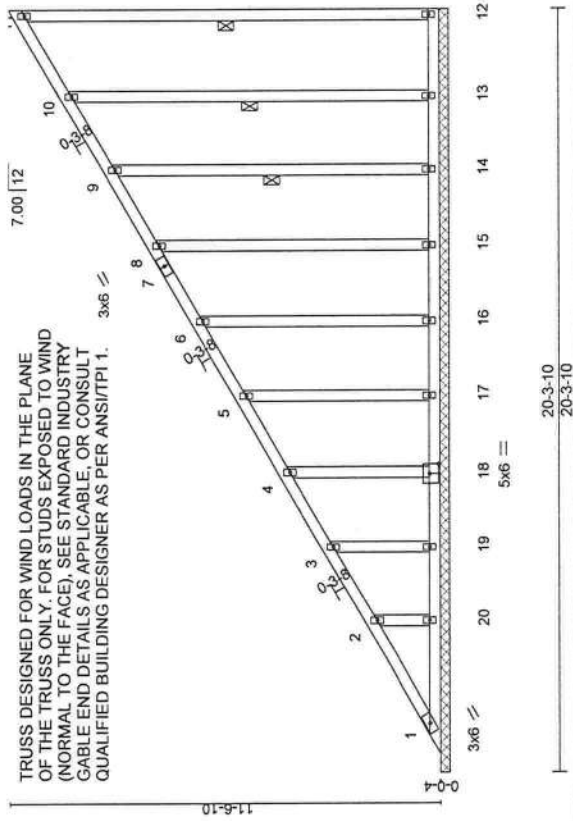


Plate Offsets (X,Y) -		[18.0-3.0-0.3-0]	
LOADING (psf)	SPACING	2-0-0	
TCLL 20.0	Plate Grip DOL	1.25	
TCDL 7.0	Lumber DOL	1.25	
BCLL 0.0 *	Rep Stress Incr	YES	
BCDL 10.0	Code FBC2020/TPI2014		
LUMBER-			
TOP CHORD	2x4 SP No.2		
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		
REACTIONS.			
(lb) - Max Horz 1=555(LC 12)			
Max Uplift All uplift 100 lb or less at joint(s) 12, 1, 19 except 20=-159(LC 12), 18=-109(LC 12), 17=-104(LC 12), 16=-105(LC 12), 15=-105(LC 12), 14=-103(LC 12), 13=-118(LC 12)			
Max Grav All reactions 250 lb or less at joint(s) 12, 20, 19, 18, 17, 16, 15, 14, 13 except 1=261(LC 12)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD 1-2=-604/339, 2-3=-508/279, 3-4=-449/250, 4-5=-378/210, 5-6=-311/174			

LOADING (psf)	SPACING	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	18	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						
LUMBER-				BRACING-					
TOP CHORD	2x4 SP No.2			TOP CHORD					
BOT CHORD	2x4 SP No.2			BOT CHORD					
WEBS	2x4 SP No.3			WEBS					
OTHERS	2x4 SP No.3								
REACTIONS.				Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.					
(lb) - Max Horz 1=555(LC 12)				Rigid ceiling directly applied or 6-0-0 oc bracing.					
Max Uplift All uplift 100 lb or less at joint(s) 12, 1, 19 except 20=-159(LC 12), 18=-109(LC 12), 17=-104(LC 12), 16=-105(LC 12), 15=-105(LC 12), 14=-103(LC 12), 13=-118(LC 12)				1 Row at midpt					
Max Grav All reactions 250 lb or less at joint(s) 12, 20, 19, 18, 17, 16, 15, 14, 13 except 1=261(LC 12)									
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.									
TOP CHORD 1-2=-604/339, 2-3=-508/279, 3-4=-449/250, 4-5=-378/210, 5-6=-311/174									

Weight: 145 lb FT = 20%

BRACING-
TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
Rigid ceiling directly applied or 6-0-0 oc bracing.
1 Row at midpt

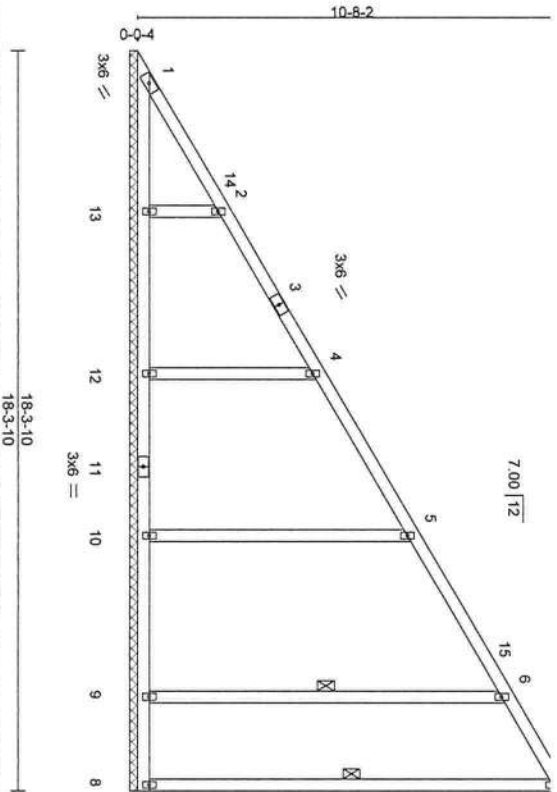
RECTIONS.
(lb) - Max Horz 1=555(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 12, 1, 19 except 20=-159(LC 12), 18=-109(LC 12), 17=-104(LC 12), 16=-105(LC 12), 15=-105(LC 12), 14=-103(LC 12), 13=-118(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 12, 20, 19, 18, 17, 16, 15, 14, 13 except 1=261(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-604/339, 2-3=-508/279, 3-4=-449/250, 4-5=-378/210, 5-6=-311/174

- NOTES-
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-0-8 to 4-0-0, Interior(1) 4-0-0 to 20-1-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 1, 19 except (j=lb) 20=-159, 18=-109, 17=-104, 16=-105, 15=-105, 14=-103, 13=-118.



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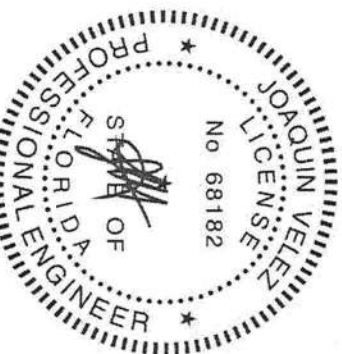
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.16	Vert(L) n/a	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.18	Vert(CT) n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.22	Horz(CT) -0.00		
BCDL 10.0	Code FBC2020/TP12014	Matrix-S		Weight: 104 lb	FT = 20%

LUMBER-	2x4 SP No.2	BRACING-	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
TOP CHORD	2x4 SP No.2	TOP CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD	2x4 SP No.3	BOT CHORD	1 Row at midpt
WEBS	2x4 SP No.3	WEBS	7-8, 6-9
OTHERS			

REACTIONS. All bearings 18-3-10.
 (lb) - Max Horiz 1=511(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 1 except 13=218(LC 12), 12=206(LC 12), 10=217(LC 12), 9=178(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 8, 1 except 13=401(LC 19), 12=411(LC 19), 10=468(LC 19), 9=365(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-550/311, 2-4=-416/236, 4-5=-283/164
 WEBS 2-13=-255/236, 5-10=-256/241

- NOTES-**
- 1) Wind: ASCE 7-16; Valt=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=20ft; Cat. II; Exp. C; Encl. GC(p)=0.18; MMFRS (envelope) gable end zone and C-C Exterior(ZE) 0-6-8 to 3-6-8, Interior(I) 3-6-8 to 18-1-14 zone-C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 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) 8, 1 except (I=lb) 13=218, 12=206, 10=217, 9=178.



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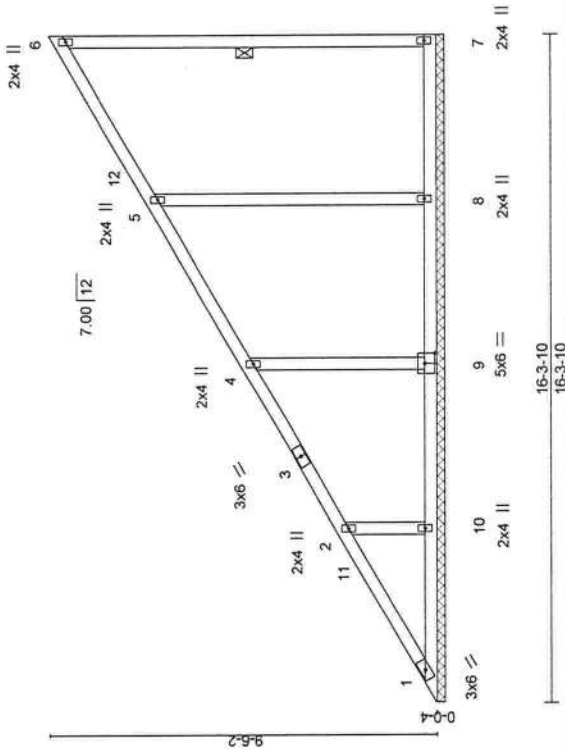


Plate Offsets (X,Y) -		[9.0-3.0, 0.3-0]	
LOADING (psf)	SPACING-	2-0-0	
TCLL 20.0	Plate Grip DOL	1.25	
TCDL 7.0	Lumber DOL	1.25	
BCLL 0.0 *	Rep Stress Incr	YES	
BCDL 10.0	Code FBC2020/TP12014		
LUMBER-			
TOP CHORD	2x4 SP No.2		
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		
BRACING-			
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.		
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
WEBS	1 Row at midpt 6-7		
PLATES		MT20	GRIP 244/190
Weight:		84 lb	FT = 20%

DEFL.	in (loc)	I/defl	L/d
Vert(LL)	n/a	n/a	999
Vert(CT)	n/a	n/a	999
Horz(CT)	0.00	7	n/a
CSL			
TC	0.17		
BC	0.19		
WB	0.24		
Matrix-S			
RECTIONS. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
(lb) - Max Horz 1=453(LC 12)			
Max Uplift All uplift 100 lb or less at joint(s) 7, 1 except 8=226(LC 12), 9=201(LC 12), 10=229(LC 12)			
Max Grav All reactions 250 lb or less at joint(s) 7, 1 except 8=491(LC 19), 9=400(LC 19), 10=422(LC 19)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD 1-2=476/279, 2-4=336/196			
WEBS 5-8=269/253, 2-10=268/247			

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 16-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

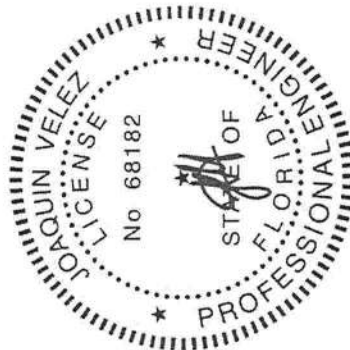
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

3) Gable requires continuous bottom chord bearing.

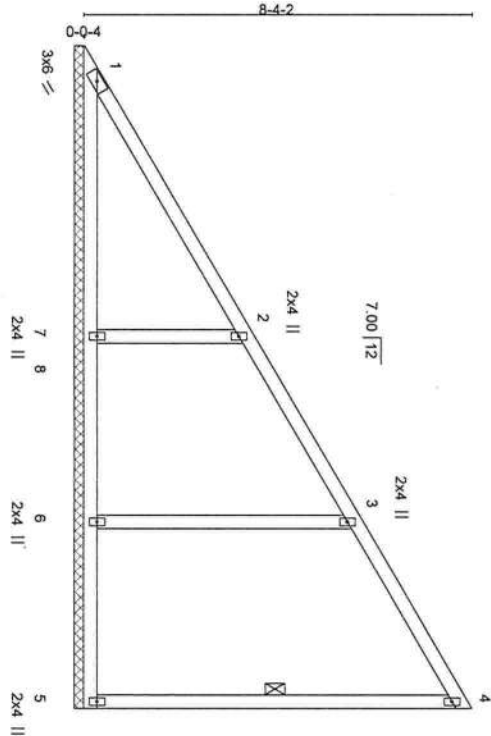
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1 except (jt=lb) 8=226, 9=201, 10=229.



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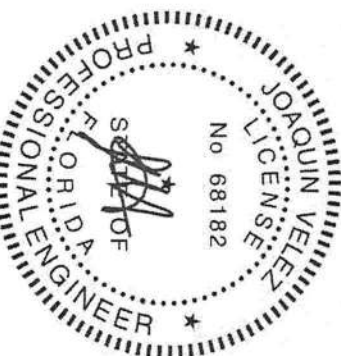
LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.36	in (loc)	MT20	244/190
TCCL 7.0	Lumber DOL 1.25	BC 0.26	n/a		
BCCL 0.0	Rep Stress Incr YES	WB 0.14	n/a		
BCDL 10.0	Code FBC2020/PT12014	Matrix-S	0.00	Weight: 69 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No. 2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No. 2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No. 3	WEBS 1 Row at midpt 4-5

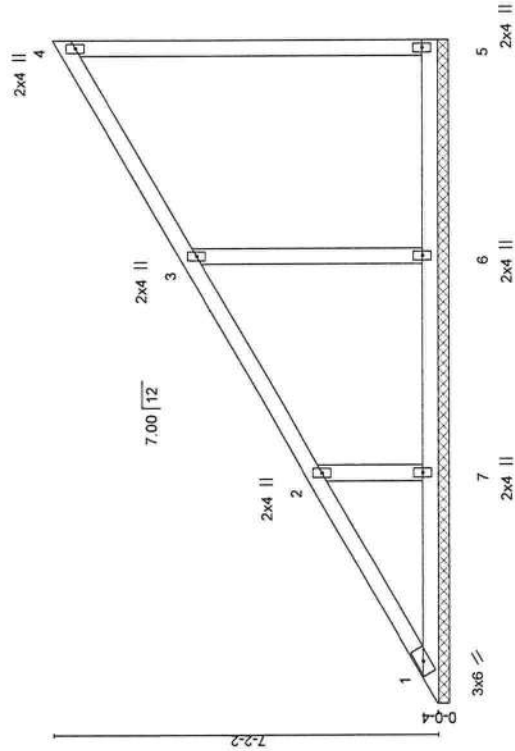
REACTIONS. All bearings 14-3-3.
 (lb) - Max Horiz. 1=395(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=189(LC 12), 7=309(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=421(LC 19), 7=588(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=379/243
WEBS 2-7=356/325

- NOTES-**
- Wind: ASCE 7-16; Valt=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; n=20ft; Cat. II; Exp. C; Encl., GCPI=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 14-1-14 zone, C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (l=lb) 6=189, 7=309.



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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.16	Vert(LL) n/a	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.16	Vert(CT) -	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00	5	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					

LUMBER-	BRACING-	Weight: 58 lb	FT = 20%
TOP CHORD 2x4 SP No.2	TOP CHORD		
BOT CHORD 2x4 SP No.2	BOT CHORD		
WEBS 2x4 SP No.3			
OTHERS 2x4 SP No.3			

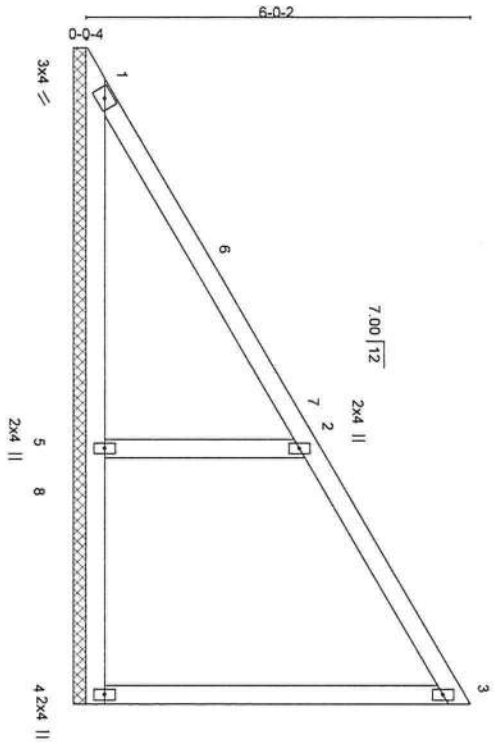
REACTIONS. All bearings 12-3-3.
(lb) - Max Horz 1=337(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=220(LC 12), 7=225(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=444(LC 19), 7=411(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=348/228
WEBS 3-6=263/255, 2-7=262/248

- NOTES-
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 12-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (j=i=b) 6=220, 7=225.



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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.36	in (loc)	MT20	244/190
TCCL 7.0	Lumber DOL 1.25	BC 0.27	n/a		
BCCL 0.0	Rep Stress Incr YES	WB 0.10	Vert(CT) n/a		
BCDL 10.0	Code FBC2020/PT2014	Matrix-S	Horz(CT) 0.00	Weight: 45 lb	FT = 20%

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

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

REACTIONS. (size) 1=10-3-3, 4=10-3-3, 5=10-3-3
 Max Horiz 1=242(LC 12)
 Max Uplift 4=-36(LC 14), 5=-272(LC 12)
 Max Grav 1=185(LC 20), 4=134(LC 19), 5=620(LC 19)

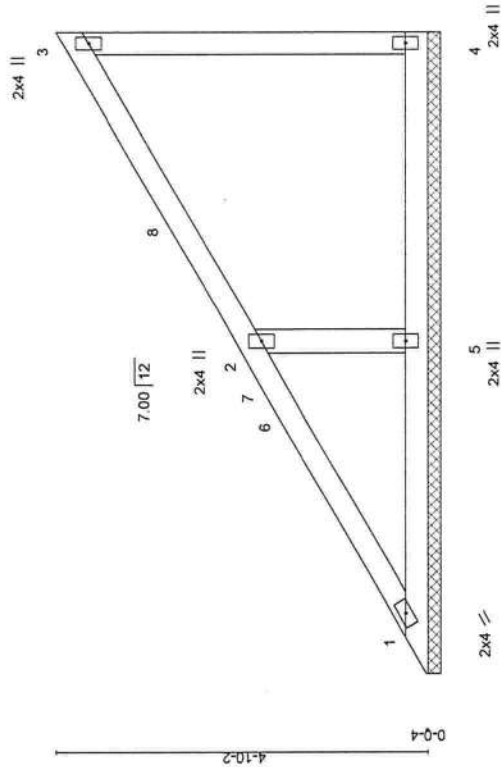
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-5=-373/329

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vastd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCP=0.18; MMFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 10-1-14 zone; C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 (all 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) 4 except (I=lb) S-272.



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LOADING (psf)	SPACING	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.18	Vert(LL) n/a	n/a	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.14	Vert(CT) n/a	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S						

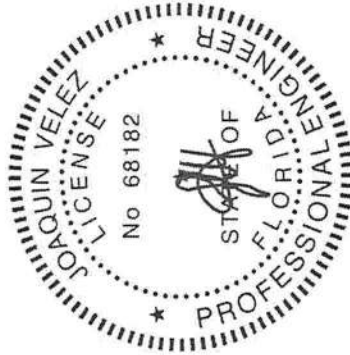
Weight: 35 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

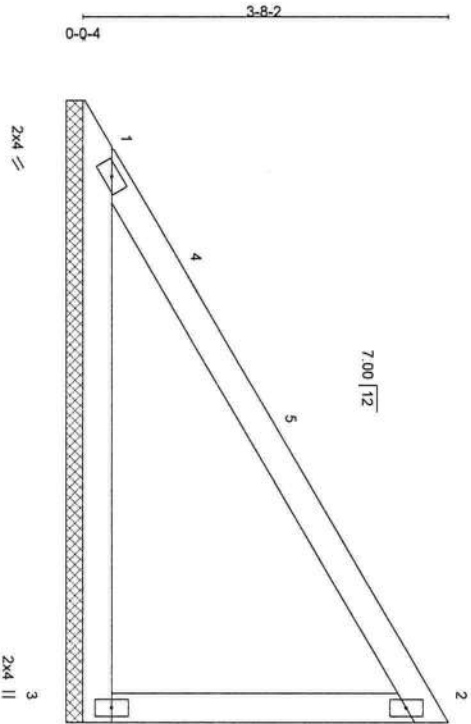
REACTIONS.	(size)
Max Horiz 1=202(LC 12)	1=8-3-3, 4=8-3-3, 5=8-3-3
Max Uplift 4=50(LC 12), 5=227(LC 12)	
Max Grav 1=108(LC 1), 4=125(LC 19), 5=380(LC 19)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-282/283

- NOTES-
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0.6-8 to 3-6-8, Interior(1) 3-6-8 to 8-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 4 except (jt=lb) 5=227.



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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(L)	n/a	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	n/a	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-P					Weight: 24 lb	FT = 20%

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

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

REACTIONS. (size) 1=6-3-3, 3=6-3-3
 Max Horiz 1=163(LC 12)
 Max Uplift 1=52(LC 12), 3=147(LC 12)
 Max Grav 1=208(LC 1), 3=230(LC 19)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=20ft, Cat. II; Exp C; Encl, GCp=0.18, MMFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 6-1-14 zone;C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 tail 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) 1 except (if=lb) 3=147.



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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.15	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incl YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P						Weight: 16 lb	FT = 20%

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

(size) 1=4-3-3, 3=4-3-3
Max Horz 1=105(LC 12)

Max Uplift 1=-33/(LC 12). 3=-95/(LC 12)

Max Grav 1=134(LC 1), 3=148(LC 19)

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

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCCL=3.0psf, h=20ft; Cat. II; Exp C; End.; Gcpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0.6-8 to 3-6-8, interior(1) 3-6-8 to 4-1-14 zone, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grid DOL=1.60

2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

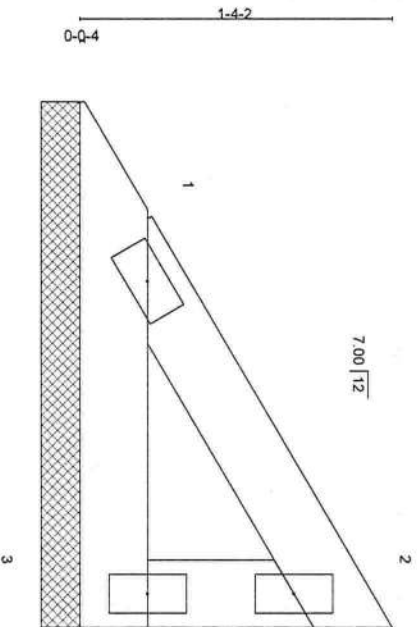
3) Gable requires continuous bottom chord bearing.

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) 1, 3.





LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.05	in (loc)	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(LL)		
BCDL 0.0	Rep Stress Incr	YES	WB 0.00	Vert(CT)		
BCDL 10.0	Code FBC2020/TP12014		Matrix-P	Horz(CT)		
					Weight: 7 lb	FT = 20%

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

REACTIONS. (size) 1=2-3-3, 3=2-3-3
 Max Horiz 1=47(LC 12)
 Max Uplift 1=-15(LC 12), 3=-42(LC 12)
 Max Grav 1=60(LC 1), 3=66(LC 19)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft. Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- 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) 1, 3.

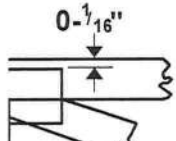


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Plates

LOCATION AND ORIENTATION


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


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


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

Additional details available in MiTek 20/20 or upon request.

Plating


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

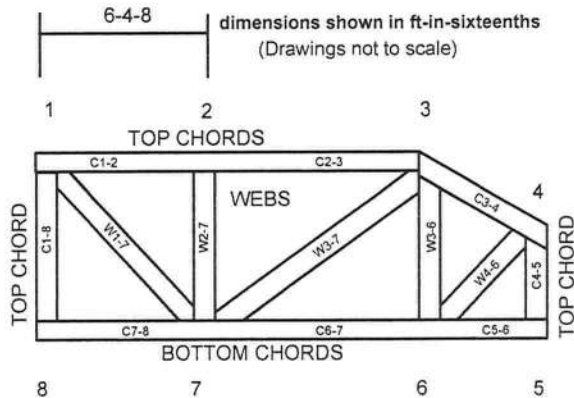
BRACING LOCATION


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


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

Standards:
 National Design Specification for Metal Plate Connected Wood Truss Construction.
 Design Standard for Bracing.
 Building Component Safety Information,
 Guide to Good Practice for Handling,
 Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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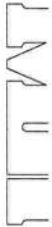


MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety

Failure to Follow Could Cause Property Damage or Personal Injury

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



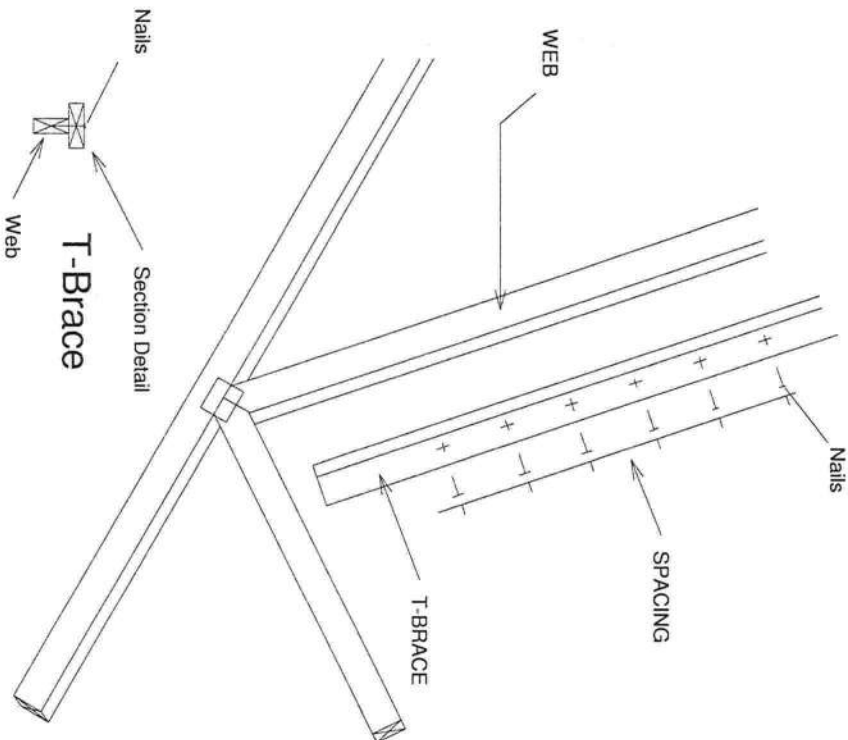
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Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.

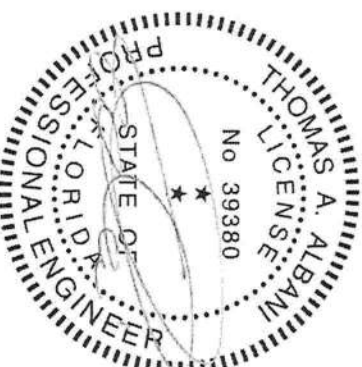
Note: Nail along entire length of T-Brace / I-Brace (On Two-Plys Nail to Both Plies)



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

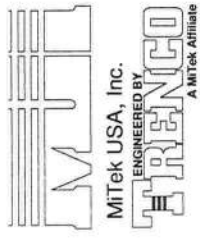
Brace Size for Two-Ply Truss		
Specified Continuous Rows of Lateral Bracing		
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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



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Date:

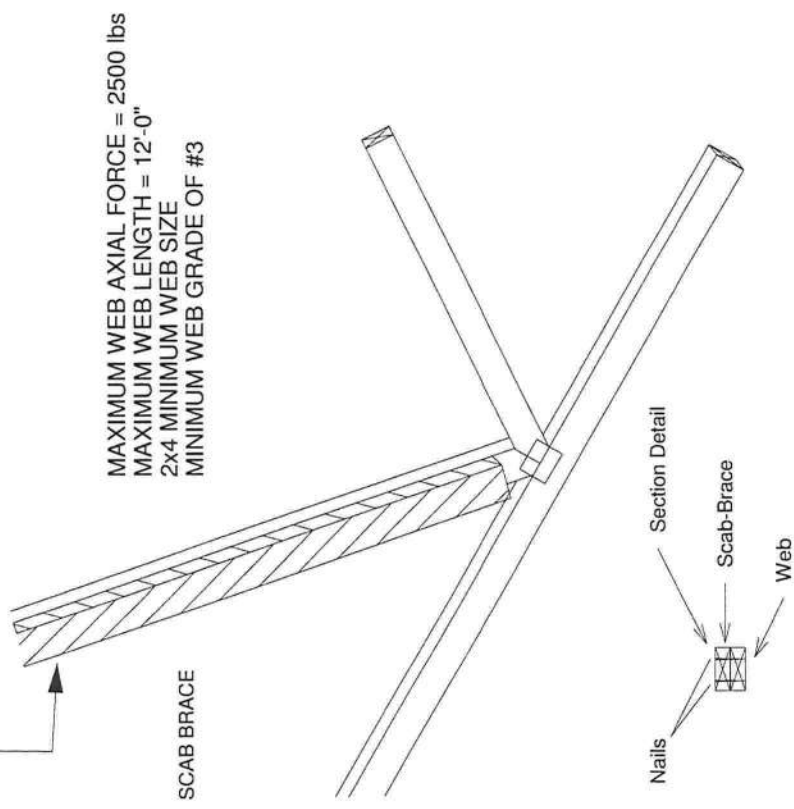
February 12, 2018



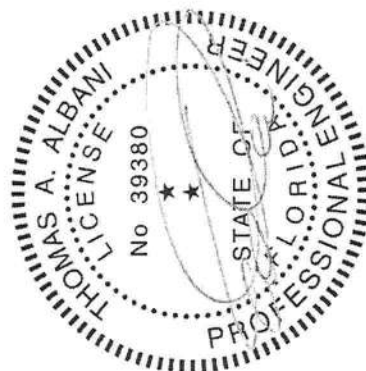
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APPLICABLE 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
SPECIES (OR BETTER) AS THE WEB.



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

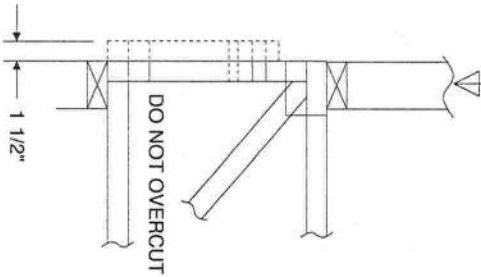


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6904 Parke East Blvd. Tampa FL 33610
Date: February 12, 2018



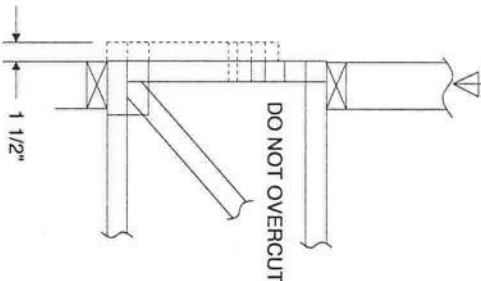
- OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR 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.

500# MAXIMUM WALL
LOAD FROM ABOVE



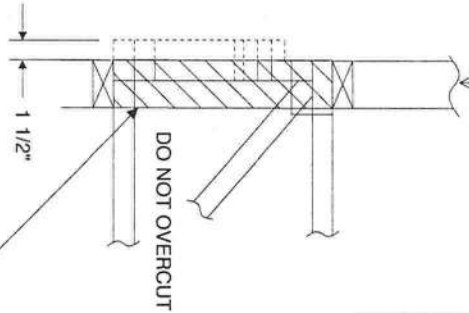
REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES

500# MAXIMUM WALL
LOAD FROM ABOVE



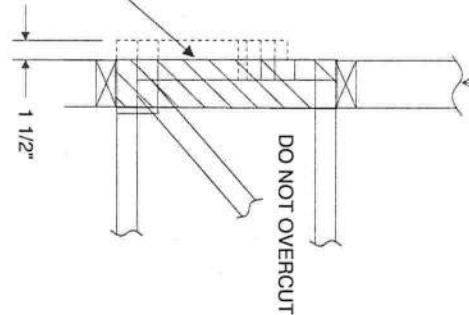
TRUSSES BUILT
WITH 4x2 MEMBERS

4000# MAXIMUM WALL
LOAD FROM ABOVE



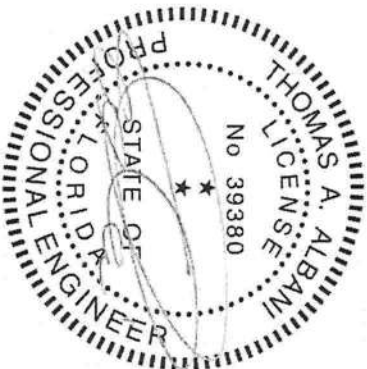
REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES

4000# MAXIMUM WALL
LOAD FROM ABOVE

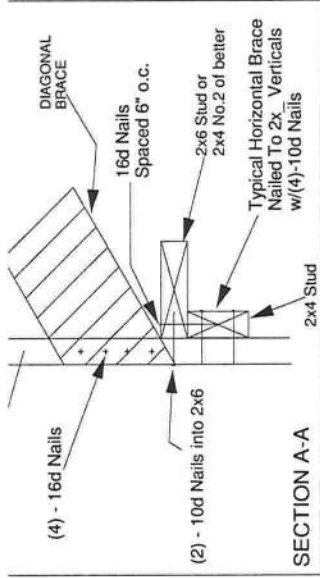
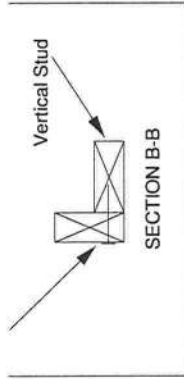
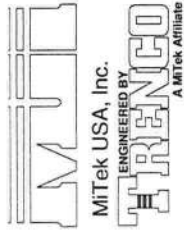


TRUSSES BUILT
WITH 4x2 MEMBERS

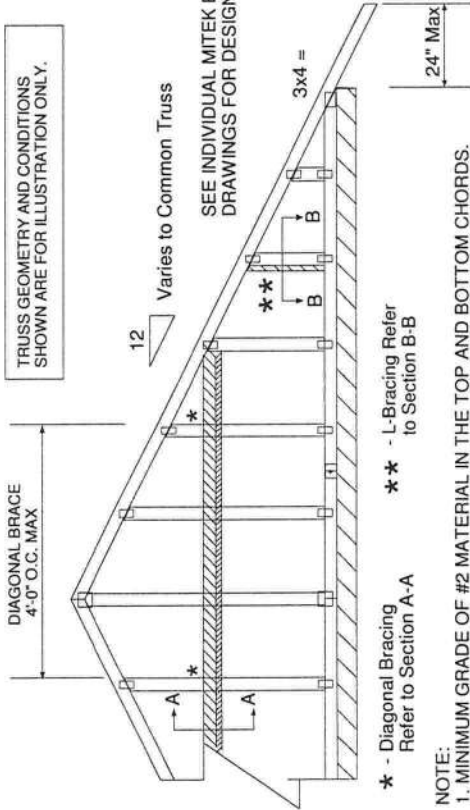
ATTACH 2x4 SQUASH BLOCK (CUT TO FIT TIGHTLY)
TO BOTH SIDES OF THE TRUSS AS SHOWN WITH
10d (0.131" X 3") NAILS SPACED 3" O.C.



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P-1456



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.



Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

★ - Diagonal Bracing Refer to Section A-A
★★ - L-Bracing Refer to Section B-B

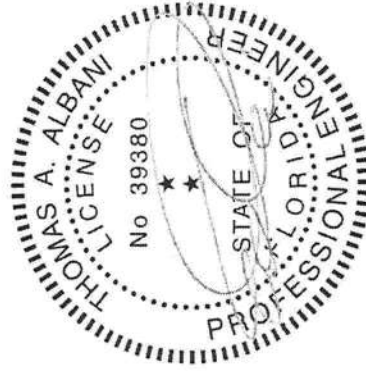
NOTE:

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")

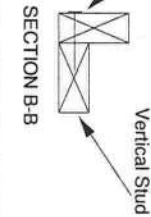
Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	Maximum Stud Length			2 DIAGONAL BRACES AT 1/3 POINTS
			1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud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

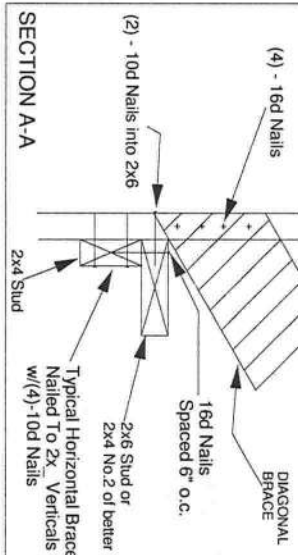
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING



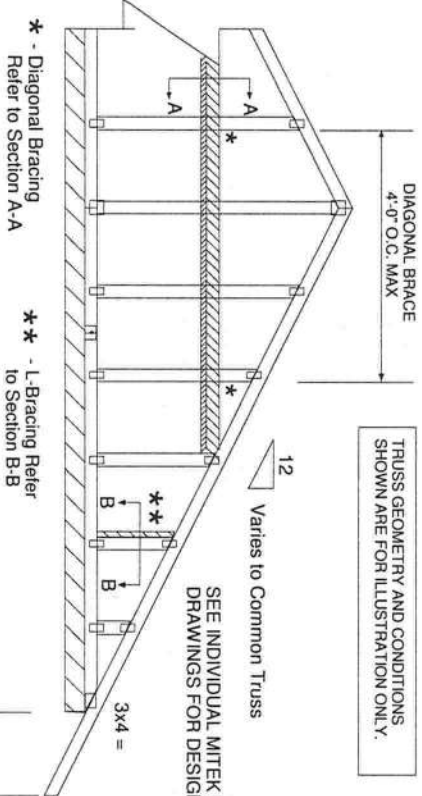
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TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.



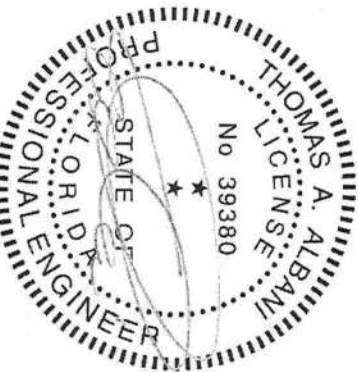
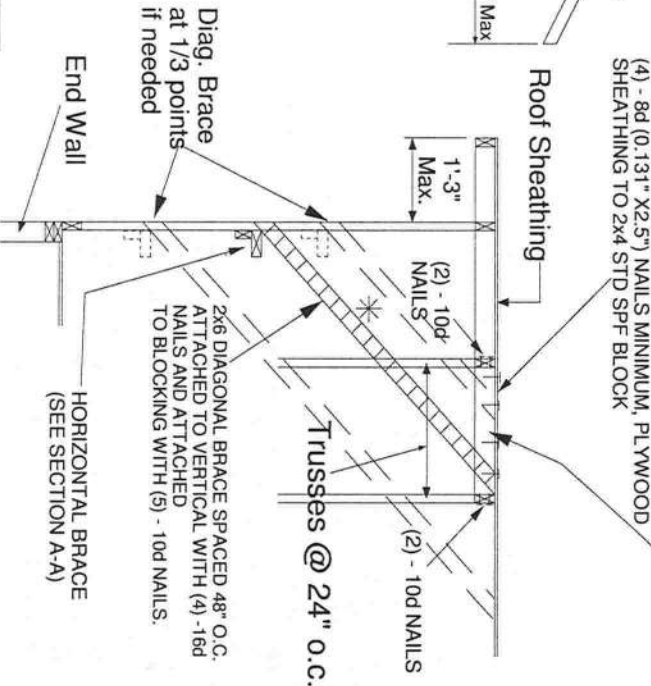
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.



- 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 U/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 SPB/LSC.
 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	Maximum Stud Length			
		Without L-Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5
					2 DIAGONAL BRACES AT 1/3 POINTS

* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 L-braces attached to both edges. Fasten T and L 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.

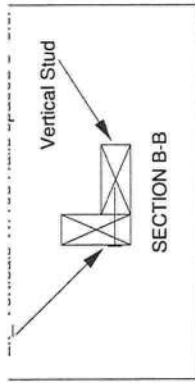




MITek USA, Inc.



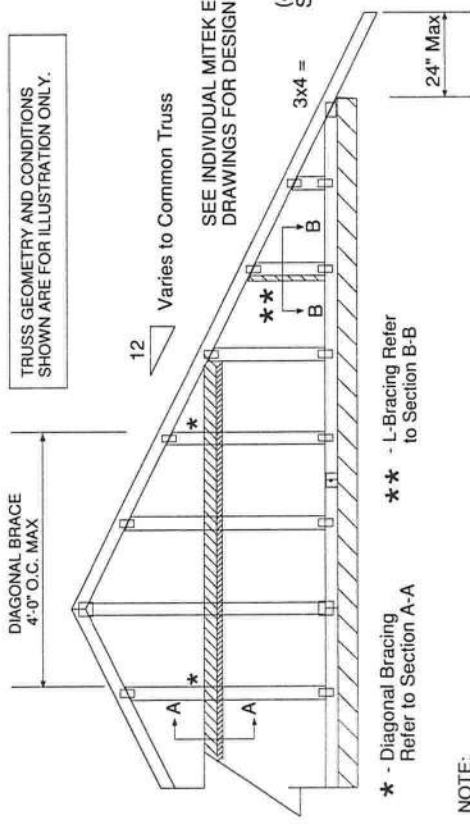
A MITek Affiliate



SECTION B-B

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

DIAGONAL BRACE
4'-0" O.C. MAX



* - Diagonal Bracing Refer to Section A-A

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

12

Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

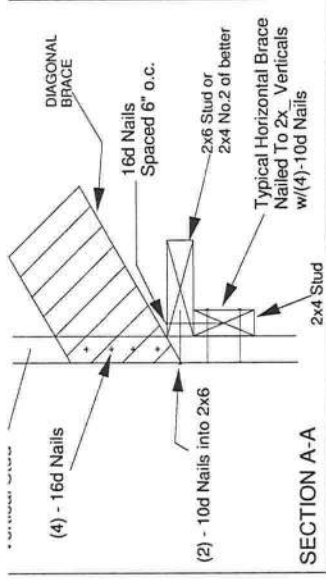
(4) - 8d (0.131" X 2.5") NAILS MINIMUM PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK

Roof Sheathing

24" Max

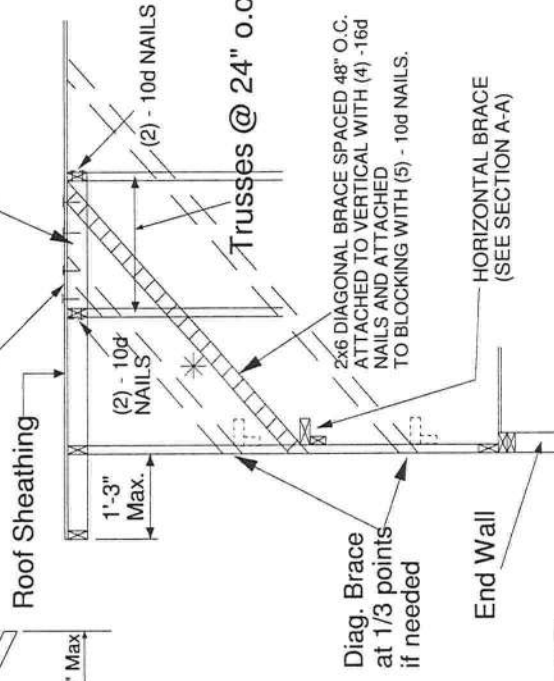
NOTE:

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 U/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")



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.



Trusses @ 24" o.c.

Diag. Brace at 1/3 points if needed

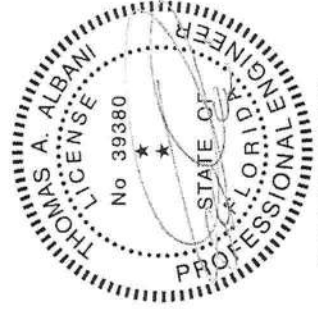
End Wall

HORIZONTAL BRACE (SEE SECTION A-A)

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



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

DIAGONAL BRACE
4'-0" O.C. MAX

TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.

SECTION B-B

Vertical Stud

Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA

* - Diagonal Bracing
Refer to Section A-A

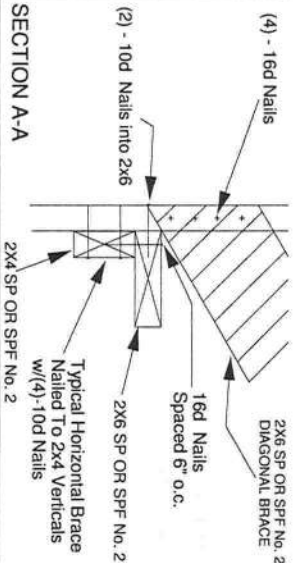
** - L-Bracing Refer
to Section B-B

24" Max

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

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.

SECTION A-A



Roof Sheathing

(2) - 10d NAILS

Trusses @ 24" O.C.

Diag. Brace
at 1/3 points
if needed

End Wall

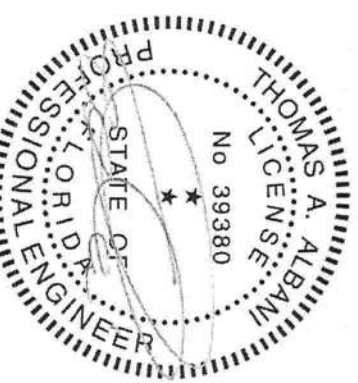
HORIZONTAL BRACE
(SEE SECTION A-A)

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

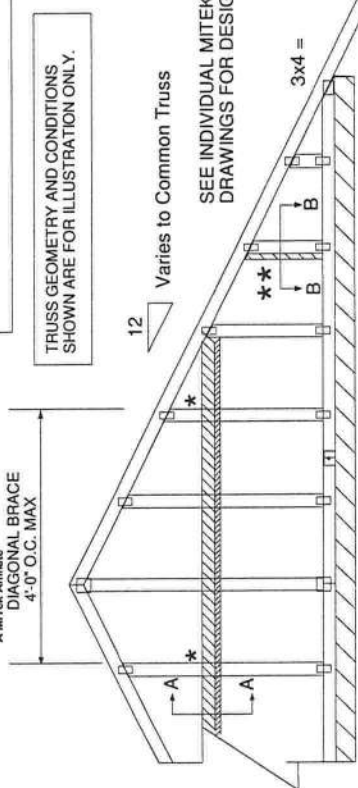
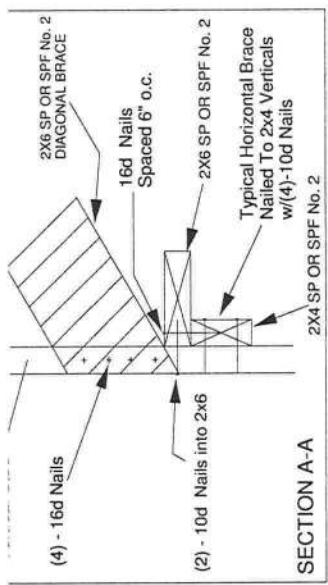
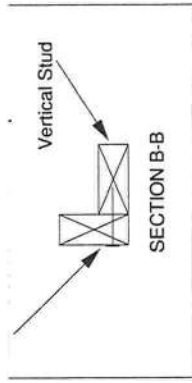
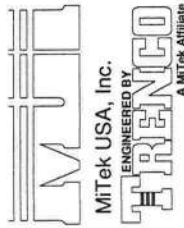
Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Maximum Stud Length					
2x4 SP No. 3/ Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3/ Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3/ Stud	24" O.C.	2-9-4	4-0-7	5-6-8	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 L-braces attached to both edges. Fasten T and L 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 L braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D



Thomas A. Albani PE No. 39380
MITek USA, Inc. FL Cert 6634

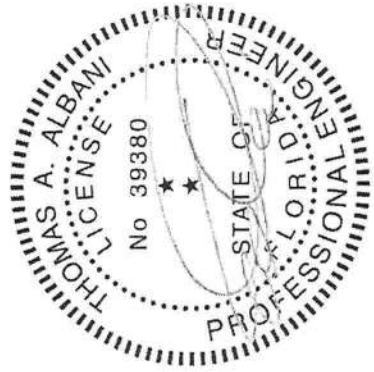


★ - Diagonal Bracing Refer to Section A-A
★★ - L-Bracing Refer to Section B-B

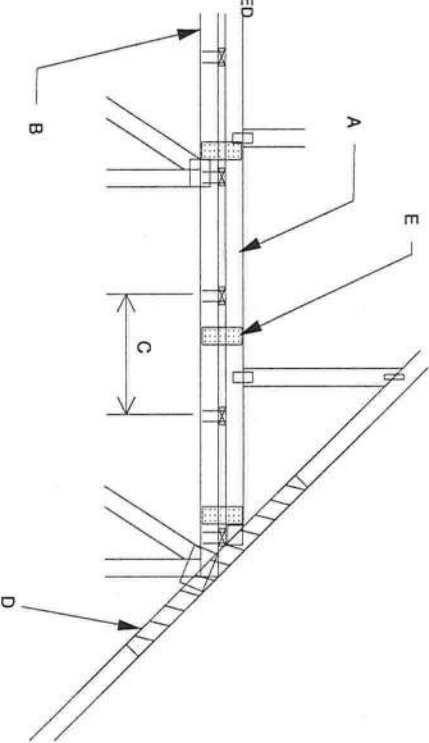
- NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING 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.		3-7-12	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 L-braces attached to both edges. Fasten T and L 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 L braces must be 2x4 SPF No. 2 or SP No. 2.

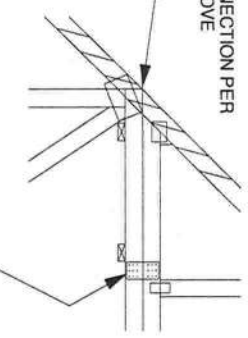


- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.57" TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) 0.131" X 3.57" NAILS EACH.
- D - 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 37" 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 121L.
- 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 1.57" NAILS PER MEMBER, STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)



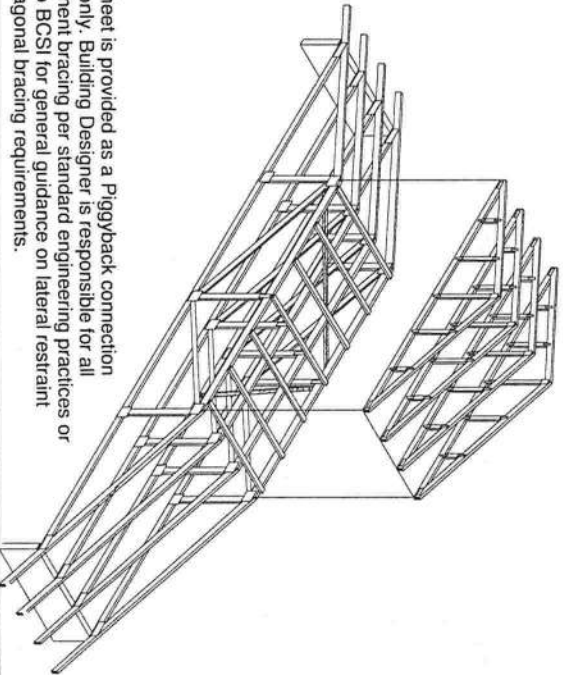
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER
NOTE D ABOVE

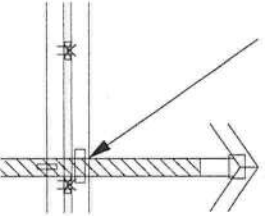


FOR ALL WIND SPEEDS, ATTACH MITEK 3x6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.57") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.

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.

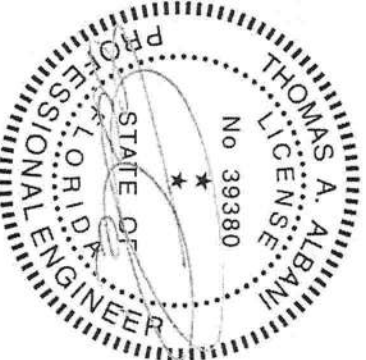


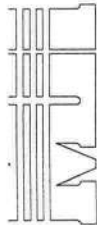
VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK



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

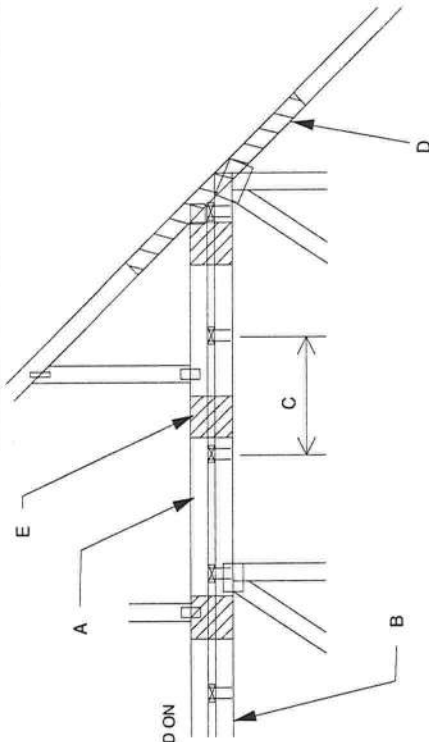
- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- 2) ATTACH 2" X 4"-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 37") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE 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.





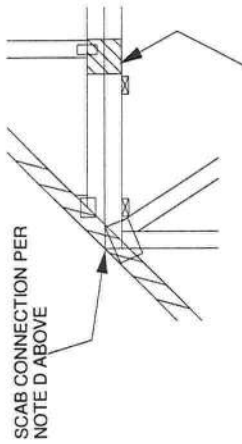
MAX TRUSS SPACING = 24" O.C.
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-10
DURATION OF LOAD INCREASE : 1.60
DETAIL IS NOT APPLICABLE FOR TRUSSES
TRANSFERING DRAG LOADS (SHEAR TRUSSES).
ADDITIONAL CONSIDERATIONS BY BUILDING
ENGINEER/DESIGNER ARE REQUIRED.

- A - 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 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 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 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM
EACH SIDE (TOTAL - 12 NAILS)



WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

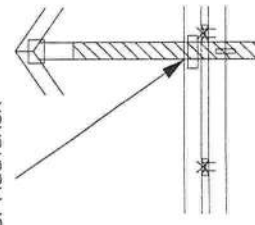
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD
GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE
TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE
TRUSS MITEK DESIGN DRAWING.



SCAB CONNECTION PER
NOTE D ABOVE

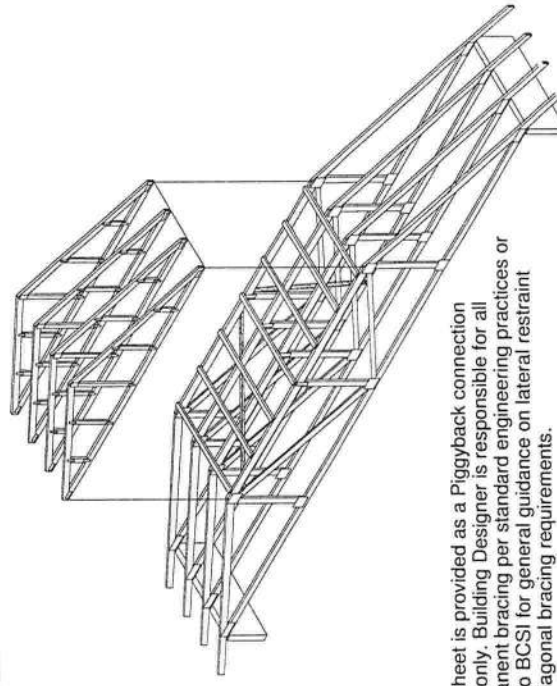
7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C.
ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD
FROM EACH SIDE (TOTAL - 12 NAILS)

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK

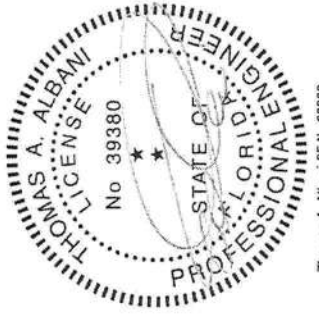


FOR LARGE CONCENTRATED LOADS APPLIED
TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 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 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.



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.





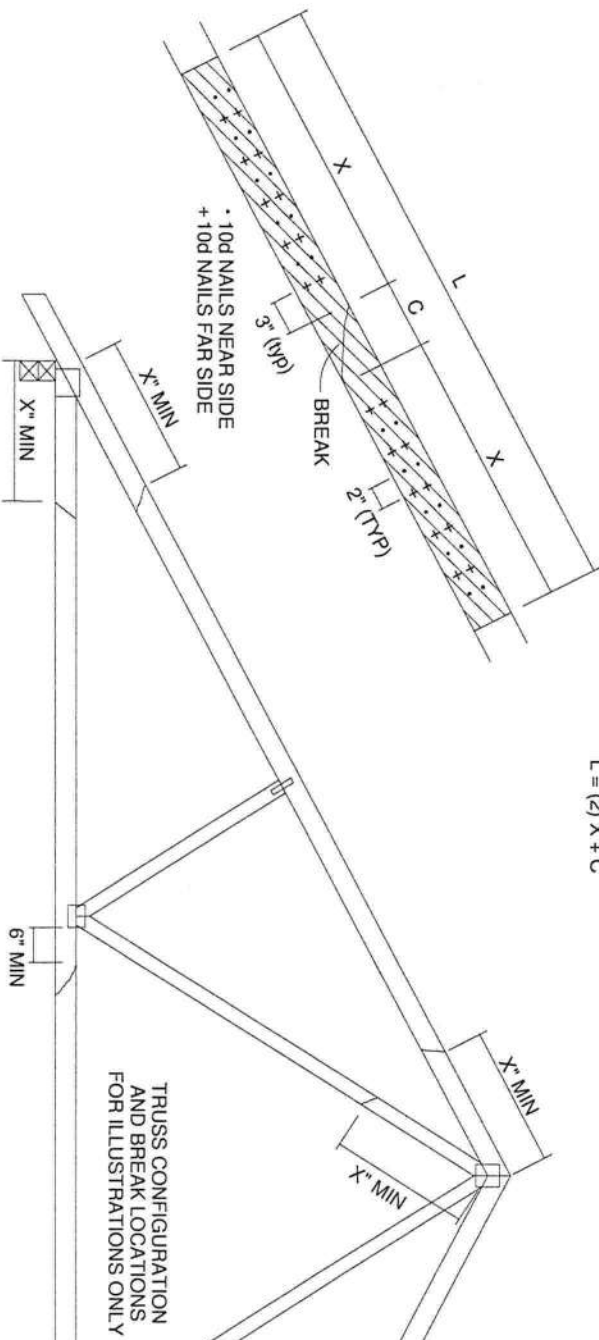
MITek USA, Inc.
ENGINEERED BY
THRENECO
A MITek Affiliate

		INCHES													
2x4	2x6			2x4	2x6	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				

• 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.

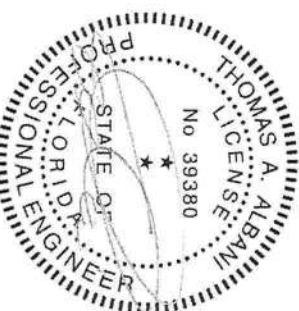
THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:
 $L = (2) X + C$

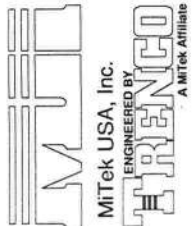


THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

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 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 UNUSUAL SPLITTING OF THE WOOD.
 4. WHEN NAILING OF 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.



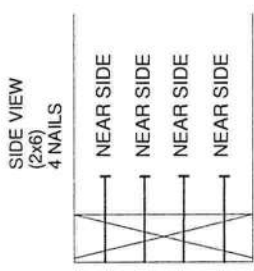
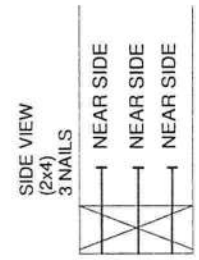
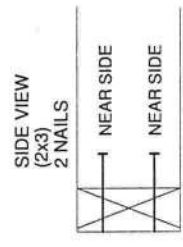


- EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

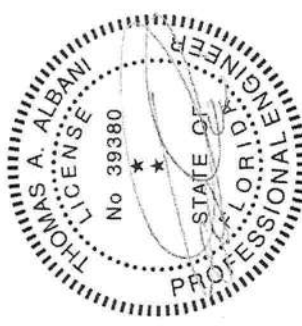
TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)						
DIAM.	SP	DF	HF	SPF	SPF-S	
.131	88.0	80.6	69.9	68.4	59.7	
.135	93.5	85.6	74.2	72.6	63.4	
.162	108.8	99.6	86.4	84.5	73.8	
3.5" LONG						
.128	74.2	67.9	58.9	57.6	50.3	
.131	75.9	69.5	60.3	59.0	51.1	
.148	81.4	74.5	64.6	63.2	52.5	
3.25" LONG						

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY



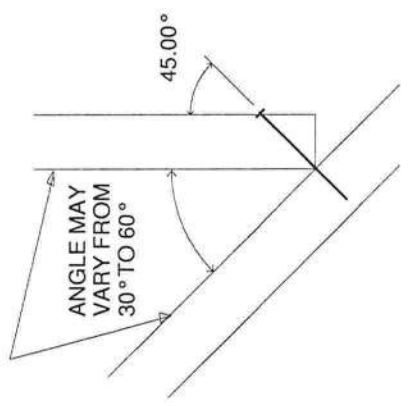
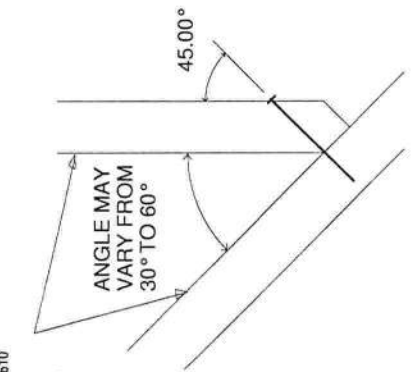
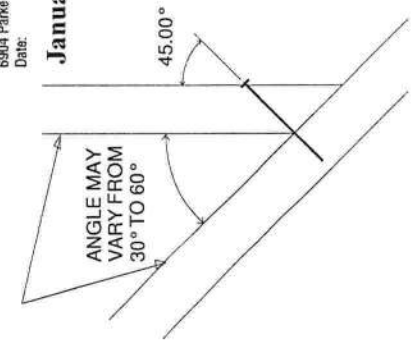
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

EXAMPLE:
(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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January 19, 2018



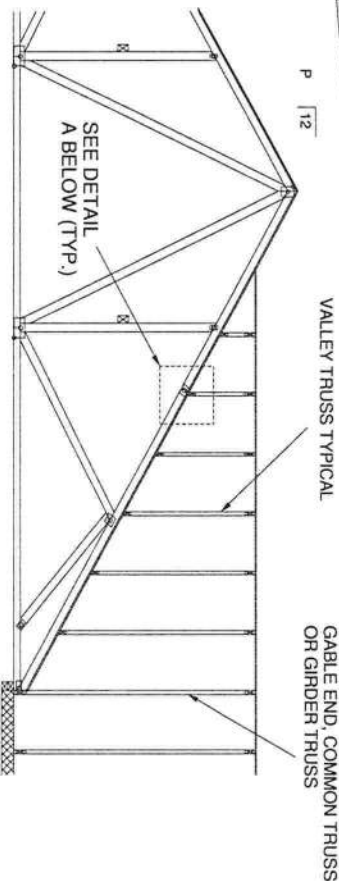
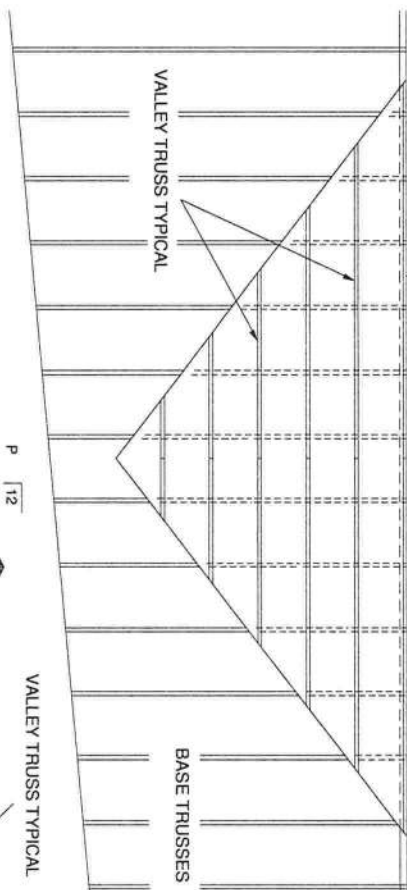


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GABLE END, COMMON TRUSS
OR GIRDER TRUSS

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
EQUIVARIANT 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.

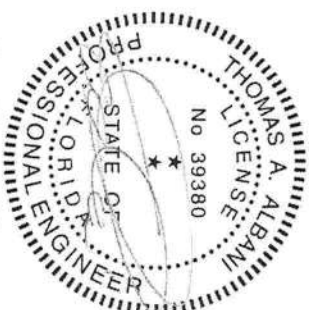


SECURE VALLEY TRUSS
W/ ONE ROW OF 10d
NAILS 6" O.C.

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 7-02, 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

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

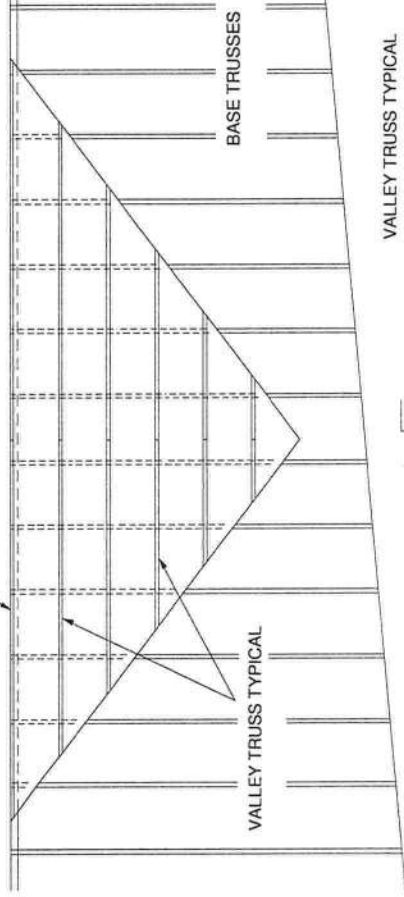




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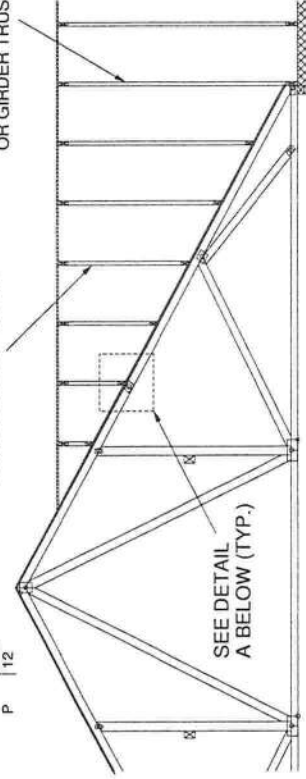
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVARIANT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE PER NDS-01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

GABLE END, COMMON TRUSS
OR GIRDER TRUSS



GABLE END, COMMON TRUSS
OR GIRDER TRUSS

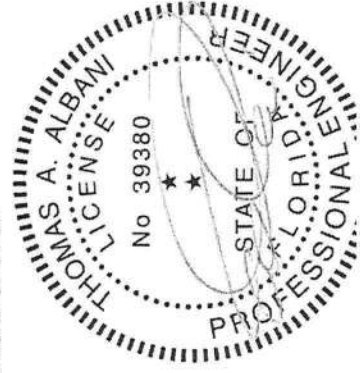
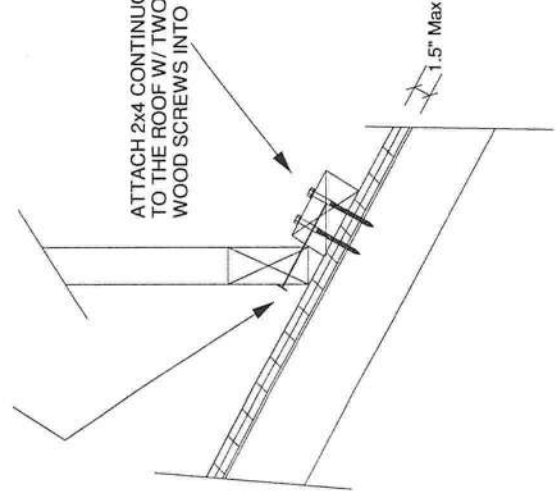
VALLEY TRUSS TYPICAL



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

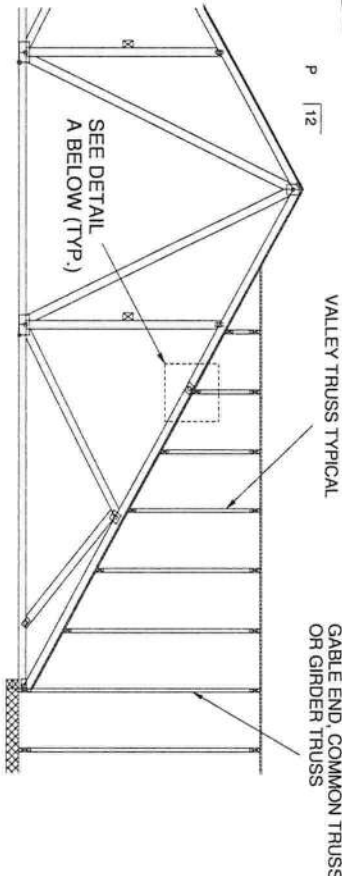
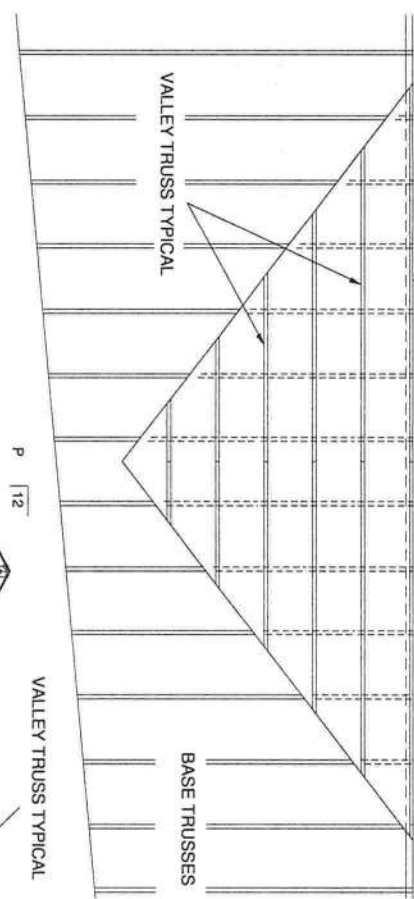
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)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

ATTACH 2x4 CONTINUOUS NO.2 SP
TO THE ROOF W/ TWO USP WS45 (1/4" X 4.5")
WOOD SCREWS INTO EACH BASE TRUSS.



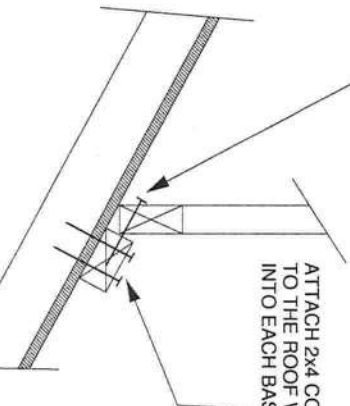
GABLE END, COMMON TRUSS
 OR GIRDER TRUSS

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 EQUIVALENT 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.



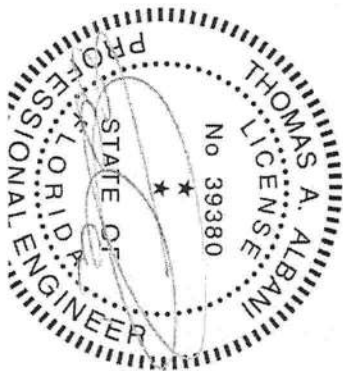
SECURE VALLEY TRUSS
 W/ ONE ROW OF 16d
 NAILS 6" O.C.

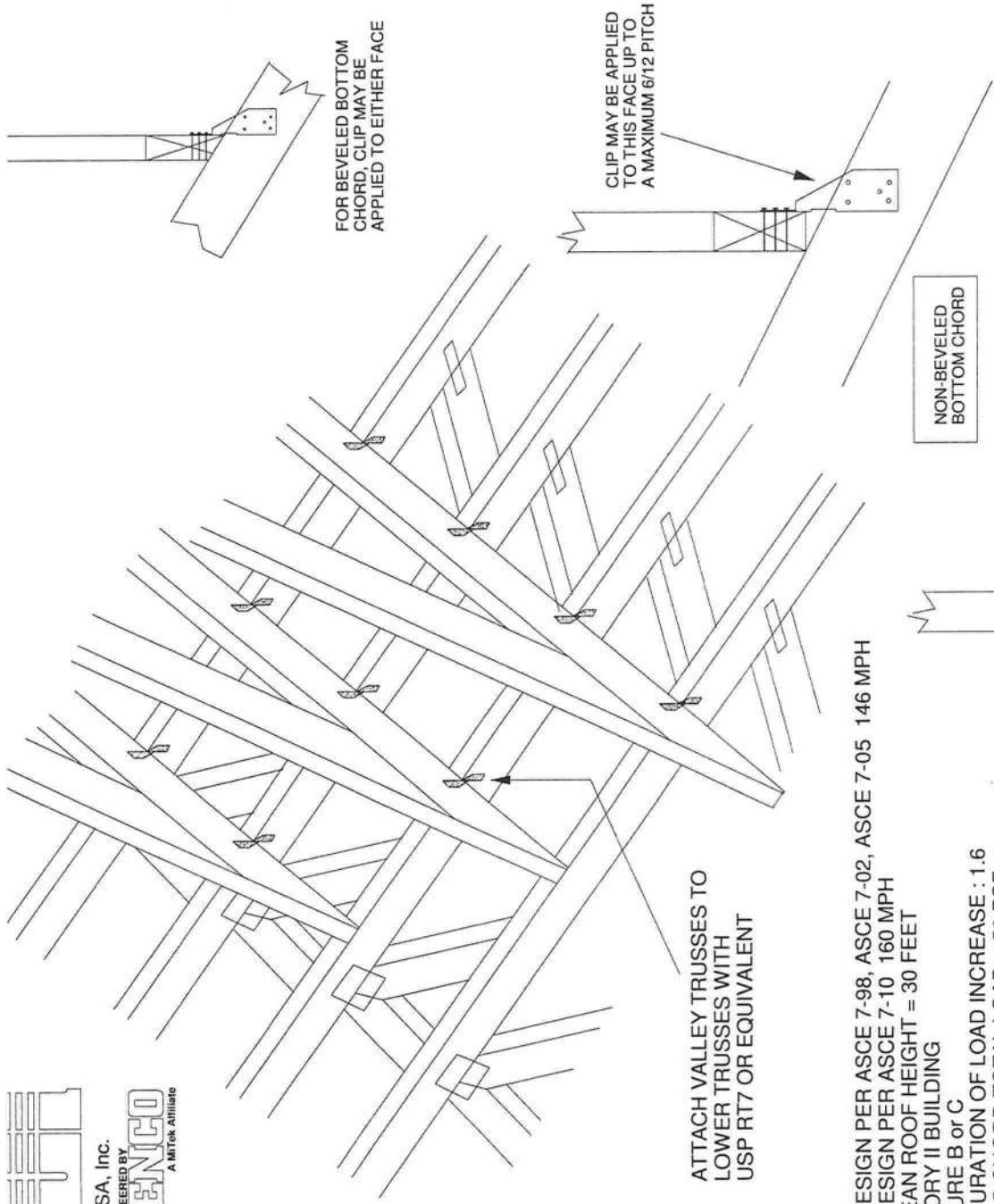
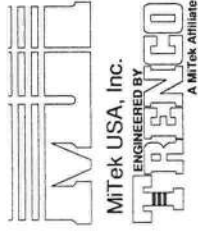
ATTACH 2x4 CONTINUOUS NO.2 SP
 TO THE ROOF W/ TWO 16d NAILS
 INTO EACH BASE TRUSS.



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

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH
 MAX 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





ATTACH VALLEY TRUSSES TO
LOWER TRUSSES WITH
USP RT7 OR EQUIVALENT

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
CATEGORY II BUILDING
EXPOSURE B or C
WIND DURATION OF LOAD INCREASE : 1.6
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)

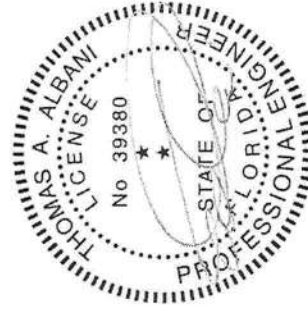
SUPPORTING TRUSSES DIRECTLY UNDER
VALLEY TRUSSES MUST BE DESIGNED
WITH A MAXIMUM UNBRACED LENGTH OF
2'-10" ON AFFECTED TOP CHORDS.

- NOTES:
- SHEATHING APPLIED AFTER
INSTALLATION OF VALLEY TRUSSES
 - THIS DETAIL IS NOT APPLICABLE FOR
SPF-S SPECIES LUMBER.

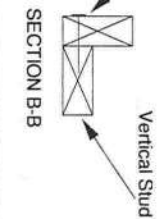
NON-BEVELED
BOTTOM CHORD

NON-BEVELED
BOTTOM CHORD

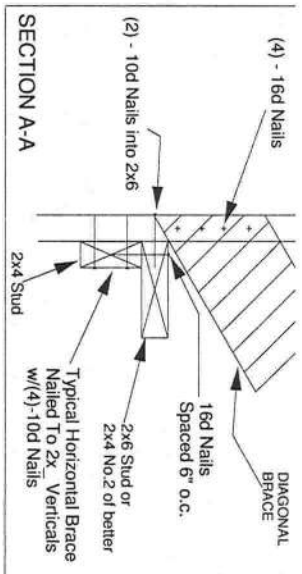
CLIP MUST BE APPLIED
TO THIS FACE WHEN
PITCH EXCEEDS 6/12.
(MAXIMUM 12/12 PITCH)



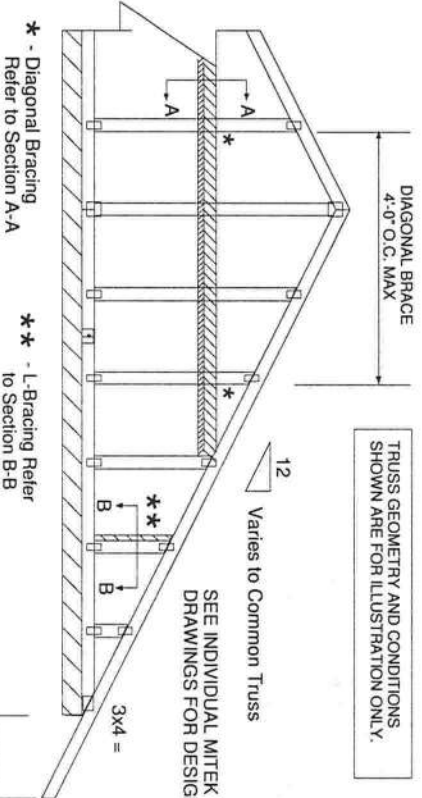
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Date:



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.



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 Refer to Section A-A

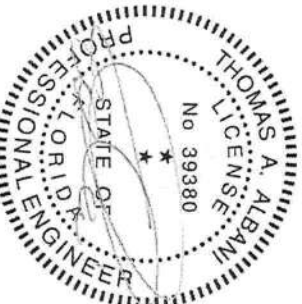
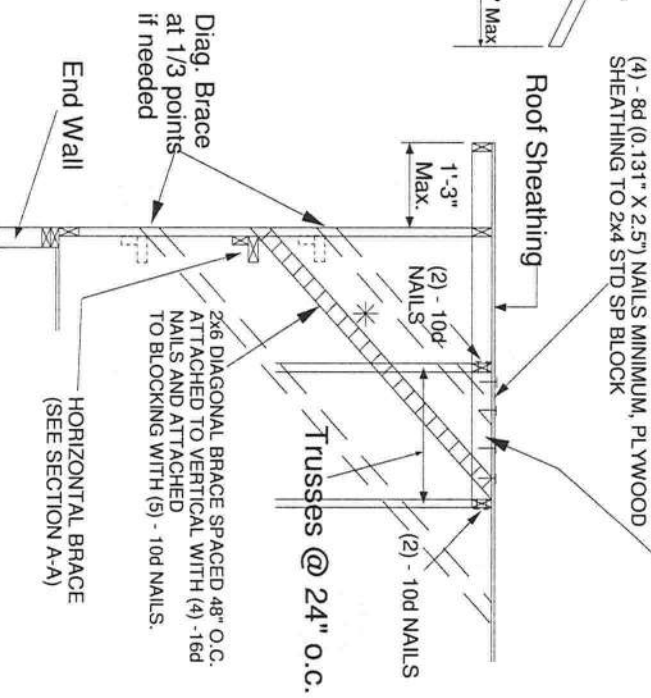
** - L-Bracing Refer to Section B-B

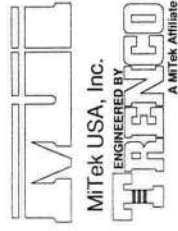
- NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
 4. 1" 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. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
 5. 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
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 L-braces attached to both edges. Fasten T and L 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

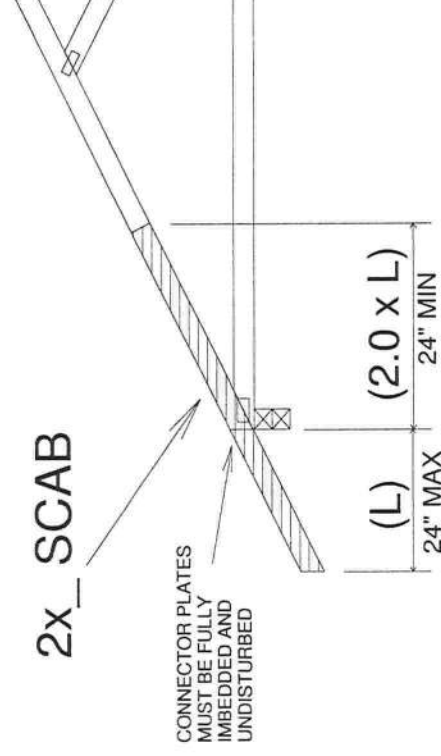




DURATION FACTOR: 1.15
SPACING: 24" O.C.
TOP CHORD: 2x4 OR 2x6
PITCH: 4/12 - 12/12
HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL
END BEARING CONDITION

NOTES:

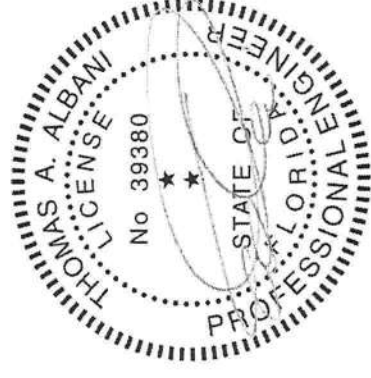
1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED 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



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Date:

February 12, 2018



MITek USA, Inc.

ENGINEERED BY

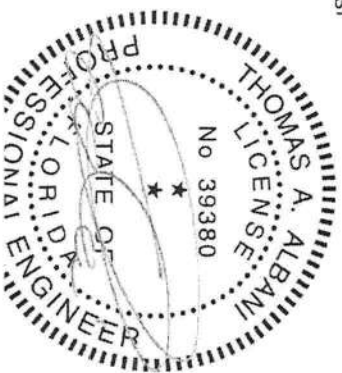
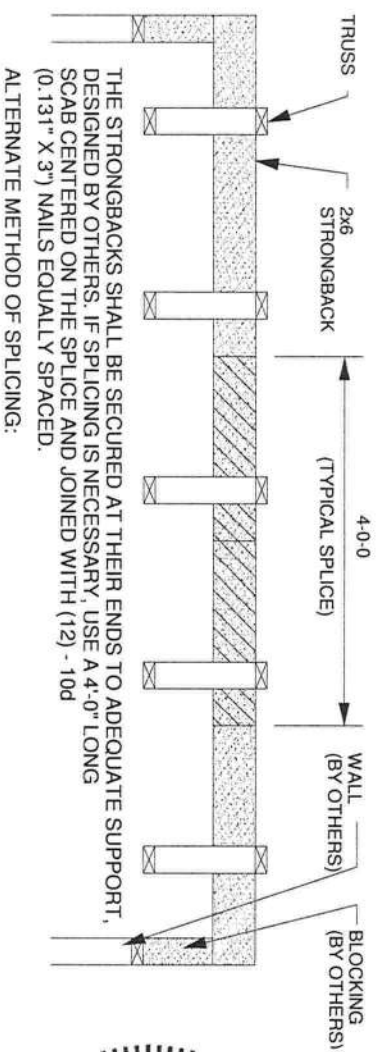
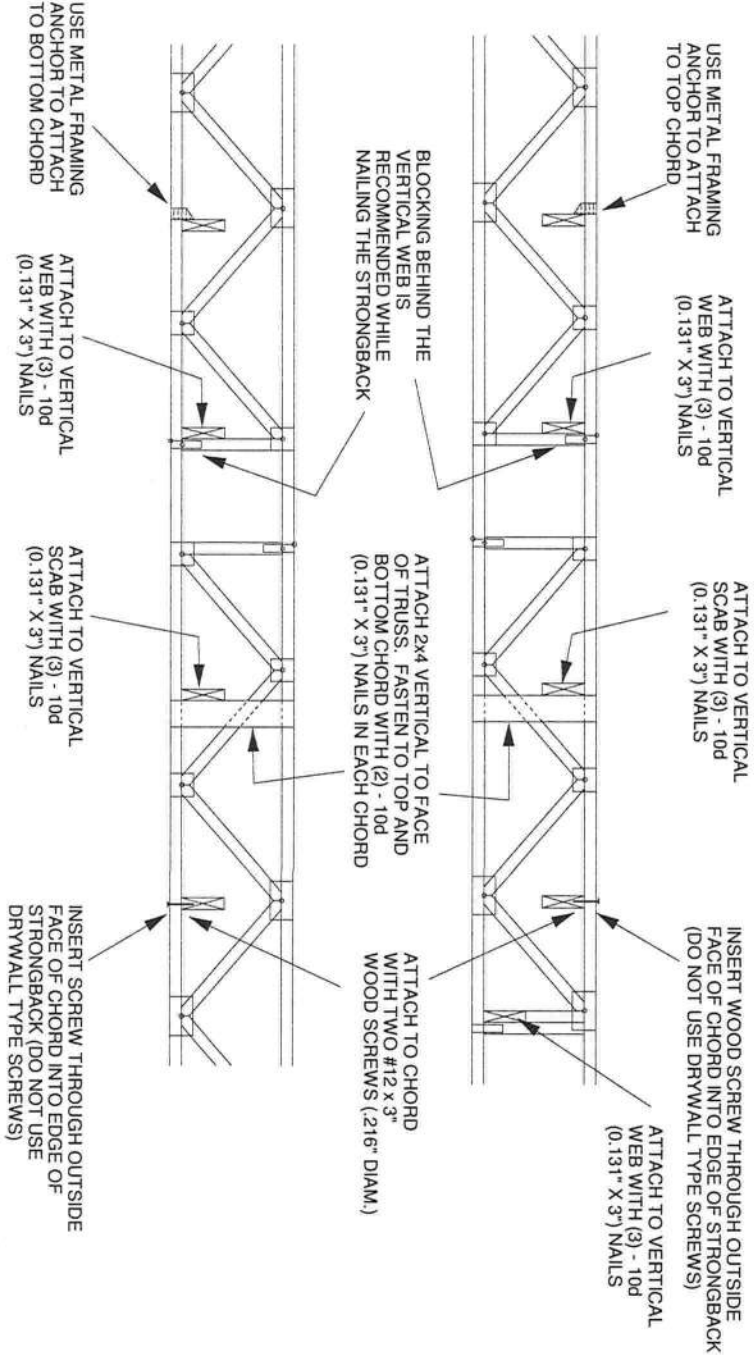


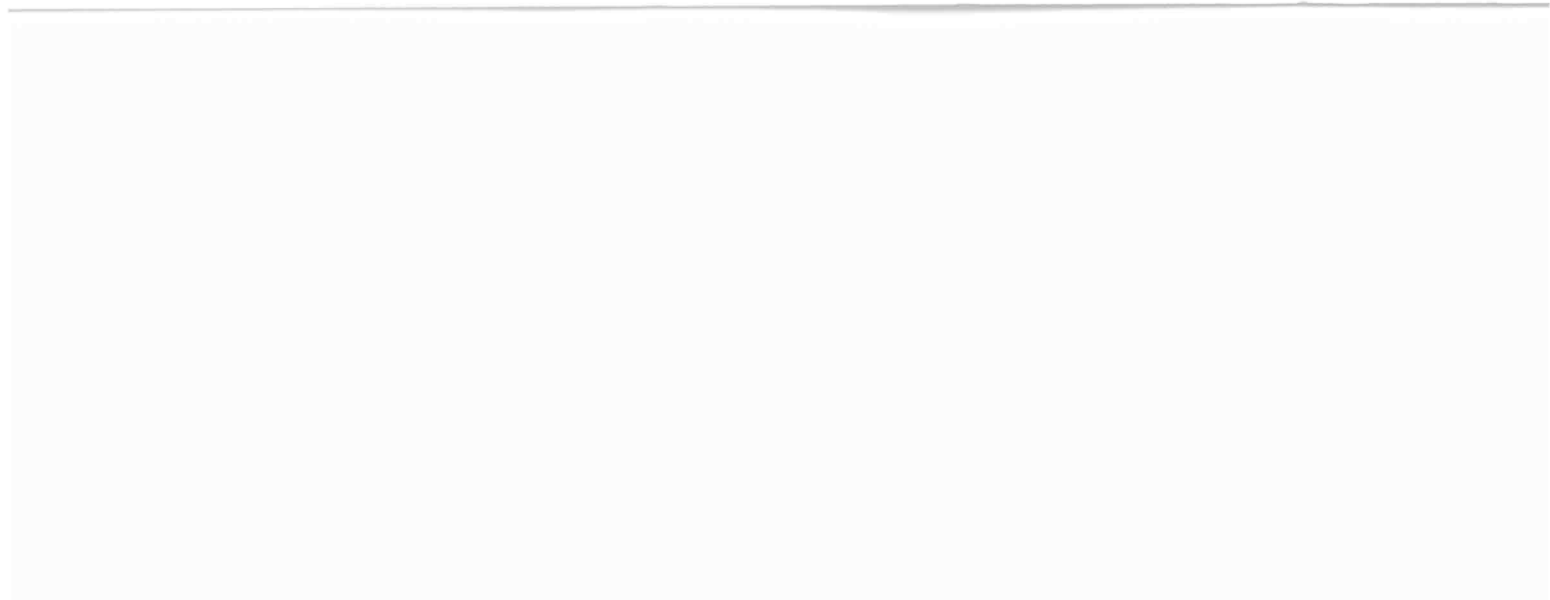
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TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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.





NOTE BEARING ADDED AT MASTER/LIVING ROOM AND GARAGE/CLO:

