



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

RE: 2714404 - GIEBIG - SULLIVAN RES.

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Giebig Const. Project Name: Sullivan Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 38 individual, Truss Design Drawings and 0 Additional Drawings.

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T23198590	CJ01	3/15/21	23	T23198612	T12	3/15/21
2	T23198591	CJ03	3/15/21	24	T23198613	T13	3/15/21
3	T23198592	CJ05	3/15/21	25	T23198614	T14	3/15/21
4	T23198593	EJ01	3/15/21	26	T23198615	T15	3/15/21
5	T23198594	EJ02	3/15/21	27	T23198616	T16	3/15/21
6	T23198595	EJ03	3/15/21	28	T23198617	T17	3/15/21
7	T23198596	EJ04	3/15/21	29	T23198618	T18	3/15/21
8	T23198597	EJ05	3/15/21	30	T23198619	T19	3/15/21
9	T23198598	HJ05	3/15/21	31	T23198620	T20	3/15/21
10	T23198599	HJ08	3/15/21	32	T23198621	T21	3/15/21
11	T23198600	HJ10	3/15/21	33	T23198622	T22	3/15/21
12	T23198601	T01	3/15/21	34	T23198623	T23	3/15/21
13	T23198602	T02	3/15/21	35	T23198624	T24	3/15/21
14	T23198603	T03	3/15/21	36	T23198625	T25	3/15/21
15	T23198604	T04	3/15/21	37	T23198626	T26	3/15/21
16	T23198605	T05	3/15/21	38	T23198627	TG01	3/15/21
17	T23198606	T06	3/15/21				
18	T23198607	T07	3/15/21				
19	T23198608	T08	3/15/21				
20	T23198609	T09	3/15/21				
21	T23198610	T10	3/15/21				
22	T23198611	T11	3/15/21				



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: Finn, Walter

My license renewal date for the state of Florida is February 28, 2023.

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



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

March 15, 2021

Finn, Walter

1 of 1

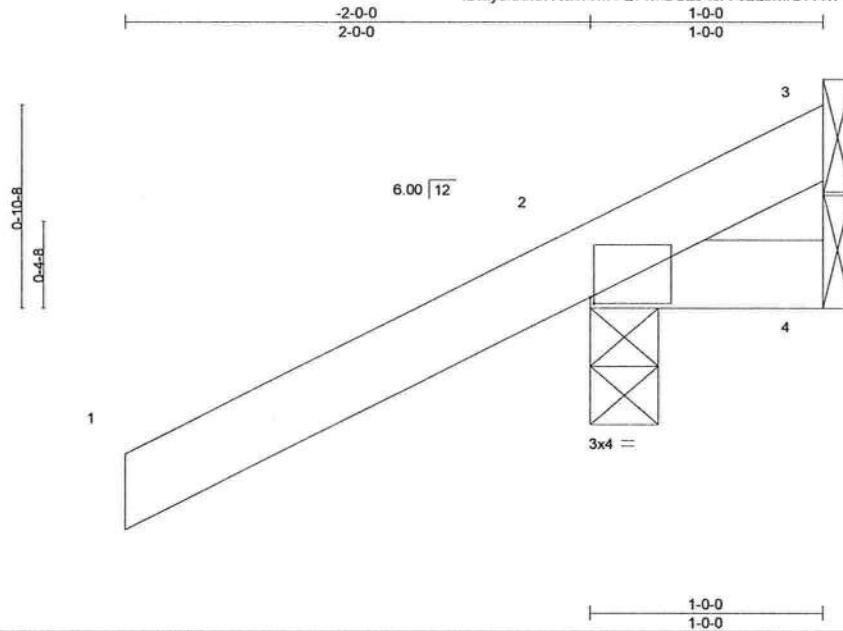
Job# 27144J4	Truss CJ01	Truss Type Jack-Open	Qty 16	Ply 1	GIEBIEG - SULLIVAN RES. T23198590
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:06 2021 Page 1

ID:uyul83tu7Xcx70MVQ7vmDBzb4bA-62LbmrDFA1F9D9G_8js35BG_pm9JQcFMBMLPiHzamIR



Scale = 1:9.5

Plate Offsets (X,Y)- [2:0-0-3,0-0-5]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	0.00 7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.05	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/TPI2014		Matrix-MP					Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=46(LC 12)
Max Uplift 3=-27(LC 1), 2=-102(LC 12), 4=46(LC 1)
Max Grav 3=16(LC 16), 2=254(LC 1), 4=29(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; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=102.



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Date:

March 15,2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198591
2714404	CJ03	Jack-Open	14	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:07 2021 Page 1
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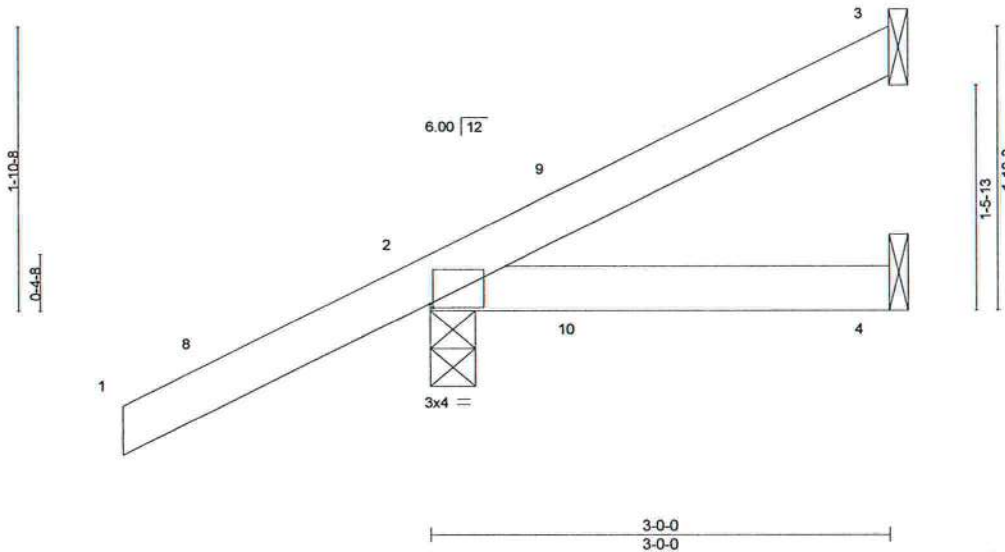


Plate Offsets (X,Y)-- [2'-0-0-3,0-0-5]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.09	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/TPI2014		Matrix-MP						Weight: 13 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=80(LC 12)
Max Uplift 3=-31(LC 12), 2=-76(LC 12), 4=-14(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 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 100 lb uplift at joint(s) 3, 2, 4.



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Date:

March 15,2021

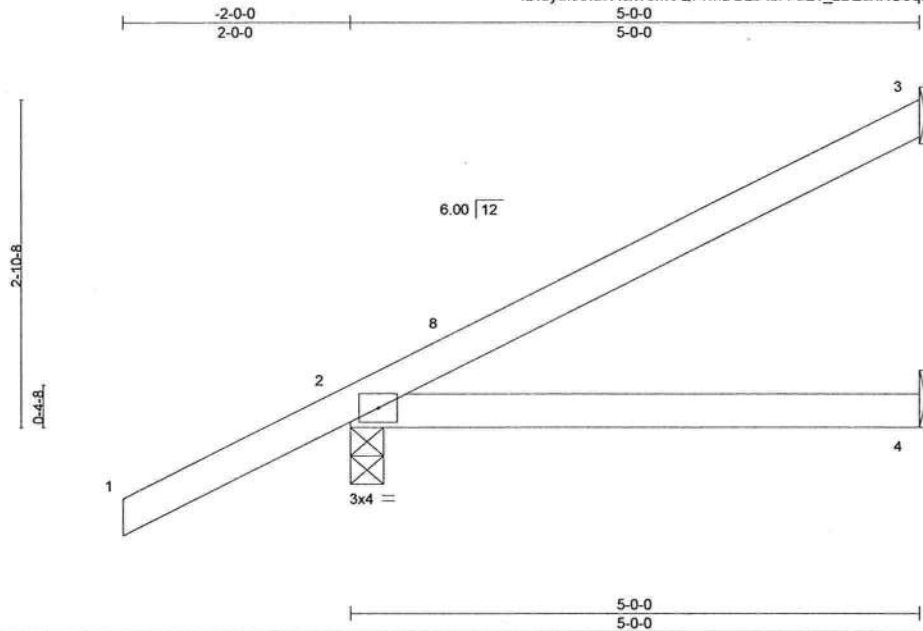
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss CJ05	Truss Type Jack-Open	Qty 10	Ply 1	GIEBIEG - SULLIVAN RES. T23198592
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:07 2021 Page 1
ID:uyul83tu7Xcx70MVQ7vmDBzb4bA-aEv_zBEuxK00qlqAhQOldOp8VASn93VVP05yEjzamtQ



Scale = 1:19.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	Vert(LL)	0.03	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.05	4-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						
								Weight: 19 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 3=64(LC 12), 2=80(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; porch 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 100 lb uplift at joint(s) 3, 2.



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March 15, 2021

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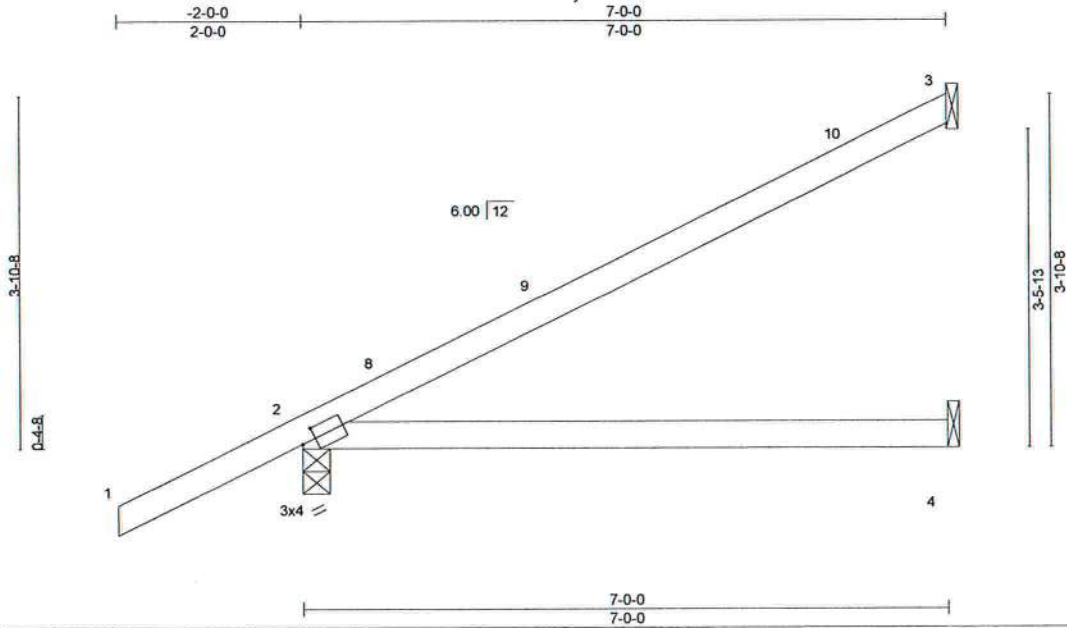
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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198593
2714404	EJ01	Jack-Partial	25	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:08 2021 Page 1

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Scale: 1/2"=1'

Plate Offsets (X,Y)-- [2'-0-1-13,0'-1-8]

LOADING (psf)	SPACING-	2'-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	0.10	4-7	>876	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.21	4-7	>393	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 26 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 6'-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 Horz 2=144(LC 12)
Max Uplift 3=84(LC 12), 2=90(LC 12)
Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2'-0-0 to 1'-0-0, Interior(1) 1'-0-0 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 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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6904 Parke East Blvd, Tampa FL 33610
Date:

March 15,2021

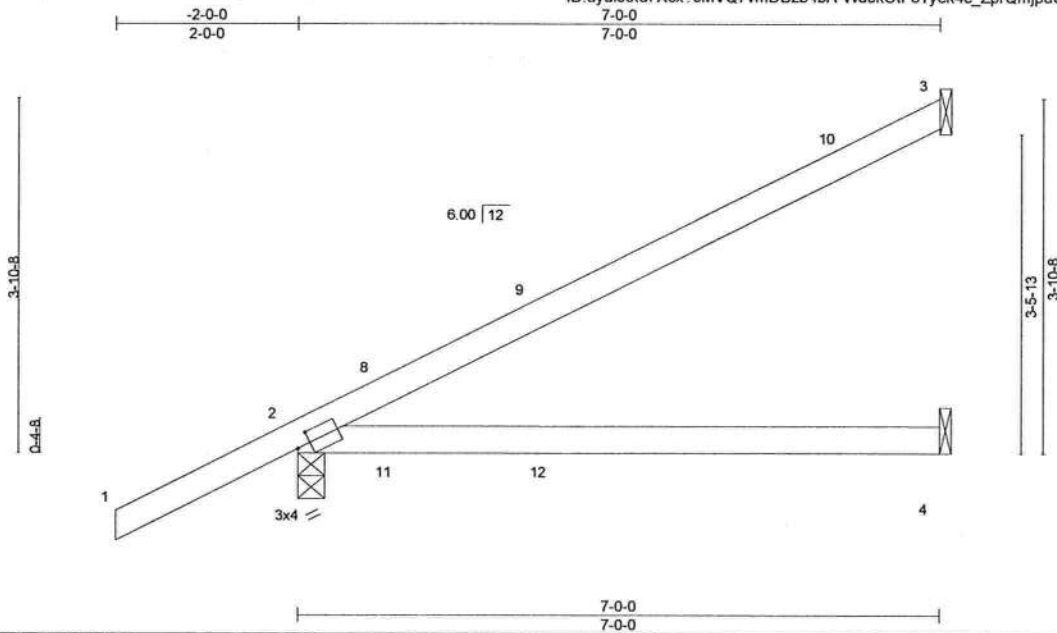
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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss EJ02	Truss Type Jack-Partial	Qty 11	Ply 1	GIEBIEG - SULLIVAN RES. T23198594
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:09 2021 Page 1
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Scale: 1/2"=1'

Plate Offsets (X,Y)~ [2-0-1-13,0-1-8]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.68	Vert(LL)	0.29	4-7	>283	240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.67	Vert(CT)	0.25	4-7	>331	180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 26 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 6-0-0 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 Horz 2=144(LC 12)
Max Uplift 3=-84(LC 12), 2=-90(LC 12), 4=-39(LC 9)
Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 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 100 lb uplift at joint(s) 3, 2, 4.



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Date:

March 15, 2021

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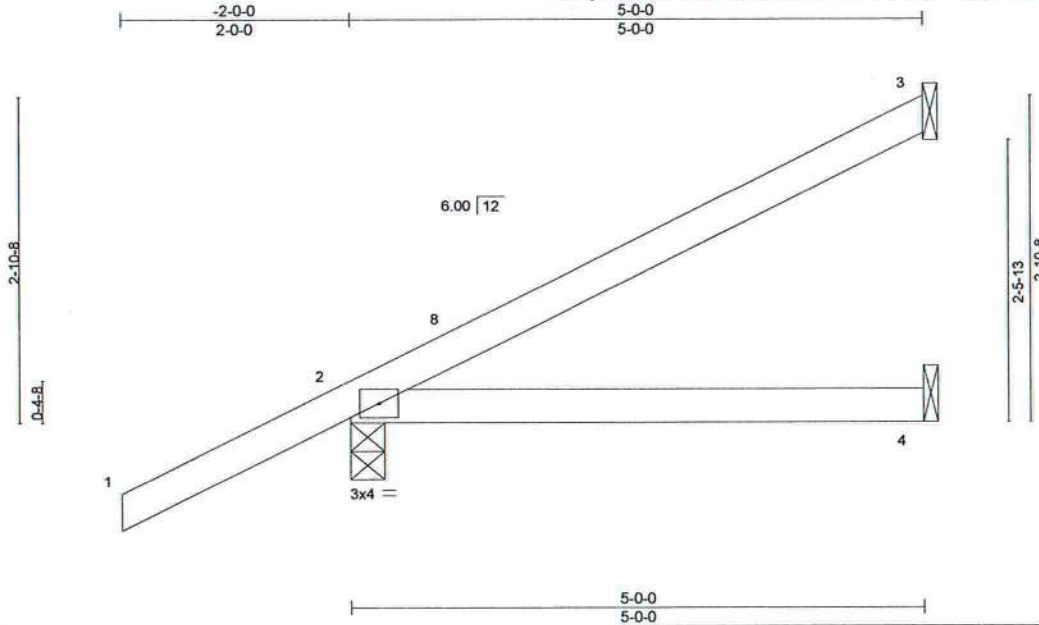
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss EJ03	Truss Type Jack-Partial	Qty 10	Ply 1	GIEBIEG - SULLIVAN RES. T23198595
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:09 2021 Page 1
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Scale = 1:19.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.05	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/TPI2014		Matrix-MP						Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 3=64(LC 12), 2=80(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; porch 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 100 lb uplift at joint(s) 3, 2.



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MiTek USA, Inc. FL Cert 6634
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Date:

March 15, 2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss EJ04	Truss Type Jack-Open	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. T23198596
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Builders FirstSource (Jacksonville, FL),

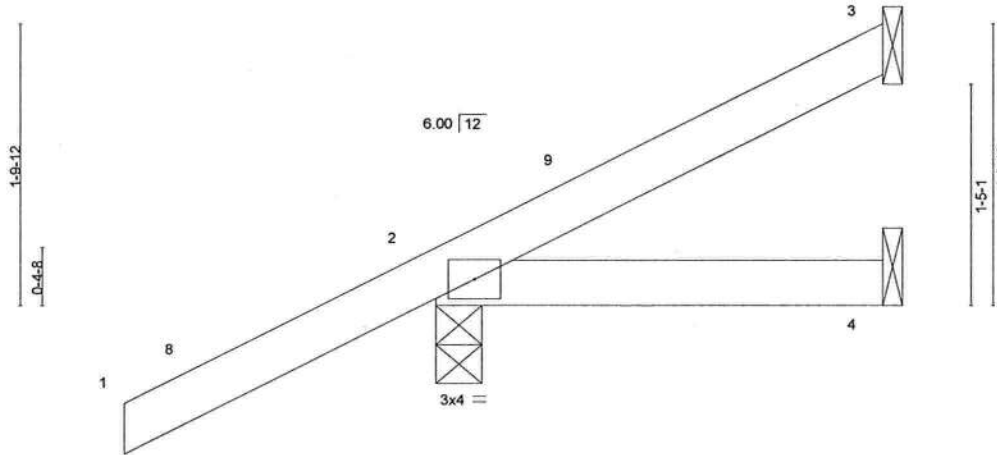
Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:10 2021 Page 1

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Scale = 1:14.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.25	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.07	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/TPI2014	Matrix-MP						Weight: 13 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 2-10-8 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 Horz 2=78(LC 12)
Max Uplift 3=-29(LC 12), 2=-77(LC 12)
Max Grav 3=48(LC 1), 2=250(LC 1), 4=45(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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-9-12 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.
- 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) 3, 2.



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6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.
2714404	EJ05	Jack-Open Girder	1	1	T23198597
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

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2-10-8

2-10-8

Scale: 1"=1'

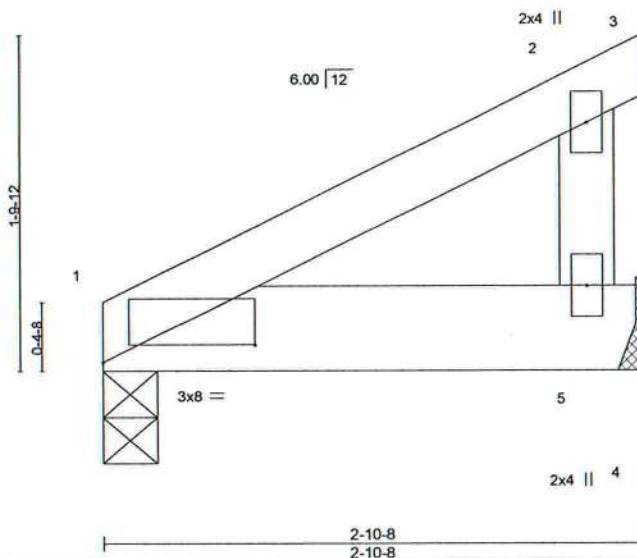


Plate Offsets (X,Y)~		[1:0-9-11,0-1-2]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 20.0		Plate Grip DOL	1.25	TC 0.28		Vert(LL)	-0.01 5-7	>999	240	MT20	244/190		
TCDL 7.0		Lumber DOL	1.25	BC 0.57		Vert(CT)	-0.02 5-7	>999	180				
BCLL 0.0		Rep Stress Incr	NO	WB 0.02		Horz(CT)	0.00 5	n/a	n/a				
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MP									
										Weight: 13 lb	FT = 20%		

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=Mechanical
Max Horz 1=49(LC 8)
Max Uplift 1=183(LC 8), 5=124(LC 8)
Max Grav 1=886(LC 1), 5=476(LC 1)

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 100 lb uplift at joint(s) except (jt=lb) 1=183, 5=124.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1161 lb down and 265 lb up at 0-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-14, 1-4=-20
Concentrated Loads (lb)
Vert: 7=-1161(F)



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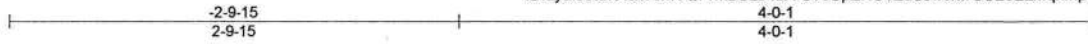
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198598
2714404	HJ05	Diagonal Hip Girder	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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Scale = 1:14.0

Plate Offsets (X,Y) -		[2-0-0-6,0-0-8]															
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	0.56	Vert(LL)	0.04	4-7	>999	240	MT20	244/190				
TCDL	7.0	Lumber DOL	1.25		BC	0.42	Vert(CT)	0.05	4-7	>999	180						
BCLL	0.0	Rep Stress Incr	NO		WB	0.00	Horz(CT)	-0.00	2	n/a	n/a						
BCDL	10.0	Code FBC2020/TPI2014			Matrix-MP												
													Weight: 17 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 4-0-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=94(LC 4)
Max Uplift 3=-23(LC 8), 2=-154(LC 4), 4=-42(LC 19)
Max Grav 3=52(LC 35), 2=280(LC 1), 4=48(LC 24)

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=154.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 103 lb up at 1-6-1, and 54 lb down and 103 lb up at 1-6-1 on top chord, and 21 lb down and 74 lb up at 1-6-1, and 21 lb down and 74 lb up at 1-6-1 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: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=50(F=25, B=25) 9=70(F=35, B=35)



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6904 Parke East Blvd. Tampa FL 33610
Date:

March 15,2021



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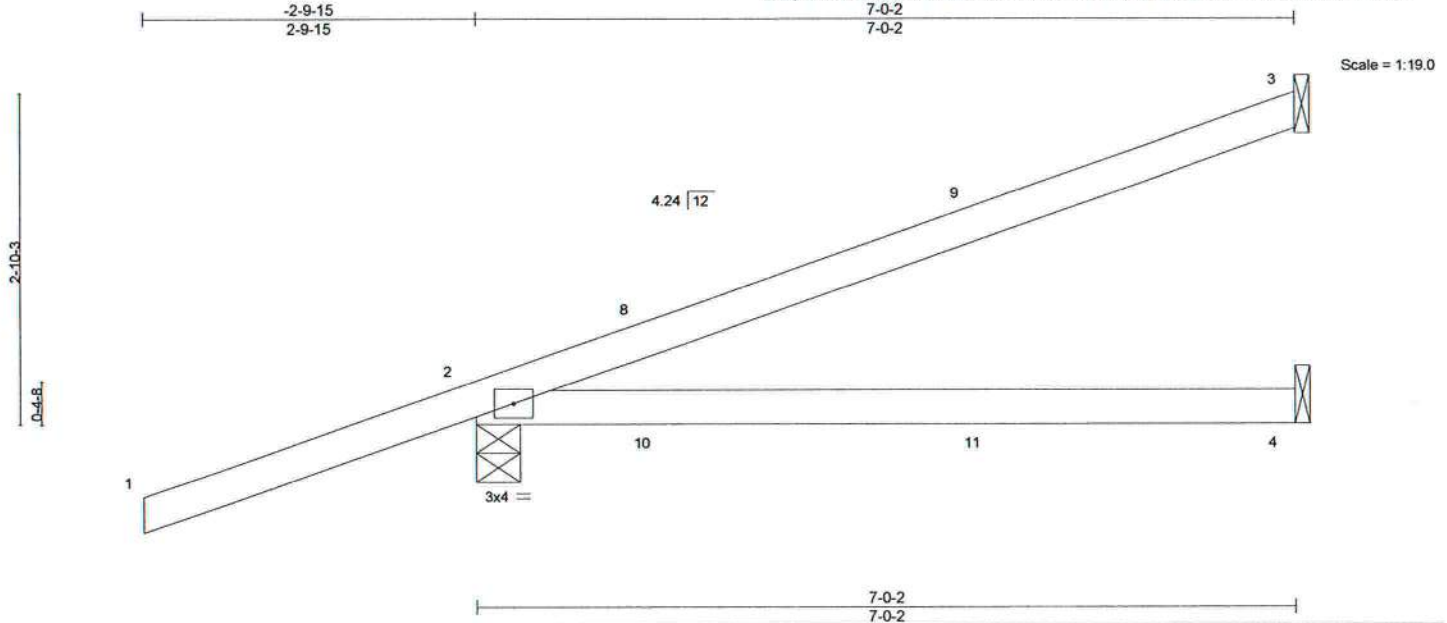


6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss HJ08	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	GIEBIEG - SULLIVAN RES. T23198599
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,					Job Reference (optional)

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	-0.09	4-7	>878	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.14	4-7	>583	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 26 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=130(LC 4)
Max Uplift 3=-78(LC 8), 2=-175(LC 4), 4=-35(LC 5)
Max Grav 3=140(LC 1), 2=346(LC 1), 4=109(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 B; Encl., GCpi=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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=175.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 103 lb up at 1-6-1, 54 lb down and 103 lb up at 1-6-1, and 20 lb down and 33 lb up at 4-4-0, and 20 lb down and 33 lb up at 4-4-0 on top chord, and 44 lb down and 74 lb up at 1-6-1, 44 lb down and 74 lb up at 1-6-1, and 42 lb down and 21 lb up at 4-4-0, and 42 lb down and 21 lb up at 4-4-0 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: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=50(F=25, B=25) 10=70(F=35, B=35) 11=5(F=2, B=2)



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Date:

March 15, 2021



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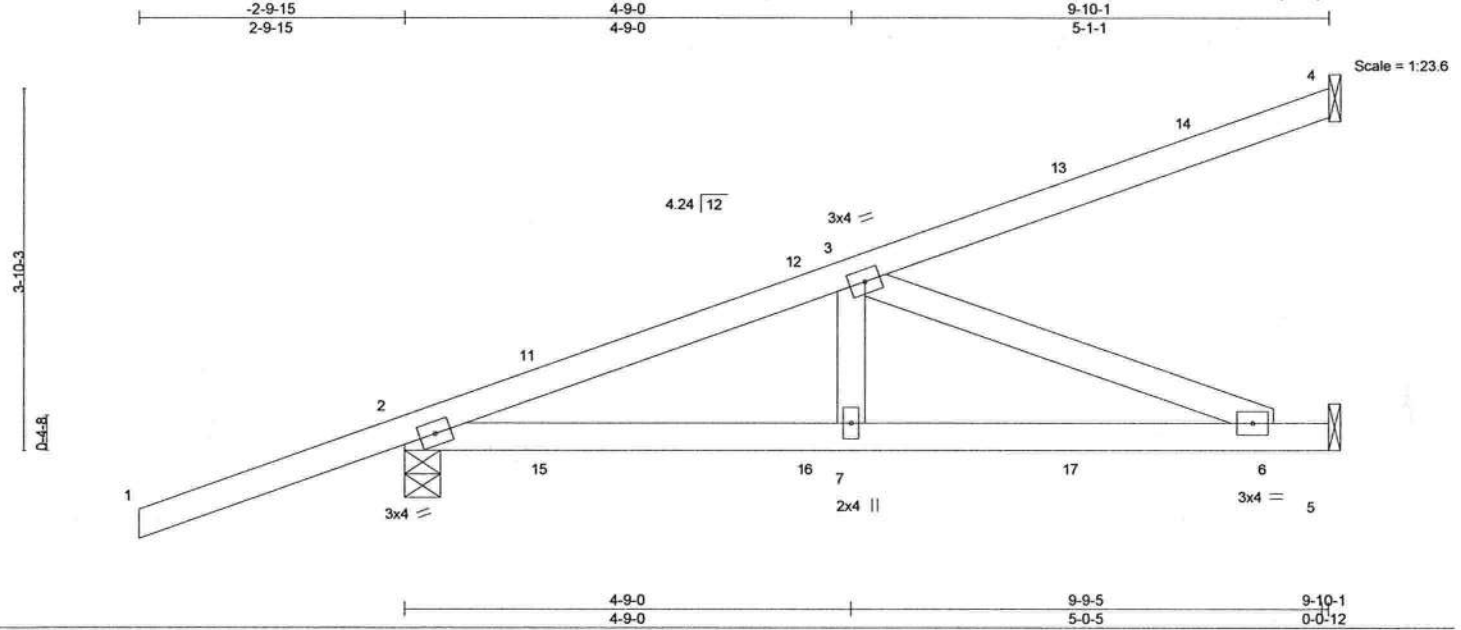
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198600
2714404	HJ10	Diagonal Hip Girder	5	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.62	Vert(LL) 0.07 6-7 >999 240		
BCLL 0.0	Lumber DOL 1.25	WB 0.28	Vert(CT) -0.13 6-7 >922 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 44 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=160(LC 22)
Max Uplift 4=-76(LC 4), 2=-221(LC 4), 5=-116(LC 5)
Max Grav 4=144(LC 1), 2=463(LC 1), 5=267(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-612/239
BOT CHORD 2-7=-279/552, 6-7=-279/552
WEBS 3-7=-48/260, 3-6=-593/300

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=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 100 lb uplift at joint(s) 4 except (jt=lb) 2=221, 5=116.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 103 lb up at 1-6-1, 54 lb down and 103 lb up at 1-6-1, 20 lb down and 33 lb up at 4-4-0, 20 lb down and 33 lb up at 4-4-0, and 41 lb down and 75 lb up at 7-1-15, and 41 lb down and 75 lb up at 7-1-15 on top chord, and 44 lb down and 74 lb up at 1-6-1, 44 lb down and 74 lb up at 1-6-1, 42 lb down and 21 lb up at 4-4-0, 42 lb down and 21 lb up at 4-4-0, and 65 lb down at 7-1-15, and 65 lb down 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: 11=50(F=25, B=25) 13=-64(F=-32, B=-32) 15=70(F=35, B=35) 16=5(F=2, B=2) 17=-49(F=-24, B=-24)



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Date:

March 15, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIG - SULLIVAN RES.	T23198601
2714404	T01	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:17 2021 Page 1

ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-H9Vm3cM9aPec1rb5HWZe1VDpaCIPVTszjaWU68zamtG

-2-0-0	3-10-15	7-0-0	12-6-14	18-0-0	23-5-2	29-0-0	32-1-1	36-0-0	38-0-0
2-0-0	3-10-15	3-1-1	5-6-14	5-5-2	5-5-2	5-6-14	3-1-1	3-10-15	2-0-0

Scale = 1:65.2

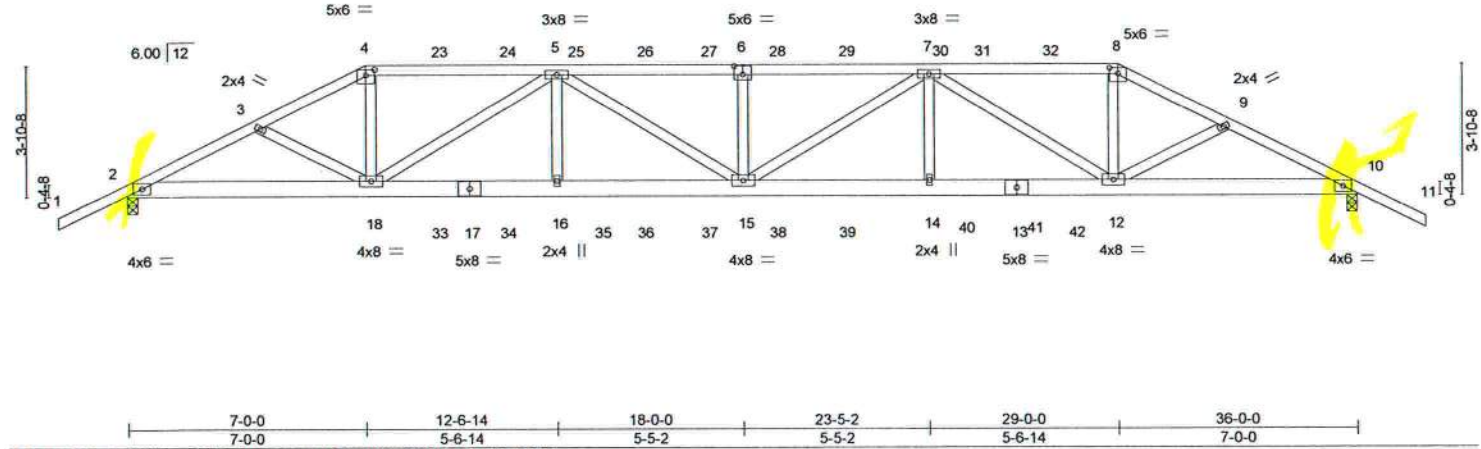


Plate Offsets (X,Y) - [4:0-3-0,0-2-0], [6:0-3-0,0-3-0], [8:0-3-0,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	-0.27	15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.50	15	>858	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.46	Horz(CT)	0.11	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 433 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=67(LC 8)
Max Uplift 2=762(LC 8), 10=782(LC 9)
Max Grav 2=2685(LC 1), 10=2726(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5360/1510, 3-4=-5211/1472, 4-5=-4720/1361, 5-6=-7437/2046, 6-7=-7437/2046, 7-8=-4799/1400, 8-9=-5300/1516, 9-10=-5449/1555
BOT CHORD 2-18=-1340/4750, 16-18=-1831/6801, 15-16=-1831/6801, 14-15=-1838/6836, 12-14=-1838/6836, 10-12=-1313/4830
WEBS 4-18=-442/1893, 5-18=-2516/702, 5-16=0/457, 5-15=-236/796, 6-15=-552/284, 7-15=-202/743, 7-14=0/454, 7-12=-2455/663, 8-12=-422/1864

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=762, 10=782.



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

Continued on page 2

March 15, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198601
2714404	T01	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:17 2021 Page 2
ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-H9Vm3cM9aPec1rb5HWZe1VDpaCIPVTszjaWUb8zamtG

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 88 lb up at 13-0-12, 106 lb down and 88 lb up at 15-0-12, 106 lb down and 88 lb up at 16-11-4, 106 lb down and 88 lb up at 18-11-4, 106 lb down and 88 lb up at 20-11-4, 106 lb down and 88 lb up at 22-11-4, 106 lb down and 88 lb up at 24-11-4, and 106 lb down and 88 lb up at 26-11-4, and 221 lb down and 171 lb up at 29-0-0 on top chord, and 296 lb down and 149 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 16-11-4, 85 lb down at 18-11-4, 85 lb down at 20-11-4, 85 lb down at 22-11-4, 85 lb down at 24-11-4, and 85 lb down at 26-11-4, and 296 lb down and 149 lb up at 28-11-4 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: 1-4=-54, 4-8=-54, 8-11=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 8=-174(F) 18=-290(F) 12=-290(F) 23=-106(F) 24=-106(F) 25=-106(F) 26=-106(F) 27=-106(F) 28=-106(F) 29=-106(F) 30=-106(F) 31=-106(F) 32=-106(F) 33=-61(F) 34=-61(F) 35=-61(F) 36=-61(F) 37=-61(F) 38=-61(F) 39=-61(F) 40=-61(F) 41=-61(F) 42=-61(F)



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

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss T02	Truss Type Hip	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. Job Reference (optional)	T23198602
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:18 2021 Page 1

ID:uyul83lu7Xcx?0MVQ7vmDBzb4bA-IM38HyMnLjmSf?AHrE4tajm?Pb1PErN7xEF17bzamfF

-2-0-0	4-9-8	9-0-0	15-0-0	21-0-0	27-0-0	31-2-8	36-0-0	38-0-0
2-0-0	4-9-8	4-2-8	6-0-0	6-0-0	6-0-0	4-2-8	4-9-8	2-0-0

Scale = 1:65.2

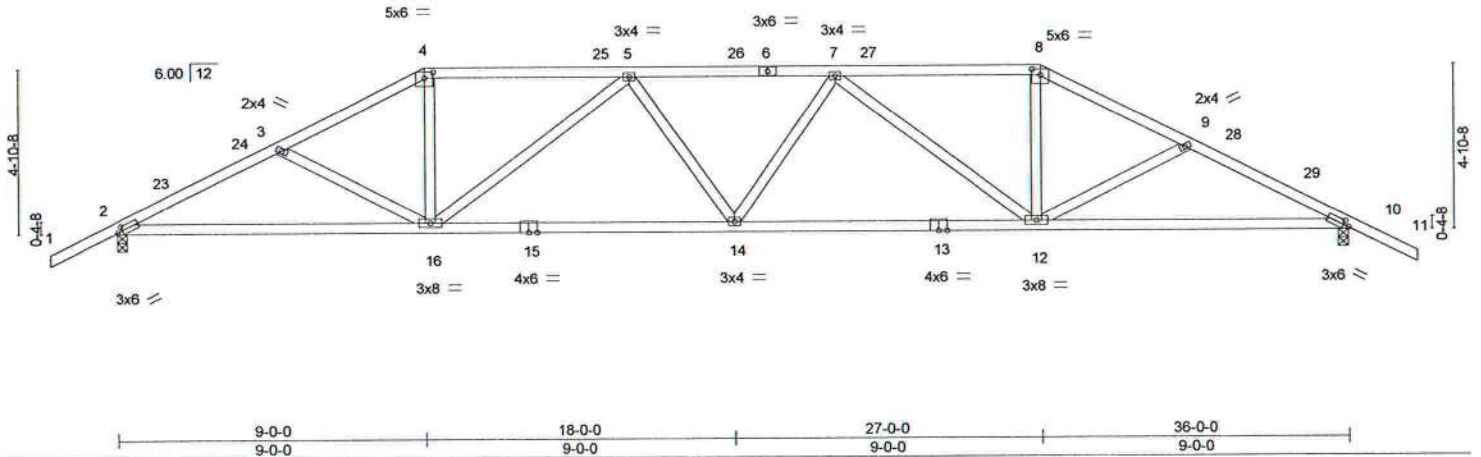


Plate Offsets (X,Y) - [2-0-1-15,0-1-8], [4-0-3-0,0-2-0], [8-0-3-0,0-2-0], [10-0-1-15,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	-0.20	14	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.93	Vert(CT)	-0.43	14-16	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.13	10	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 181 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-82(LC 17)
Max Uplift 2=-332(LC 12), 10=-332(LC 13)
Max Grav 2=1440(LC 1), 10=1440(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2515/551, 3-4=-2264/478, 4-5=-1999/460, 5-7=-2603/556, 7-8=-1999/460,
8-9=-2264/478, 9-10=-2515/552
BOT CHORD 2-16=-491/2205, 14-16=-515/2545, 12-14=-495/2545, 10-12=-410/2205
WEBS 3-16=-261/155, 4-16=-99/728, 5-16=-768/253, 7-12=-768/253, 8-12=-99/728,
9-12=-261/155

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-7-3, Interior(1) 1-7-3 to 9-0-0, Exterior(2R) 9-0-0 to 14-1-2, Interior(1) 14-1-2 to 27-0-0, Exterior(2R) 27-0-0 to 32-1-2, Interior(1) 32-1-2 to 38-0-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=332, 10=332.



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

March 15,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss T03	Truss Type Roof Special	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. T23198603
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:19 2021 Page 1

ID: uyul83lu7Xcx?0MVQ7vmDBzb4bA-DYdWUINP60uJH8IU0xb67wJAm?PXzOjGAu?bf1zamIE

-2-0-0	5-7-15	11-0-0	16-0-0	21-0-0	23-1-8	27-1-8	31-4-7	36-0-0	38-0-0
2-0-0	5-7-15	5-4-1	5-0-0	5-0-0	2-1-8	4-0-0	4-2-15	4-7-9	2-0-0

Scale = 1:66.2

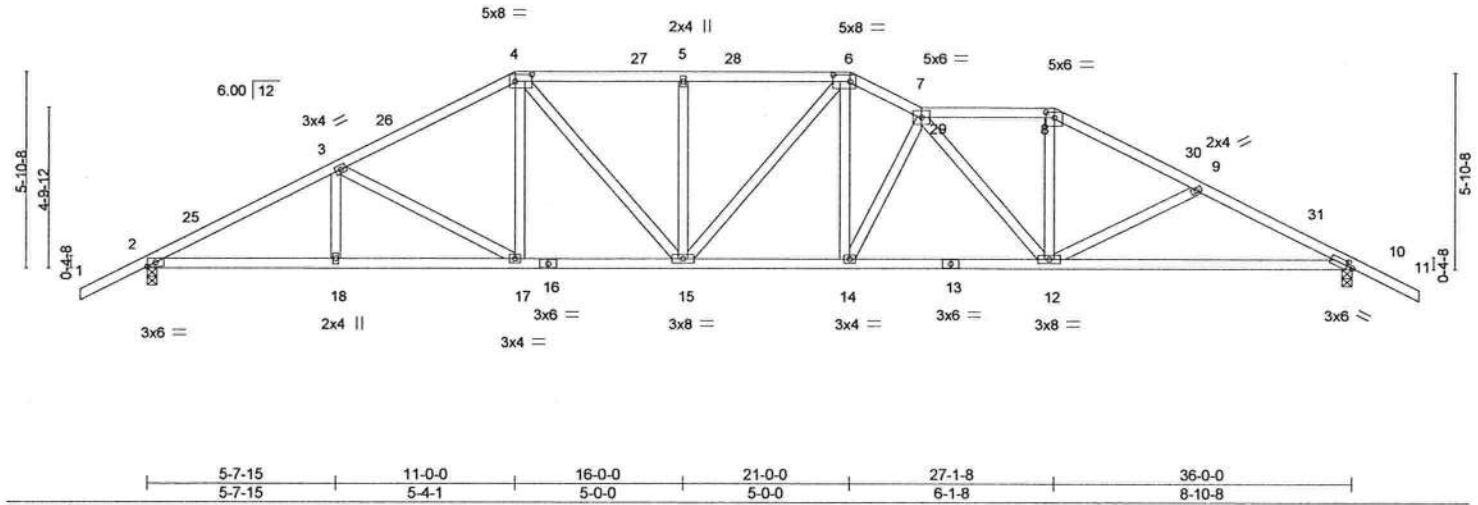


Plate Offsets (X,Y)-- [4:0-6-0,0-2-8], [6:0-6-0,0-2-8], [8:0-3-0,0-2-0], [10:0-1-15,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	-0.18	14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.35	12-24	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.12	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 204 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-10-5 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=97(LC 13)
Max Uplift 2=268(LC 12), 10=306(LC 13)
Max Grav 2=1440(LC 1), 10=1440(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2527/557, 3-4=-2104/512, 4-5=-2130/563, 5-6=-2130/563, 6-7=-2325/599,
7-8=-1998/498, 8-9=-2264/526, 9-10=-2519/564
BOT CHORD 2-18=-411/2205, 17-18=-411/2205, 15-17=-287/1826, 14-15=-346/2085, 12-14=-437/2409,
10-12=-440/2212
WEBS 3-17=-444/187, 4-17=-57/366, 4-15=-138/553, 5-15=-307/150, 6-14=-178/786,
7-14=-766/231, 7-12=-633/184, 8-12=-124/756, 9-12=-270/157

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-7-3, Interior(1) 1-7-3 to 11-0-0, Exterior(2R) 11-0-0 to 14-7-3, Interior(1) 14-7-3 to 21-0-0, Exterior(2E) 21-0-0 to 23-1-8, Interior(1) 23-1-8 to 27-1-8, Exterior(2R) 27-1-8 to 30-8-11, Interior(1) 30-8-11 to 38-0-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=268, 10=306.



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

March 15, 2021

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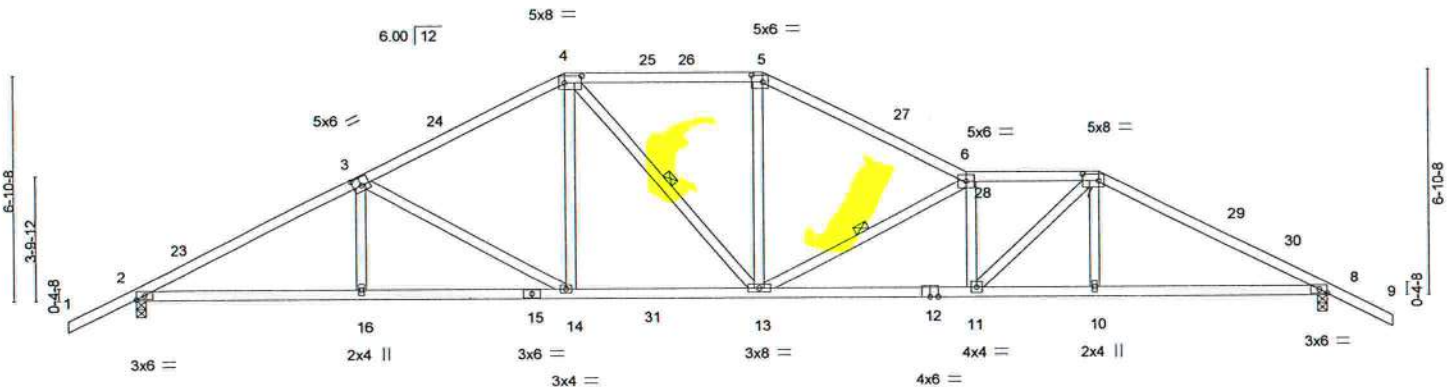
Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198604
2714404	T04	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:20 2021 Page 1
ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-hkBuid01tK0AulKgyf6Lf8rFMPjEiocPPYI8CTzamtD



Scale = 1:67.3



	6-10-2	13-0-0	19-0-0	25-1-8	29-1-8	36-0-0
	6-10-2	6-1-14	6-0-0	6-1-8	4-0-0	6-10-8
Plate Offsets (X,Y)=-	[3:0-3-0,0-3-0], [4:0-6-0,0-2-8], [5:0-4-0,0-2-8], [7:0-6-0,0-2-8], [8:0-2-15,Edge]					

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.76	Vert(LL)	-0.24	11-13	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.43	11-13	>994		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.13	8	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 192 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 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-11-11 oc bracing.
WEBS 1 Row at midpt 4-13, 6-13

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=112(LC 12)
Max Uplift 2=285(LC 12), 8=320(LC 13)
Max Grav 2=1531(LC 2), 8=1524(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2691/547, 3-4=-2129/494, 4-5=-1995/512, 5-6=-2269/529, 6-7=-3085/684, 7-8=-2635/550
BOT CHORD 2-16=-393/2356, 14-16=-392/2359, 13-14=-249/1854, 11-13=-552/3108, 10-11=-399/2306, 8-10=-399/2297
WEBS 3-16=0/270, 3-14=-597/227, 4-14=-73/518, 4-13=-111/338, 5-13=-89/712, 6-13=-1295/340, 6-11=-579/191, 7-11=-238/1055

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-7-3, Interior(1) 1-7-3 to 13-0-0, Exterior(2R) 13-0-0 to 16-7-3, Interior(1) 16-7-3 to 19-0-0, Exterior(2R) 19-0-0 to 22-7-3, Interior(1) 22-7-3 to 29-1-8, Exterior(2R) 29-1-8 to 32-8-11, Interior(1) 32-8-11 to 38-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=285, 8=320.



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

March 15,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job 2714404	Truss T05	Truss Type Roof Special	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. T23198605
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:21 2021 Page 1

ID:uyulB3tu7Xcx?0MVQ7vmDBzb4bA-AxlGvzPgee81WSvsWMeaCLOSZp3URCDZdCUhkvzamTC

-2-0-0	7-10-12	15-0-0	17-0-0	22-2-5	27-1-8	31-1-8	36-0-0	38-0-0
2-0-0	7-10-12	7-1-4	2-0-0	5-2-5	4-11-3	4-0-0	4-10-8	2-0-0

Scale = 1:67.3

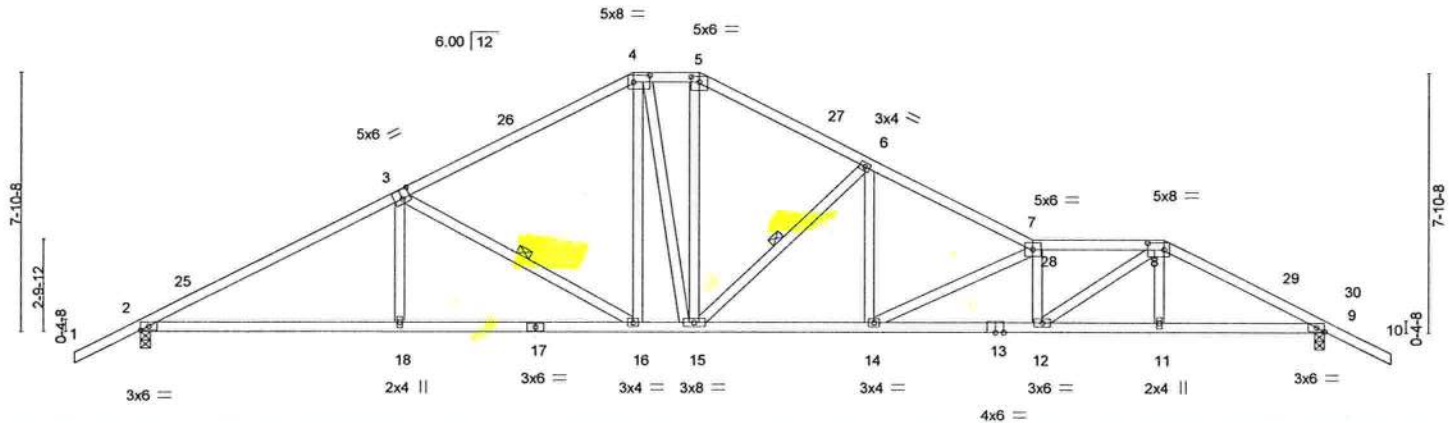


Plate Offsets (X,Y)--	[3:0-3-0,0-3-4], [4:0-6-0,0-2-8], [5:0-3-0,0-2-0], [8:0-6-0,0-2-8], [9:0-2-15,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	-0.22 12-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.84	Vert(CT)	-0.42 12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.13 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 208 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=127(LC 12)
Max Uplift 2=301(LC 12), 9=332(LC 13)
Max Grav 2=1440(LC 1), 9=1440(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2447/513, 3-4=-1815/450, 4-5=-1571/450, 5-6=-1817/474, 6-7=-2615/593,
7-8=-3454/768, 8-9=-2527/530
BOT CHORD 2-18=-411/2116, 16-18=-411/2116, 15-16=-187/1542, 14-15=-368/2298, 12-14=-654/3497,
11-12=-390/2208, 9-11=-391/2204
WEBS 3-18=0/324, 3-16=-672/267, 4-16=-89/437, 4-15=-106/274, 5-15=-159/628,
6-15=-1010/314, 6-14=-123/729, 7-14=-1346/342, 7-12=-744/207, 8-12=-335/1488

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-7-3, Interior(1) 1-7-3 to 15-0-0, Exterior(2E) 15-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 20-7-3, Interior(1) 20-7-3 to 31-1-8, Exterior(2R) 31-1-8 to 34-8-11, Interior(1) 34-8-11 to 38-0-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=301, 9=332.



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Date:

March 15,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

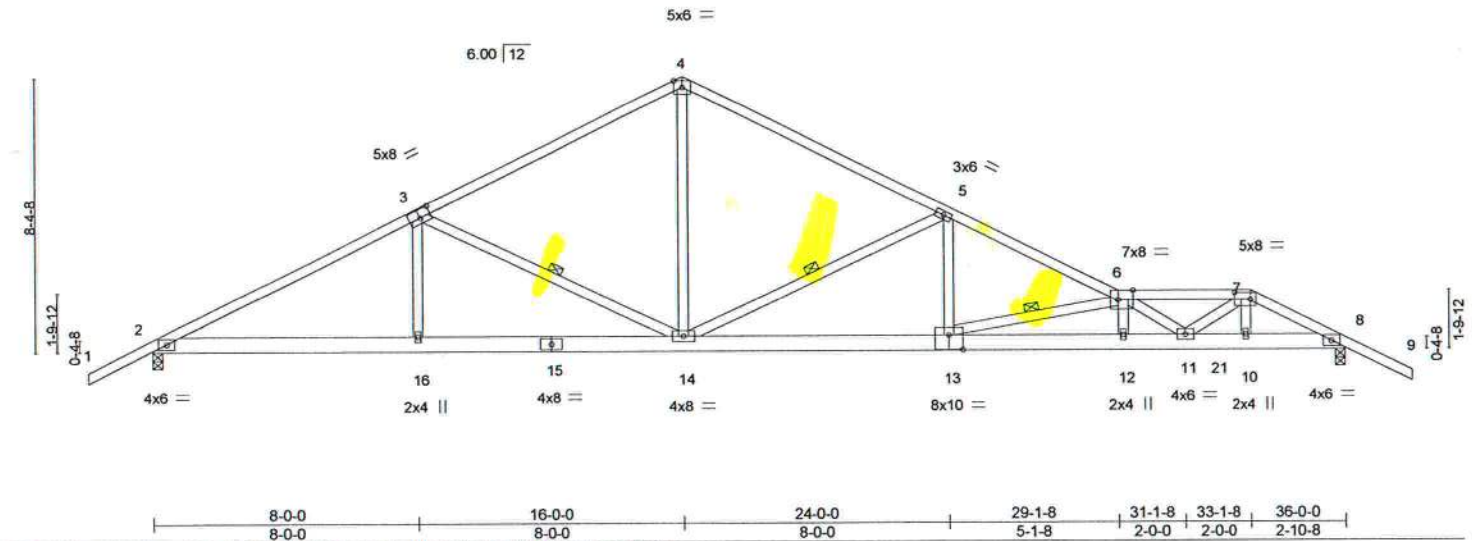
MiTek
6904 Parke East Blvd.
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Job 2714404	Truss T06	Truss Type Roof Special Girder	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. T23198606
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:23 2021 Page 1
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Scale = 1:67.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.27 12-13 >999	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.50 12-13 >858				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.09 8 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 215 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-4,4-6: 2x4 SP M 31
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-10-14 oc bracing: 12-13
8-11-0 oc bracing: 11-12.
WEBS 1 Row at midpt 3-14, 5-14, 6-13

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=134(LC 12)
Max Uplift 2=-325(LC 8), 8=-473(LC 9)
Max Grav 2=1490(LC 1), 8=1842(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2595/504, 3-4=-1896/425, 4-5=-1895/398, 5-6=-3420/748, 6-7=-4681/1102,
7-8=-3538/857
BOT CHORD 2-16=-473/2252, 14-16=-473/2251, 13-14=-551/3041, 12-13=-1248/5799,
11-12=-1241/5786, 10-11=-706/3167, 8-10=-700/3134
WEBS 3-16=0/350, 3-14=-741/294, 4-14=-217/1201, 5-14=-1606/503, 5-13=-172/1001,
6-13=-2864/723, 6-11=-1455/411, 7-10=-65/327, 7-11=-390/1863

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCPI=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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=325, 8=473.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 121 lb down and 60 lb up at 33-1-8 on top chord, and 456 lb down and 144 lb up at 32-0-12, and 77 lb down and 51 lb up at 33-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-7=-54, 7-9=-54, 2-8=-20

Continued on page 2



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Date:

March 15,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198606
2714404	T06	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:23 2021 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 7=-2(B) 10=6(B) 21=-456(B)



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 2714404	Truss T07	Truss Type Roof Special	Qty 1	Ply 1	GIEBIG - SULLIVAN RES. T23198607
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:24 2021 Page 1

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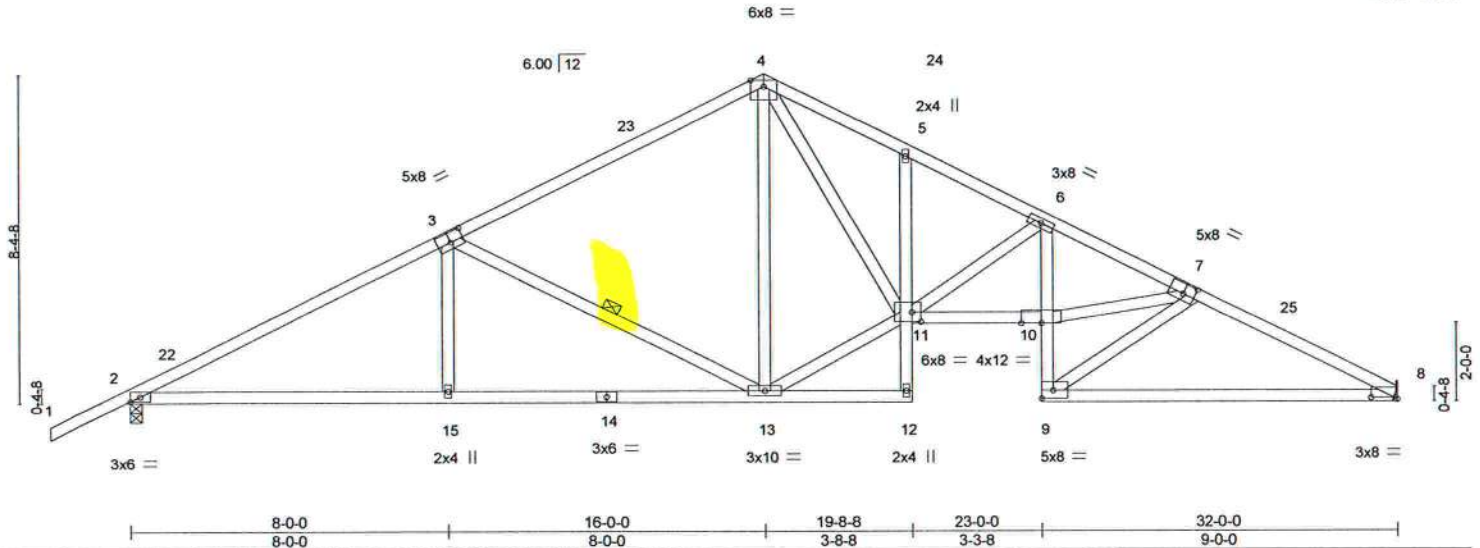


Plate Offsets (X,Y) - [3:0-4-0,0-3-0], [7:0-3-8,0-3-0], [8:0-8-0,0-0-7], [11:0-2-12,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.23 10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.47 9-21	>823	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.23 8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 183 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-12: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
7-10: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-7-8 oc bracing.
WEBS 1 Row at midpt 3-13

REACTIONS. (size) 2=0-3-8, 8=Mechanical
Max Horz 2=148(LC 12)
Max Uplift 2=290(LC 12), 8=245(LC 13)
Max Grav 2=1295(LC 1), 8=1181(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2134/419, 3-4=-1442/346, 4-5=-2348/536, 5-6=-2392/496, 6-7=-3348/646,
7-8=-2182/465
BOT CHORD 2-15=-414/1838, 13-15=-414/1838, 10-11=-473/3005, 9-10=-251/1477, 6-10=-150/893,
8-9=-357/1920
WEBS 3-15=0/341, 3-13=-732/292, 11-13=-168/1336, 4-11=-326/1754, 6-11=-1098/269,
7-10=-465/2876, 7-9=-2265/440

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 2-0-0 to 1-2-6, Interior(1) 1-2-6 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior(1) 19-2-6 to 32-0-0 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=290, 8=245.



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March 15,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss T08	Truss Type Roof Special	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. Job Reference (optional)	T23198608
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:25 2021 Page 1

ID:uyulB3tu7Xcx?0MVQ7vmDBzb4bA-2i_nLSAisfT?3CdIiWMBZ72QSVn_P9YqSvthzamt8

-2-0-0	8-0-0	16-0-0	19-8-8	23-0-0	26-10-0	32-0-0	34-0-0
2-0-0	8-0-0	8-0-0	3-8-8	3-3-8	3-10-0	5-2-0	2-0-0

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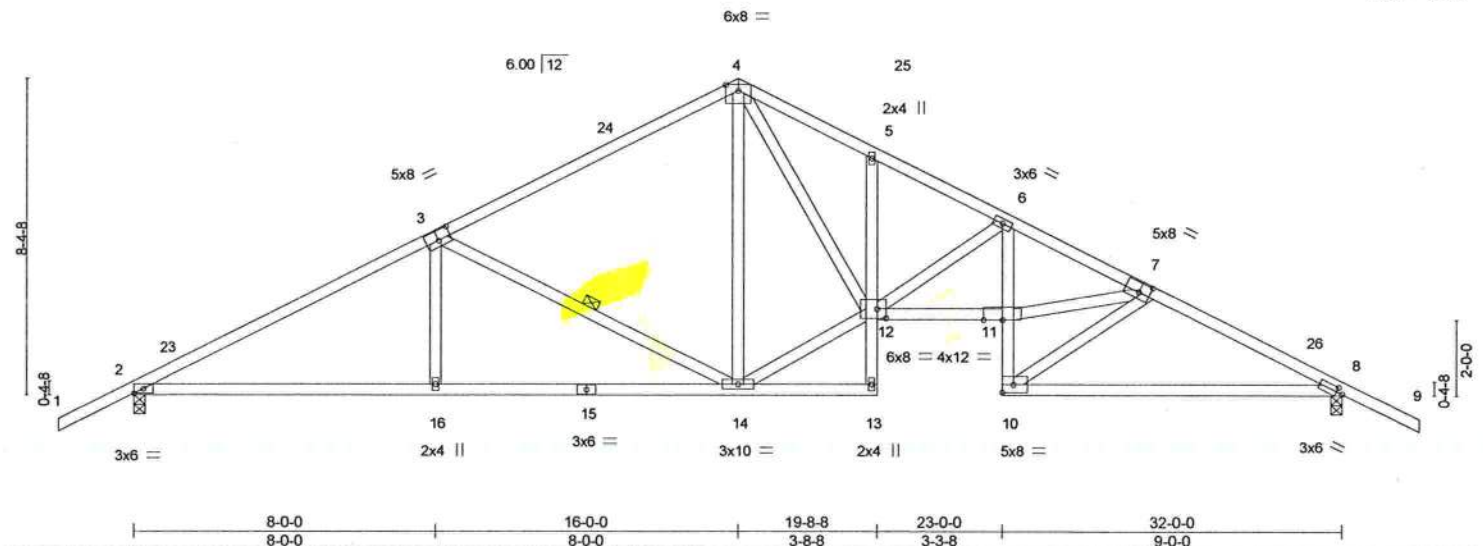


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [7:0-3-8,0-3-0], [8:0-1-15,0-1-8], [12:0-2-12,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.70	Vert(LL)	-0.23 11-12	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.46 10-22	>837	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.23 8	n/a	n/a
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS				
				Weight: 186 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 9-2-1 oc bracing.
	5-13: 2x4 SP No.3	WEBS	1 Row at midpt 3-14
WEBS	2x4 SP No.3 *Except*		
	7-11: 2x4 SP No.2		

REACTIONS.	
(size)	2=0-3-8, 8=0-3-8
Max Horz	2=134(LC 12)
Max Uplift	2=-289(LC 12), 8=-289(LC 13)
Max Grav	2=1292(LC 1), 8=1292(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2126/417, 3-4=-1435/344, 4-5=-2331/512, 5-6=-2375/457, 6-7=-3315/586, 7-8=-2160/447
BOT CHORD	2-16=-398/1832, 14-16=-398/1831, 11-12=-405/2976, 10-11=-215/1449, 6-11=-127/869, 8-10=-309/1882
WEBS	3-16=0/341, 3-14=-732/292, 12-14=-150/1328, 4-12=-290/1737, 6-12=-1081/250, 7-11=-405/2857, 7-10=-2228/386

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 2-0-0 to 1-2-6, Interior(1) 1-2-6 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior(1) 19-2-6 to 34-0-0 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=289, 8=289.



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Date:

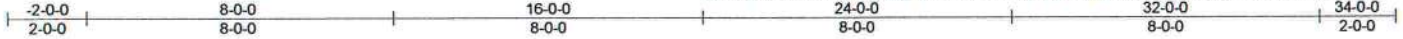
March 15,2021

Job 2714404	Truss T09	Truss Type Common	Qty 2	Ply 1	GIEBIG - SULLIVAN RES. T23198609
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:26 2021 Page 1

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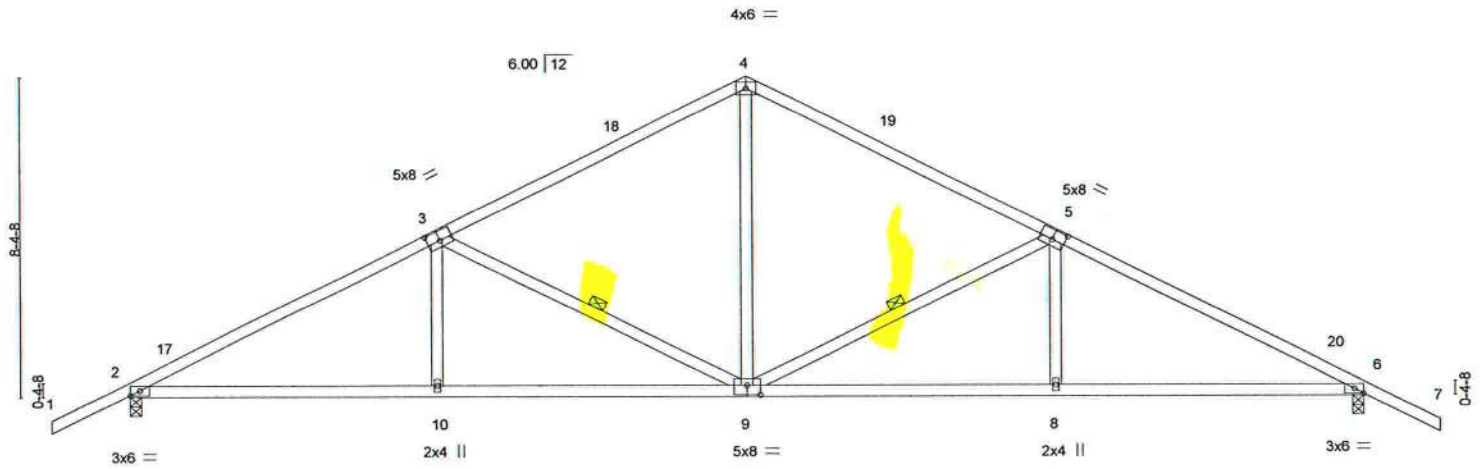


Plate Offsets (X,Y) -	[3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-2-15,Edge], [9:0-4-0,0-3-0]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.71	Vert(LL) -0.11	9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.73	Vert(CT) -0.24	9-10	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.09	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 156 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 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-2-1 oc bracing.
WEBS 1 Row at midpt 5-9, 3-9

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-134(LC 13)
Max Uplift 2=-289(LC 12), 6=-289(LC 13)
Max Grav 2=1292(LC 1), 6=1292(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2123/418, 3-4=-1439/344, 4-5=-1439/344, 5-6=-2123/418
BOT CHORD 2-10=-399/1829, 9-10=-399/1828, 8-9=-272/1828, 6-8=-272/1829
WEBS 4-9=-126/804, 5-9=-730/294, 5-8=0/332, 3-9=-730/293, 3-10=0/332

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-2-6, Interior(1) 1-2-6 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior(1) 19-2-6 to 34-0-0 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=289, 6=289.



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

March 15,2021



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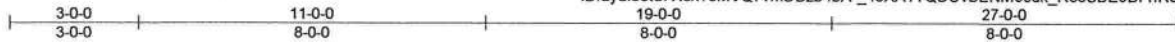
6904 Parke East Blvd.
Tampa, FL 36610

Job 2714404	Truss T10	Truss Type Common	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. T23198610
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:27 2021 Page 1

ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-_46XA1TQDUvBENM0sdk_RceSBE9Dr1fR08x0xZzam6



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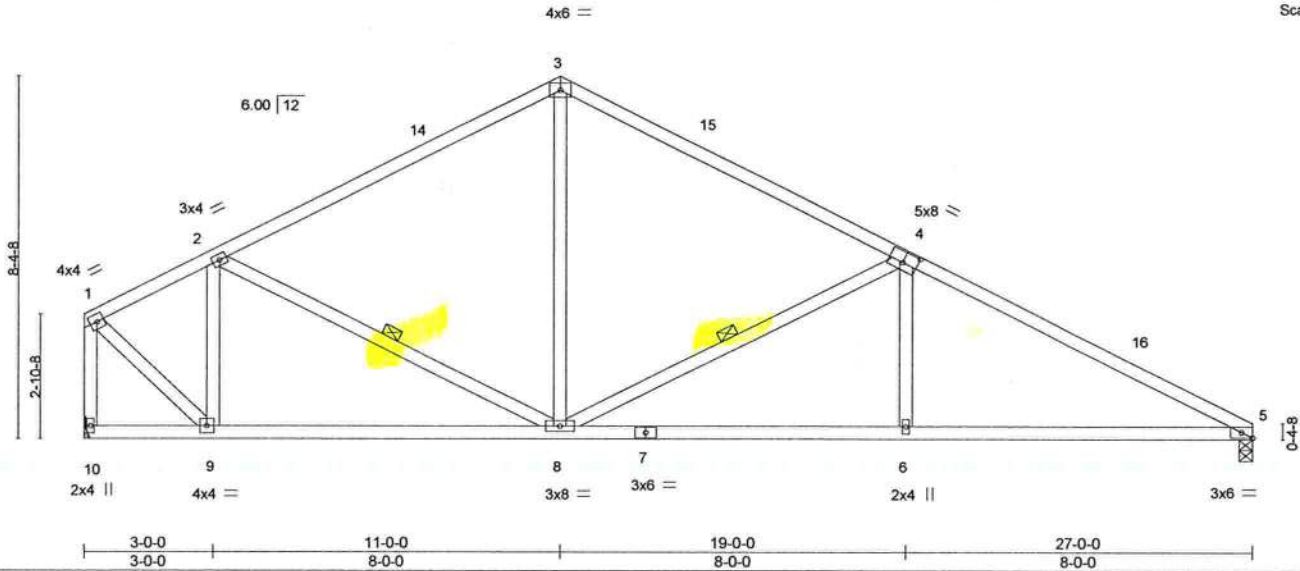


Plate Offsets (X,Y)-- [4:0-4-0,0-3-0], [5:0-2-15,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	0.11	6-13	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.23	6-13	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.04	5	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 143 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 1 Row at midpt 2-8, 4-8

REACTIONS. (size) 10=Mechanical, 5=0-3-8
Max Horz 10=169(LC 13)
Max Uplift 10=184(LC 12), 5=216(LC 13)
Max Grav 10=994(LC 1), 5=994(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-782/184, 2-3=-1030/283, 3-4=-1034/284, 4-5=-1740/373, 1-10=-993/221
BOT CHORD 8-9=-170/709, 6-8=-260/1488, 5-6=-260/1489
WEBS 3-8=-69/513, 4-8=-756/306, 4-6=0/335, 1-9=-219/976, 2-9=-529/189

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-0-0, Interior(1) 3-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 27-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=184, 5=216.



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Date:

March 15, 2021

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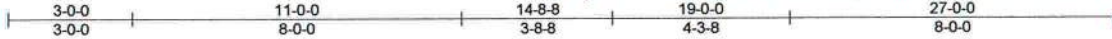
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198611
2714404	T11	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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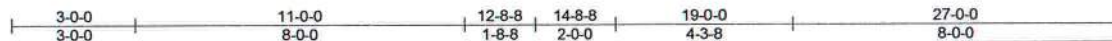
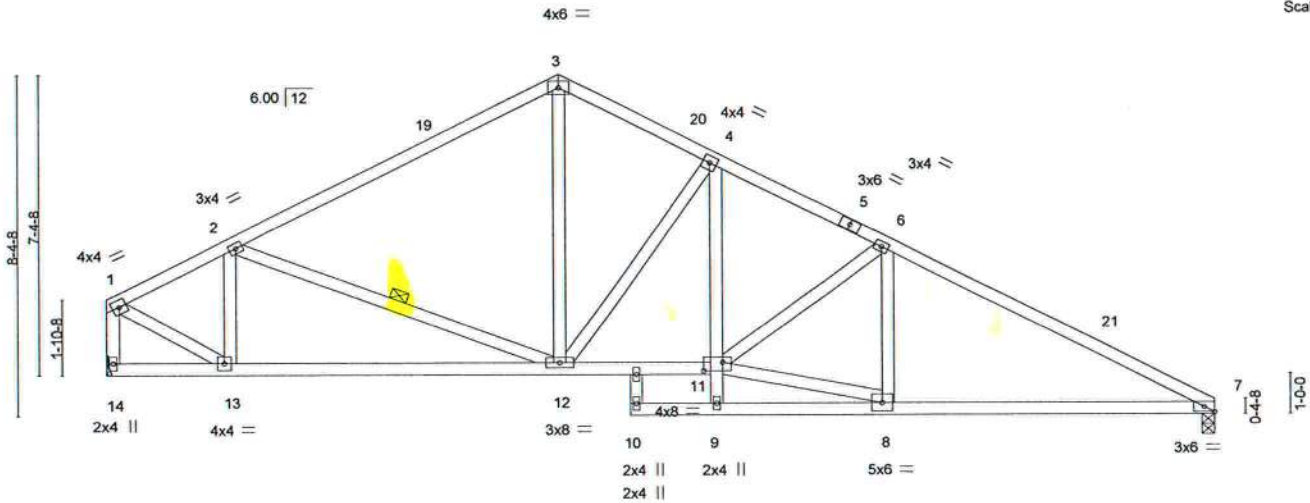


Plate Offsets (X,Y) - [7:0-2-15,Edge], [11:0-5-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	0.12	8-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.26	8-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.05	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 159 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-9: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14.
10-0-0 oc bracing: 9-11
1 Row at midpt 2-12
WEBS

REACTIONS. (size) 14=Mechanical, 7=0-3-8
Max Horz 14=-169(LC 13)
Max Uplift 14=-179(LC 12), 7=-215(LC 13)
Max Grav 14=1015(LC 1), 7=1015(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1063/231, 2-3=-1194/288, 3-4=-1112/302, 4-6=-1577/352, 6-7=-1769/360,
1-14=-1013/209
BOT CHORD 12-13=-209/962, 11-12=-152/1348, 4-11=-124/560, 7-8=-246/1510
WEBS 2-13=-427/164, 3-12=-121/668, 4-12=-637/205, 8-11=-240/1514, 1-13=-239/1126

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-0-0, Interior(1) 3-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 27-0-0 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=179, 7=215.



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MiTek USA, Inc. FL Cert 6634
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Date:

March 15, 2021

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Tampa, FL 36610

Job 2714404	Truss T12	Truss Type Roof Special Girder	Qty 1	Ply 2	GIEBIEG - SULLIVAN RES. T23198612
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

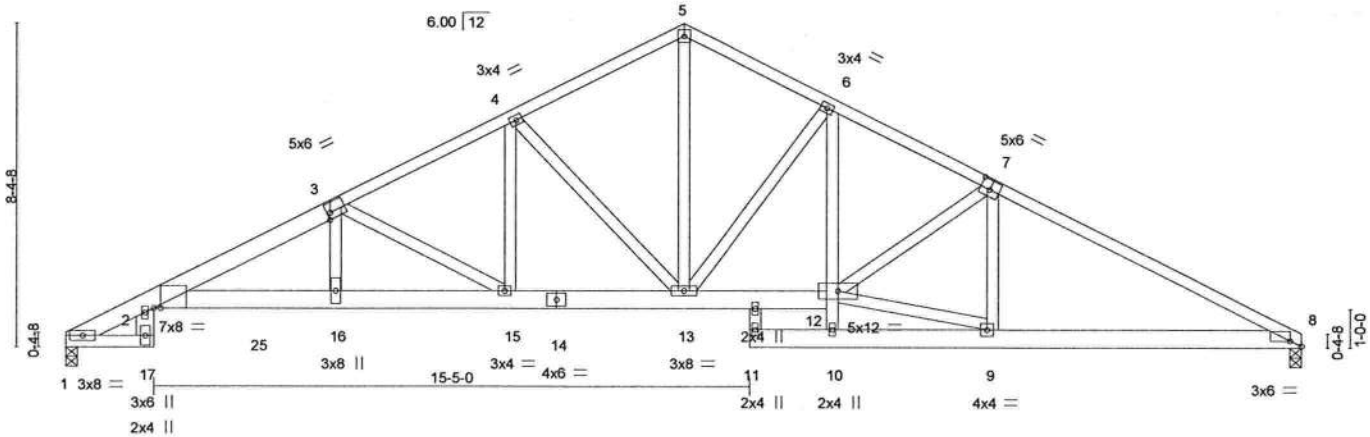
8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:29 2021 Page 1

ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-xTEIbiVh159vThWP_2nSW1jnw1q4JwakTRQ70Szamt4

2-3-8	7-0-0	11-6-0	16-0-0	19-8-8	24-0-0	32-0-0
2-3-8	4-8-8	4-6-0	4-6-0	3-8-8	4-3-8	8-0-0

4x4 =

Scale = 1:57.4



2-3-8	7-0-0	11-6-0	16-0-0	19-8-8	24-0-0	32-0-0
2-3-8	4-8-8	4-6-0	4-6-0	3-8-8	4-3-8	8-0-0

Plate Offsets (X,Y)=[2:0-2-3,0-0-0], [3:Edge,0-2-0], [7:0-3-0,0-3-0], [8:0-3-7,0-1-10]

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 0.77	Vert(LL)	-0.25	2-16	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.45	2-16	>844	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.24	8	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 422 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-3: 2x6 SP M 26	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2 *Except* 1-17: 2x4 SP No.2, 2-14: 2x6 SP M 26, 6-10: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 10-12
WEBS 2x4 SP No.3	

REACTIONS. (size) 1=0-3-8, 8=0-3-8
Max Horz 1=120(LC 8)
Max Uplift 1=-451(LC 8), 8=-275(LC 9)
Max Grav 1=2204(LC 1), 8=1382(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-1607/367, 2-3=-5308/1093, 3-4=-2974/599, 4-5=-2091/426, 5-6=-2080/442,
6-7=-2609/487, 7-8=-2617/501
BOT CHORD 1-17=-84/359, 2-17=-182/803, 2-16=-1057/4891, 15-16=-1076/4989, 13-15=-486/2595,
12-13=-302/2279, 6-12=-123/662, 8-9=-361/2267
WEBS 3-16=-315/1634, 3-15=-2696/664, 4-15=-204/990, 4-13=-1121/339, 5-13=-303/1586,
6-13=-752/218, 9-12=-336/2142, 7-9=-365/98

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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 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 plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=451, 8=275.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1186 lb down and 264 lb up at 4-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- Filler applied to ply: 1(Front)

LOAD CASE(S) Standard



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Date:

March 15, 2021



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.
2714404	T12	Roof Special Girder	1	2	T23198612

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:29 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 2-21=-54, 2-5=-54, 5-8=-54, 1-17=-20, 2-12=-20, 10-11=-20, 8-10=-20

Concentrated Loads (lb)

Vert: 25=-1186(F)



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6904 Parke East Blvd.
Tampa, FL 36610

Job 2714404	Truss T13	Truss Type Roof Special	Qty 5	Ply 1	GIEBIEG - SULLIVAN RES. T23198613
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:30 2021 Page 1

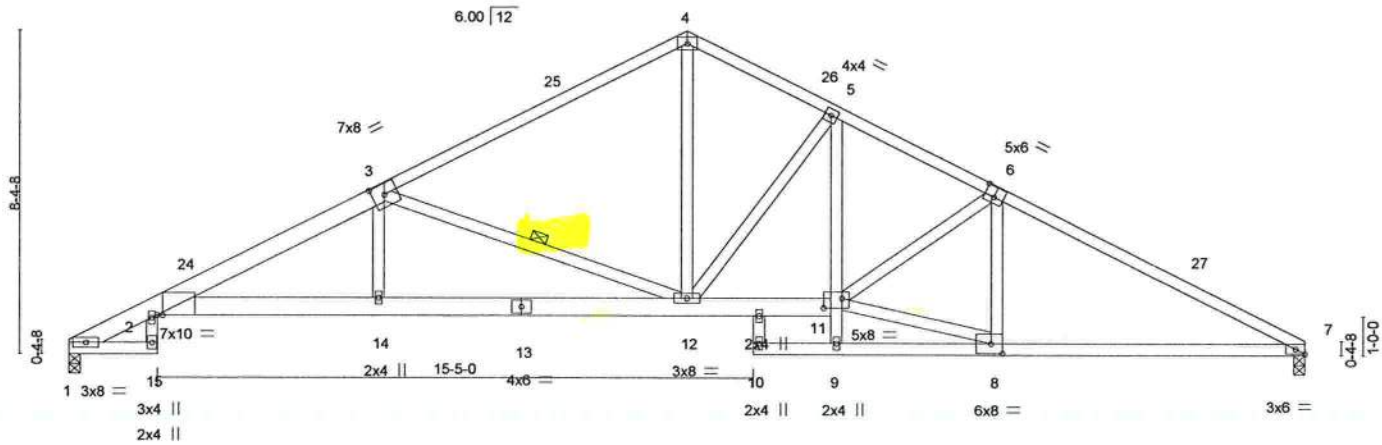
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Job Reference (optional)

3-3-8	8-0-0	16-0-0	19-8-8	24-0-0	32-0-0
3-3-8	4-8-8	8-0-0	3-8-8	4-3-8	8-0-0

4x6 =

Scale = 1:57.4



2-3-8	3-3-8	8-0-0	16-0-0	17-8-8	19-8-8	24-0-0	32-0-0
2-3-8	1-0-0	4-8-8	8-0-0	1-8-8	2-0-0	4-3-8	8-0-0

Plate Offsets (X,Y) - [2-0-1-11,0-0-0], [3-0-3-12,0-3-4], [6-0-3-0,0-3-4], [7-0-2-15,Edge], [8-0-3-8,0-3-0], [11-0-5-12,0-3-0]

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 0.77	Vert(LL)	-0.27	2-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.78	Vert(CT)	-0.51	2-14	>747	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.28	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 191 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
2-15,5-9: 2x4 SP No.3, 2-13: 2x6 SP M 26, 11-13: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-9-9 oc bracing. Except:
10-0-0 oc bracing: 9-11
WEBS 1 Row at midpt 3-12

REACTIONS. (size) 1=0-3-8, 7=0-3-8
Max Horz 1=120(LC 12)
Max Uplift 1=238(LC 12), 7=237(LC 13)
Max Grav 1=1198(LC 1), 7=1204(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-747/202, 2-3=-2875/576, 3-4=-1682/361, 4-5=-1598/374, 5-6=-2137/428,
6-7=-2179/412
BOT CHORD 2-15=-82/350, 2-14=-565/2587, 12-14=-564/2567, 11-12=-226/1849, 5-11=-132/668,
7-8=-293/1876
WEBS 3-14=-25/518, 3-12=-1245/428, 4-12=-189/1099, 5-12=-730/214, 8-11=-285/1871,
6-8=-354/98

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior(1) 19-2-6 to 32-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=238, 7=237.



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Date:

March 15,2021

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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss T14	Truss Type Common	Qty 4	Ply 1	GIEBIG - SULLIVAN RES. Job Reference (optional)	T23198614
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:31 2021 Page 1
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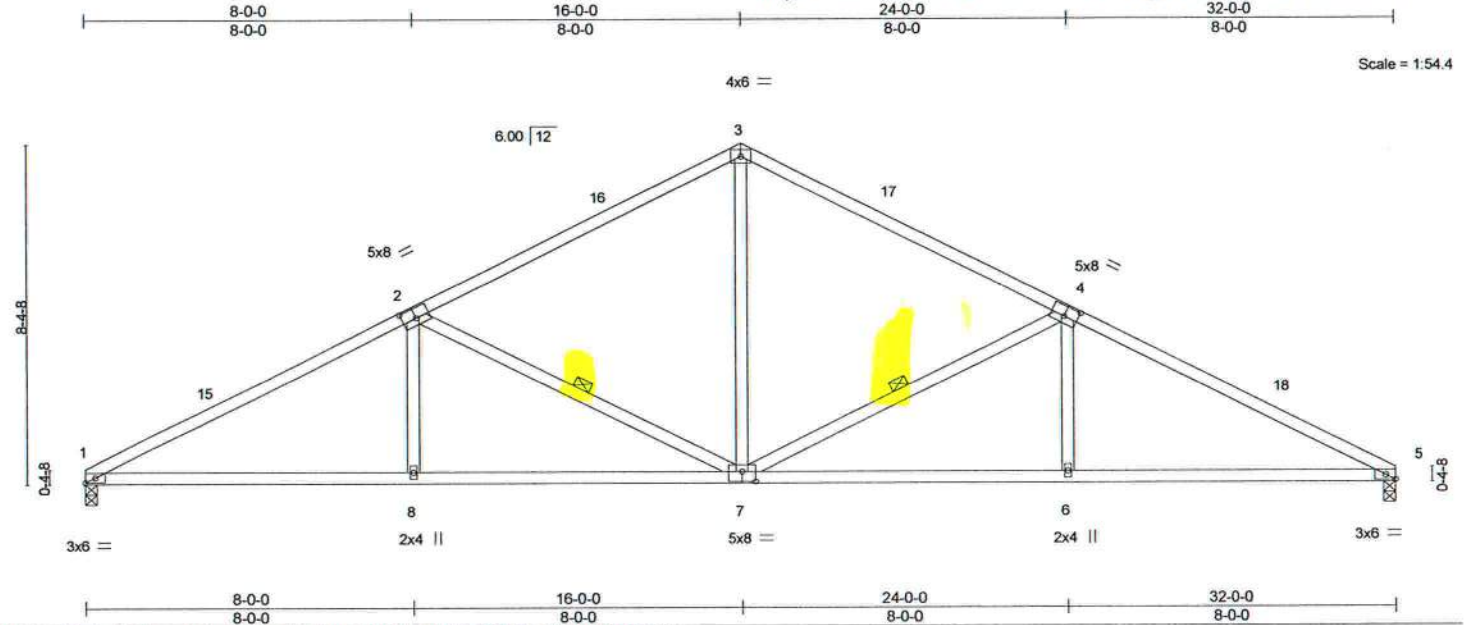


Plate Offsets (X,Y)-- [2:0-4-0,0-3-0], [4:0-4-0,0-3-0], [5:0-2-15,Edge], [7:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	-0.12	8-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.26	8-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.09	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 150 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 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-8-13 oc bracing.
WEBS 1 Row at midpt 4-7, 2-7

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=119(LC 12)
Max Uplift 1=-246(LC 12), 5=-246(LC 13)
Max Grav 1=1184(LC 1), 5=1184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2157/434, 2-3=-1454/356, 3-4=-1454/356, 4-5=-2157/434
BOT CHORD 1-8=-428/1862, 7-8=-428/1861, 6-7=-315/1861, 5-6=-315/1862
WEBS 3-7=-138/820, 4-7=-754/306, 4-6=0/335, 2-7=-754/305, 2-8=0/335

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-2-6, Interior(1) 3-2-6 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior(1) 19-2-6 to 32-0-0 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=246, 5=246.



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Date:

March 15,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss T15	Truss Type Roof Special Girder	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. T23198615
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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4-3-3	8-4-9	12-6-0	16-7-7	20-8-13	25-0-0	27-11-5	32-0-0	34-0-0
4-3-3	4-1-7	4-1-7	4-1-7	4-1-7	4-3-3	2-11-5	4-0-11	2-0-0

Scale = 1:56.1

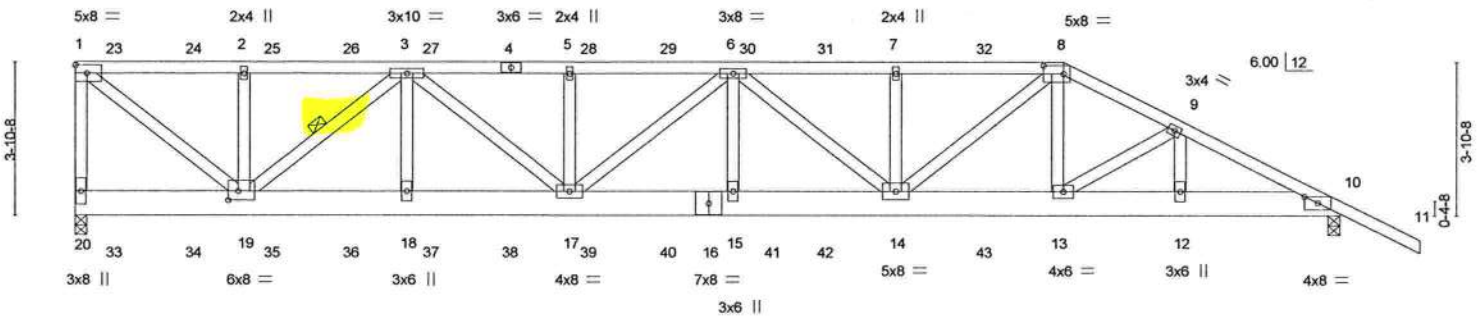


Plate Offsets (X,Y)--	[8:0-6-0,0-2-8], [10:0-4-0,0-1-15], [19:0-3-0,0-2-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.79	Vert(LL)	-0.25	15	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.30	Vert(CT)	-0.47	15-17	>813	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.07	10	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 232 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-8: 2x4 SP M 31
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
1-19,3-19,3-17,6-17,6-14,8-14: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-8 oc bracing.
WEBS 1 Row at midpt 3-19

REACTIONS. (size) 20=0-3-8, 10=0-3-8
Max Horz 20=150(LC 24)
Max Uplift 20=683(LC 4), 10=651(LC 9)
Max Grav 20=2539(LC 1), 10=2400(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=2359/680, 1-2=2615/704, 2-3=2615/704, 3-5=5515/1509, 5-6=5515/1509, 6-7=5328/1505, 7-8=5328/1505, 8-9=4570/1320, 9-10=4509/1244
BOT CHORD 18-19=1160/4536, 17-18=1160/4536, 15-17=1547/5893, 14-15=1547/5893, 13-14=1108/4089, 12-13=1062/3992, 10-12=1062/3992
WEBS 1-19=899/3355, 2-19=468/244, 3-19=2498/693, 3-18=0/418, 3-17=354/1275, 5-17=430/225, 6-17=492/171, 6-15=0/417, 6-14=736/183, 7-14=461/243, 8-14=407/1589, 8-13=159/655

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=683, 10=651.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 112 lb down and 87 lb up at 0-11-4, 106 lb down and 88 lb up at 2-11-4, 106 lb down and 88 lb up at 4-11-4, 106 lb down and 88 lb up at 6-11-4, 106 lb down and 88 lb up at 8-11-4, 106 lb down and 88 lb up at 10-11-4, 106 lb down and 88 lb up at 12-11-4, 106 lb down and 88 lb up at 14-11-4, 106 lb down and 88 lb up at 16-11-4, 106 lb down and 88 lb up at 18-11-4, 106 lb down and 88 lb up at 20-11-4, and 106 lb down and 88 lb up at 22-11-4, and 174 lb down and 171 lb up at 25-0-0 on top chord, and 89 lb down at 0-11-4, 85 lb down at 2-11-4, 85 lb down at 4-11-4, 85 lb down at 6-11-4, 85 lb down at 8-11-4, 85 lb down at 10-11-4, 85 lb down at 12-11-4, 85 lb down at 14-11-4, 85 lb down at 16-11-4, 85 lb down at 18-11-4, 85 lb down at 20-11-4, and 85 lb down at 22-11-4, and 296 lb down and 149 lb up at 24-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2
LOAD CASE(S) Standard



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Date:

March 15,2021



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.
2714404	T15	Roof Special Girder	1	1	T23198615
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-8=-54, 8-11=-54, 10-20=-20

Concentrated Loads (lb)

Vert: 4=-106(B) 8=-174(B) 7=-106(B) 14=-61(B) 13=-290(B) 23=-112(B) 24=-106(B) 25=-106(B) 26=-106(B) 27=-106(B) 28=-106(B) 29=-106(B) 30=-106(B)
31=-106(B) 32=-106(B) 33=-63(B) 34=-61(B) 35=-61(B) 36=-61(B) 37=-61(B) 38=-61(B) 39=-61(B) 40=-61(B) 41=-61(B) 42=-61(B) 43=-61(B)

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2714404	Truss T16	Truss Type Roof Special	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. T23198616
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-HR1BeQZpadnBaSPMnbNdD5QdE2W5_7WTdj8uhfzamt?

7-8-9	15-3-7	23-0-0	27-2-8	32-0-0	34-0-0
7-8-9	7-6-13	7-8-9	4-2-8	4-9-8	2-0-0

Scale = 1:56.1

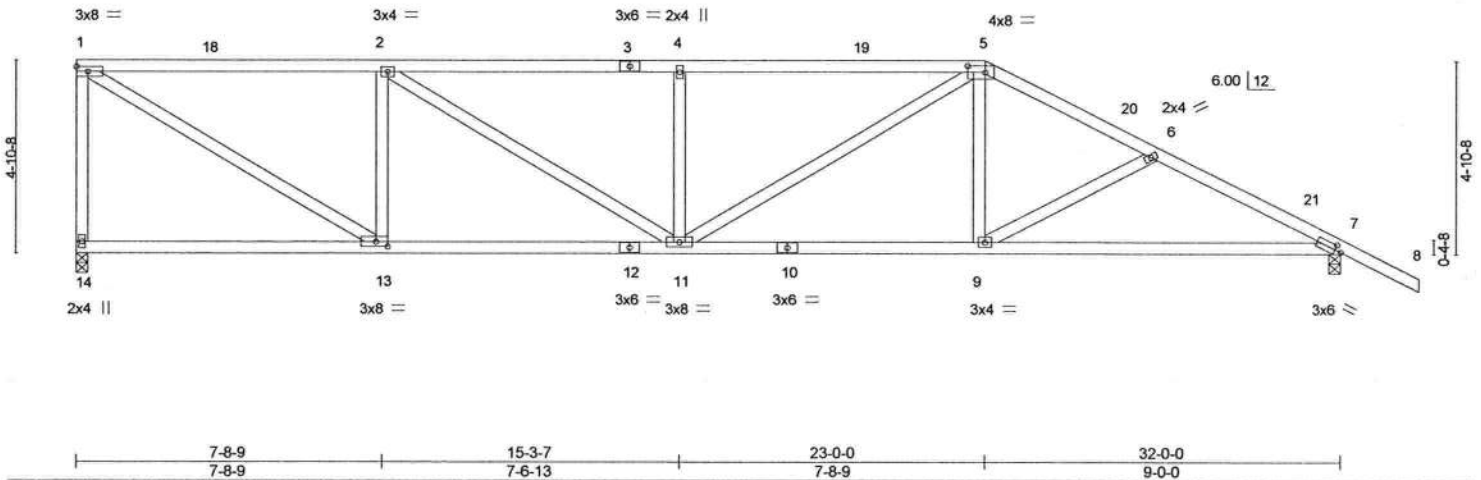


Plate Offsets (X,Y)-- [5:0-5-4,0-2-0], [7:0-1-15,0-1-8], [13:0-3-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.86	Vert(LL)	-0.15	9-17	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.32	9-17	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.06	7	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 171 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 14=0-3-8, 7=0-3-8
Max Horz 14=185(LC 13)
Max Uplift 14=308(LC 8), 7=229(LC 13)
Max Grav 14=1175(LC 1), 7=1290(LC 1)

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

TOP CHORD 1-14=1107/326, 1-2=-1562/406, 2-4=-2111/542, 4-5=-2111/542, 5-6=-1936/424, 6-7=-2184/443
BOT CHORD 11-13=-308/1562, 9-11=-287/1696, 7-9=-341/1911
WEBS 1-13=-464/1790, 2-13=-765/292, 2-11=-159/641, 4-11=-435/211, 5-11=-204/483, 5-9=-24/402, 6-9=-254/162

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 23-0-0, Exterior(2R) 23-0-0 to 26-2-6, Interior(1) 26-2-6 to 34-0-0 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=308, 7=229.



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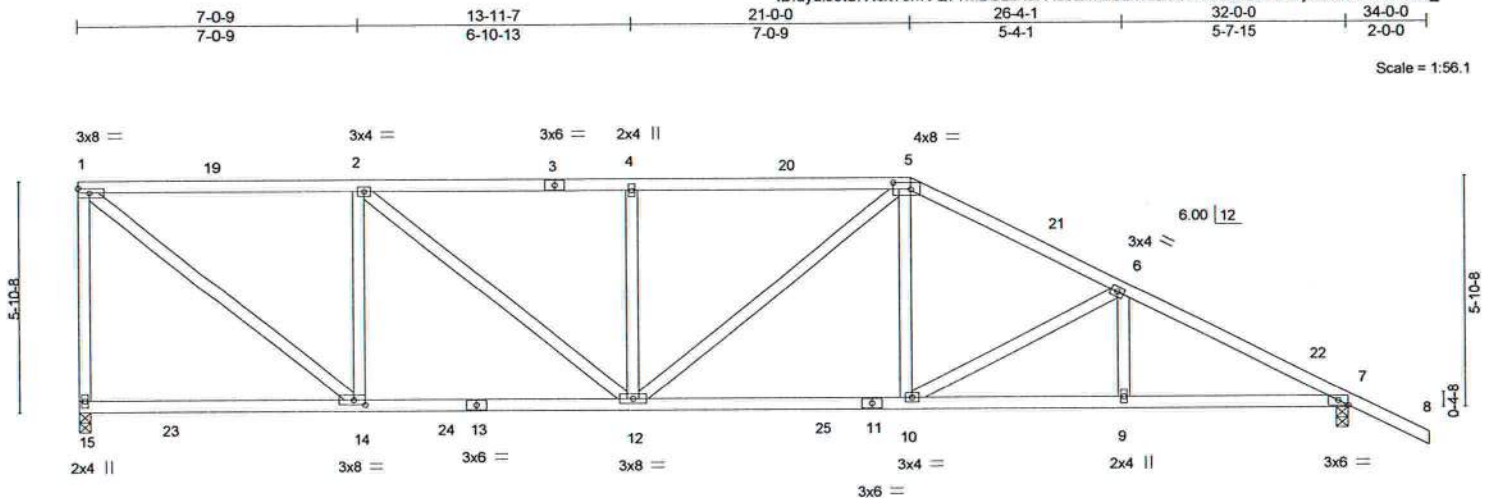
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		7-0-9		13-11-7		21-0-0		26-4-1		32-0-0	
		7-0-9		6-10-13		7-0-9		5-4-1		5-7-15	
Plate Offsets (X,Y)-- [5:0-5-4,0-2-0], [7:0-2-15,Edge], [14:0-3-8,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		I/defl		L/d	
TCLL	20.0	Plate Grip DOL 1.25		TC 0.94		Vert(LL) -0.16 10-12		>999		240	
TCDL	7.0	Lumber DOL 1.25		BC 0.69		Vert(CT) -0.29 10-12		>999		180	
BCLL	0.0 *	Rep Stress Incr YES		WB 0.64		Horz(CT) 0.07 7		n/a		n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
										PLATES	
										GRIP	
										MT20	
										244/190	
										Weight: 182 lb	
										FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-7-0 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		

REACTIONS. (size) 15=0-3-8, 7=0-3-8
Max Horz 15=-219(LC 13)
Max Uplift 15=-303(LC 8), 7=-244(LC 13)
Max Grav 15=1323(LC 2), 7=1378(LC 2)

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

TOP CHORD	1-15=1192/319, 1-2=1330/305, 2-4=1875/424, 4-5=1875/424, 5-6=1957/377, 6-7=2401/404
BOT CHORD	12-14=194/1330, 10-12=224/1713, 9-10=292/2104, 7-9=292/2104
WEBS	1-14=385/1683, 2-14=804/289, 2-12=153/701, 4-12=395/193, 5-10=50/476, 6-10=471/189

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDD=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=-0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 21-0-0, Exterior(2R) 21-0-0 to 24-2-6, Interior(1) 24-2-6 to 34-0-0 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=303, 7=244.



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Date:

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6-7-6	12-4-10	19-0-0	25-1-14	32-0-0
6-7-6	5-9-5	6-7-6	6-1-14	6-10-2

Scale = 1:53.7

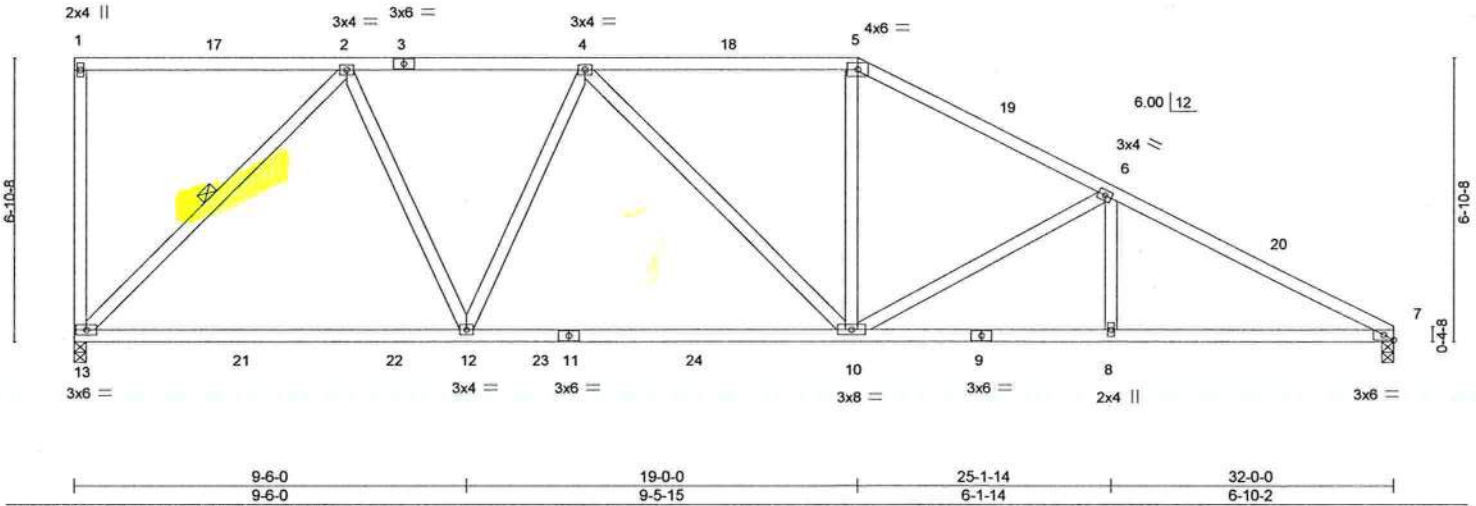


Plate Offsets (X,Y)-- [7-0-2-15,Edge]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL 1.25	TC 0.46	Vert(LL)	-0.23 10-12	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL 1.25	BC 0.82	Vert(CT)	-0.39 10-12	>968	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT)	0.07 7	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS							
							Weight: 178 lb	FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
 11-13: 2x4 SP M 31
WEBS 2x4 SP No.3

BRACING- TOP CHORD	Structural wood sheathing directly applied or 3-3-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 2-13

REACTIONS. (size) 13=0-3-8, 7=0-3-8
 Max Horz 13=-224(LC 13)
 Max Uplift 13=-298(LC 8), 7=-212(LC 13)
 Max Grav 13=1337(LC 2), 7=1291(LC 2)

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

TOP CHORD	2-4=-1402/279, 4-5=-1581/335, 5-6=-1824/337, 6-7=-2369/398
BOT CHORD	12-13=-143/1062, 10-12=-2071/1543, 8-10=-296/2084, 7-8=-296/2084
WEBS	2-13=-1485/346, 2-12=-95/846, 4-12=-418/165, 5-10=-27/533, 6-10=-595/245, 6-8-0/253

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 19-0-0, Exterior(2R) 19-0-0 to 22-2-6, Interior(1) 22-2-6 to 32-0-0 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCdL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=298, 7=212.



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

March 15, 2021



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Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:36 2021 Page 1
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Job 2714404	Truss T20	Truss Type Hip Girder	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. T23198620
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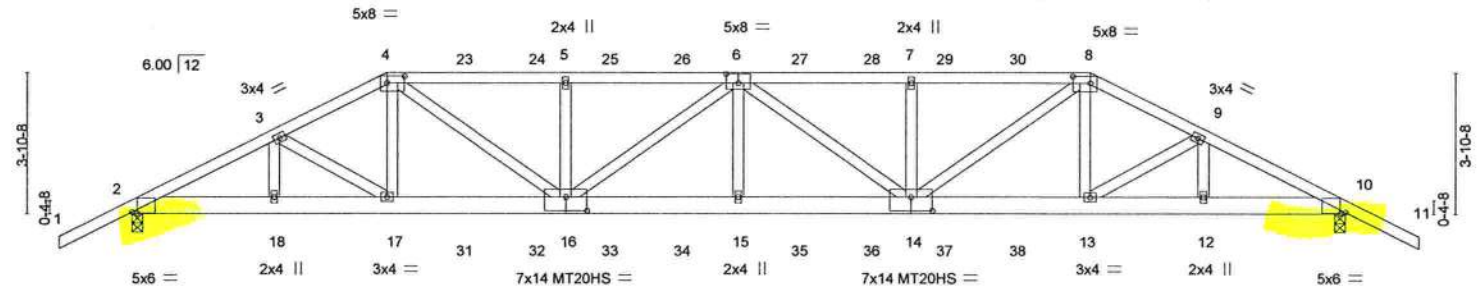
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:38 2021 Page 1

ID:uyul83tu7Xcx70MVQ7vmDBzb4bA-ACGiTncKesId33i70RRZOxbN0fr9wuv3YL65pQzamsx

-2-0-0	3-10-15	7-0-0	11-10-14	16-8-0	21-5-2	26-4-0	29-5-1	33-4-0	35-4-0
2-0-0	3-10-15	3-1-1	4-10-14	4-9-2	4-9-2	4-10-14	3-1-1	3-10-15	2-0-0

Scale = 1:60.8



3-10-15 7-0-0 11-10-14 16-8-0 21-5-2 26-4-0 29-5-1 33-4-0									
3-10-15 3-1-1 4-10-14 4-9-2 4-9-2 4-10-14 3-1-1 3-10-15									
Plate Offsets (X,Y)-- [2-0-1-11,0-0-6], [4-0-5-12,0-2-4], [6-0-4-0,0-3-0], [8-0-5-12,0-2-4], [10-0-1-11,0-0-6], [14-0-7-0,0-4-8], [16-0-7-0,0-4-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.56		Vert(LL) 0.44 15	>911 240	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.99		Vert(CT) -0.65 15	>620 180	MT20HS	187/143
BCLL 0.0 *		Rep Stress Incr NO		WB 0.79		Horz(CT) 0.16 10	n/a n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS				Weight: 207 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 "Except"
4-6,6-8: 2x4 SP M 31
BOT CHORD 2x6 SP No.2 "Except"
14-16: 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-0-10 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=67(LC 31)
Max Uplift 2=-1123(LC 5), 10=-1149(LC 4)
Max Grav 2=2504(LC 1), 10=2543(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4909/2325, 3-4=-4820/2339, 4-5=-5957/2946, 5-6=-5955/2945, 6-7=-5994/2967,
7-8=-5995/2968, 8-9=-4908/2399, 9-10=-4995/2384
BOT CHORD 2-18=-2065/4359, 17-18=-2065/4359, 16-17=-2059/4313, 15-16=-3176/6537,
14-15=-3176/6537, 13-14=-2080/4391, 12-13=-2085/4436, 10-12=-2085/4436
WEBS 4-17=-272/652, 4-16=-1047/2062, 5-16=-547/281, 6-16=-760/388, 6-15=-143/431,
6-14=-702/350, 7-14=-546/281, 8-14=-1009/2004, 8-13=-272/652

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; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and 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) All plates are MT20 plates 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1123, 10=1149.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 88 lb up at 13-0-12, 106 lb down and 88 lb up at 15-0-12, 106 lb down and 81 lb up at 16-8-0, 106 lb down and 88 lb up at 18-3-4, 106 lb down and 88 lb up at 20-3-4, 106 lb down and 88 lb up at 22-3-4, and 106 lb down and 88 lb up at 24-3-4, and 221 lb down and 171 lb up at 26-4-0 on top chord, and 296 lb down and 209 lb up at 7-0-0, 85 lb down and 59 lb up at 9-0-12, 85 lb down and 59 lb up at 11-0-12, 85 lb down and 59 lb up at 13-0-12, 85 lb down and 59 lb up at 15-0-12, 85 lb down and 59 lb up at 16-8-0, 85 lb down and 59 lb up at 18-3-4, 85 lb down and 59 lb up at 20-3-4, 85 lb down and 59 lb up at 22-3-4, and 85 lb down and 59 lb up at 24-3-4, and 296 lb down and 209 lb up at 26-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

On truss top and CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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Date:

March 15,2021



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6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198620
2714404	T20	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:38 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 8-11=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-106(B) 8=-174(B) 17=-290(B) 6=-106(B) 15=-61(B) 13=-290(B) 23=-106(B) 24=-106(B) 25=-106(B) 26=-106(B) 27=-106(B) 28=-106(B) 29=-106(B)
30=-106(B) 31=-61(B) 32=-61(B) 33=-61(B) 34=-61(B) 35=-61(B) 36=-61(B) 37=-61(B) 38=-61(B)



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
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Job 2714404	Truss T21	Truss Type Hip	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. T23198621
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:39 2021 Page 1

ID:uyul83tu7Xcx?0MVQ7vmDBzb4bA-eOq4h7dyP9QUgDHKZ8yow88WY3DrfTICm?reMtzamsw

-2-0-0	4-9-8	9-0-0	16-8-0	24-4-0	28-6-8	33-4-0	35-4-0
2-0-0	4-9-8	4-2-8	7-8-0	7-8-0	4-2-8	4-9-8	2-0-0

Scale = 1:60.8

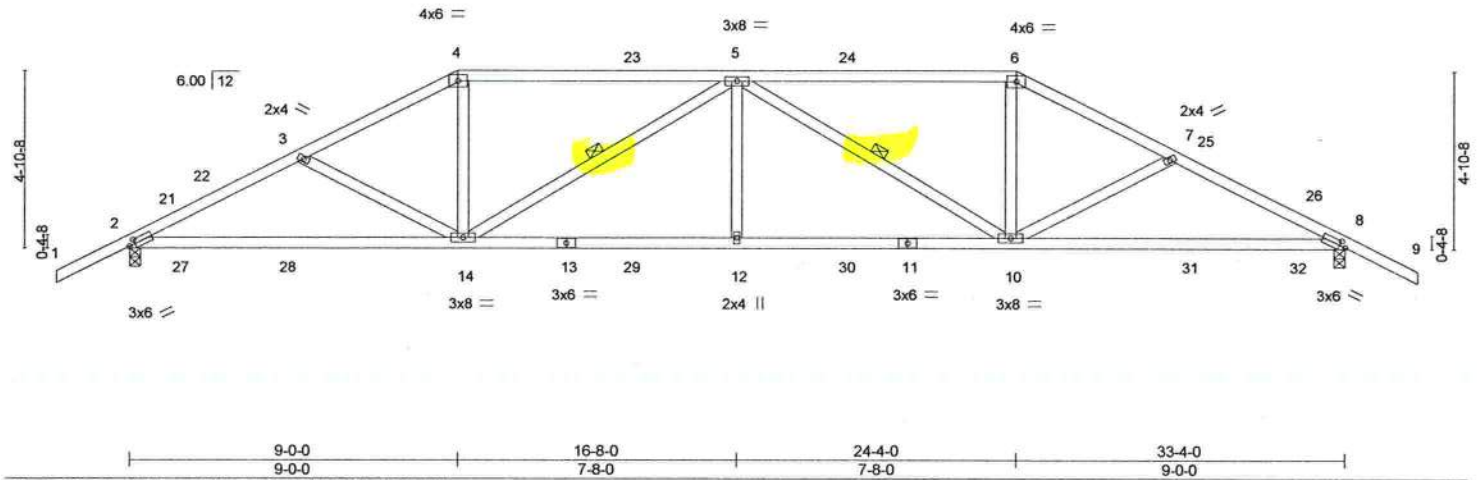


Plate Offsets (X,Y)–		[2-0-1-15,0-1-8], [8-0-1-15,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.32 10-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.33 14-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.11 8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 168 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-15 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 3-8-14 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-14, 5-10

REACTIONS.		(size) 2=0-3-8, 8=0-3-8
		Max Horz 2=82(LC 12)
		Max Uplift 2=485(LC 9), 8=485(LC 8)
		Max Grav 2=1341(LC 1), 8=1341(LC 1)

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2296/1975, 3-4=-2048/1866, 4-5=-1804/1714, 5-6=-1804/1714, 6-7=-2048/1866, 7-8=-2296/1975	
BOT CHORD	2-14=-1701/2011, 12-14=-1942/2307, 10-12=-1942/2307, 8-10=-1724/2011	
WEBS	3-14=-257/215, 4-14=-731/601, 5-14=-682/467, 5-12=-307/275, 5-10=-682/467, 6-10=-731/601, 7-10=-257/215	

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-4-0, Interior(1) 1-4-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-8-9, Interior(1) 13-8-9 to 24-4-0, Exterior(2R) 24-4-0 to 29-0-9, Interior(1) 29-0-9 to 35-4-0 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
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=485, 8=485.



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Date:

March 15,2021

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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198622
2714404	T22	Hip	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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Scale = 1:60.8

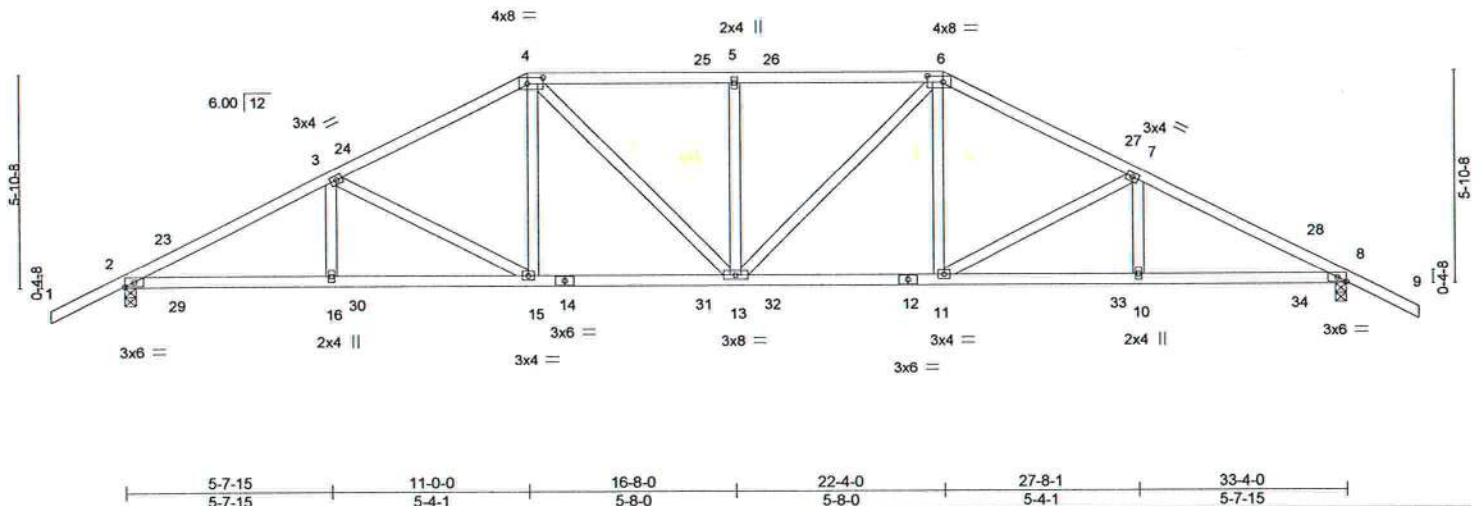


Plate Offsets (X,Y) - [4:0-5-4,0-2-0], [6:0-5-4,0-2-0], [8:0-2-15,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	0.20 13-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.25 11-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.10 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 181 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-3-12 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-97(LC 13)
Max Uplift 2=-450(LC 9), 8=-450(LC 8)
Max Grav 2=1341(LC 1), 8=1341(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2312/2061, 3-4=-1888/1702, 4-5=-1860/1746, 5-6=-1860/1746, 6-7=-1888/1702, 7-8=-2312/2061
BOT CHORD 2-16=-1752/2014, 15-16=-1752/2014, 13-15=-1367/1634, 11-13=-1381/1634, 10-11=-1776/2014, 8-10=-1776/2014
WEBS 3-15=-443/460, 4-15=-475/378, 4-13=-274/426, 5-13=-347/169, 6-13=-274/426, 6-11=-475/378, 7-11=-443/460

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 2-0-0 to 1-4-0, Interior(1) 1-4-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-8-9, Interior(1) 15-8-9 to 22-4-0, Exterior(2R) 22-4-0 to 27-0-9, Interior(1) 27-0-9 to 35-4-0 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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=450, 8=450.



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March 15,2021

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Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198623
2714404	T23	Hip	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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ID:uyul83lu7Xcx70MVQ7vmDBzb4bA-2zWCJ9frh4o3Xh0vFGWVYnm_1HG0smHfTz4JyBzamst

Job Reference (optional)

-2-0-0	6-10-2	13-0-0	20-4-0	26-5-14	33-4-0	35-4-0
2-0-0	6-10-2	6-1-14	7-4-0	6-1-14	6-10-2	2-0-0

Scale = 1:61.8

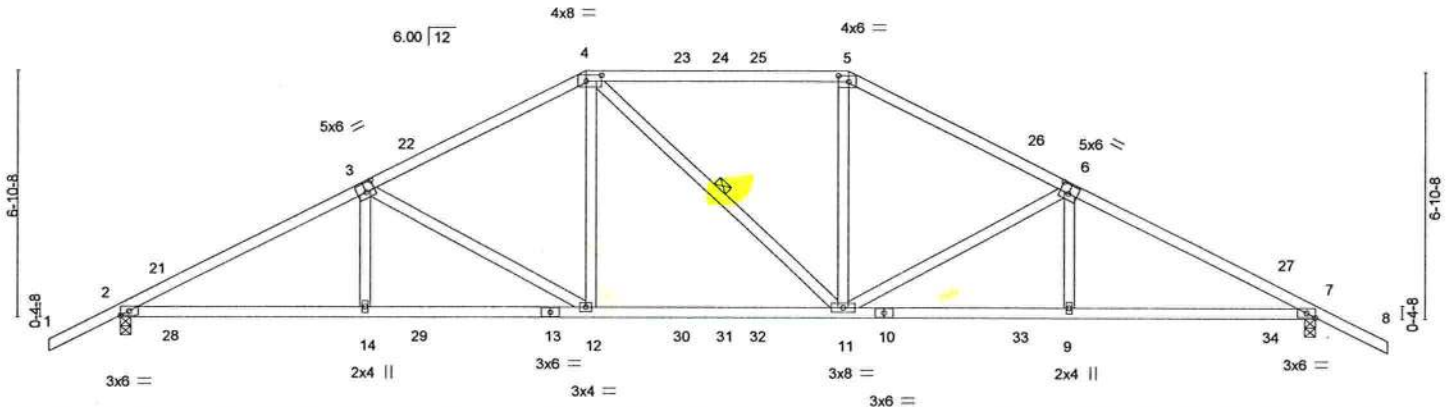


Plate Offsets (X,Y)-	[3:0-3-0,0-3-0], [4:0-5-4,0-2-0], [5:0-3-8,0-2-0], [6:0-3-0,0-3-0], [7:0-2-15,Edge]
----------------------	-------------------------------------------------------------------------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.87	Vert(LL)	0.24 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.33 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.10 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 173 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.
BOT CHORD Rigid ceiling directly applied or 4-2-12 oc bracing.
WEBS 1 Row at midpt 4-11

REACTIONS.

(size) 2=0-3-8, 7=0-3-8
Max Horz 2=112(LC 12)
Max Uplift 2=414(LC 9), 7=414(LC 8)
Max Grav 2=1429(LC 2), 7=1424(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2463/2009, 3-4=-1914/1593, 4-5=-1652/1473, 5-6=-1901/1594, 6-7=-2452/2009
BOT CHORD 2-14=-1699/2153, 12-14=-1702/2156, 11-12=-1244/1664, 9-11=-1726/2146,
7-9=-1722/2143
WEBS 3-14=-297/262, 3-12=-576/544, 4-12=-581/552, 5-11=-567/534, 6-11=-578/543,
6-9=-296/261

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-4-0, Interior(1) 1-4-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-8-9, Interior(1) 17-8-9 to 20-4-0, Exterior(2R) 20-4-0 to 25-0-9, Interior(1) 25-0-9 to 35-4-0 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=414, 7=414.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
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Date:

March 15,2021



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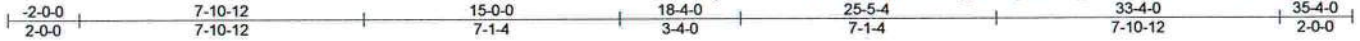
6904 Parke East Blvd.
Tampa, FL 33610

Job 2714404	Truss T24	Truss Type Hip	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. T23198624
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:44 2021 Page 1

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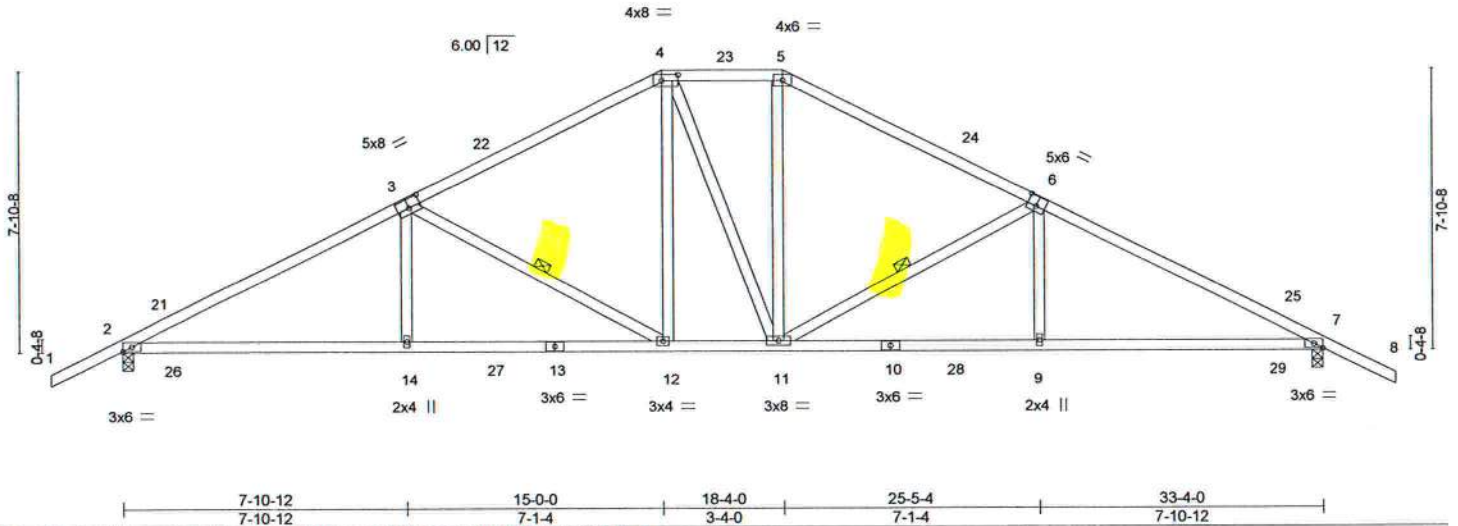


Plate Offsets (X,Y) - [3:0-4-0,0-3-0], [4:0-5-4,0-2-0], [6:0-3-0,0-3-4], [7:0-2-15,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	0.25 12-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.25 12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.09 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 179 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-1-14 oc bracing.
WEBS 1 Row at midpt 3-12, 6-11

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=127(LC 12)
Max Uplift 2=-375(LC 9), 7=-375(LC 8)
Max Grav 2=1341(LC 1), 7=1341(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2232/1951, 3-4=-1596/1438, 4-5=-1347/1335, 5-6=-1597/1440, 6-7=-2231/1950
BOT CHORD 2-14=-1640/1924, 12-14=-1638/1924, 11-12=-1082/1345, 9-11=-1661/1923,
7-9=-1663/1924
WEBS 3-14=-370/328, 3-12=-674/659, 4-12=-557/429, 5-11=-546/431, 6-11=-673/657,
6-9=-369/327

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-4-0, Interior(1) 1-4-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-4-0, Exterior(2R) 18-4-0 to 23-0-9, Interior(1) 23-0-9 to 35-4-0 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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=375, 7=375.



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Tampa, FL 33610

Job 2714404	Truss T25	Truss Type Common	Qty 4	Ply 1	GIEBIEG - SULLIVAN RES. T23198625
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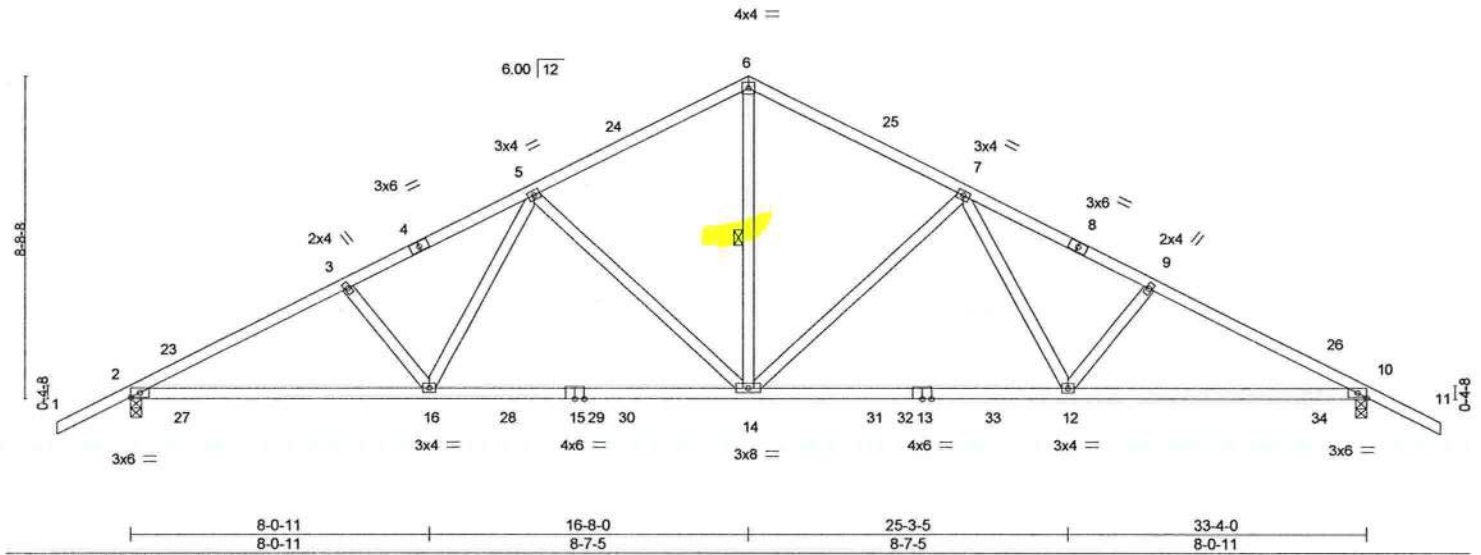
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:46 2021 Page 1

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-2-0-0	5-10-7	10-10-10	16-8-0	22-5-6	27-5-9	33-4-0	35-4-0
2-0-0	5-10-7	5-0-3	5-9-6	5-9-6	5-0-3	5-10-7	2-0-0

Scale = 1:59.9



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.31 12-14 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.41 12-14 >985 180				
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.10 10 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 175 lb FT = 20%			

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-2-9 oc bracing.
WEBS 1 Row at midpt 6-14

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-139(LC 13)
Max Uplift 2=-342(LC 9), 10=-342(LC 8)
Max Grav 2=1440(LC 2), 10=1440(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2493/1944, 3-5=-2348/1936, 5-6=-1608/1363, 6-7=-1608/1363, 7-9=-2348/1936, 9-10=-2493/1944
BOT CHORD 2-16=-1656/2188, 14-16=-1321/1806, 12-14=-1340/1806, 10-12=-1674/2188
WEBS 6-14=-1072/1143, 7-14=-591/493, 7-12=-548/551, 9-12=-255/158, 5-14=-591/493, 5-16=-548/551, 3-16=-255/158

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-4-0, Interior(1) 1-4-0 to 16-8-0, Exterior(2R) 16-8-0 to 20-0-0, Interior(1) 20-0-0 to 35-4-0 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=342, 10=342.



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Date:

March 15,2021

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198626
2714404	T26	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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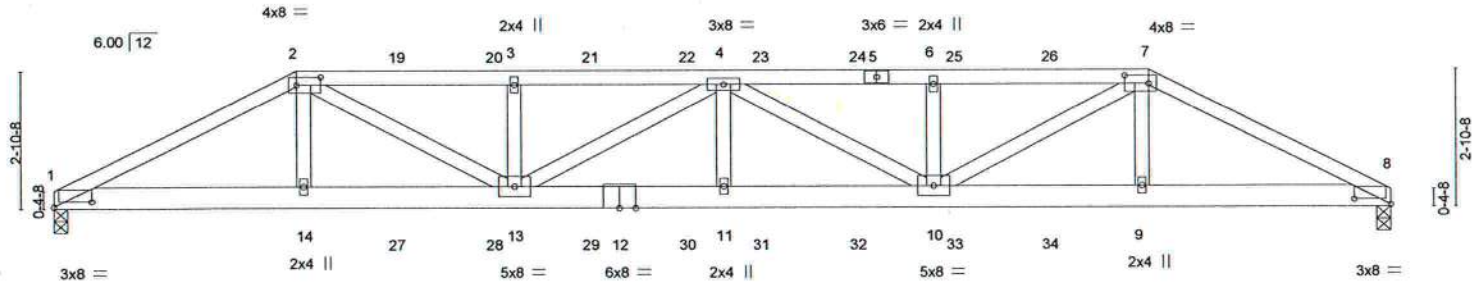


Plate Offsets (X,Y)-- [1:0-9-3,0-1-6], [2:0-6-0,0-2-0], [7:0-6-0,0-2-0], [8:0-9-3,0-1-6]

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 0.77	Vert(LL)	0.31	11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.89	Vert(CT)	-0.49	11	>672	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.62	Horz(CT)	0.10	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 151 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing.

REACTIONS. (size) 1=0-3-8, 8=0-3-8
Max Horz 1=37(LC 9)
Max Uplift 1=618(LC 5), 8=650(LC 4)
Max Grav 1=1498(LC 1), 8=1539(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=3037/1286, 2-3=4063/1777, 3-4=4063/1777, 4-6=4103/1803, 6-7=4103/1803, 7-8=3126/1354
BOT CHORD 1-14=1139/2670, 13-14=1144/2685, 11-13=1974/4578, 10-11=1974/4578, 9-10=1178/2764, 8-9=1173/2749
WEBS 2-14=89/367, 2-13=722/1637, 3-13=376/211, 4-13=616/275, 4-11=46/314, 4-10=560/235, 6-10=376/211, 7-10=683/1582, 7-9=88/367

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=618, 8=650.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 69 lb up at 5-0-0, 54 lb down and 69 lb up at 7-0-12, 54 lb down and 69 lb up at 9-0-12, 54 lb down and 69 lb up at 11-0-12, 54 lb down and 67 lb up at 13-0-12, 54 lb down and 67 lb up at 14-7-4, 54 lb down and 69 lb up at 16-7-4, 54 lb down and 69 lb up at 18-7-4, and 54 lb down and 69 lb up at 20-7-4, and 165 lb down and 152 lb up at 22-8-0 on top chord, and 144 lb down and 48 lb up at 5-0-0, 61 lb down at 7-0-12, 61 lb down at 9-0-12, 61 lb down at 11-0-12, 61 lb down at 13-0-12, 61 lb down at 14-7-4, 61 lb down at 16-7-4, 61 lb down at 18-7-4, and 61 lb down at 20-7-4, and 144 lb down and 48 lb up at 22-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2



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March 15, 2021

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Job	Truss	Truss Type	Qty	Ply	GIEBIEG - SULLIVAN RES.	T23198626
2714404	T26	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-7=-54, 7-8=-54, 1-8=-20

Concentrated Loads (lb)

Vert: 2=-54(F) 7=-118(F) 14=-61(F) 9=-61(F) 19=-54(F) 20=-54(F) 21=-54(F) 22=-54(F) 23=-54(F) 24=-54(F) 25=-54(F) 26=-54(F) 27=-33(F) 28=-33(F) 29=-33(F) 30=-33(F) 31=-33(F) 32=-33(F) 33=-33(F) 34=-33(F)



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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job 2714404	Truss TG01	Truss Type Roof Special Girder	Qty 1	Ply 1	GIEBIEG - SULLIVAN RES. Job Reference (optional)	T23198627
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 15 06:21:50 2021 Page 1

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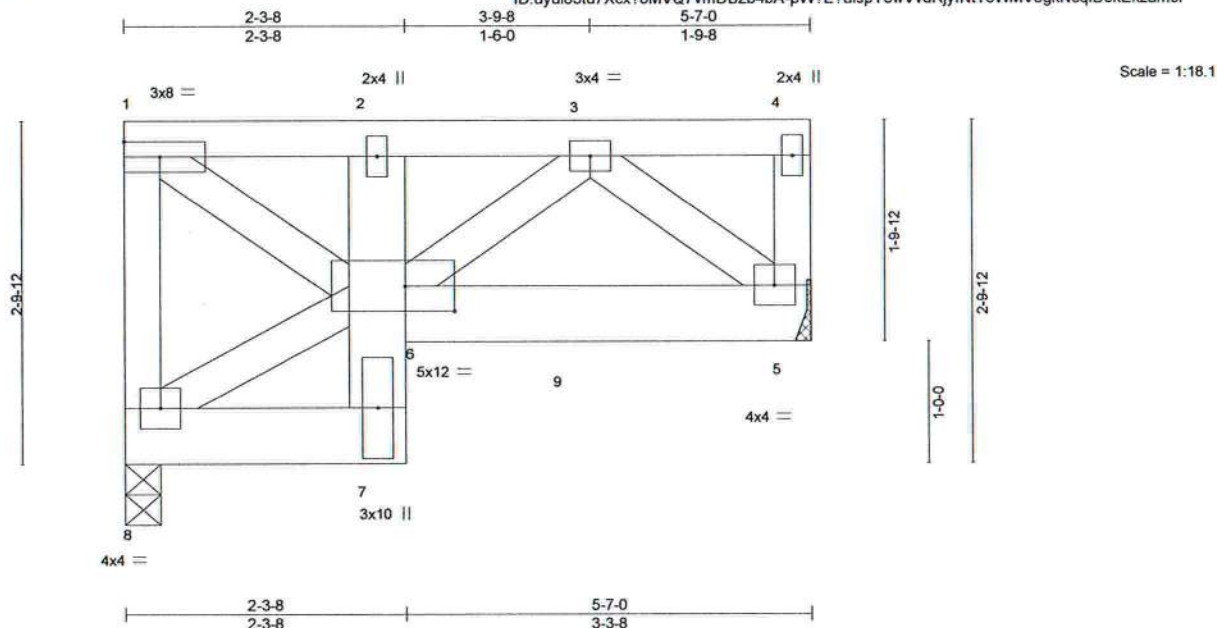


Plate Offsets (X,Y)-- [6:0-4-12,0-2-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	2-0-0	TC 0.21	Vert(LL) -0.02	5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.37	Vert(CT) -0.05	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr NO		WB 0.61	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						
								Weight: 42 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
5-6: 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=Mechanical
Max Uplift 8=237(LC 4), 5=244(LC 4)
Max Grav 8=1154(LC 1), 5=1206(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=1030/221, 1-2=1283/261, 2-3=1422/290
BOT CHORD 6-7=185/993, 5-6=173/773
WEBS 1-6=326/1602, 3-6=152/843, 3-5=1026/230

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=237, 5=244.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 974 lb down and 204 lb up at 2-0-12, and 995 lb down and 199 lb up at 3-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 7-8=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 7=-974(F) 9=-995(F)



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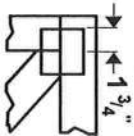
March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

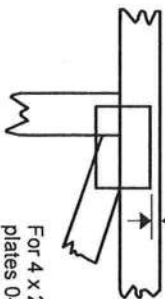
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

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

PLATE SIZE

4 X 4

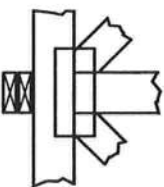
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89: Design Standard for Bracing.

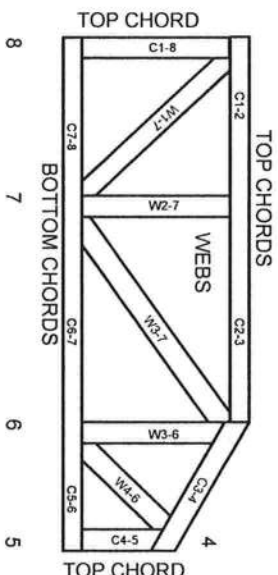
BCSI: Building Component Safety Information, Guide to Good Practice for Handling,

Installing & Bracing of Metal Plate

Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/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/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: ML-7473 rev. 5/19/2020



General Safety Notes

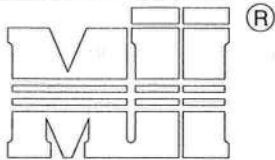
Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and ware at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use. Reviewing pictures alone is not sufficient.
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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

AUGUST 1, 2016

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

MII-T-BRACE 2



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MiTek USA, Inc. Page 1 of 1

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

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

Nailing Pattern

T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

Brace Size for One-Ply Truss

Specified Continuous Rows of Lateral Bracing

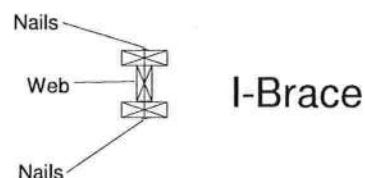
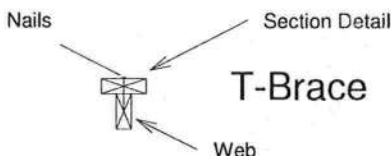
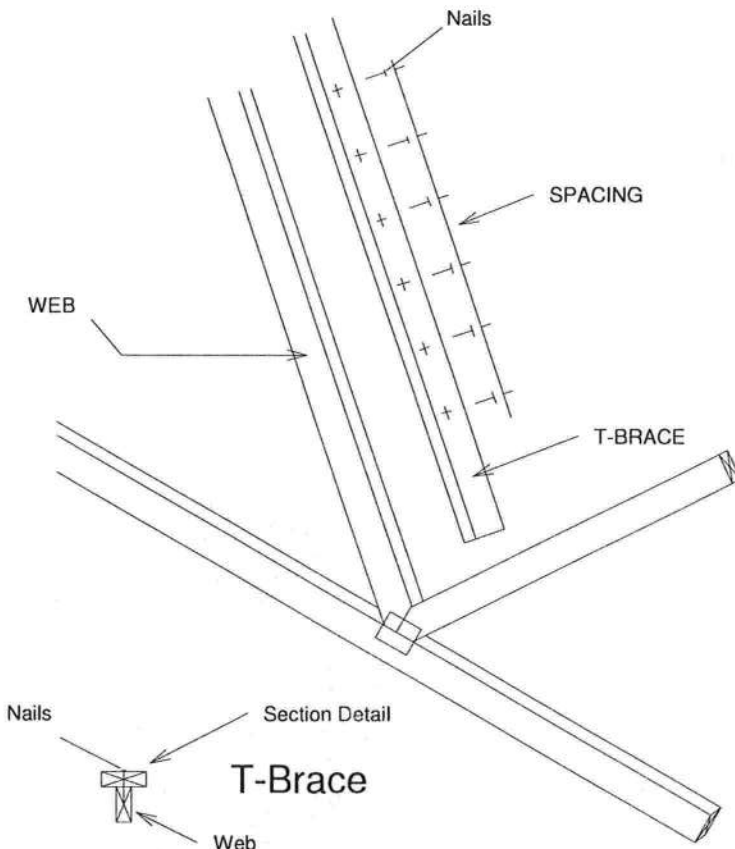
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

Brace Size for Two-Ply Truss

Specified Continuous Rows of Lateral Bracing

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

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



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
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Date:

February 12, 2018

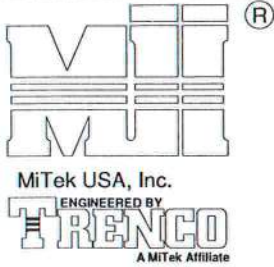
AUGUST 1, 2016

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

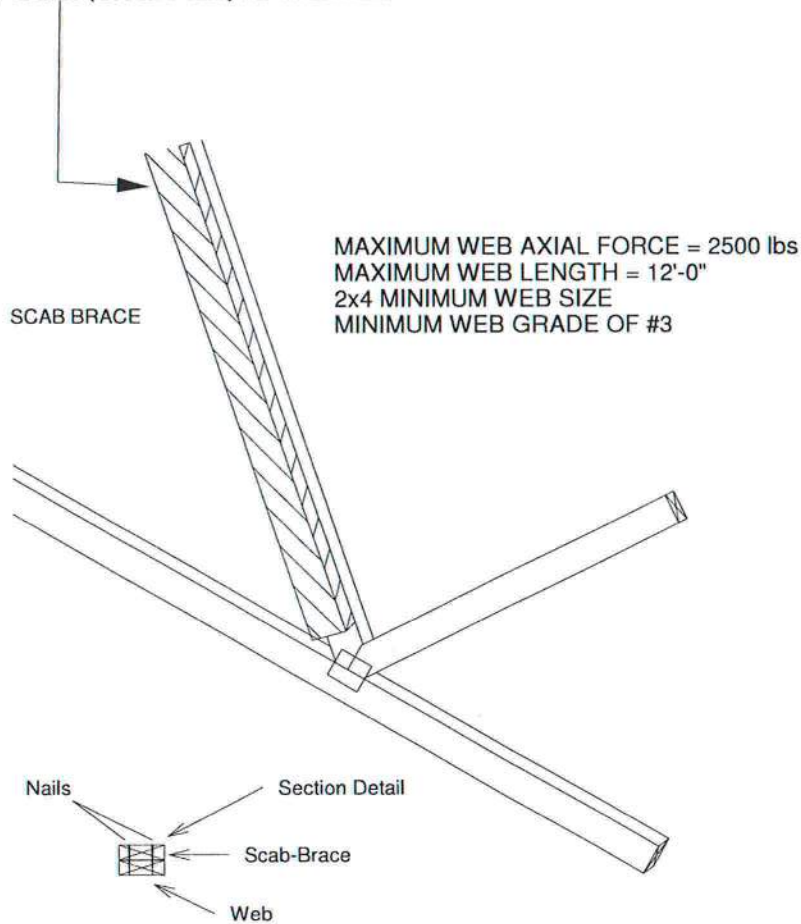
Page 1 of 1



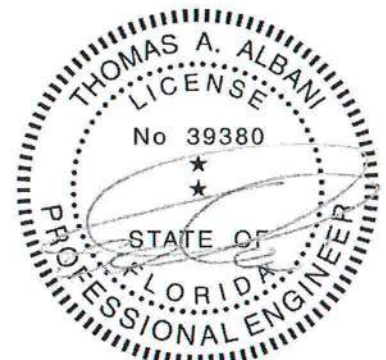
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT 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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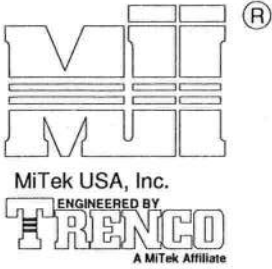
February 12, 2018

AUGUST 1, 2016

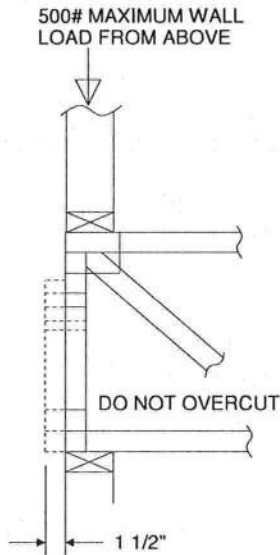
STANDARD REPAIR TO REMOVE END
VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

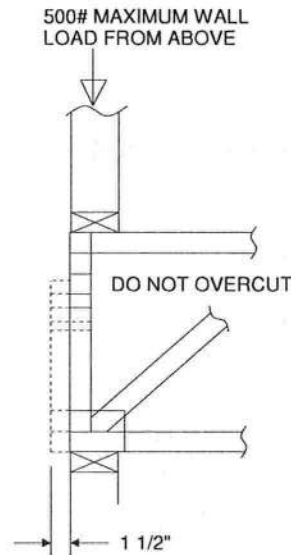
MiTek USA, Inc. Page 1 of 1



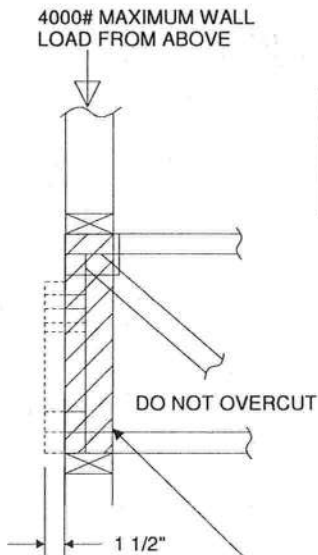
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.



REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES



TRUSSES BUILT
WITH 4x2 MEMBERS



REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES



TRUSSES BUILT
WITH 4x2 MEMBERS

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



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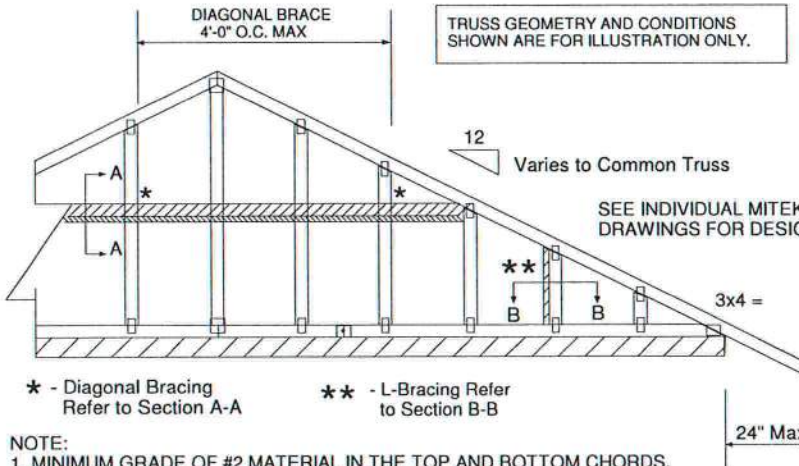
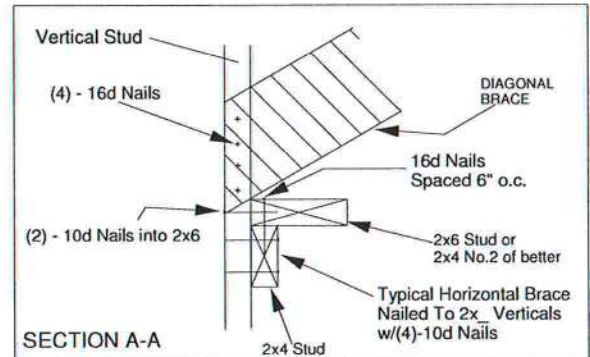
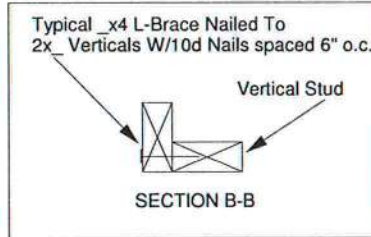
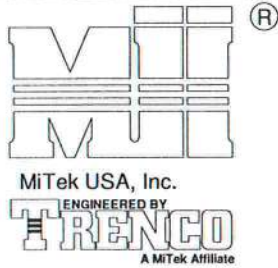
February 12, 2018

AUGUST 1, 2016

Standard Gable End Detail

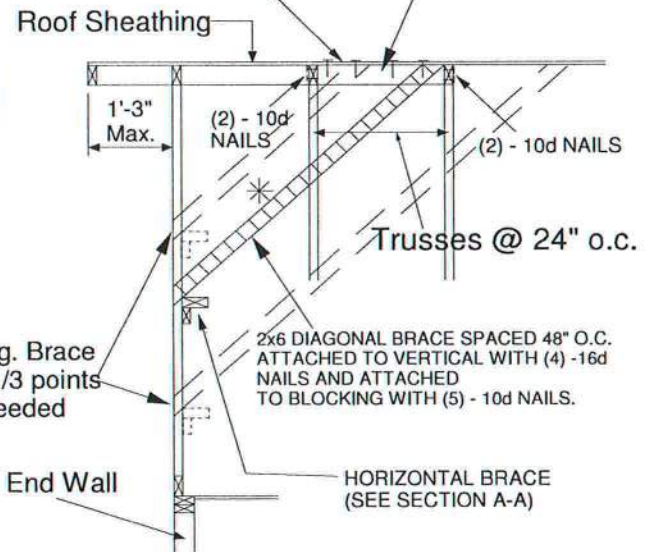
MII-GE130-D-SP

MiTek USA, Inc. Page 1 of 2



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

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



NOTE:

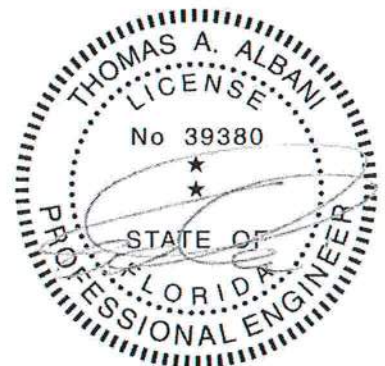
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF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

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

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

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

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



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Date:

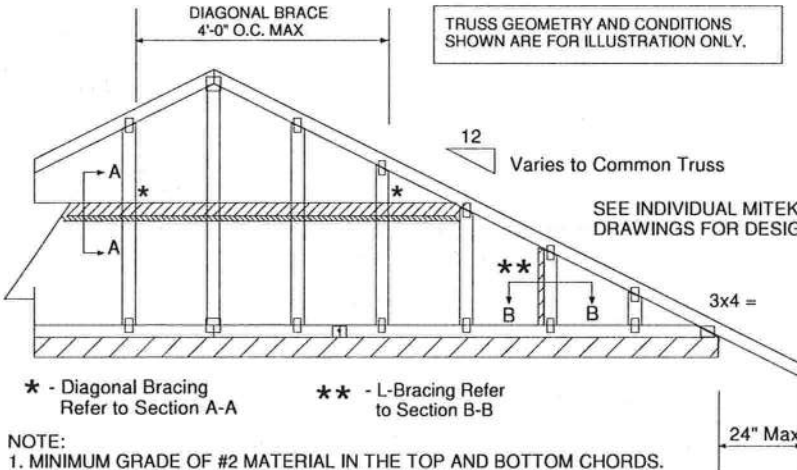
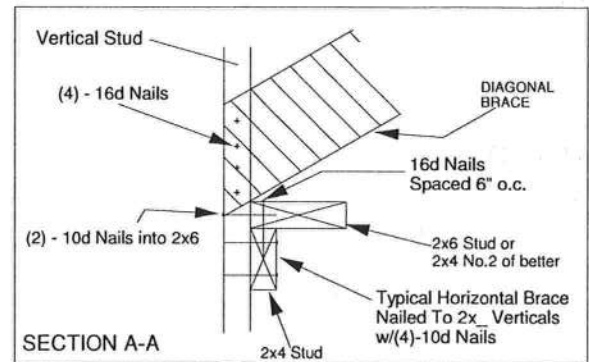
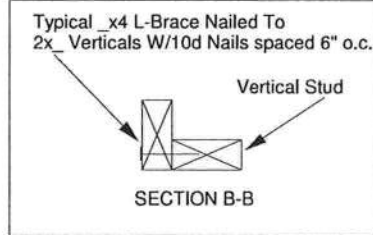
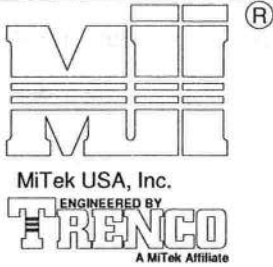
February 12, 2018

AUGUST 1, 2016

Standard Gable End Detail

MII-GE130-SP

MiTek USA, Inc. Page 1 of 2

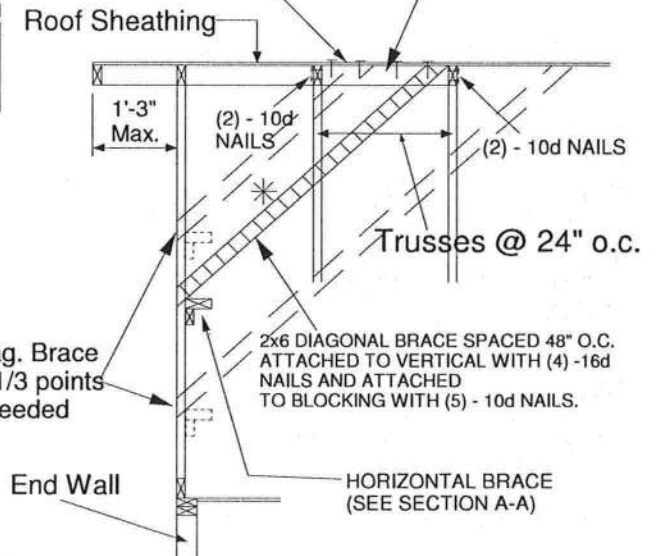


NOTE:

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")

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

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



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

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

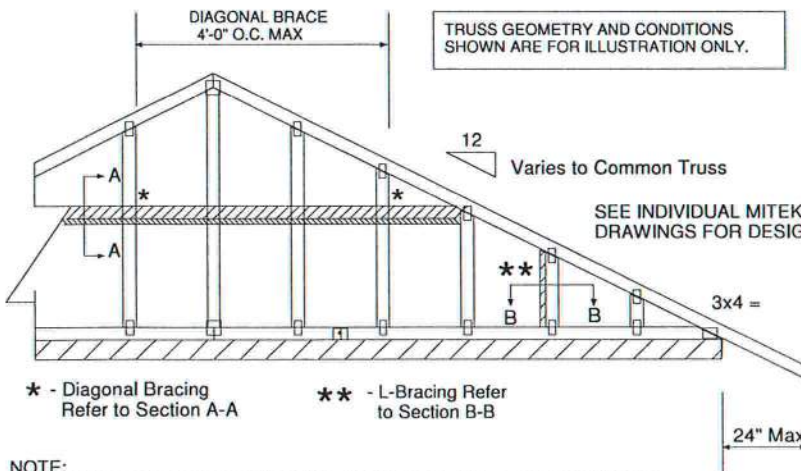
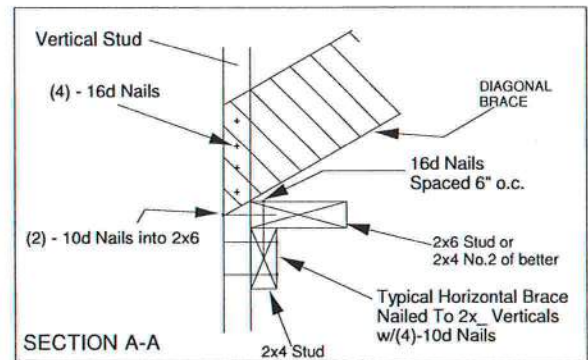
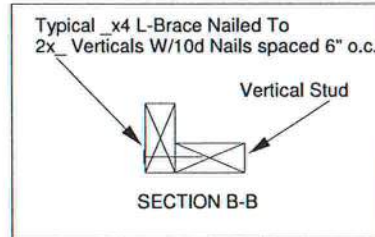
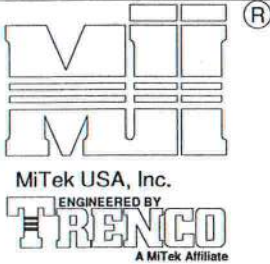
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

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



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Date:

February 12, 2018

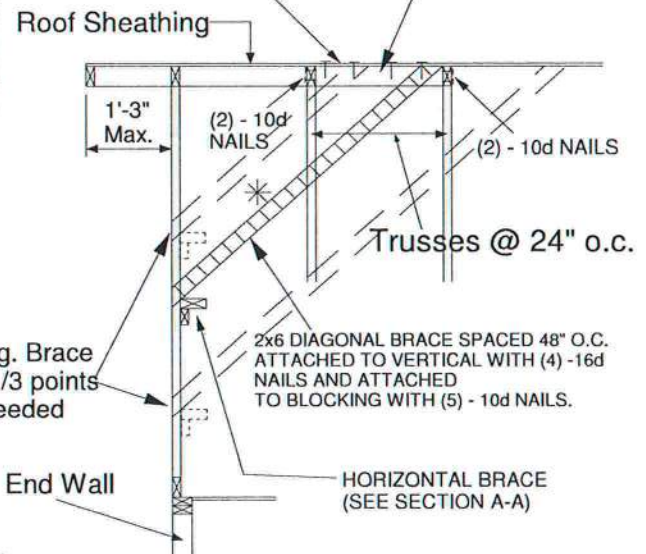


NOTE:

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

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

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

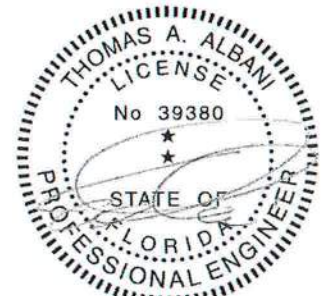


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8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

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

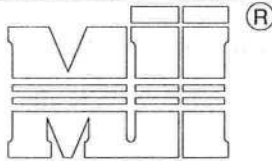
MAXIMUM WIND SPEED = 140 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

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



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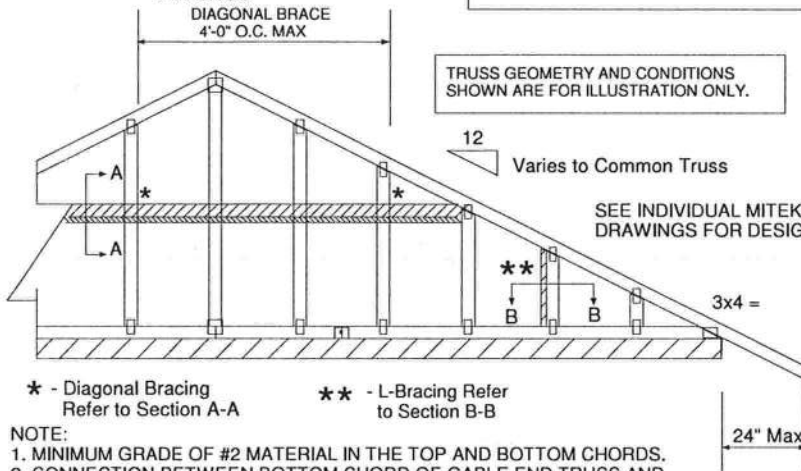
January 19, 2018



MiTek USA, Inc.

ENGINEERED BY
TRENCO

A MiTek Affiliate



★ - Diagonal Bracing
Refer to Section A-A

★★ - L-Bracing Refer
to Section B-B

NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

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

- ✱ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D
ASCE 7-10 170 MPH
DURATION OF LOAD INCREASE : 1.60

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

Typical 2x4 L-Brace Nailed To
2x4 Verticals W/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

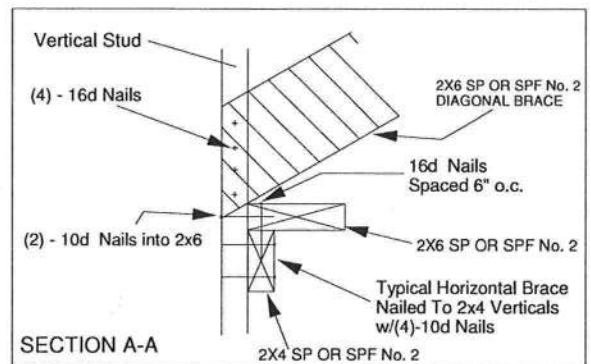
TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.

12
Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA

3x4 =

24" Max



SECTION A-A

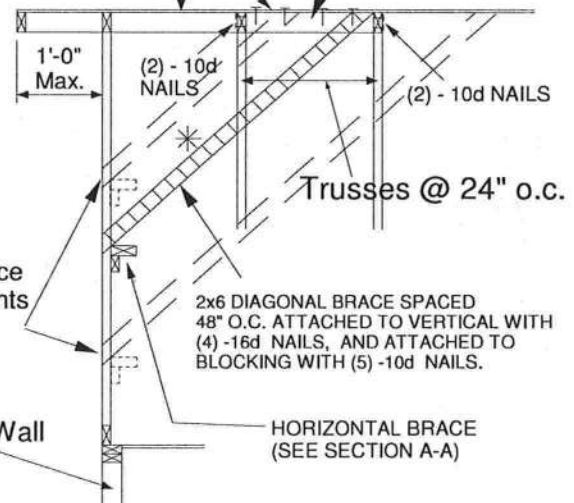
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST
TWO TRUSSES AS NOTED. TOENAIL BLOCKING
TO TRUSSES WITH (2) - 10d NAILS AT EACH END.
ATTACH DIAGONAL BRACE TO BLOCKING WITH
(5) - 10d NAILS.

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

Roof Sheathing

Diag. Brace
at 1/3 points
if needed

End Wall



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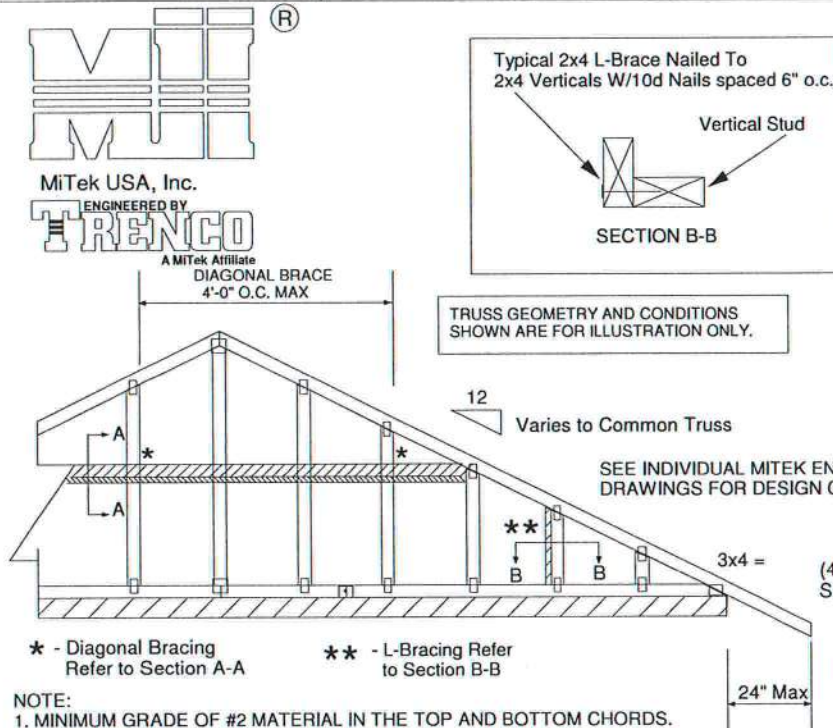
February 12, 2018

AUGUST 1, 2016

Standard Gable End Detail

MII-GE180-D-SP

MiTek USA, Inc. Page 1 of 2



NOTE:

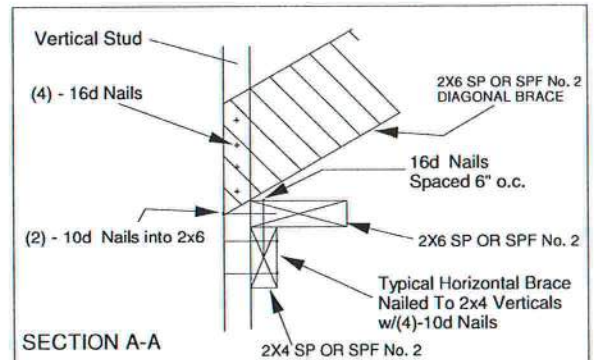
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF 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
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D
ASCE 7-10 180 MPH
DURATION OF LOAD INCREASE : 1.60

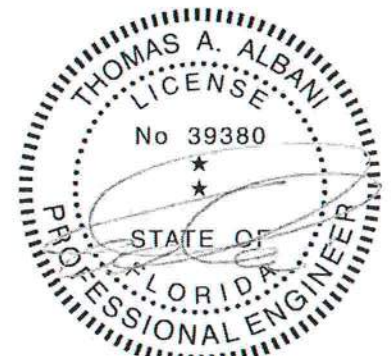
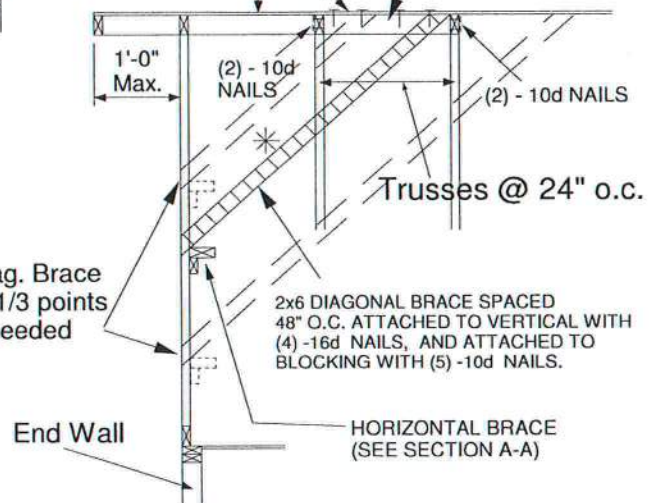
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



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

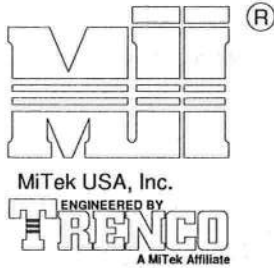
(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing



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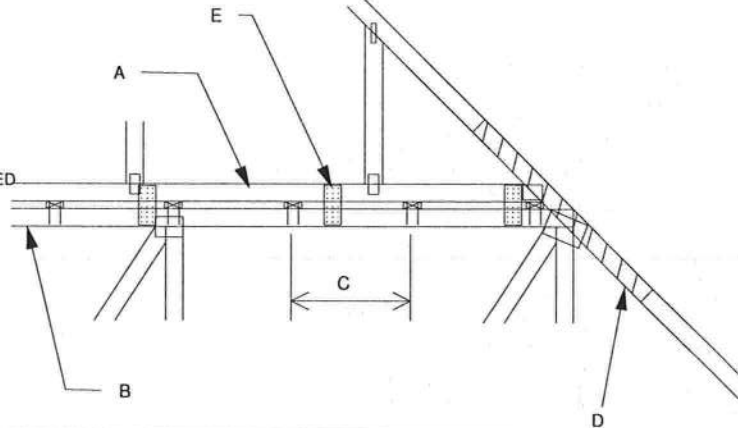
February 12, 2018



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

DETAIL IS NOT APPLICABLE FOR TRUSSES
 TRANSFERRING DRAG LOADS (SHEAR TRUSSES).
 ADDITIONAL CONSIDERATIONS BY BUILDING
 ENGINEER/DESIGNER ARE REQUIRED.

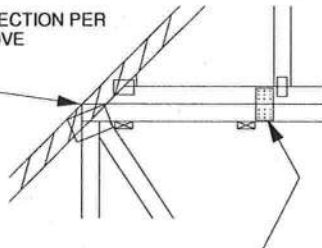
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)



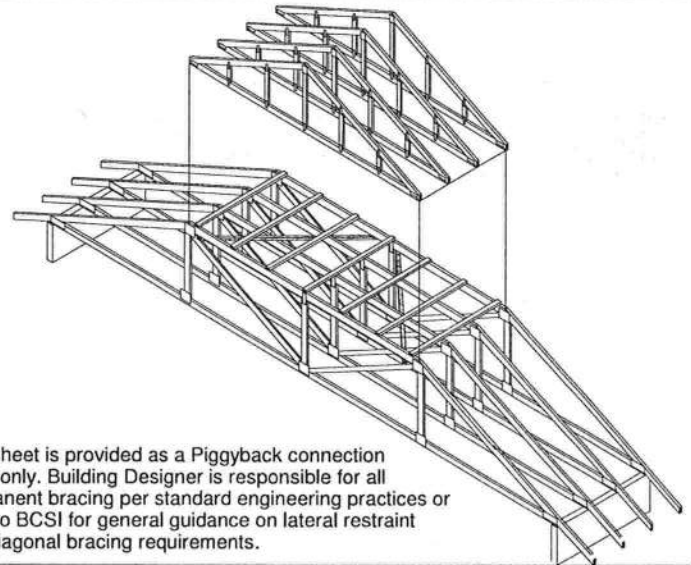
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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

SCAB CONNECTION PER
NOTE D ABOVE

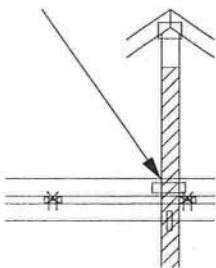


FOR ALL WIND SPEEDS, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



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

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK



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

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



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 Date:

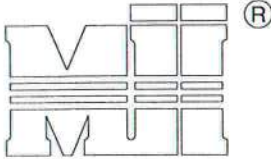
February 12, 2018

AUGUST 1, 2016

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT
7-10

MiTek USA, Inc. Page 1 of 1



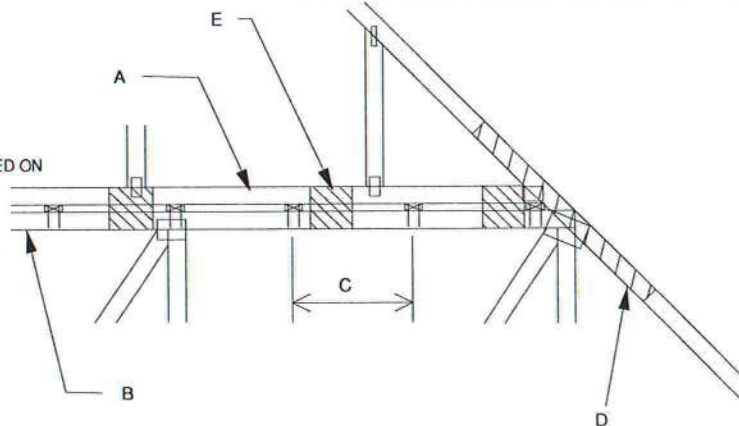
MiTek USA, Inc.



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

DETAIL IS NOT APPLICABLE FOR TRUSSES
TRANSFERING DRAG LOADS (SHEAR TRUSSES).
ADDITIONAL CONSIDERATIONS BY BUILDING
ENGINEER/DESIGNER ARE REQUIRED.

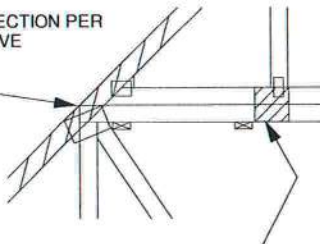
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0(0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.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



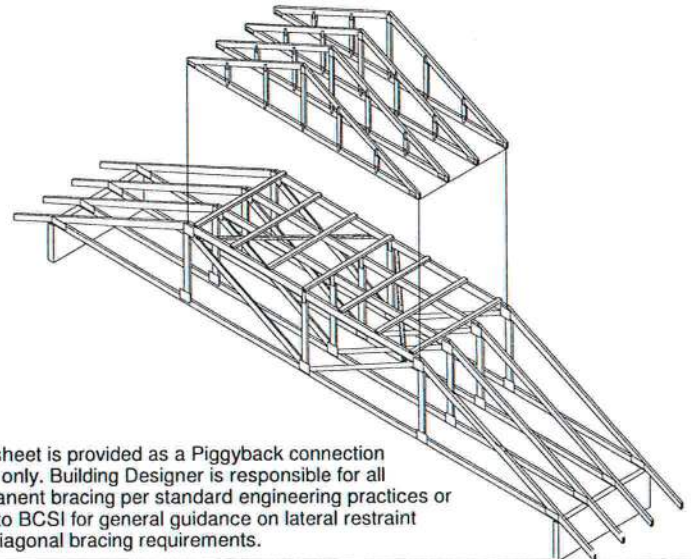
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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

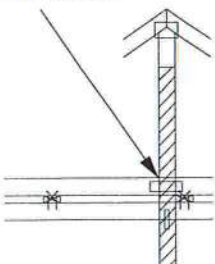


7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C.
ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD
FROM EACH SIDE (TOTAL - 12 NAILS)



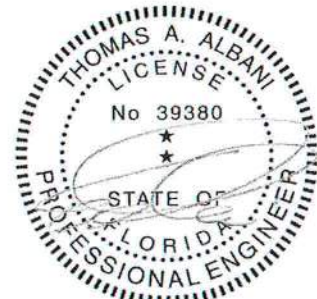
This sheet is provided as a Piggyback connection
detail only. Building Designer is responsible for all
permanent bracing per standard engineering practices or
refer to BCSI for general guidance on lateral restraint
and diagonal bracing requirements.

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK



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

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



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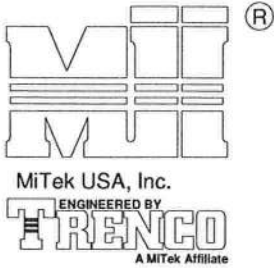
January 19, 2018

AUGUST 1, 2016

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

MII-REP01A1

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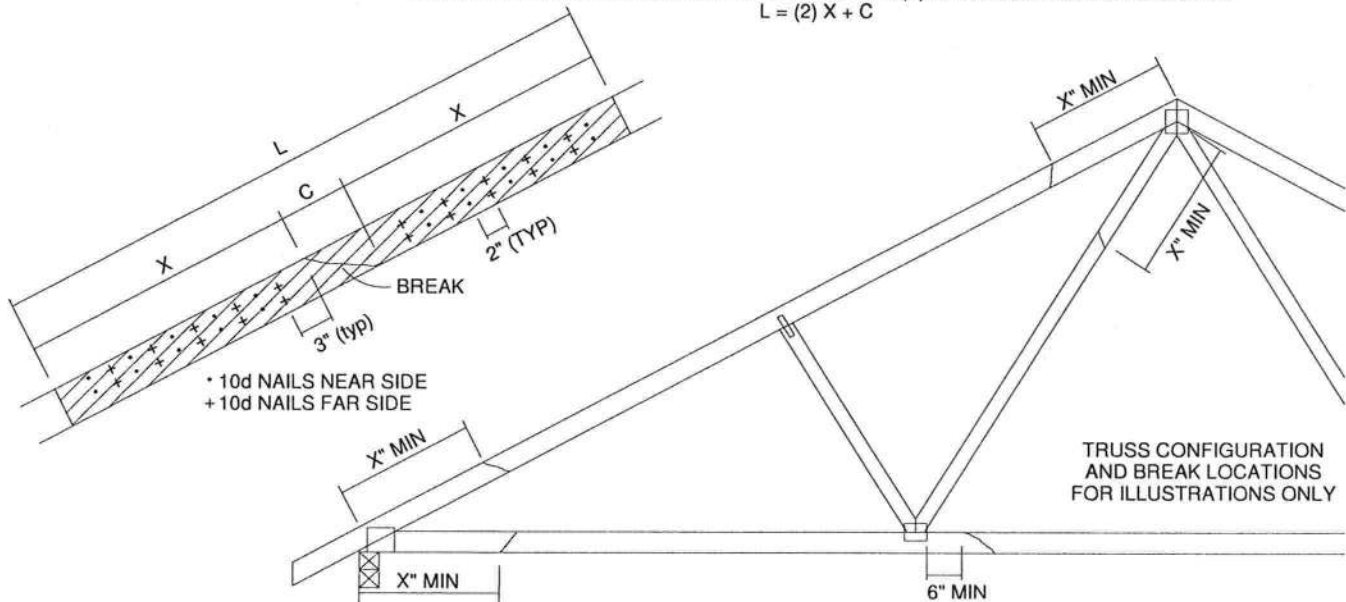
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	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

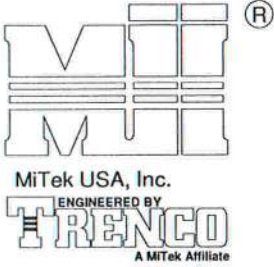
NOTES:

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



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January 19, 2018



NOTES:

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

THIS DETAIL APPLICABLE TO THE
THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLY

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

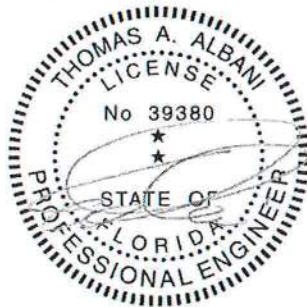
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

EXAMPLE:

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

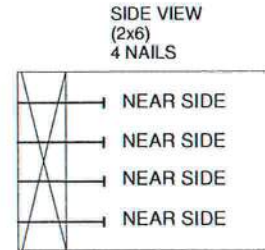
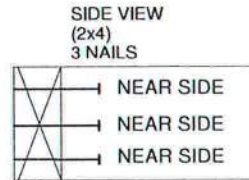
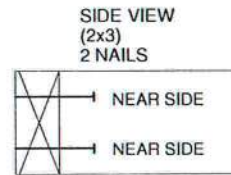
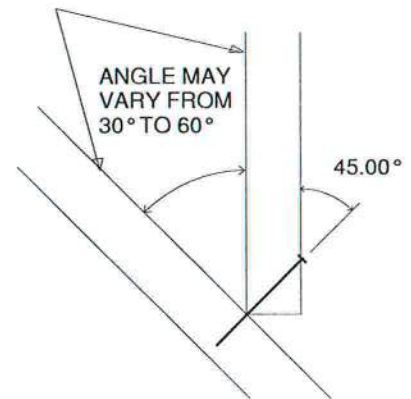
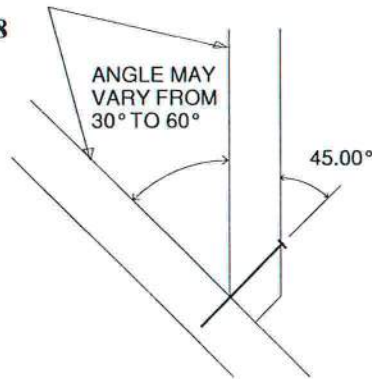
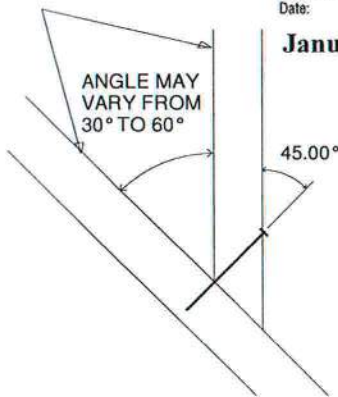
For load duration increase of 1.15:

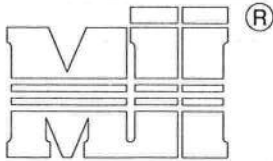
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity



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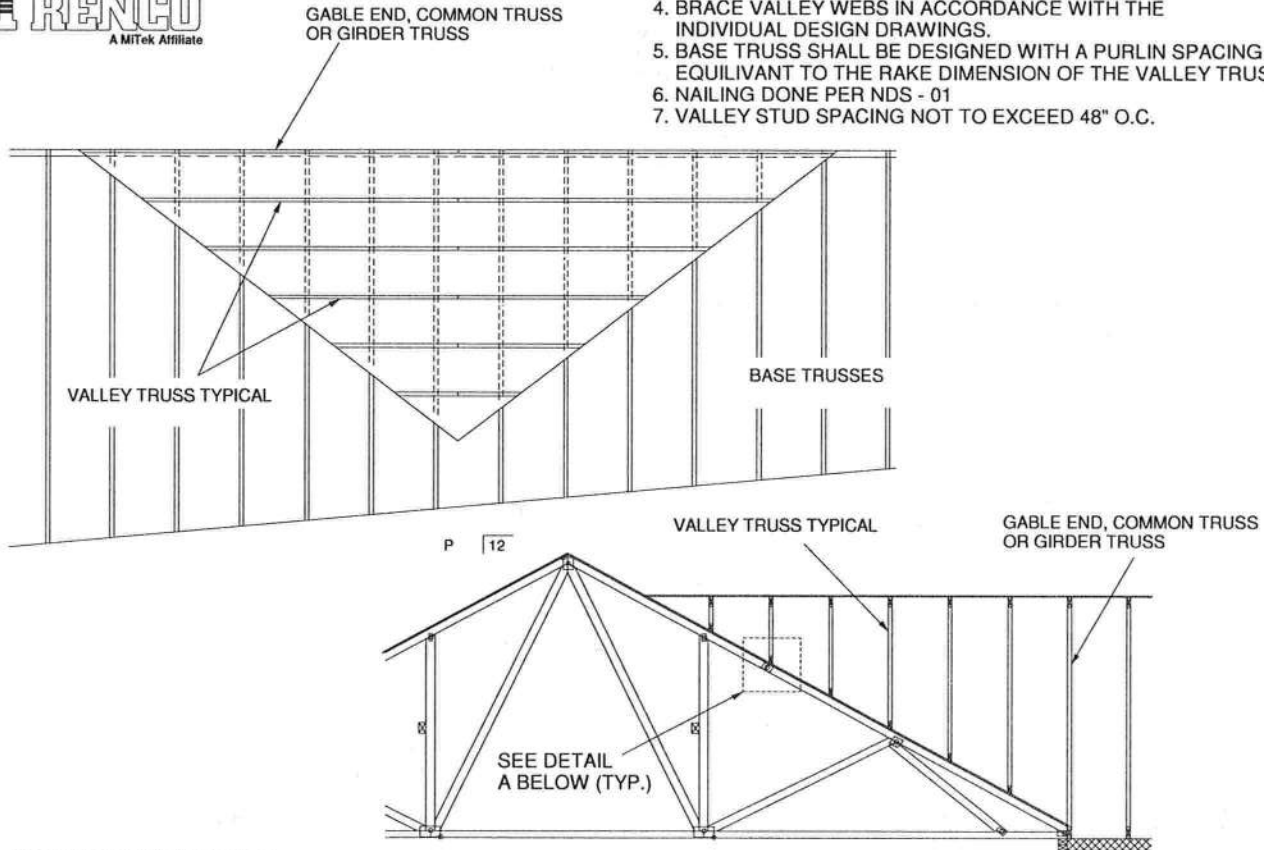




MiTek USA, Inc.
ENGINEERED BY
TRENCO
A MiTek Affiliate

GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVANT 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.

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

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



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January 19, 2018

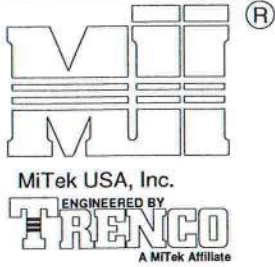
AUGUST 1, 2016

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

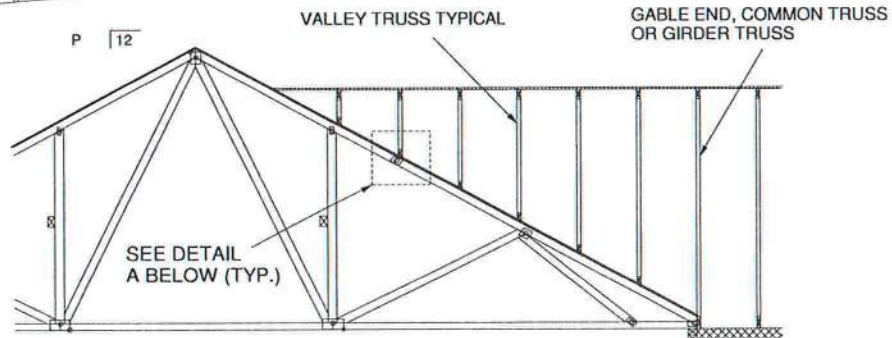
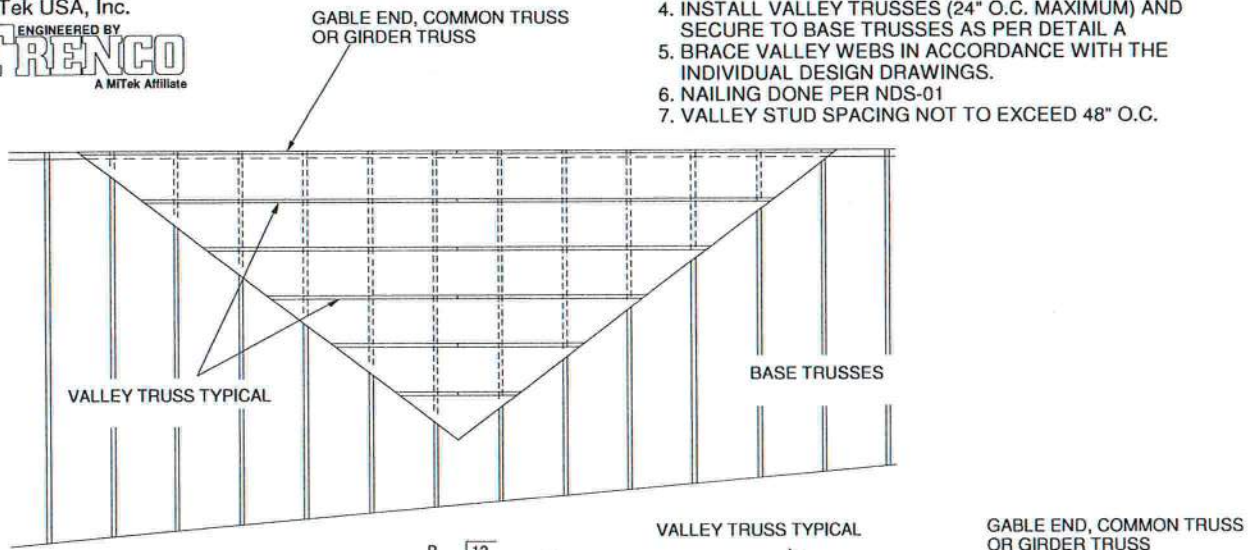
MiTek USA, Inc.

Page 1 of 1

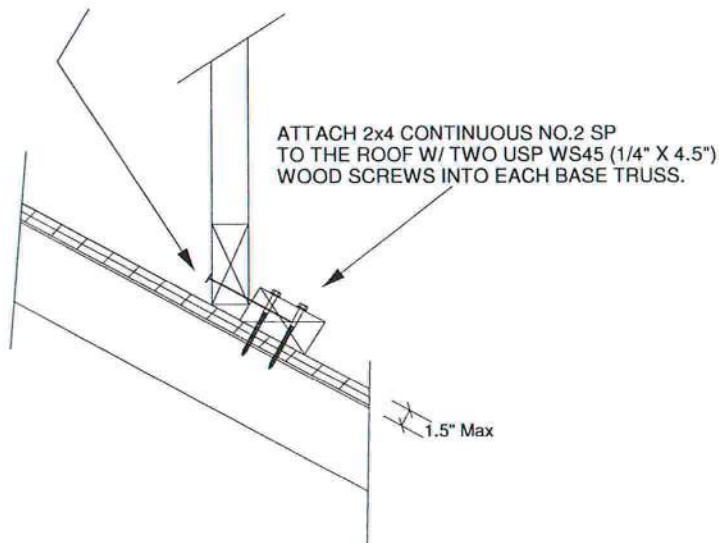


GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVANT
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.



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



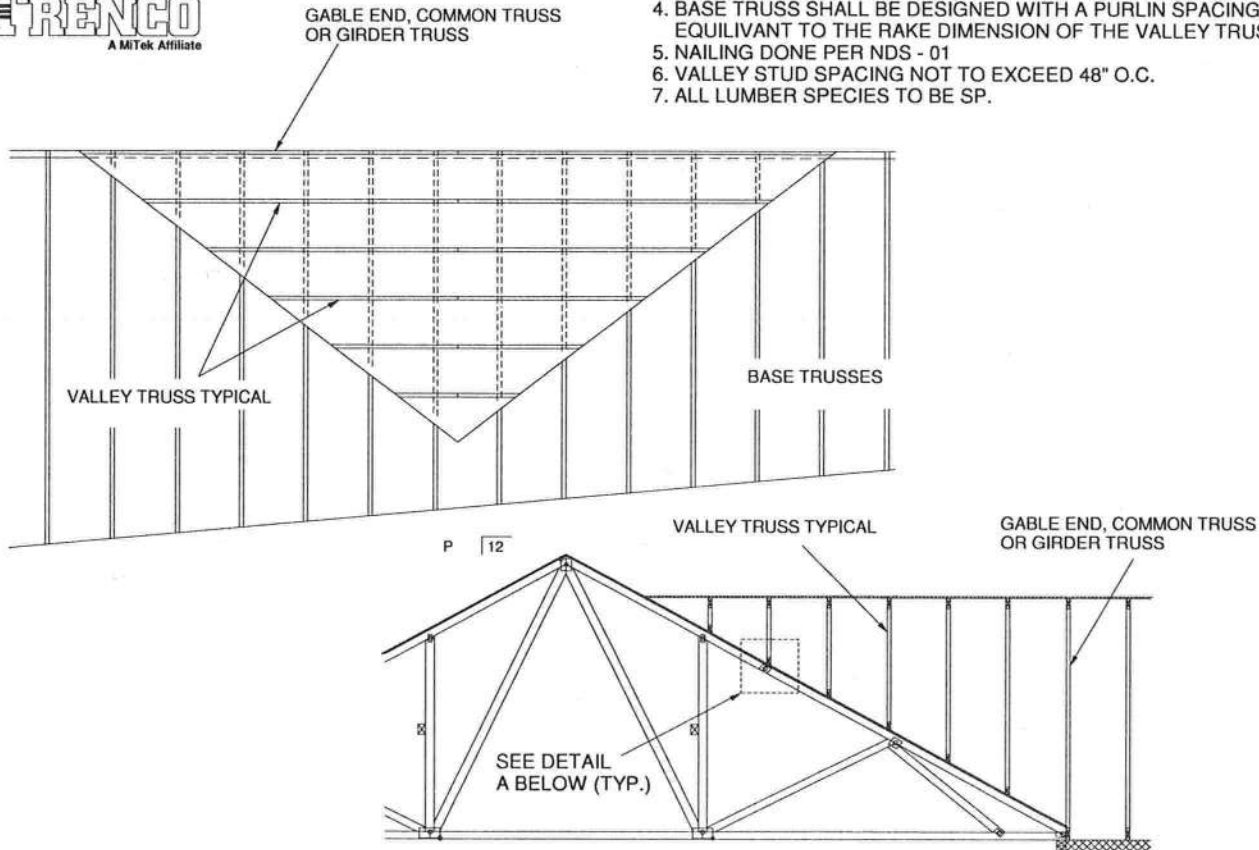
Thomas A. Albani PE No.39380
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Date:

February 12, 2018

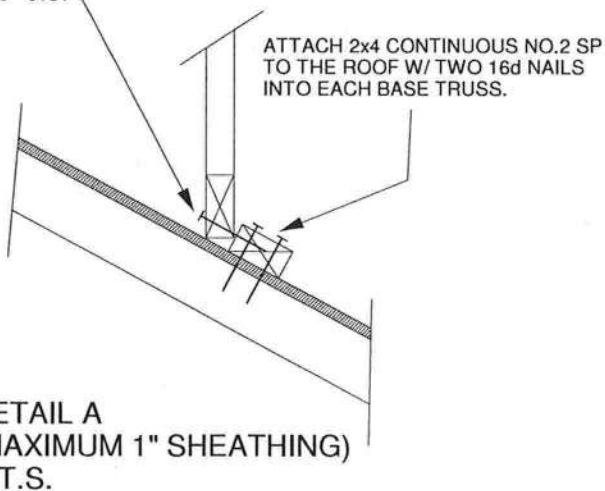


GENERAL SPECIFICATIONS

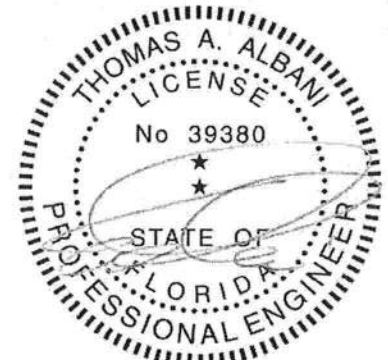
1. NAIL SIZE 16d (0.131" X 3.5")
2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVARIANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
5. NAILING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



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



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



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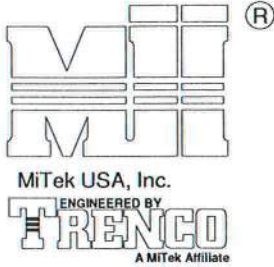
February 12, 2018

AUGUST 1, 2016

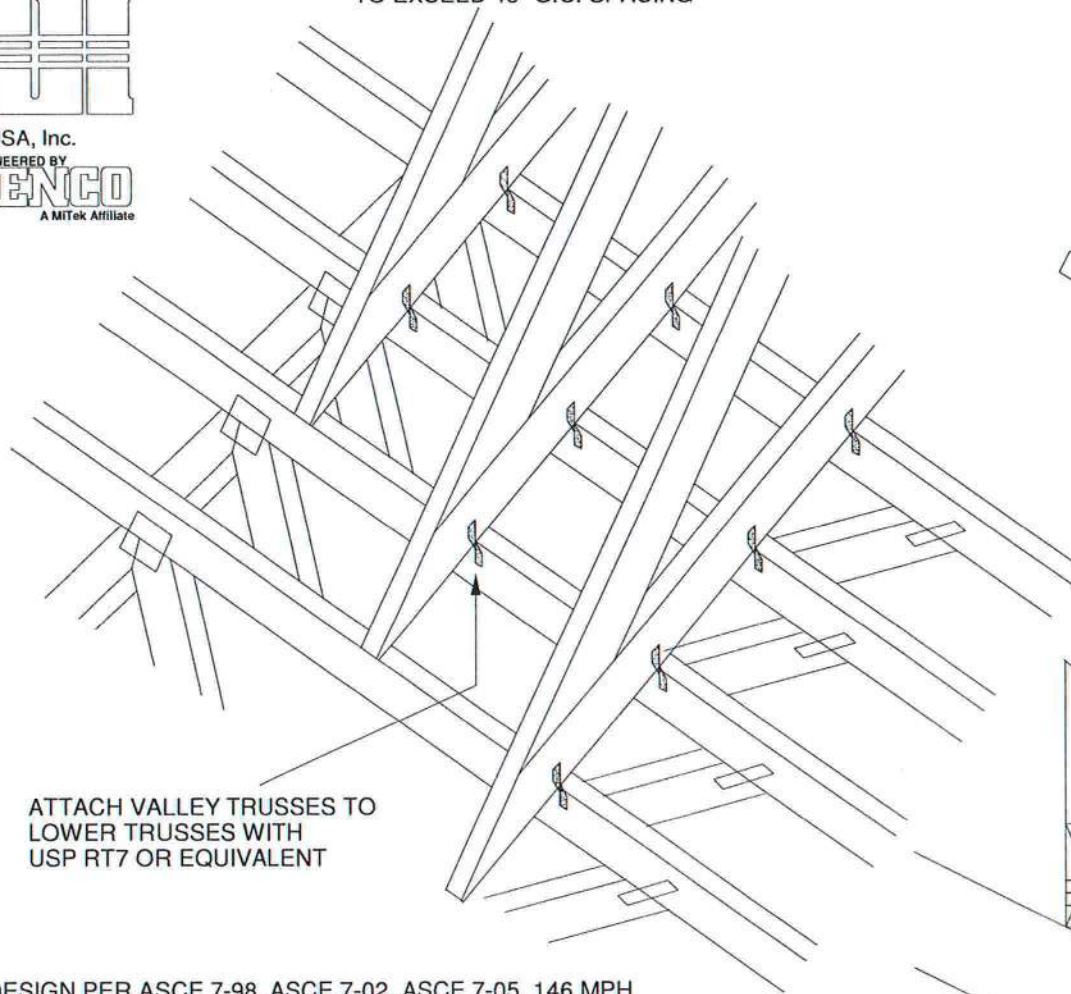
TRUSSED VALLEY SET DETAIL
(HIGH WIND VELOCITY)

MII-VALLEY

MiTek USA, Inc. Page 1 of 1



NOTE: VALLEY STUD SPACING NOT
TO EXCEED 48" O.C. SPACING



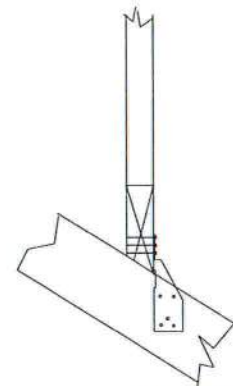
ATTACH VALLEY TRUSSES TO
LOWER TRUSSES WITH
USP RT7 OR EQUIVALENT

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)

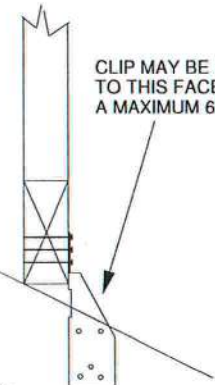
SUPPORTING TRUSSES DIRECTLY UNDER
VALLEY TRUSSES MUST BE DESIGNED
WITH A MAXIMUM UNBRACED LENGTH OF
2'-10" ON AFFECTED TOP CHORDS.

NOTES:

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

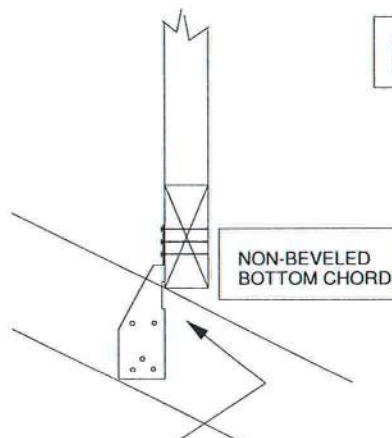


FOR BEVELED BOTTOM
CHORD, CLIP MAY BE
APPLIED TO EITHER FACE



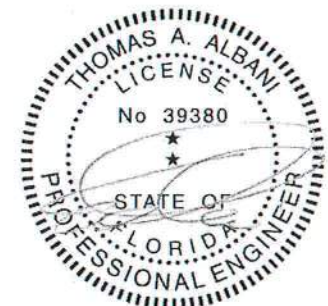
CLIP MAY BE APPLIED
TO THIS FACE UP TO
A MAXIMUM 6/12 PITCH

NON-BEVELED
BOTTOM CHORD



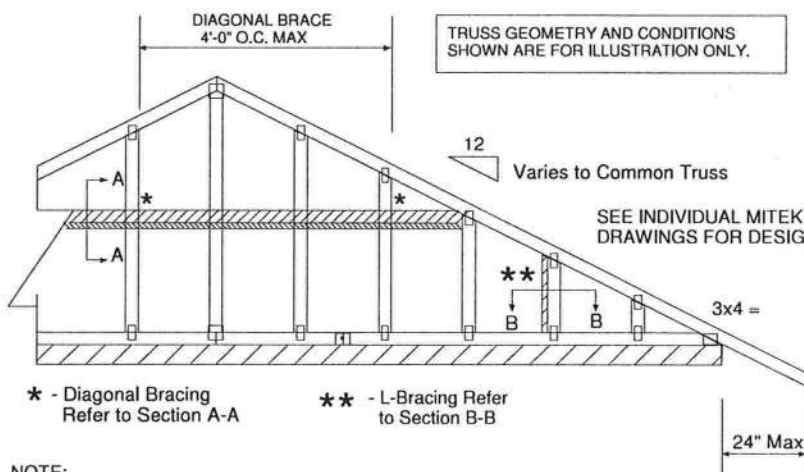
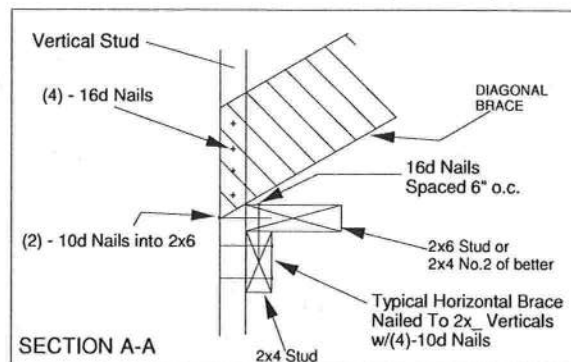
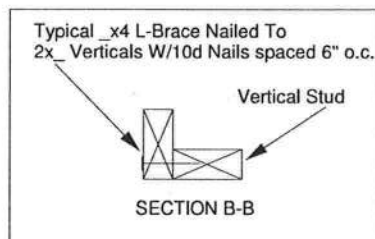
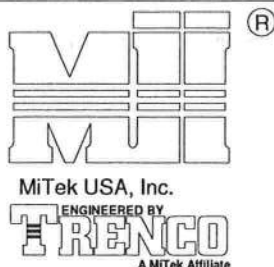
NON-BEVELED
BOTTOM CHORD

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



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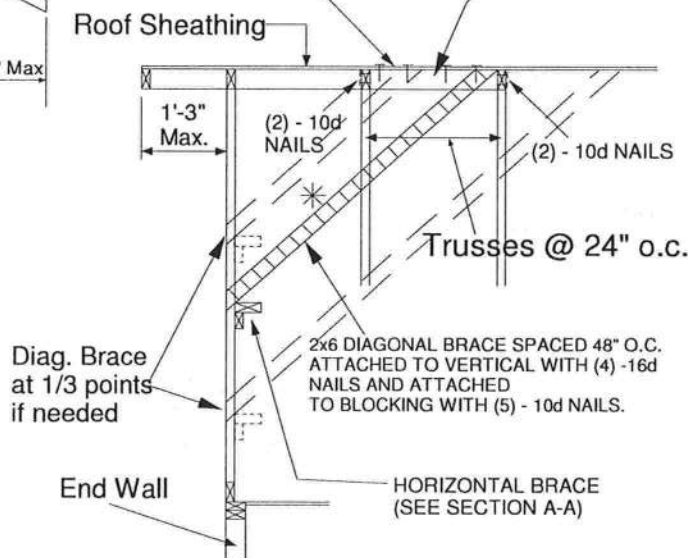


NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

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

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

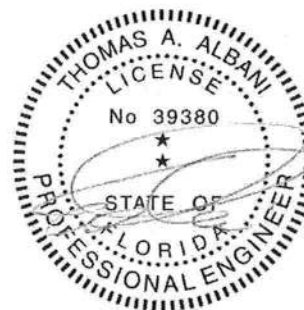


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7

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

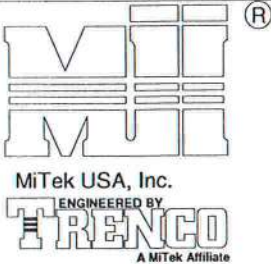
MAXIMUM WIND SPEED = 146 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

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



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TRUSS CRITERIA:

LOADING: 40-10-0-10

DURATION FACTOR: 1.15

SPACING: 24" O.C.

TOP CHORD: 2x4 OR 2x6

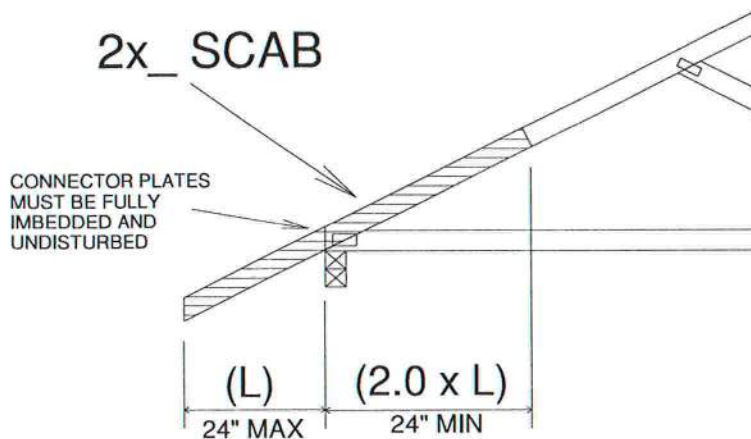
PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

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

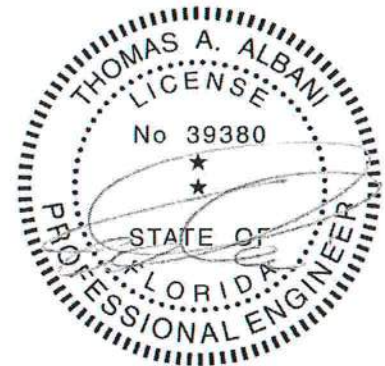


IMPORTANT

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

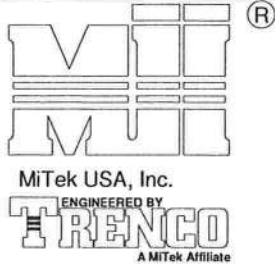
Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN
FOR PLATE SIZES AND LUMBER GRADES



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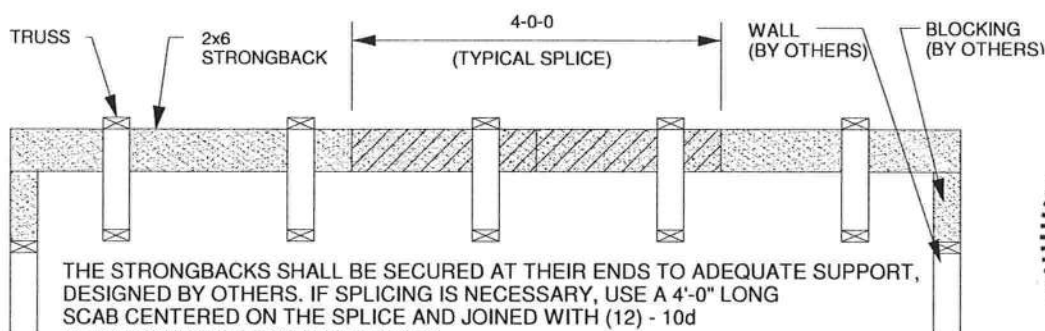
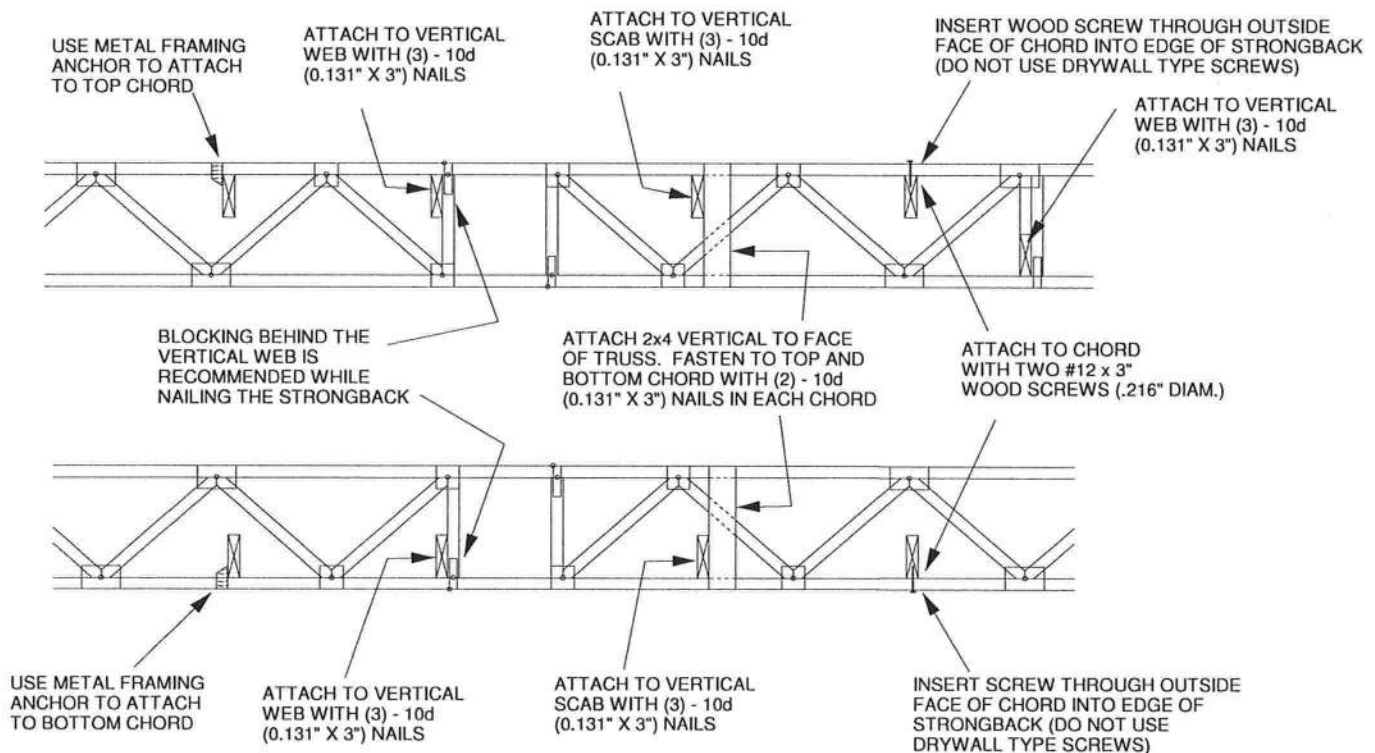
February 12, 2018



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.

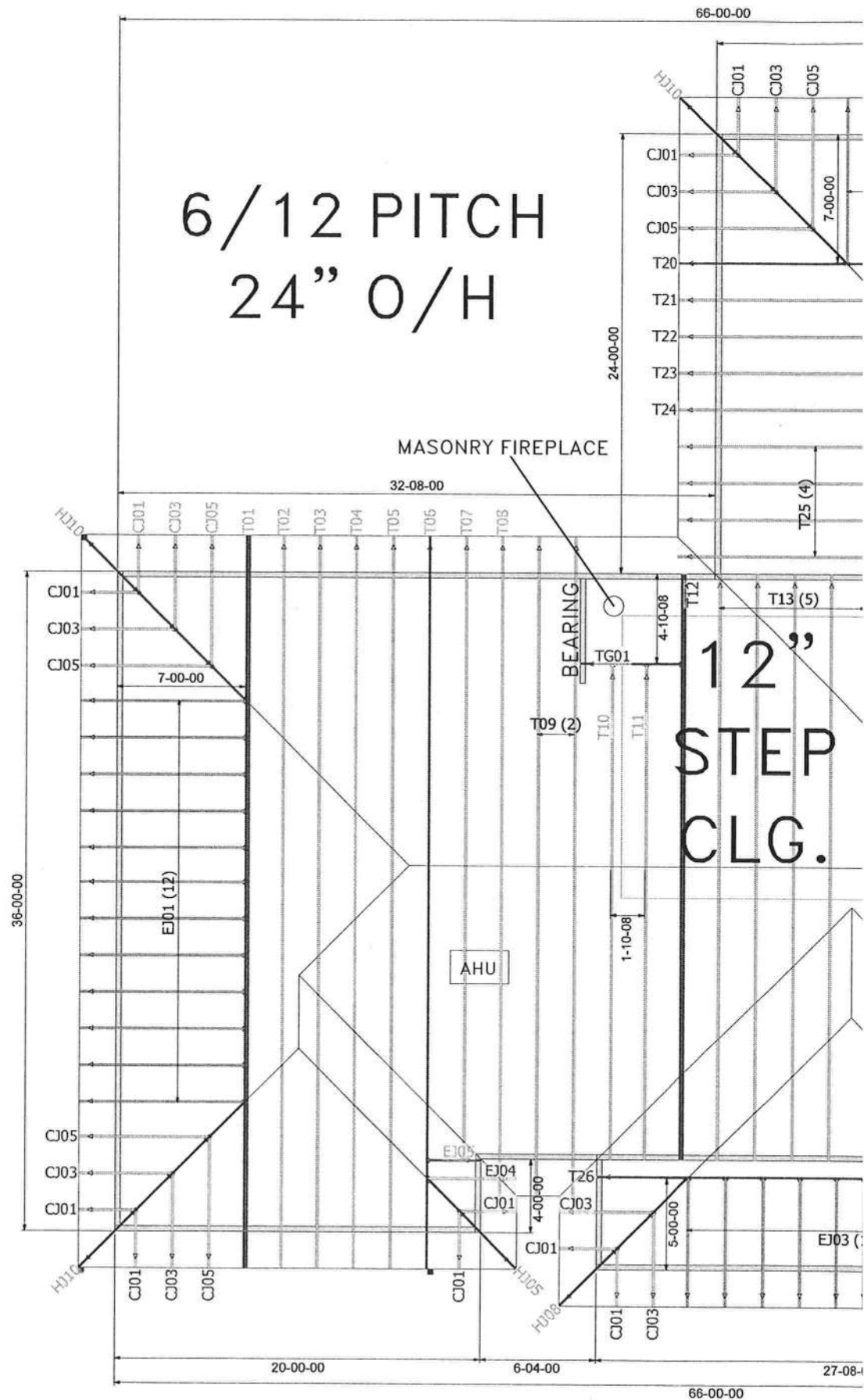


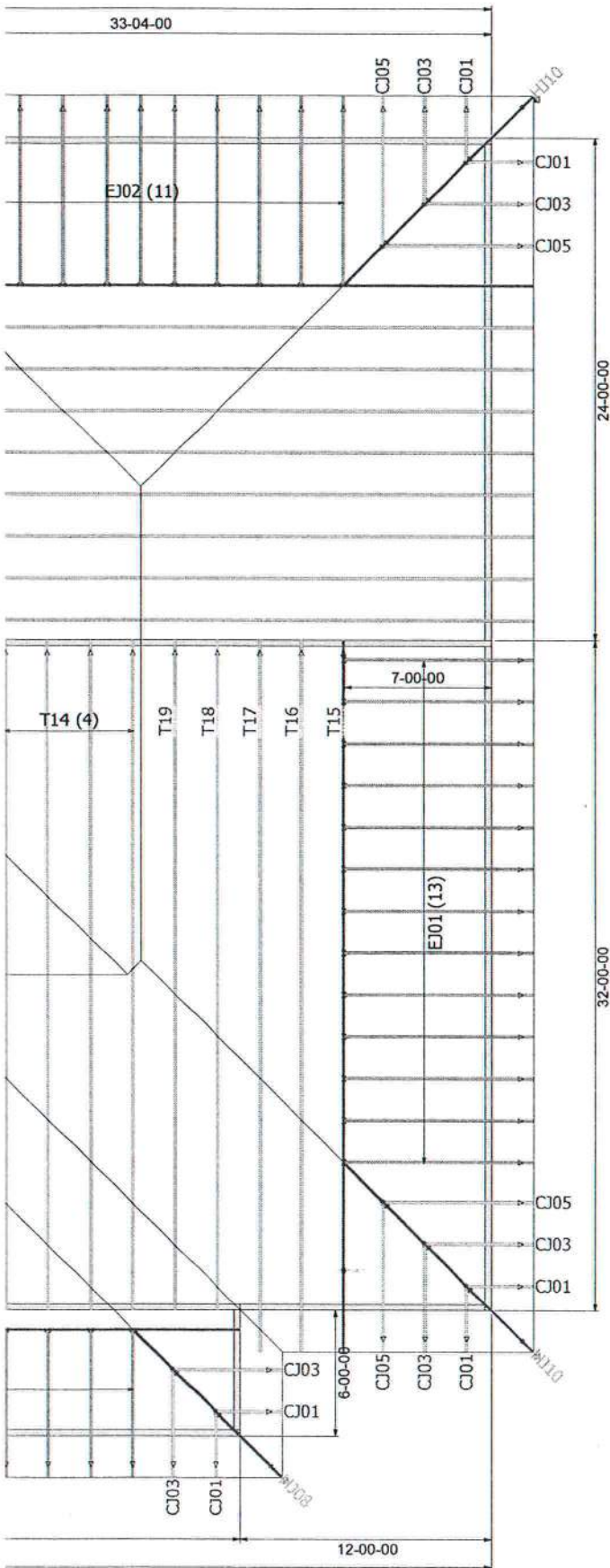
ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)



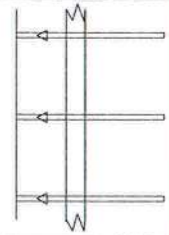
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Date:

February 12, 2018





THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



General Notes:

- Per ANSI/TPI 1-2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.
- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches-Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first.
850-835-4541

ACQ lumber is corrosive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

Builder:

GIEBEIG CONST.

Legal Address:

Sullivan Res.

Model:

Custom

Date:	Drawn By:	Original Ref #:
3-14-21	KLH	2714404
Floor 1 Job#	Floor 2 Job#:	Roof Job #:
N/A	N/A	2714404