

72990
SIMPSON

StrongTie

Job Cover Sheet



County copy 1

Job Type: Project
Seal: Florida
Priority: SameDayRush

Job #: 235539
Job Name: P-23-228 - 421 SE Alfred Markham Rd HOUSE
Customer: Century Truss Systems
Received: 6/7/2024 6:22 AM
Requested: 6/10/2024 10:00 AM

Contact/Shipping Information

Sent By: Chris Wallington
Sender Email: centurytrussengineering@gmail.com
Eng Email: centurytrussengineering@gmail.com
Ship Type: Email

Design Information

of Trusses: 14 **# of Wet:** 0
Design App: Truss Studio **Version:** 2023 9 2 1
Original Studio Version: 2023 9 2 1
Catalog: 235539_Catalog
Assoc. Jobs:

Customer Note:

Engineering Note:

#	Truss	Span	Pitch	L/R OH	App/ Version	Modified	Sequence #	
1	GE1	22-0-0	6.00 0.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947337	
Customer Note								
Engineering Note								
2	GE2	42-4-0	6.00 6.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947338	
Customer Note								
Engineering Note								
3	GE3	6-0-0	6.00 0.00	2-0-0 2-0-0	Truss Studio 2023.9.2.1		2947339	
Customer Note								
Engineering Note								
4	PB01	27-8-10	6.00 0.00	0-0-0 0-0-0	Truss Studio 2023.9.2.1		2947340	
Customer Note								
Engineering Note								
5	T01	32-1-4	6.00 3.50	2-0-0 0-0-0	Truss Studio 2023.9.2.1	X	2947341	
Customer Note								
Engineering Note								
6	T02	26-11-4	6.00 0.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947342	
Customer Note								
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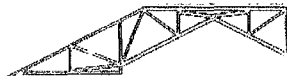
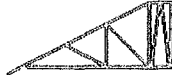

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Catalog: 235539_Catalog
Assoc. Jobs:

Customer Note:

Engineering Note:

#	Truss	Span	Pitch	L/R OH	App/ Version	Modified	Sequence #	
7	T02-A	37-1-8	6.00 6.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947343	
Customer Note								
Engineering Note								
8	T02-B	37-1-8	6.00 6.00	0-0-0 0-0-0	Truss Studio 2023.9.2.1		2947344	
Customer Note								
Engineering Note								
9	T03	24-7-6	6.00 0.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947345	
Customer Note								
Engineering Note								
10	T03-A	38-11- 12	6.00 6.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947346	
Customer Note								
Engineering Note								
11	T04	21-9-0	6.00 0.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947347	
Customer Note								
Engineering Note								
12	T04-A	42-4-0	6.00 6.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947348	
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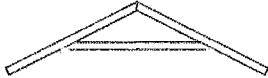
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Customer Note								
Engineering Note								
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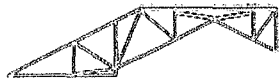

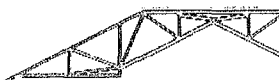


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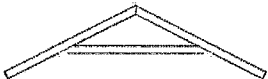
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Engineering Note								
14	T05	6-0-0	6.00 0.00	2-0-0 2-0-0	Truss Studio 2023.9.2.1		2947350	
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Engineering Note								



Century Truss Systems
1360 Saratoga St

Deland, Florida 32724

Ph

Reaction Summary

Page 1 of 2

Date 6/7/2024

Project: P-23-228 - 421 SE Alfred Markham Rd
HOUSE

CUSTOMER INFORMATION		JOB INFORMATION
Valued Customer	Phone	Sydash Construction L L.C
Placeholder	Fax	421 SE Alfred Markham Rd
Placeholder,	Email	Lake City, Florida 32025
Valued Customer -	Sls Chris Wallington	

Plan 1 Elevation A - Quantity: 1

Maximum number of reported reactions is 5

Truss	Qty per Elev	Span Spacing	Pitch Top Bottom	Plies	Truss Image	Location Dn Reaction Uplift Status Bearing Type	Location Dn Reaction Uplift Status Bearing Type	Location Dn Reaction Uplift Status Bearing Type	Location Dn Reaction Uplift Status Bearing Type	Location Dn Reaction Uplift Status Bearing Type
Weight										
T01 207 87	28	32-1-4 2-0-0	6 00 3 50	1		0-4-0 1434 (554) OK Wall	31-11-8 1274 (497) Failed Hanger			
T04 153 20	12	21-9-0 2-0-0	6 00 0 00	1		0-4-0 1020 (335) OK Wall	21-8-4 862 (297) OK Hanger			
T03 155 61	1	24-7-6 2-0-0	6 00 0 00	1		0-4-0 1133 (374) OK Wall	24-5-14 979 (332) OK Hanger			
T02 168 91	11	26-11-4 2-0-0	6 00 0 00	1		0-4-0 1226 (405) OK Wall	26-9-12 1081 (360) OK Hanger			
PB01 108 43	25	27-8-10 2-0-0	6 00 0 00	1		See TDD for reactions				
T03-A 303 65	1	38-11-12 2-0-0	6 00 0 00	1		0-4-0 1705 (576) OK Wall	38-7-6 1550 (513) OK Wall			
T04-A 369 93	7	42-4-0 2-0-0	6 00 0 00	1		0-4-0 1839 (612) OK Wall	42-0-0 1684 (552) OK Wall			
T04-B 272 25	5	42-4-0 2-0-0	6 00 0 00	1		0-4-0 302 (343) OK Wall	14-8-0 2736 (970) OK Wall	42-0-0 740 (415) OK Wall		

Engineered drawing values supersede any of these values if a discrepancy is found



Century Truss Systems
1360 Saratoga St

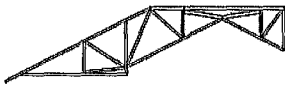



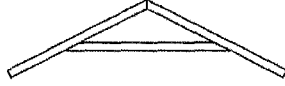
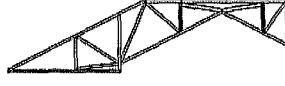
Deland, Florida 32724

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Reaction Summary

Page 2 of 2

Date 6/7/2024

T02-A 268 20	6	37-1-8 2-0-0	6 00 0 00	1		0-4-0 1631 (558) OK Wall	36-10-12 1478 (491) OK Wall		
GE1 162 47	1	22-0-0 2-0-0	6 00 0 00	1		See TDD for reactions			
GE2 373 55	1	42-4-0 2-0-0	6 00 0 00	1		7-2-0 2758 (868) OK Wall	42-0-0 763 (293) OK Wall		
GE3 27 82	1	6-0-0 2-0-0	6 00 0 00	1		See TDD for reactions			
T05 25 83	2	6-0-0 2-0-0	6 00 0 00	1		0-1-12 454 (147) OK Wall	5-10-4 454 (147) OK Wall		
T02-B 265 06	5	37-1-8 2-0-0	6 00 0 00	1		0-4-0 1490 (481) OK Wall	36-10-12 1480 (494) OK Wall		
Total: 106									

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Century Truss Systems
1360 Saratoga St

Deland, Florida 32724

Ph

Reaction Summary

Page 1 of 2

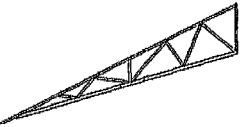
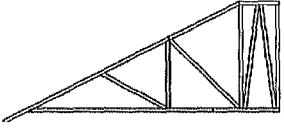
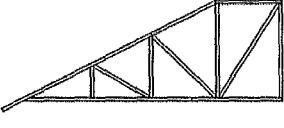
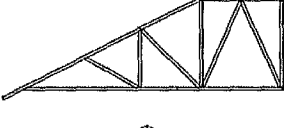

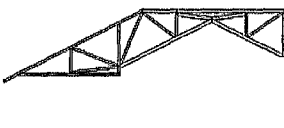
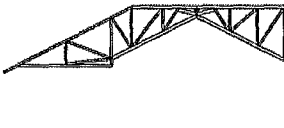

Date 6/7/2024

**Project: P-23-228 - 421 SE Alfred Markham Rd
HOUSE**

CUSTOMER INFORMATION			JOB INFORMATION	
Valued Customer	Placeholder	Placeholder,	Phone	Sydash Construction L L C
			Fax	421 SE Alfred Markham Rd
			Email	
			Sls Chris Wallington	Lake City, Florida 32025
Valued Customer -				

Plan 1 Elevation A - Quantity: 1

Maximum number of reported reactions is 5

Truss	Qty	Span	Pitch	Plies	Truss Image	Location	Location	Location	Location	Location
Weight	per	Spacing	Top			Dn Reaction	Dn Reaction	Dn Reaction	Dn Reaction	Dn Reaction
	Elev		Bottom			Uplift	Uplift	Uplift	Uplift	Uplift
						Status	Status	Status	Status	Status
						Bearing Type	Bearing Type	Bearing Type	Bearing Type	Bearing Type
T01	28	32-1-4	6 00	1		0-4-0	31-11-8			
207 87		2-0-0	3 50			1434	1274			
						(554)	(497)			
						OK	Failed			
						Wall	Hanger			
T04	12	21-9-0	6 00	1		0-4-0	21-8-4			
153 20		2-0-0	0 00			1020	862			
						(335)	(297)			
						OK	OK			
						Wall	Hanger			
T03	1	24-7-6	6 00	1		0-4-0	24-5-14			
155 61		2-0-0	0 00			1133	979			
						(374)	(332)			
						OK	OK			
						Wall	Hanger			
T02	11	26-11-4	6 00	1		0-4-0	26-9-12			
168 91		2-0-0	0 00			1226	1081			
						(405)	(360)			
						OK	OK			
						Wall	Hanger			
PB01	25	27-8-10	6 00	1		See TDD for reactions				
108 43		2-0-0	0 00							
T03-A	1	38-11-12	6 00	1		0-4-0	38-7-6			
303 65		2-0-0	0 00			1705	1550			
						(576)	(513)			
						OK	OK			
						Wall	Wall			
T04-A	7	42-4-0	6 00	1		0-4-0	42-0-0			
369 93		2-0-0	0 00			1839	1684			
						(612)	(552)			
						OK	OK			
						Wall	Wall			
T04-B	5	42-4-0	6 00	1		0-4-0	14-8-0	42-0-0		
272 25		2-0-0	0 00			302	2736	740		
						(343)	(970)	(415)		
						OK	OK	OK		
						Wall	Wall	Wall		

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Century Truss Systems
1360 Saratoga St

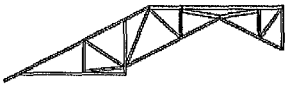
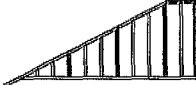


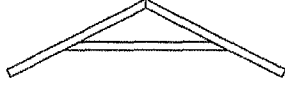

Deland, Florida 32724

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GE1 162 47	1	22-0-0 2-0-0	6 00 0 00	1		See TDD for reactions			
GE2 373 55	1	42-4-0 2-0-0	6 00 0 00	1		7-2-0 2758 (868) OK Wall	42-0-0 763 (293) OK Wall		
GE3 27 82	1	6-0-0 2-0-0	6 00 0 00	1		See TDD for reactions			
T05 25 83	2	6-0-0 2-0-0	6 00 0 00	1		0-1-12 454 (147) OK Wall	5-10-4 454 (147) OK Wall		
T02-B 265 06	5	37-1-8 2-0-0	6 00 0 00	1		0-4-0 1490 (481) OK Wall	36-10-12 1480 (494) OK Wall		
Total: 106									

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COMPONENT DESIGN DRAWINGS & DETAILS

**Simpson Strong-Tie
Company, Inc.**

5956 W Las Positas Blvd
Pleasanton, CA 94588
(800) 999-5099
www.strongtie.com

Prepared for: Century Truss Systems
Job: P-23-228 - 421 SE Alfred Markham Rd HOUSE
Date: 6/7/2024 6 22 AM
Ref. Number: 235539

Kevin M Boothe State of Florida, Professional
Engineer License No 69577

This item has been digitally signed and sealed
by Kevin M Boothe on the date indicated here

2024 06 07 14 09 53-05'00'

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

Notes

- 1 The component design drawings referenced below have been prepared based on design criteria and requirements set forth in the Construction Documents, as communicated by the Component Manufacturer
- 2 The engineer's signature on these drawings indicates professional engineering responsibility solely for the individual components to be able to resist the design loads indicated, utilizing all the design parameter and materials indicated or referenced on each individual design
- 3 It is the Building Designer's responsibility to review the component design drawings to insure compatibility with the Building design, Refer to all notes on the individual component design drawings

14 Component Design Drawing(s)

1-GE1 SID 2947337	5-T01: SID 2947341	9-T03 SID 2947345	13-T04-B SID 2947349
2-GE2 SID 2947338	6-T02 SID 2947342	10-T03-A SID 2947346	14-T05 SID 2947350
3-GE3 SID 2947339	7-T02-A SID 2947343	11-T04 SID 2947347	
4-PB01 SID 2947340	8-T02-B SID 2947344	12-T04-A SID 2947348	

General Notes

1. Each Truss Design Drawing (TDD) provided with this sheet has been prepared in conformance with ANSI/TPI 1. Refer to ANSI/TPI 1 Chapter 2 for the responsibilities of all parties involved, which include but are not limited to the responsibilities listed on this sheet, and for the definitions of all capitalized terms referenced in this document.
2. TDDs should not be assumed to be to scale.
3. The Contractor and Building Designer shall review and approve the Truss Submittal Package.
4. The suitability and use of the component depicted on the TDD for any particular building design is the responsibility of the Building Designer.
5. The Building Designer is responsible for the anchorage of the truss at all bearing locations as required to resist uplift, gravity and lateral loads, and for all Truss-to-Structural Element connections except Truss-to-Truss connections.
6. The Building Designer shall ensure that the supporting structure can accommodate the vertical and/or horizontal truss deflections.
7. Unless specifically stated otherwise, each Design assumes trusses will be adequately protected from the environment and will not be used in corrosive environments unless protected using an approved method. This includes not being used in locations where the sustained temperature is greater than 150°F.
8. Trusses are designed to carry loads within their plane. Any out-of-plane loads must be resisted by the Permanent Building Stability Bracing.
9. Design dead loads must account for all materials, including self-weight. The TDD notes will indicate the min. pitch above which the dead loads are automatically increased for pitch effects.
10. Trusses installed with roof slopes less than 0.25/12 may experience (but are not designed for) ponding. The Building Designer must ensure that adequate drainage is provided to prevent ponding.
11. Camber is a non-structural consideration and is the responsibility of truss fabricator.

Handling, Installing, Restraint & Bracing





1. The Contractor is responsible for the proper handling, erection, restraint and bracing of the Trusses. In lieu of job-specific details, refer to BCSI.
2. ANSI/TPI 1 stipulates that for trusses spanning 60' or greater, the Owner shall contract with any Registered Design Professional for the design and inspection of the temporary and permanent truss restraint and bracing. Simpson Strong-Tie is not responsible for providing these services.
3. Trusses require permanent lateral restraint to be applied to chords and certain web members (when indicated) at the locations or intervals indicated on the TDD. Web restraints are to be located at mid points, or third points of the member and chord purlins are not to exceed the spacing specified by the TDD. Chords shown without bracing indicated are assumed to be continuously braced by sheathing or drywall. Permanent lateral restraint shall be accomplished in accordance with standard industry lateral restraint/bracing details in BCSI-B3 or BCSI-B7, supplemental bracing details referenced on the TDD, or as specified in a project-specific truss permanent bracing plan provided by the Building Designer.
4. Additional building stability permanent bracing shall be installed as specified in the Construction Documents.
5. Special end wall bracing design considerations may be required if a flat gable end frame is used with adjacent trusses that have sloped bottom chords (see BCSI-B3).
6. Do not cut, drill, trim, or otherwise alter truss members or plates without prior written approval of an engineer, unless specifically noted on the TDD.
7. Piggyback assemblies shall be braced as per BCSI-B3 unless otherwise specified in the Construction Documents.
8. For floor trusses, when specified, Strongbacking shall be installed per BCSI-B7 unless otherwise specified in the Construction Documents.
9. For IBC 2021 and newer, truss chords without a diaphragm require a project specific bracing design prepared by a registered design professional.

Referenced Standards

ANSI/TPI 1: National Design Standard for Metal Plate Connected Wood Truss Construction, a Truss Plate Institute publication (www.tpinst.org)

BCSI: Guide to Good Practice for Handling, Installing, Restraining & Bracing Metal Plate Connected Wood Trusses, a joint publication of the Truss Plate Institute (www.tpinst.org) and the Structural Building Components Association (www.sbaindustry.com)

Symbols and Nomenclature

- 5x7** Plate size, the first digit is the plate width (perp. to the slots) and the second digit is the plate length (parallel to the slots)
- 5x7-18** -18, -18S5, or -18S6 following the plate size indicates different 18 gauge plate types
- || = < >** These symbols following the plate size indicate the direction of the plate length (and tooth slots) for square and nearly square plates
- 10'-3 14/16"** Dimensions are shown in feet-inches-sixteenths (for this example, the dimension is 10'-3 14/16")
-  Joints are numbered left to right, first along the top chord and then along the bottom chord. Mid-panel splice joint numbers are not shown on the drawing. Members are identified using their end joint numbers (e.g., TC 2-3).
-  When this symbol is shown, permanent lateral restraint is required. Lateral restraint may be applied to either edge of the member. See Note 3 under Handling, Installing, Restraint & Bracing for more information.
-  Bearing supports (wall, beam, etc.), locations at which the truss is required to have full bearing. Minimum required bearing width for the given reactions are reported on the TDD. Required bearing widths are based on the truss material and indicated PSI of the support material. The Building Designer is responsible for verifying that the capacity of the support material exceeds the indicated PSI, and for all other bearing design considerations.
-  Truss-to-Truss or Truss-to-Structural Element connection, which require a hanger or other structural connection (e.g., toe-nail) that has adequate capacity to resist the maximum reactions specified in the Reaction Summary. Structural connection type is not limited by type shown on TDD. Toe-nails may be used where hanger type shown where allowed by detail or other connection design information. Design of the Structural Element and the connection of the Truss to a Structural Element is by others.

Note: These symbols are for graphical interpretation only, they are not intended to give any indication of the geometry requirements of the actual item that is represented.

Materials and Fabrication

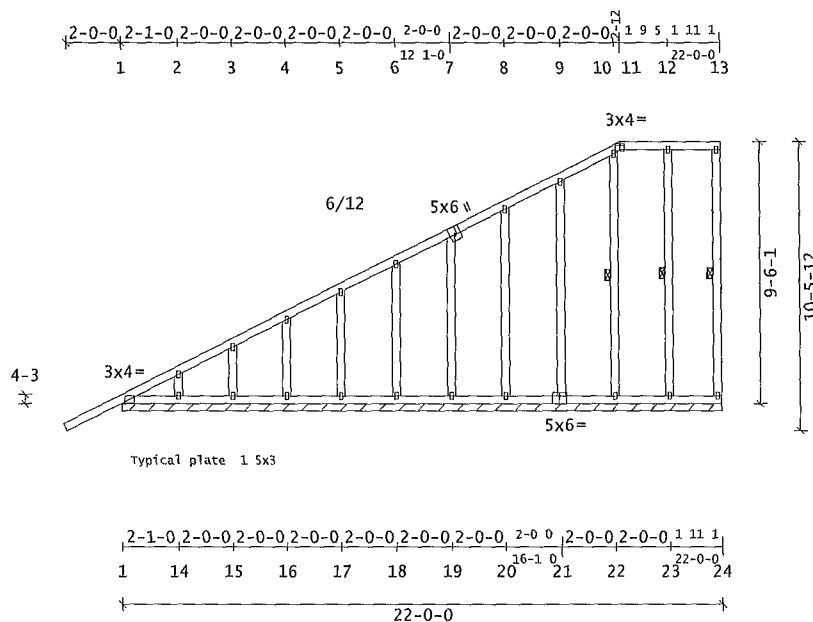
1. Design assumes truss is manufactured in accordance with the TDD and the quality criteria in ANSI/TPI 1 Chapter 3, unless more restrictive criteria are part of the contract specifications.
2. Unless specifically stated, lumber shall not exceed 19% moisture content at time of fabrication or in service.
3. Design is not applicable for use with fire retardant, preservative treated or green lumber unless specifically stated on the TDD.
4. Plate type, size, orientation and location indicated are based on the specified design parameters. Larger plate sizes may be substituted in accordance with ANSI/TPI 1, Section 3.6.3. Plates shall be embedded within ANSI/TPI 1 tolerances on both faces of the truss at each joint, unless noted otherwise.
5. Truss plates shall be centered on the joint unless otherwise specified.

DSB-89 Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Trusses, a Truss Plate Institute publication (www.tpinst.org)

NDS: National Design Specification for Wood Construction published by American Forest & Paper Association and American Wood Council
ESR-2762 Simpson Strong-Tie® AS Truss Plates are covered under ESR-2762 published by the International Code Council Evaluation Service (www.icc-es.org)

Page 1 of 1

Truss Mfr Contact. Chris Wallington



Truss Weight = 162.5 lb

Code/Design FBC-2023/TPI-2014	-----Snow Load Specs-----	-----Wind Load Specs-----	-----Additional Design Checks-----
PSF Live Dead Dur Factors	ASCE7-22 Ground Snow(Pg) = N/A	ASCE7-22 Wind Speed(V) = 140 mph	10 psf Non-Concurrent BCLL Yes
TC 20 0 10 0 Live Wind Snow	Risk Cat II Terrain Cat C	Risk Cat II Exposure Cat C	20 psf BC Limited Storage Yes
BC 0 0 10 0 Lum i 25 1 60 N/A	Roof Exposure Sheltered	Bldg Dims L = 97 2 ft B = 78 3 ft	200 lb BC Accessible Ceiling Yes
Total 40 0 Plt i 25 1 60 N/A	Thermal Condition All Others(1 0)	M R H(h) = 25 0 ft Kzt = 1 0	300 lb TC Maintenance Load Yes
Spacing 2 00-00 o c Plies 1	Unobstructed Slippery Roof No	Bldg Enclosure Enclosed	2000 lb TC Safe Load No
Repetitive Member Increase Yes	Low Slope Minimums(Pfmin) No	Wind DL(psf) TC = 5 0 BC = 5 0	Unbalanced TCLL Yes
Green Lumber No Wet Service No	Unbalanced Snow Loads	End Vertical Exposed L = Yes R = Yes	
Fab Tolerance 20% Creep (Kcr) = 2 0	Rain Surcharge No Ice Dam Chk No	Wind Uplift Reporting ASCE7 MWFRS	
OH Soffit Load 2 0 psf		Hurricane Prone Region	
		C&C End Zone 7-10-00	

TC	2x4	SP	(ALSC6-2013)	#1
BC	2x4	SP	(ALSC6-2013)	#1
Webs	2x4	SP	(ALSC6-2013)	#1

Max CSI in TC PANEL	1	~	1	0	53
Max CSI in BC PANEL	1	-	14	0	30
Max CSI in Web	24	-	13	0	95

	Mem	Ten	Comp	CSI
TC	1 7	117	0	0 53
	7-11	228	286	0 07
	11-13	242	205	0 06
BC	1-21	863	240	0 30
	21-24	242	205	0 03
Web	2-14	140	196	0 02
	3-15	239	229	0 03
	4-16	169	222	0 03
	5 17	144	222	0 05
	6-18	158	227	0 09
	7-19	147	221	0 12
	8 20	172	212	0 16
	9-21	232	226	0 22
	10-22	229	205	0 07
	12-23	163	223	0 08
	13-24	78	107	0 95

Jnt	-X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
1	03-04	557	111	22-00-00			
14	2-01 00	218	183	22-00-00			

Reactions not shown down < 400 and up < 150

Jnt Jnt React Up- --Width-
1- 24 50 15 22-00-00 (reduced)
Max Horiz = -258 / +548 at Joint 18

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-01-14] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.

The maximum rake overhang length is 12 0"

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size
requirement to transfer unblocked diaphragm loads across those joints
Continuous Lateral Restraint (CLR) rows require diagonal bracing per
D-WEBCLRBRACE. Alternatively, see D-WEBREINFORCE

Less than 0.25/12 pitch requires adequate drainage to prevent ponding

12345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970717273747576777879808182838485868788899091929394959697989910010110210310410510610710810911011111211311411511611711811912012112212312412512612712812913013113213313413513613713813914014114214314414514614714814915015115215315415515615715815916016116216316416516616716816917017117217317417517617717817918018118218318418518618718818919019119219319419519619719819920020120220320420520620720820921021121221321421521621721821922022122222322422522622722822923023123223323423523623723823924024124224324424524624724824925025125225325425525625725825926026126226326426526626726826927027127227327427527627727827928028128228328428528628728828929029129229329429529629729829930030130230330430530630730830931031131231331431531631731831932032132232332432532632732832933033133233333433533633733833934034134234334434534634734834935035135235335435535635735835936036136236336436536636736836937037137237337437537637737837938038138238338438538638738838939039139239339439539639739839940040140240340440540640740840941041141241341441541641741841942042142242342442542642742842943043143243343443543643743843944044144244344444544644744844945045145245345445545645745845946046146246346446546646746846947047147247347447547647747847948048148248348448548648748848949049149249349449549649749849950050150250350450550650750850951051151251351451551651751851952052152252352452552652752852953053153253353453553653753853954054154254354454554654754854955055155255355455555655755855956056156256356456556656756856957057157257357457557657757857958058158258358458558658758858959059159259359459559659759859960060160260360460560660760860961061161261361461561661761861962062162262362462562662762862963063163263363463563663763863964064164264364464564664764864965065165265365465565665765865966066166266366466566666766866967067167267367467567667767867968068168268368468568668768868969069169269369469569669769869970070170270370470570670770870971071171271371471571671771871972072172272372472572672772872973073173273373473573673773873974074174274374474574674774874975075175275375475575675775875976076176276376476576676776876977077177277377477577677777877978078178278378478578678778878979079179279379479579679779879980080180280380480580680780880981081181281381481581681781881982082182282382482582682782882983083183283383483583683783883984084184284384484584684784884985085185285385485585685785885986086186286386486586686786886987087187287387487587687787887988088188288388488588688788888989089189289389489589689789889990090190290390490590690790890991091191291391491591691791891992092192292392492592692792892993093193293393493593693793893994094194294394494594694794894995095195295395495595695795895996096196296396496596696796896997097197297397497597697797897998098198298398498598698798898999099199299399499599699799899910001001100210031004100510061007100810091010101110121013101410151016101710181019102010211022102310241025102610271028102910301031103210331034103510361037103810391040104110421043104410451046104710481049105010511052105310541055105610571058105910601061106210631064106510661067106810691070107110721073107410751076107710781079108010811082108310841085108610871088108910901091109210931094109510961097109810991100110111021103110411051106110711081109111011111112111311141115111611171118111911201121112211231124112511261127112811291130113111321133113411351136113711381139114011411142114311441145114611471148114911501151115211531154115511561157115811591160116111621163116411651166116711681169117011711172117311741175117611771178117911801181118211831184118511861187118811891190119111921193119411951196119711981199120012011202120312041205120612071208120912101211121212131214121512161217121812191220122112221223122412251226122712281229123012311232123312341235123612371238123912401241124212431244124512461247124812491250125112521253125412551256125712581259126012611262126312641265126612671268126912701271127212731274127512761277127812791280128112821283128412851286128712881289129012911292129312941295129612971298129913001

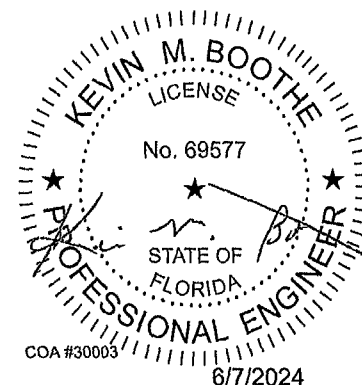
TrussSpan	Limit	Actual (in)	Location
Vert LL	L/240	L/999 (0 00)	1-14
Vert DL	L/120	L/999 (0 00)	1-14
Vert CR	L/180	L/999 (0 00)	1-14
Horz LL	0 75in	(0 01)	@Jt 1
Horz CR	1 25in	(0 01)	@Jt 1
Ohng CR	2L/180	2L/805 (0 06)	1- 1

-----Bracing Data----- --
Chords, Sheathing required or bracing
indicated

	---o---o---	---From---	---To---	#Bays
TC	5-11-00	2-01-09	19-03 04	5
TC	2-00-00	19-03-04	21-00-07	1
TC	11-00	21-00-07	22-00-00	2
BC	7-04-00	0	22-00-00	3

----- Web Bracing -- CLR -- -----
Single 22-10 23-12 24-13
Continuous Restraint Bracing Req'd
See BCSI B3 3 0

(None unless indicated below)
Jnt7(-00-04,00-07), Jnt11(0,-00-12),
Jnt21(0,-01-00)



NOTICE A copy of this design shall be furnished to the erection contractor. The design of this Individual truss is based on design criteria and requirements supplied by the Truss Manufacturer and relies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the Important Information & General Notes' pages for additional information. All connector plates shall be manufactured by Simpson Strong-Tie Company, Inc in accordance with ESR-2762. All connector plates are 20 gauge unless the specified plate size is followed by a '18' which indicates an 18 gauge plate or 'Sf 18' which indicates a high tension 18 gauge plate.

SIMPSON
Strong-Tie

Component Solutions
Truss Studio V
2023 9 2 1

Customer Valued Customer

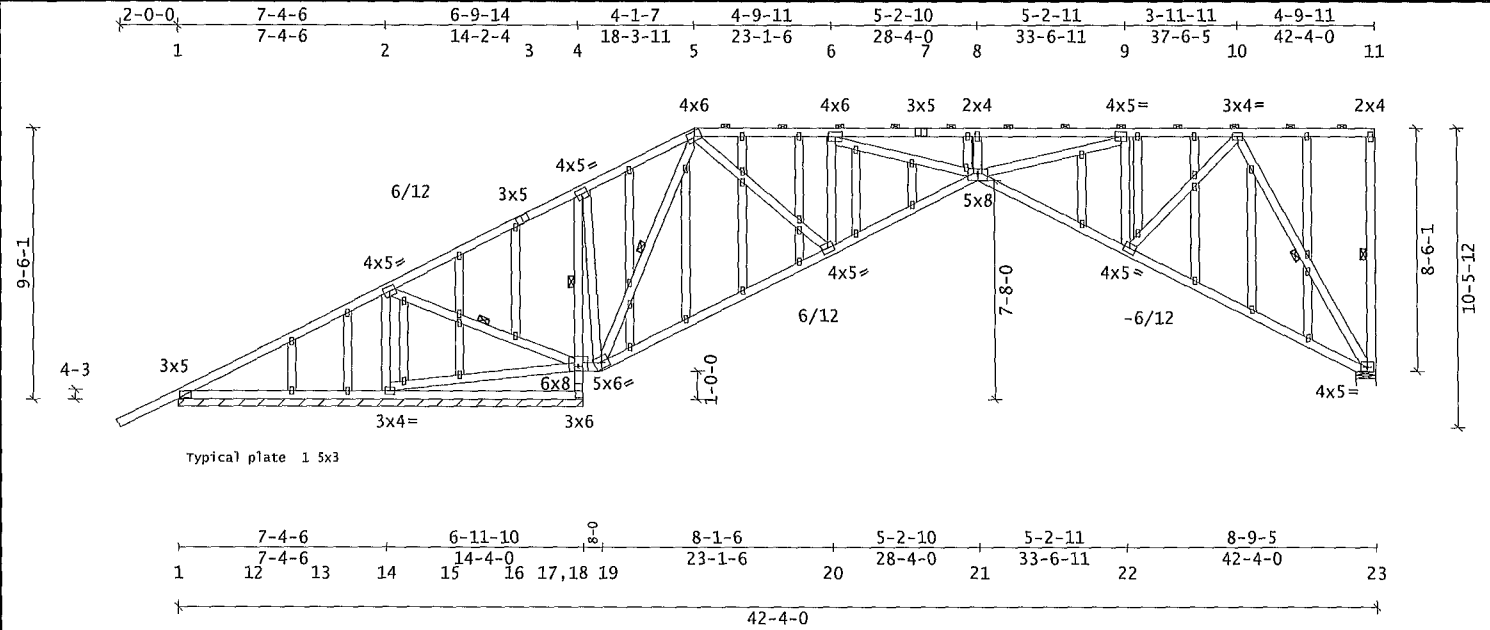
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TID 235539

Date 06/07/24

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Truss Mfr Contact: Chris Wallington



Truss Weight = 373.5 lb

Code/Design FBC-2023/TPI-2014
PSF Live Dead Dur Factors
TC 20 0 10 0 Live Wind Snow
BC 0 0 10 0 Lum 1 25 1 60 N/A
Total 40 0 Plt 1 25 1 60 N/A
Spacing 2'-00-00 o c Plies 1
Repetitive Member Increase Yes
Green Lumber No Wet Service No
Fab Tolerance 20% Creep (Kcr) = 2.0
OH Soffit Load 2.0 psf

-----Snow Load Specs-----
ASCE7-22 Ground Snow(Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low-Slope Minimums(Pfmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
ASCE7-22 Wind Speed(V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97.2 ft B = 78.3 ft
M R H(h) = 25.0 ft Kzt = 1.0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5.0 BC = 5.0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Prone Region
C&C End Zone 7-10-00

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL Yes
200 psf BC Limited Storage Yes
200 lb BC Accessible Ceiling Yes
300 lb TC Maintenance Load Yes
2000 lb TC Safe Load No
Unbalanced TCLL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
BC 2x4 SP (ALSC6-2013) #1
Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 2 - 3 0.87
Max CSI in BC PANEL 18 - 19 0.96
Max CSI in Web 23 - 11 0.70

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0.53
1- 2	616	693	0.55
2- 3	1860	1402	0.87
3- 4	1912	1380	0.79
4- 5	1580	1039	0.56
5- 6	367	185	0.29
6- 7	1127	1939	0.40
7- 8	1127	1939	0.32
8- 9	1127	1939	0.39
9-10	572	911	0.25
10-11	0	173	0.34
11-OH	0	0	0.00
BC 1-12	194	463	0.34
12-13	194	463	0.11
13-14	194	463	0.08
14-15	10	24	0.03
15-16	10	24	0.03
16-17	10	24	0.03
18-19	906	1633	0.96
19-20	506	864	0.61
20-21	163	198	0.46
21-22	1031	655	0.64
22-23	528	409	0.68
Web 2-14	655	290	0.10
2-18	944	1308	0.29
4-18	1418	2376	0.44
4-19	1865	905	0.37
5-19	1033	1651	0.53
5-20	981	534	0.21
6-20	624	830	0.22
6-21	1996	1264	0.40
8-21	271	325	0.03
9-21	1067	792	0.25
9-22	428	562	0.15
10-22	692	315	0.10
10-23	514	894	0.33
11-23	97	211	0.70
14-18	190	443	0.32
17-18	1921	2926	0.24

Reaction Summary

-----Reaction Summary(Lbs)-----
Jnt --X-Loc- React -Up- --Width- Req'd Mat PSI
23 42-02-04 763 292 03-08 01-08 SPF 425
14 7-04-06 316 547 14-04-00
17 14-02-04 2944 1199 14-04-00

Reactions not shown down < 400 and up < 150

-- Reaction Summary (plf) -----

Jnt-Jnt React -Up- --Width-
1- 17 10 0 14-04-00 (reduced)
Max Horiz = -237 / +531 at Joint 1

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [30-03-14] using a 1.00 Full and 0.00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.
The maximum rake overhang length is 12.0
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE. Alternatively, see D-WEBREINFORCE
Less than 0.25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan Limit Actual(in) Location
Vert LL L/240 L/999(-0.22) 22-23
Vert DL L/120 L/999(-0.25) 22-23
Vert CR L/180 L/721(-0.46) 22-23
Horz LL 0.75in (0.15) @Jt23
Horz CR 1.25in (0.30) @Jt23
Ohng CR 2L/180 2L/805(0.06) 1-1

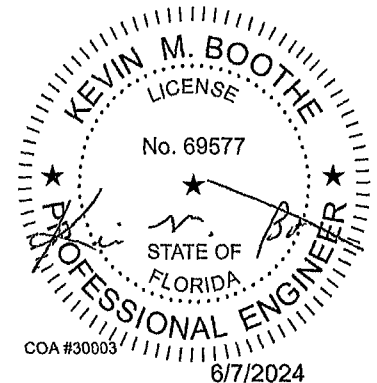
Bracing Data Summary

-----Bracing Data-----
Chords, Sheathing required or bracing indicated

-----Purlins-----
--oc-- --From-- --To-- #Bays
TC 5-11-00 -2-01-09 19-03-04 5
TC 2-00-00 19-03-04 41-04-07 11
TC 11-00 41-04-07 42-04-00 2
BC 4 11-00 0 42-00-08 10
-----Web Bracing - CLR-----
Single 2-18 18- 4 19- 5 10-23 23-11
Continuous Restraint Bracing Req'd
See BCSI-B3 3.0

Plate offsets (X, Y):

(None unless indicated below)
Jnt18(0,01-04), Jnt19(0,00-01,00 01),
Jnt21(0,-00-09), Jnt23(0,00-05)



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SIMPSON
Strong-Tie

Component Solutions
Truss Studio V
2023 9 2 1

Customer: Valued Customer

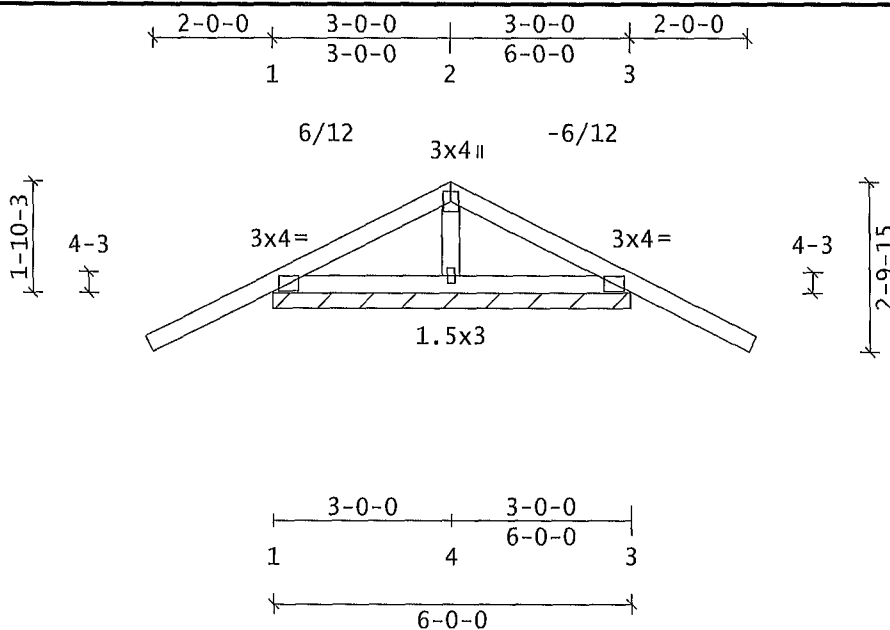
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TID 235539

Date 06/07/24

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Truss Mfr Contact: Chris Wallington



Truss Weight = 27.8 lb

Code/Design FBC-2023/TPI-2014
 PSF Live Dead Dur Factors
 TC 20 0 10 0 Live Wind Snow
 BC 0 0 10 0 Lum 1 25 1 60 N/A
 Total 40 0 Plt 1 25 1 60 N/A
 Spacing 2'-00-00 o c Plies 1
 Repetitive Member Increase Yes
 Green Lumber No Wet Service No
 Fab Tolerance 20% Creep (Kcr) = 2.0
 OH Soffit Load 2.0 psf

-----Snow Load Specs-----
 ASCE7-22 Ground Snow (Pg) = N/A
 Risk Cat II Terrain Cat C
 Roof Exposure Sheltered
 Thermal Condition All Others (1.0)
 Unobstructed Slippery Roof No
 Low-Slope Minimums (P_{fmin}) No
 Unbalanced Snow Loads No
 Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
 ASCE7-22 Wind Speed (V) = 140 mph
 Risk Cat II Exposure Cat C
 Bldg Dims L = 97.2 ft B = 78.3 ft
 M R H(h) = 25.0 ft K_{zt} = 1.0
 Bldg Enclosure Enclosed
 Wind DL (psf) TC = 5.0 BC = 5.0
 End Vertical Exposed L = Yes R = Yes
 Wind Uplift Reporting ASCE7 MWFRS
 Hurricane Prone Region
 C&C End Zone 7-10-00

-----Additional Design Checks-----
 10 psf Non-Concurrent BCLL Yes
 20 psf BC Limited Storage Yes
 200 lb BC Accessible Ceiling Yes
 300 lb TC Maintenance Load Yes
 2000 lb TC Safe Load No
 Unbalanced TCLL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
 BC 2x4 SP (ALSC6-2013) #1
 Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 1 - 1 0 53
 Max CSI in BC PANEL 1 - 4 0 28
 Max CSI in Web 4 - 2 0 03

Mem	Ten	Comp	CSI
TC 1- 2	117	0	0 53
2- 3	117	0	0 50
BC 1- 3	383	182	0 28
Web 2- 4	312	207	0 03

Reaction Summary

Reactions not shown down < 400 and up < 150
 ---- Reaction Summary (plf) ----
 Jnt Jnt React -Up- -Width
 1- 3 125 49 6-00 00
 Max Horiz = -48 / +48 at Joint 4

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [3'-00-00] using a 1.00 Full and 0.00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.

The maximum rake overhang length is 12.0"

Plates designed for C_q at 0.80 and Rotational Tolerance of 10.0 degrees. Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints. Lumber and plating have been applied symmetrically.

Deflection Summary

TrussSpan	Limit	Actual (in)	Location
Vert LL	L/240	L/999 (0.00)	4- 3
Vert DL	L/120	L/999 (0.00)	4- 3
Vert CR	L/180	L/999 (0.00)	4- 3
Horz LL	0.75in	(0.01)	@Jt 3
Horz CR	1.25in	(0.01)	@Jt 3
Ohng CR	2L/180	2L/692 (0.07)	1- 1
Ohng CR	2L/180	2L/692 (0.07)	3- 3

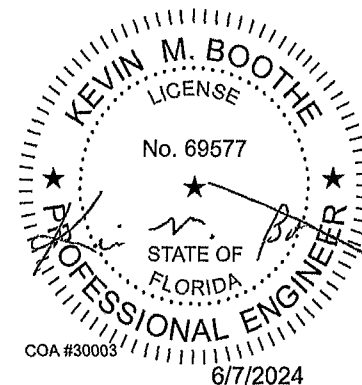
Bracing Data Summary

-----Bracing Data-----
 Chords Sheathing required or bracing indicated

-----Purlins-----
 --oc-- --From-- --To-- #Bays
 TC 5-08-00 -2-01-09 8-01-09 3
 BC 6-00-00 0 6-00-00 1
 Web Bracing - None

Plate offsets (X, Y):

(None unless indicated below)



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SIMPSON
Strong-Tie

Component Solutions
 Truss Studio V
 2023.9.2.1

Customer: Valued Customer

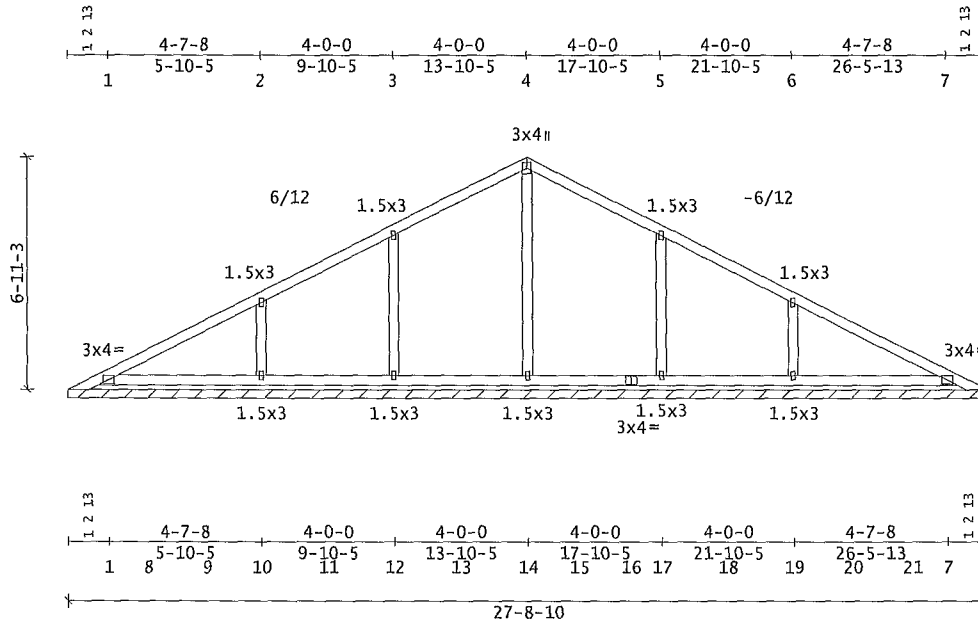
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TID 235539

Date 06/07/24

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Truss Mfr Contact: Chris Wallington



Truss Weight = 108 4 lb

Code/Design FBC-2023/TPI-2014
PSF Live Dead Dur Factors
TC 20 0 10 0 Live Wind Snow
BC 0 0 1 0 Lum 1 25 1 60 N/A
Total 31 0 Plt 1 25 1 60 N/A
Spacing 2-00-00 o c Plies 1
Repetitive Member Increase Yes
Green Lumber No Wet Service No
Fab Tolerance 20% Creep (Kor) = 2 0
OH Soffit Load 2 0 psf

-----Snow Load Specs-----
ASCE7-22 Ground Snow(Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low-Slope Minimums(Pfmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
ASCE7-22 Wind Speed(V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97 2 ft B = 78 3 ft
M R H(h) = 25 0 ft Kzt 1 0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5 0 BC = 1 0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Prone Region
C&C End Zone 7-10 00

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL Yes
20 psf BC Limited Storage Yes
200 lb BC Accessible Ceiling Yes
300 lb TC Maintenance Load Yes
2000 lb TC Safe Load No
Unbalanced TCLL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
BC 2x4 SP (ALSC6-2013) #1
Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 2 - 3 0 25
Max CSI in BC PANEL 1 - 8 0 17
Max CSI in Web 14 - 4 0 16

Mem	Ten	Comp	CSI
TC 1- 2	86	152	0 24
2- 3	104	70	0 25
3- 4	255	95	0 24
4- 5	255	95	0 24
5- 6	104	70	0 25
6- 7	86	152	0 24
BC 1- 8	242	74	0 17
7-21	242	74	0 17
8- 9	242	74	0 09
9-10	242	74	0 03
10-11	242	74	0 02
11-12	242	74	0 02
12-13	242	74	0 03
13-14	242	74	0 03
14-15	242	74	0 02
15-16	242	74	0 02
16-17	242	74	0 02
17-18	242	74	0 02
18-19	242	74	0 02
19-20	242	74	0 03
20-21	242	74	0 09
Web 2-10	485	315	0 05
3-12	304	306	0 09
4-14	0	255	0 16
5-17	304	306	0 09
6-19	485	315	0 05

Reaction Summary

-----Reaction Summary(Lbs)-----
Jnt --X-Loc- React -Up- - Width- -Reqd -Mat PSI
10 5-10-05 321 211 27-08-10
12 9-10-05 311 188 27-08-10
17 17-10-05 310 189 27-08-10
19 21-10-05 321 211 27-08-10
Reactions not shown down < 400 and up < 150
--- Reaction Summary (plf) ---
Jnt-Jnt React -Up- --Width-
1- 7 16 5 27 08-10 (reduced)
Max Horiz = -223 / +223 at Joint 14

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [13-10-05] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0 80 and Rotational Tolerance of 10 0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0 00)	1- 8
Vert DL	L/120	L/999(-0 00)	21 7
Vert CR	L/180	L/999(-0 01)	21- 7
Horz LL	0 75in	(0 01)	@Jt 1
Horz CR	1 25in	(0 01)	@Jt 1

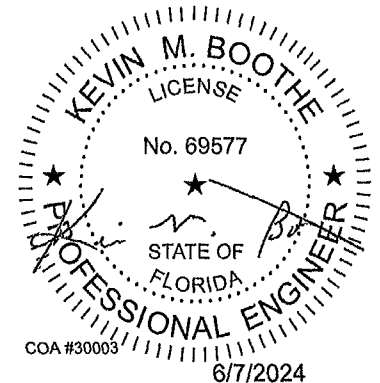
Bracing Data Summary

-----Bracing Data-----
Chords Sheathing required or bracing indicated

-----Purlins-----
oc-- --From-- --To-- #Bays
TC 5-01-00 0 27-08 10 7
BC 8-07-00 11-09 26-09-01 4
Web Bracing -- None

Plate offsets (X, Y):

(None unless indicated below)



COA #30003

6/7/2024

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Component Solutions
Truss Studio V
2023 9 2 1

Customer: Valued Customer

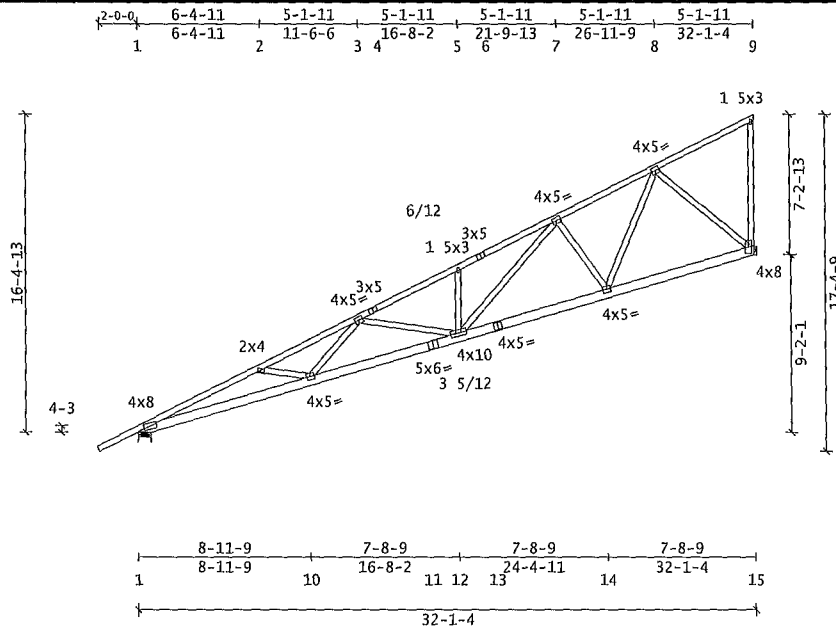
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TID 235539

Date 06/07/24

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Truss Mfr Contact: Chris Wallington



Truss Weight = 207 9 lb

Code/Design FBC-2023/TPI-2014
PSF Live Dead Dur Factors
TC 20 0 10 0 Live Wind Snow
BC 0 0 10 0 Lum 1 25 1 60 N/A
Total 40 0 Plt 1 25 1 60 N/A
Spacing 2-00-00 o c Plies 1
Repetitive Member Increase Yes
Green Lumber No Wet Service No
Fab Tolerance 20% Creep (Kcr) = 2 0
OH Soffit Load 2 0 psf

-----Snow Load Specs-----
ASCE7 22 Ground Snow(Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low-Slope Minimums(Pfmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
ASCE7-22 Wind Speed(V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97 2 ft B = 78 3 ft
M R H(h) = 25 0 ft Kzt = 1 0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5 0 BC = 5 0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Prone Region
C&C End Zone 7-10 00

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL Yes
20 psf BC Limited Storage Yes
200 lb BC Accessible Ceiling Yes
300 lb TC Maintenance Load Yes
2000 lb TC Safe Load No
Unbalanced TCLL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
BC 2x6 SP (ALSC6-2013) S5
Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 1 - 2 0 97
Max CSI in BC PANEL 1 - 10 0 96
Max CSI in Web 8 - 15 0 82

Mem	Ten	Comp	CSI
TC OH- 1	114	0	0 51
1- 2	3172	4628	0 97
2- 3	2734	4227	0 82
3- 4	2044	3208	0 53
4- 5	2063	3187	0 48
5- 6	2233	3198	0 44
6- 7	2251	3167	0 47
7- 8	1117	1618	0 50
8- 9	119	269	0 41
9-OH	0	7	0 00
BC 1 10	4229	3785	0 96
10-11	3714	3273	0 74
11-12	3721	3255	0 62
12-13	1952	1842	0 17
13-14	1984	1836	0 21
14-15	1009	1067	0 18
15-OH	0	3	0 00
Web 2-10	584	395	0 07
3-10	438	147	0 06
3-12	708	752	0 33
5-12	367	320	0 06
7-12	1443	1141	0 61
7-14	801	867	0 29
8-14	1232	844	0 33
8-15	1219	1245	0 82
9-15	280	218	0 47

Reaction Summary

-----Reaction Summary (Lbs)-----
Jnt --X-Loc- React --Up- --Width- --Reqd Mat PSI
1 04-00 1434 554 08-00 02-04 SPF 425
15 31-11 08 1274 497 01-09 HGR SPF 565
Max Horiz = -206 / +717 at Joint 1
Max Horiz = -206 / +717 at Joint 15

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [32-01-04] using a 1 00 Full and 0 00 Reduced load factor
See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0 80 and Rotational Tolerance of 10 0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0 31)	10-12
Vert DL	L/120	L/999(-0 31)	10-12
Vert CR	L/180	L/614(-0 62)	10-12
Horz LL	0 75in	(0 04)	@Jt15
Horz CR	1 25in	(0 08)	@Jt15
Ohng CR	2L/180	2L/813(0 06)	1- 1

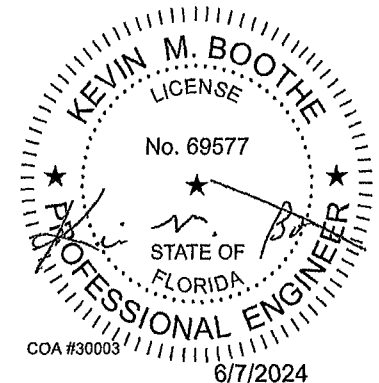
Bracing Data Summary

-----Bracing Data-----
Chords, Sheathing required or bracing indicated

-----Purlins-----
-----oc----- --From----- --To----- #Bays
TC 2-05-00 -2 01-09 32-01-04 16
BC 6-00-00 0 32-01-04 6
Web Bracing -- None

Plate offsets (X, Y):

(None unless indicated below)



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Component Solutions
Truss Studio V
2023 9 2 1

Customer Valued Customer

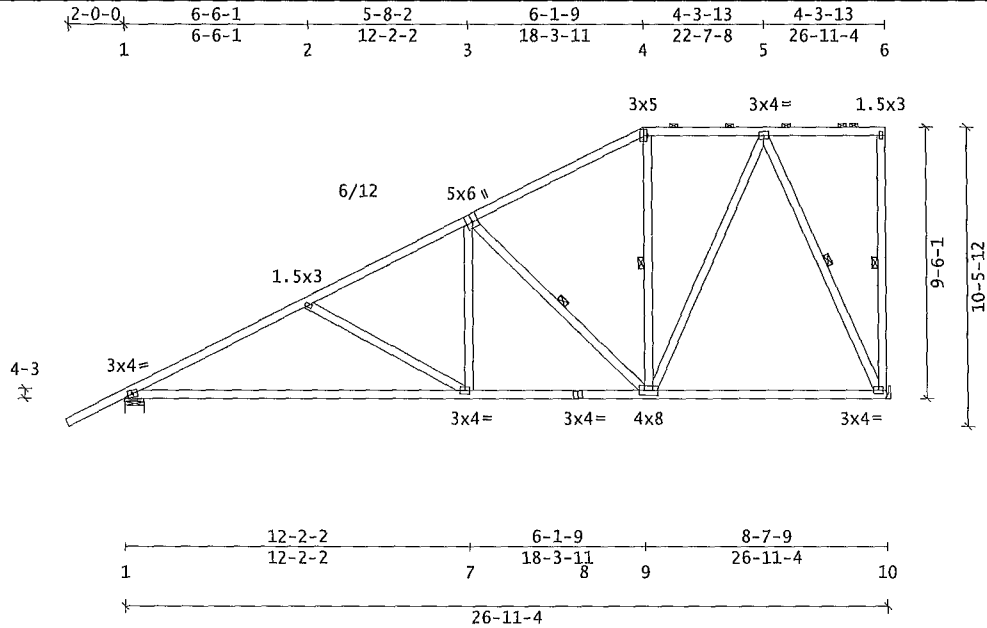
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TID 235539

Date 06/07/24

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Truss Mfr Contact: Chris Wallington



Truss Weight = 168 9 lb

Code/Design FBC-2023/TPI-2014

PSF Live Dead Dur Factors
 TC 20 0 10 0 Live Wind Snow
 BC 0 0 10 0 Lum 1 25 1 60 N/A
 Total 40 0 Plt 1 25 1 60 N/A
 Spacing 2'-00-00 o c Plies 1
 Repetitive Member Increase Yes
 Green Lumber No Wet Service No
 Fab Tolerance 20% Creep (Kcr) = 2.0
 OH Soffit Load 2.0 psf

-----Snow Load Specs-----
 ASCE7-22 Ground Snow(Pg) = N/A
 Risk Cat II Terrain Cat C
 Roof Exposure Sheltered
 Thermal Condition All Others(1 0)
 Unobstructed Slippery Roof No
 Low-Slope Minimums(Pfmin) No
 Unbalanced Snow Loads No
 Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
 ASCE7-22 Wind Speed(V) = 140 mph
 Risk Cat II Exposure Cat C
 Bldg Dims L = 97.2 ft B = 78.3 ft
 M R H(h) = 25.0 ft Kzt = 1.0
 Bldg Enclosure Enclosed
 Wind DL(psf) TC = 5.0 BC = 5.0
 End Vertical Exposed L = Yes R = Yes
 Wind Uplift Reporting ASCE7 MWFRS
 Hurricane Prone Region
 C&C End Zone 7-10-00

-----Additional Design Checks-----
 10 psf Non-Concurrent BCLL Yes
 20 psf BC Limited Storage Yes
 200 lb BC Accessible Ceiling Yes
 300 lb TC Maintenance Load Yes
 2000 lb TC Safe Load No
 Unbalanced TCLL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
 BC 2x4 SP (ALSC6-2013) #1
 Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 1 - 2 0.99
 Max CSI in BC PANEL 1 - 7 1.00
 Max CSI in Web 10 - 6 0.90

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0.52
1- 2	1209	1785	0.99
2- 3	944	1404	0.71
3- 4	724	843	0.55
4- 5	731	673	0.33
5- 6	230	199	0.30
6-OH	0	0	0.00
BC 1- 7	1532	1394	1.00
7- 8	1183	1013	0.80
8- 9	1183	1013	0.76
9-10	402	418	0.81
10-OH	0	0	0.00
Web 2- 7	512	393	0.26
3- 7	474	137	0.07
3- 9	576	718	0.22
4- 9	132	72	0.02
5- 9	684	480	0.28
5-10	834	975	0.40
6-10	124	199	0.90

Reaction Summary

-----Reaction Summary (Lbs)-----
 Jnt --X- Loc- React -Up- --Width- -Reqd -Mat PSI
 1 03-04 1225 405 08-00 01-15 SPF 425
 10 26-09 08 1081 360 03-00 HGR SPF 565
 Max Horiz = -258 / +548 at Joint 1
 Max Horiz = -258 / +548 at Joint 10

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [22-07-08] using a 1.00 Full and 0.00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees
 Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
 Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE Alternatively, see D-WEBREINFORCE
 Less than 0.25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/771(-0.41)	1- 7
Vert DL	L/120	L/793(-0.40)	1- 7
Vert CR	L/180	L/391(-0.81)	1- 7
Horz LL	0.75in	(0.02)	@Jt10
Horz CR	1.25in	(0.04)	@Jt10
Chng CR	2L/180	2L/805(0.06)	1- 1

Bracing Data Summary

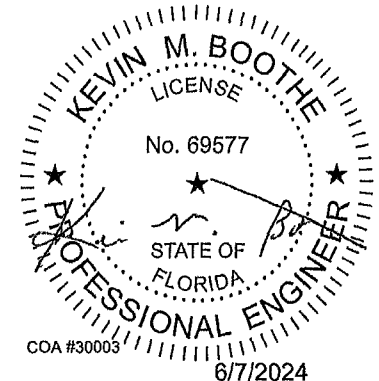
-----Bracing Data-----
 Chords, Sheathing required or bracing indicated

oc	From	To	#Bays	
TC	4-07-00	-2-01-09	19-03-04	6
TC	2-00-00	19-03-04	25-11-11	4
TC	11-00	25-11-11	26-11-04	2
BC	7-11-00	0	26-11-04	4

-----Web Bracing----- CLR -----
 Single 3 9 9- 4 5-10 10- 6
 Continuous Restraint Bracing Req'd
 See BCSI-B3 3.0

Plate offsets (X, Y):

(None unless indicated below)
 Jnt1(0,00 01), Jnt3(-00 04,00-07),
 Jnt4(-01-12,0)



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Component Solutions
 Truss Studio V
 2023 9 2 1

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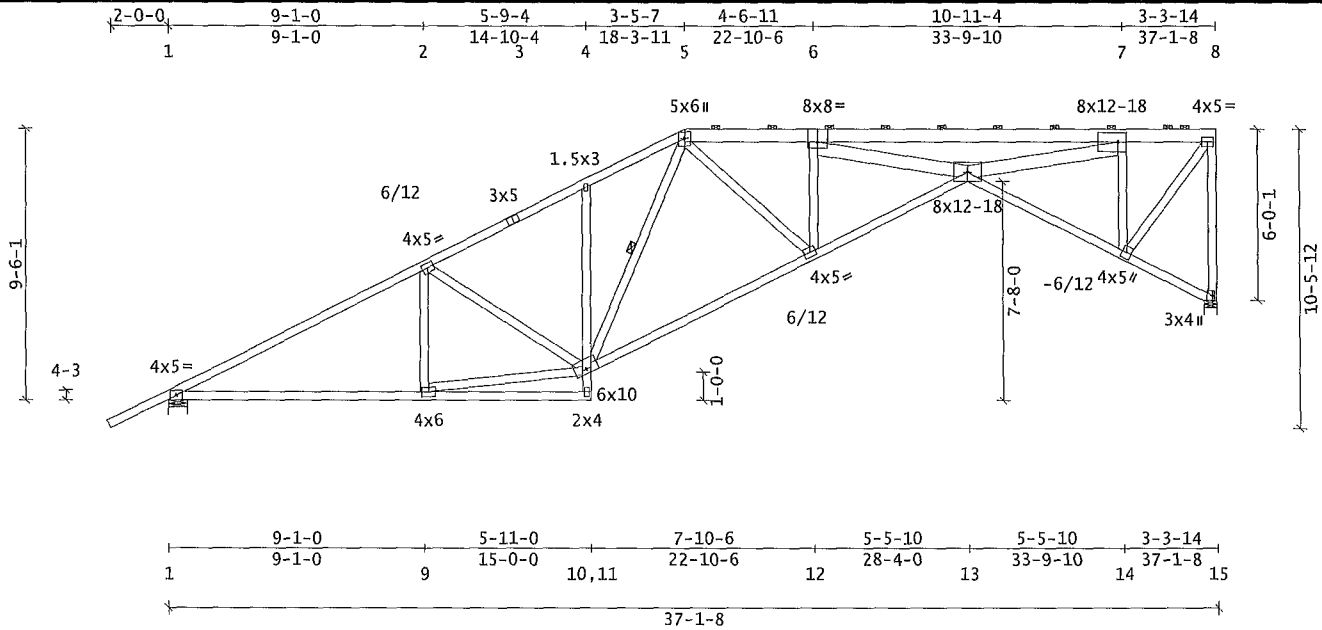
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TID 235539

Date 06/07/24

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Truss Mfr Contact Chris Wallington



Truss Weight = 268 2 lb

Code/Design FBC-2023/TPI-2014
PSF Live Dead Dur Factors
TC 20 0 10 0 Live Wind Snow
BC 0 0 10 0 Lum 1 25 1 60 N/A
Total 40 0 Plt 1 25 1 60 N/A
Spacing 2-00-00 o c Plies 1
Repetitive Member Increase Yes
Green Lumber No Wet Service No
Fab Tolerance 20% Creep (Kcr) = 2 0
OH Soffit Load 2 0 psf

---Snow Load Specs---
ASCE7-22 Ground Snow(Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low Slope Minimums(Fmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

---Wind Load Specs---
ASCE7-22 Wind Speed(V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97 2 ft B = 78 3 ft
M R H(h) = 25 0 ft Kzt = 1 0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5 0 BC = 5 0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Prone Region
C&C End Zone 7-10-00

---Additional Design Checks---
10 psf Non-Concurrent BCLL Yes
20 psf BC Limited Storage Yes
200 lb BC Accessible Ceiling Yes
300 lb TC Maintenance Load Yes
2000 lb TC Safe Load No
Unbalanced TCLL Yes

Material Summary

TC	2x4	SP (ALSC6-2013)	#1	
	2x6	SP (ALSC6-2013)	SS	5-6
6-8				
BC	2x4	SP (ALSC6-2013)	#1	
Webs	2x4	SP (ALSC6-2013)	#1	
	2x6	SP (ALSC6 2013)	SS	6-13
13-7				

Reaction Summary

-----Reaction Summary(Lbs)-----
Jnt --X-Loc- React -Up- --Width- -Reqd- -Mat PSI
1 03-04 1631 557 08-00 02-09 SPF 425
15 36-11-12 1478 490 05-08 01-14 SPF 531
Max Horiz = -158 / +457 at Joint 1
Max Horiz = -158 / +457 at Joint 15

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [27-08-10] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0 80 and Rotational Tolerance of 10 0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE Alternatively, see D-WEBREINFORCE
Less than 0 25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0 33)	13-14
Vert DL	L/120	L/991(-0 44)	11 12
Vert CR	L/180	L/586(-0 75)	11-12
Horz LL	0 75in	(0 28)	@Jt15
Horz CR	1 25in	(0 56)	@Jt15
Chng CR	2L/180	2L/805(-0 06)	1- 1

Bracing Data Summary

-----Bracing Data -----
Chords Sheathing required or bracing indicated

-----Purlins-----
TC 2-10-00 -2-01-09 19 03-04 9
TC 2-00-00 19-03-04 36-01-15 9
TC 11-00 36-01-15 37-01-08 2
BC 5-07-00 0 37 01-08 8
----- Web Bracing --- CLR -----
Single 11- 5
Continuous Restraint Bracing Req'd
See BCSI-B3 3 0

Plate offsets (X, Y):

(None unless indicated below)
Jnt1(0,00-02), Jnt5(0,-00-05),
Jnt6(0,01-08), Jnt7(-02-08,0),
Jnt11(-00-09,01-02), Jnt13(0,00-01),
Jnt15(-00-13,-00-01)

Member Forces Summary

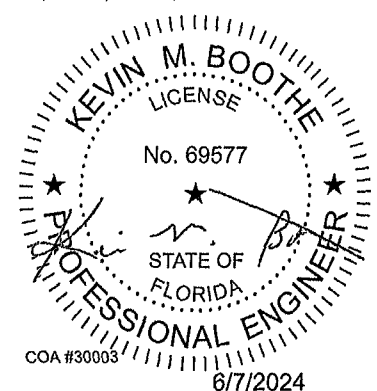
Max CSI in TC PANEL	1 - 2	1 00
Max CSI in BC PANEL	12 - 13	0 99
Max CSI in Web	15 - 8	0 72

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0 51
1- 2	1764	2602	1 00
2- 3	1698	2307	0 83
3- 4	1710	2222	0 44
4- 5	1851	2277	0 35
5- 6	2388	3126	0 26
6- 7	4230	6528	0 66
7- 8	834	1132	0 21
8-OH	0	0	0 00
BC 1- 9	2224	1667	0 67
9-10	44	33	0 42
11-12	2325	1608	0 77
12-13	3567	2444	0 99
13-14	1273	845	0 44
14-15	819	263	0 22
15-OH	5	0	0 00
Web 2- 9	342	199	0 06
2-11	388	316	0 22
4-11	315	318	0 23
5-11	146	371	0 09
5-12	1438	939	0 28
6-12	1085	1354	0 35
6-13	3464	2070	0 33
7-13	5563	3500	0 52
7-14	1308	1906	0 49
8-14	1871	1170	0 28
8-15	902	1471	0 72
9-11	2208	1655	0 40
10-11	111	0	0 08

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SIMPSON
Strong-Tie

Component Solutions
Truss Studio V
2023 9 2 1



Customer: Valued Customer

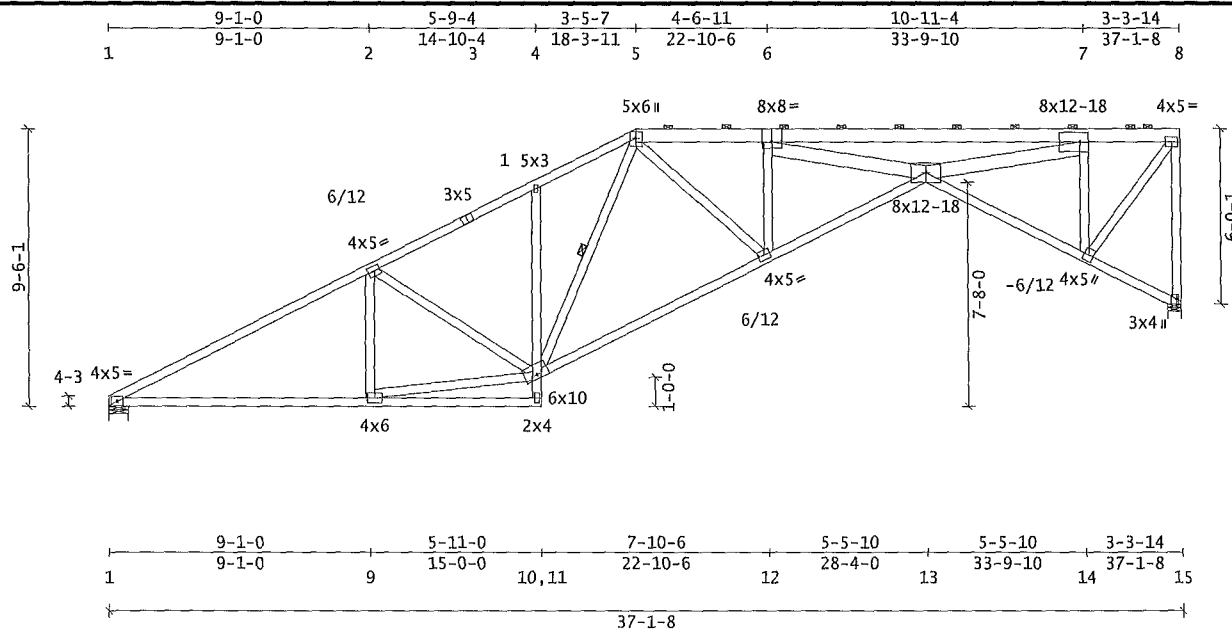
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TID 235539

Date 06/07/24

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Truss Mfr Contact: Chris Wallington



Truss Weight = 265 1 lb

Code/Design FBC-2023/TPI-2014

PSF	Live	Dead	Dur	Factors
TC	20 0	10 0	Live	Wind Snow
BC	0 0	10 0	Lum 1	25 1 60 N/A
Total	40 0	Plt 1	25 1 60	N/A
Spacing	2-00-00	o c	Plies	1
Repetitive Member Increase	Yes			
Green Lumber	No	Wet Service	No	
Fab Tolerance	20% Creep (Kcr)	= 2 0		
OH Soffit Load	2 0	psf		

Snow Load Specs-----
ASCE7-22 Ground Snow(Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low-Slope Minimums(Pfmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

Wind Load Specs-----
ASCE7-22 Wind Speed(V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97 2 ft B = 78 3 ft
M R H(h) = 25 0 ft Kzt = 1 0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5 0 BC = 5 0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Prone Region
C&C End Zone 7-10-00

Additional Design Checks-----
10 psf Non-Concurrent BCLL Yes
20 psf BC Limited Storage Yes
200 lb BC Accessible Ceiling Yes
300 lb TC Maintenance Load Yes
2000 lb TC Safe Load No
Unbalanced TCLL Yes

Material Summary

TC	2x4	SP (ALSC6-2013)	#1
6-8	2x6	SP (ALSC6-2013)	SS 5 6
BC	2x4	SP (ALSC6-2013)	#1
Webs	2x4	SP (ALSC6-2013)	#1
13-7	2x6	SP (ALSC6-2013)	SS 6-13

Reaction Summary

Reaction Summary (Lbs)-----
Jnt --X-Loc- React --Up- --Width- --Regd --Mat PSI
1 03-04 1489 480 08-00 02-05 SPF 425
15 36-11-12 1480 493 05-08 01-14 SPF 531
Max Horiz = -181 / +429 at Joint 1
Max Horiz = -181 / +429 at Joint 15

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [27-08-10] using a 1 00 Full and 0 00 Reduced load factor
See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0 80 and Rotational Tolerance of 10 0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE Alternatively, see D-WEBREINFORCE
Less than 0 25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0 33)	13-14
Vert DL	L/120	L/995(-0 44)	11-12
Vert CR	L/180	L/589(-0 75)	11 12
Horz LL	0 75in	(0 28) @Jt15	
Horz CR	1 25in	(0 57) @Jt15	

Bracing Data Summary

Chords; Sheathing required or bracing indicated
-----Purlins-----

TC	2-09-00	--From--	--To--	#Bays
TC	2-09-00	0	19-03-04	8
TC	2-00-00	19-03-04	36-01-15	9
TC	11-00	36-01-15	37-01-08	2
BC	5-07-00	0	37-01-08	8

Single 11- 5
Continuous Restraint Bracing Req'd
See BCSI-B3 3 0

Plate offsets (X, Y):

(None unless indicated below)
Jnt1(0,00-02), Jnt5(0, 00-05),
Jnt6(0,01-08), Jnt7(-02 08,0),
Jnt11(-00-09,01-02), Jnt13(0,00-01),
Jnt15(-00-13,-00-01)

Member Forces Summary

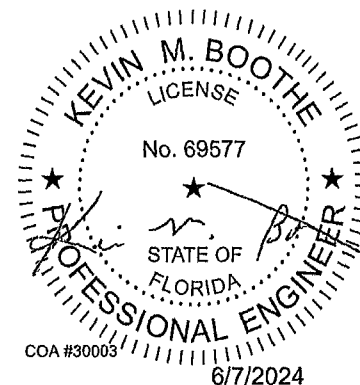
Max CSI in TC PANEL	1	2	1 00
Max CSI in BC PANEL	12 - 13	0 99	
Max CSI in Web	15 - 8	0 73	

Mem	Ten	Comp	CSI
TC 1- 2	1903	2618	1 00
2- 3	1784	2314	0 99
3- 4	1795	2224	0 39
4- 5	1921	2283	0 30
5- 6	2462	3132	0 26
6- 7	4359	6540	0 67
7- 8	851	1133	0 18
8-OH	0	0	0 00
BC 1- 9	2240	1838	0 70
9-10	44	36	0 44
11-12	2331	1674	0 77
12-13	3574	2524	0 99
13-14	1275	850	0 44
14-15	748	234	0 22
15-OH	5	0	0 00
Web 2- 9	334	187	0 06
2-11	496	328	0 23
4-11	307	314	0 22
5-11	145	339	0 08
5-12	1439	950	0 28
6-12	1097	1355	0 35
6 13	3469	2085	0 33
7-13	5573	3616	0 52
7-14	1336	1909	0 49
8-14	1873	1196	0 28
8-15	924	1472	0 73
9-11	2224	1826	0 41
10-11	109	0	0 06

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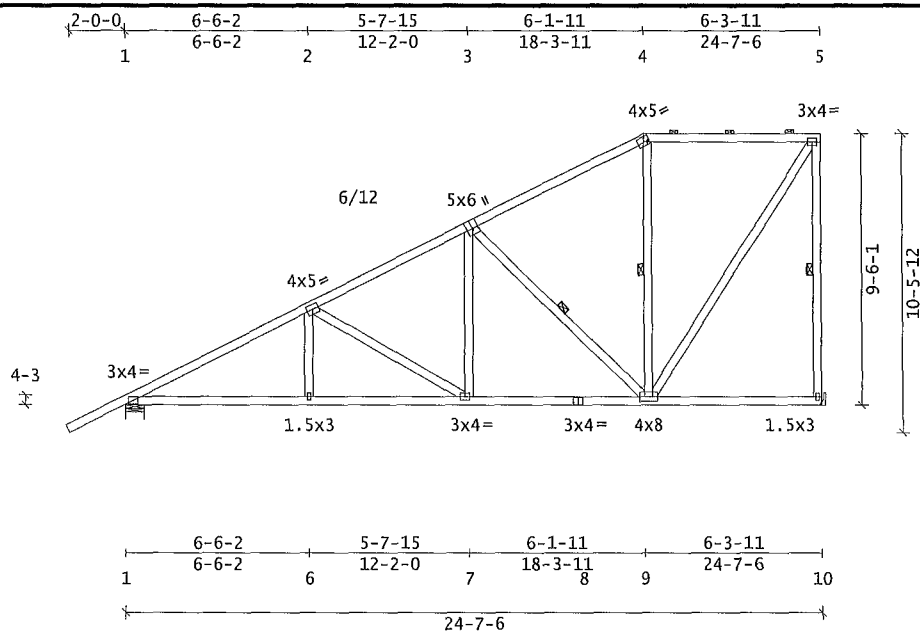
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Truss Mfr Contact: Chris Wallington



Truss Weight = 155.6 lb

Code/Design FBC-2023/TPI-2014
PSF Live Dead Dur Factors
TC 20 0 10 0 Live Wind Snow
BC 0 0 10 0 Lum 1 25 1 60 N/A
Total 40 0 Plt 1 25 1 60 N/A
Spacing 2 00-00 o c Plies 1
Repetitive Member Increase Yes
Green Lumber No Wet Service No
Fab Tolerance 20% Creep (Kcr) = 2.0
OH Soffit Load 2.0 psf

-----Snow Load Specs-----
ASCE7-22 Ground Snow(Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low-Slope Minimums(Pfmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
ASCE7-22 Wind Speed(V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97.2 ft B = 78.3 ft
M R H(h) = 25.0 ft Kzt = 1.0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5.0 BC = 5.0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Prone Region
C&C End Zone 7-10 00

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL Yes
200 psf BC Limited Storage Yes
200 lb BC Accessible Ceiling Yes
300 lb TC Maintenance Load Yes
2000 lb TC Safe Load No
Unbalanced TCCLL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
BC 2x4 SP (ALSC6-2013) #1
Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 1 - 2 0 95
Max CSI in BC PANEL 1 - 6 0 74
Max CSI in Web 10 - 5 1 00

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0.52
1- 2	997	1648	0.95
2- 3	808	1178	0.56
3- 4	566	638	0.51
4- 5	596	492	0.66
5 OH	0	0	0.00
BC 1- 6	1400	1270	0.74
6- 7	1400	1270	0.74
7- 8	983	938	0.45
8- 9	983	938	0.47
9-10	815	237	0.42
10-OH	0	0	0.00
Web 2- 6	255	0	0.04
2- 7	456	476	0.30
3- 7	412	179	0.06
3- 9	582	690	0.21
4- 9	286	169	0.06
5- 9	901	741	0.56
5-10	798	926	1.00

Reaction Summary

-----Reaction Summary(Lbs)-----
Jnt --X--Loc--React--Up-- --Width-- --Reqd-- --Mat-- PSI
1 03-04 1133 374 08-00 01-12 SPF 425
10 24-05-10 978 331 03-00 HGR SPF 565
Max Horiz = -258 / +548 at Joint 1
Max Horiz = -258 / +548 at Joint 10

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [21-05-09] using a 1.00 Full and 0.00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE Alternatively, see D-WEBREINFORCE
Less than 0.25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0.06)	9-10
Vert DL	L/120	L/999(-0.06)	6-7
Vert CR	L/180	L/999(-0.12)	6-7
Horz LL	0.75in	(0.02)	@Jt10
Horz CR	1.25in	(0.03)	@Jt10
Ohng CR	2L/180	2L/805(0.06)	1-1

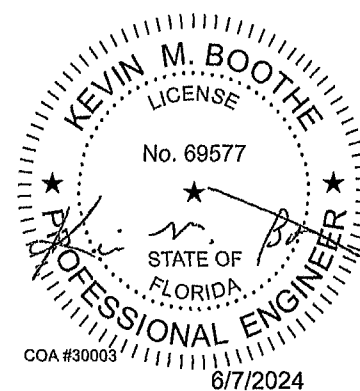
Bracing Data Summary

-----Bracing Data-----
Chords Sheathing required or bracing indicated

-----Purlins-----
--oc-- --From-- --To-- #Bays
TC 4-07-00 -2 01-09 19-03-04 6
TC 2-00-00 19-03-04 23-07-13 2
TC 11-00 23-07-13 24-07-06 2
BC 8-02-00 0 24-07-06 4
-----Web Bracing - CLR-----
Single 3 9 9-4 10-5
Continuous Restraint Bracing Req'd
See BCSI B3 3 0

Plate offsets (X, Y):

(None unless indicated below)
Jnt3(-00-04,00-07), Jnt4(01-12,0)



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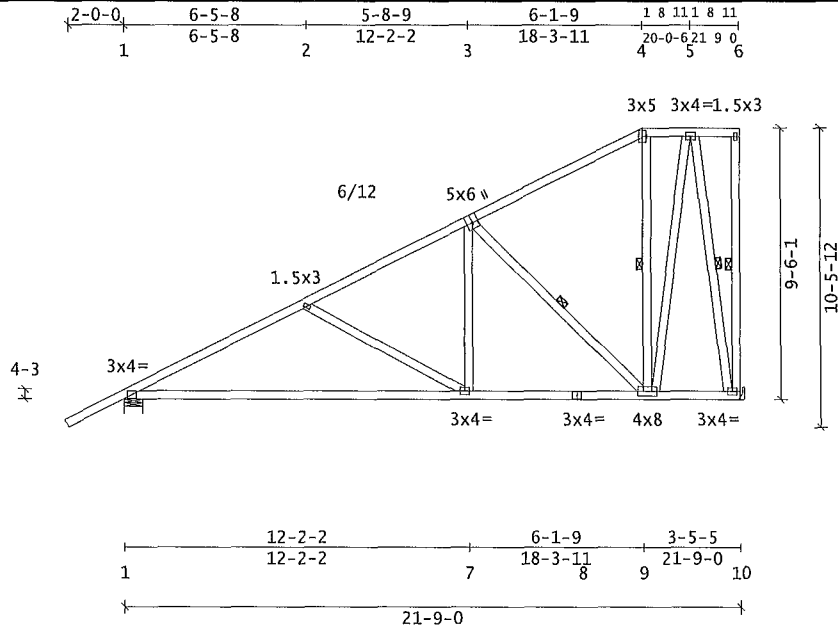
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Date 06/07/24

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Truss Mfr Contact: Chris Wallington



Truss Weight = 153 2 lb

Code/Design FBC-2023/TPI-2014
 PSF Live Dead Dur Factors
 TC 20 0 10 0 Live Wind Snow
 BC 0 0 10 0 Lum 1 25 1 60 N/A
 Total 40 0 Plt 1 25 1 60 N/A
 Spacing 2-00-00 o c Plies 1
 Repetitive Member Increase Yes
 Green Lumber No Wet Service No
 Fab Tolerance 20% Creep (Kcr) = 2 0
 OH Soffit Load 2 0 psf

-----Snow Load Specs-----
 ASCE7-22 Ground Snow (Pg) = N/A
 Risk Cat II Terrain Cat C
 Roof Exposure Sheltered
 Thermal Condition All Others(1 0)
 Unobstructed Slippery Roof No
 Low-Slope Minimums (Pfmin) No
 Unbalanced Snow Loads No
 Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
 ASCE7-22 Wind Speed (V) = 140 mph
 Risk Cat II Exposure Cat C
 Bldg Dims L = 97 2 ft B = 78 3 ft
 M R H(h) = 25 0 ft Kzt = 1 0
 Bldg Enclosure Enclosed
 Wind DL(psf) TC = 5 0 BC = 5 0
 End Vertical Exposed L = Yes R = Yes
 Wind Uplift Reporting ASCE7 MWFRS
 Hurricane Prone Region
 C&C End Zone 7-10-00

-----Additional Design Checks-----
 10 psf Non-Concurrent BCLL Yes
 20 psf BC Limited Storage Yes
 200 lb BC Accessible Ceiling Yes
 300 lb TC Maintenance Load Yes
 2000 lb TC Safe Load No
 Unbalanced TCCLL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
 BC 2x4 SP (ALSC6-2013) #1
 Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 1 - 2 0 97
 Max CSI in BC PANEL 1 - 7 0 86
 Max CSI in Web 10 6 0 95

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0 53
1- 2	877	1351	0 97
2- 3	604	962	0 61
3- 4	384	377	0 50
4- 5	425	254	0 17
5- 6	243	205	0 05
6-OH	0	0	0 00
BC 1- 7	1147	1207	0 86
7- 8	786	831	0 79
8- 9	786	831	0 24
9-10	729	308	0 16
10-OH	0	0	0 00
Web 2- 7	524	405	0 27
3- 7	520	134	0 08
3- 9	623	749	0 23
4- 9	346	187	0 06
5- 9	721	761	0 33
5-10	784	788	0 28
6-10	72	96	0 95

Reaction Summary

-----Reaction Summary (Lbs)-----
 Jnt --X-Loc- React -Up- --Width- --Reqd --Mat PSI
 1 03 04 1019 335 08-00 01-10 SPF 425
 10 21-07-04 861 297 01-08 HGR SPF 565
 Max Horiz = -258 / +548 at Joint 1
 Max Horiz = -258 / +548 at Joint 10

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-06] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0 80 and Rotational Tolerance of 10 0 degrees
 Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
 Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE Alternatively, see D-WEBREINFORCE
 Less than 0 25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan	Limit	Actual (in)	Location
Vert LL	L/240	L/651 (-0 39)	1- 7
Vert DL	L/120	L/674 (-0 38)	1- 7
Vert CR	L/180	L/331 (-0 77)	1- 7
Horz LL	0 75in	(0 02)	@Jt 1
Horz CR	1 25in	(0 03)	@Jt 1
Ohng CR	2L/180	2L/805 (0 06)	1 1

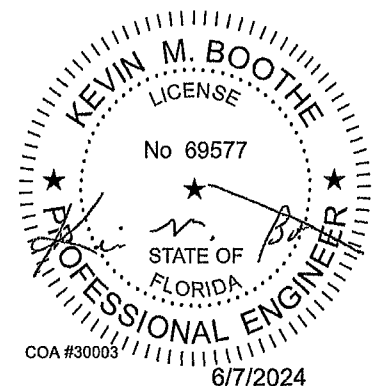
Bracing Data Summary

-----Bracing Data-----
 Chords Sheathing required or bracing indicated

-----Purlins-----
 --oc-- --From-- --To-- #Bays
 TC 5-03-00 -2-01-09 19 03-04 5
 TC 2-00-00 19-03-04 20-09-07 1
 TC 11-00 20-09-07 21-09-00 2
 BC 7 03-00 0 21-09-00 3
 -- Web Bracing -- CLR -----
 Single 3- 9 9- 4 5-10 10- 6
 Continuous Restraint Bracing Req'd
 See BCSI B3 3 0

Plate offsets (X, Y)

(None unless indicated below)
 Jnt3 (-00-04, 00-07), Jnt4 (-01-12, 0)



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Truss Weight = 369.9 lb

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-----Additional Design Checks-----
10 psf Non-Concurrent BCLL           Yes
20 psf BC Limited Storage             Yes
200 lb BC Accessible Ceiling          Yes
300 lb TC Maintenance Load           Yes
2000 lb TC Safe Load                 No
Unbalanced TCLL                       Yes

```

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees. Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints. Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBACE. Alternatively, see D-WEBREINFORCE. Less than 0.25/12 pitch requires adequate drainage to prevent ponding.

EngDwg 202 x5R-7 Eng

KEVIN M. BOOthe

LICENSE

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STATE OF FLORIDA

PROFESSIONAL ENGINEER

6/7/2024

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Truss Weight = 272.2 lb

-----Additional Design Checks-----	
10 psf Non-Concurrent BCLL	Yes
20 psf BC Limited Storage	Yes
200 lb BC Accessible Ceiling	Yes
300 lb TC Maintenance Load	Yes
2000 lb TC Safe Load	No
Unbalanced TCLL	Yes

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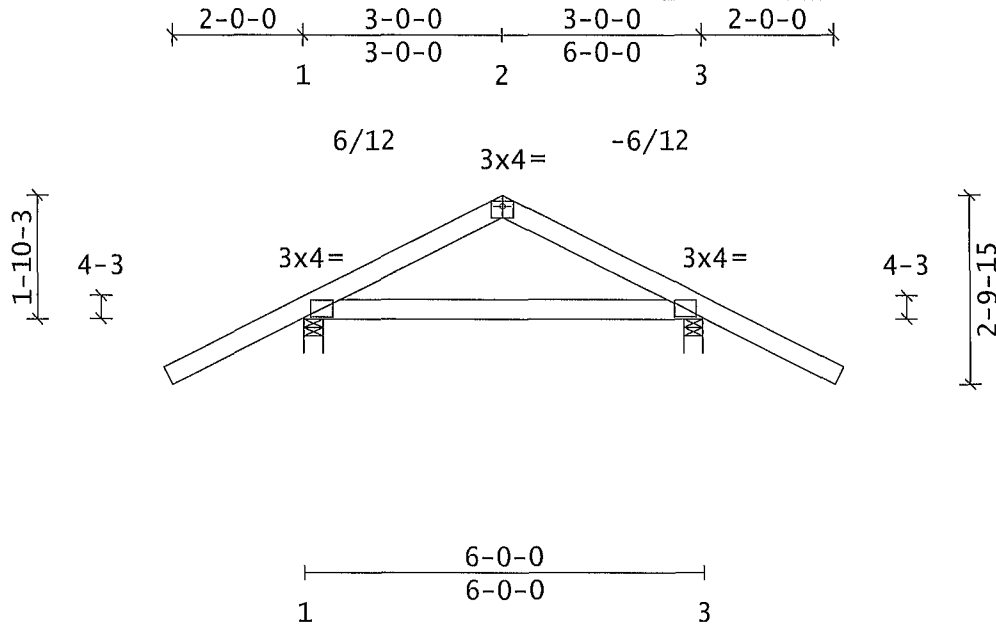
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Truss Mfr Contact, Chris Wallington



Truss Weight = 25.8 lb

Code/Design FBC-2023/TPI-2014

PSF	Live	Dead	Dur	Factors
TC	20	0	10	0
BC	0	0	10	0
Total	40	0	10	0
Spacing	2	00	00	o c
Repetitive	Member	Increase	Yes	
Green	Lumber	No	Wet	Service
Fab	Tolerance	20%	Creep	(Kcr) = 2.0
OH	Soffit	Load	2	0

ASCE7-22	Ground	Snow	(Pg) = N/A
Risk	Cat	II	Terrain
Roof	Exposure	Sheltered	
Thermal	Condition	All	Others(1 0)
Unobstructed	Slippery	Roof	No
Low-Slope	Minimums	(Pmin)	No
Unbalanced	Snow	Loads	No
Rain	Surcharge	No	Ice

ASCE7-22	Wind	Speed	(V) = 140
Risk	Cat	II	Exposure
Bldg	Dims	L = 97	2 ft
M R	H(h)	= 25	0 ft
Bldg	Enclosure	Enclosed	
Wind	DL	(psf)	TC = 5
End	Vertical	Exposed	L = Yes
Wind	Uplift	Reporting	ASCE7
Hurricane	Prone	Region	
C&C	End	Zone	7-10-00

10	psf	Non-Concurrent	BCLL	Yes
20	psf	BC	Limited	Storage
200	lb	BC	Accessible	Ceiling
300	lb	TC	Maintenance	Load
2000	lb	TC	Safe	Load
Unbalanced	TCLL			Yes

Material Summary

TC	2x4	SP	(ALSC6-2013)	#1
BC	2x4	SP	(ALSC6-2013)	#1

Member Forces Summary

Max	CSI	in	TC	PANEL	1	-	1	0	53
Max	CSI	in	BC	PANEL	1	-	3	0	24

Mem	Ten	Comp	CSI
TC	OH- 1	117	0
	1- 2	173	286
	2- 3	173	286
	3-OH	117	0
BC	1- 3	235	23

Reaction Summary

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
1	01-12	454	147	03-08	01-08	SPF	531
3	5-10-04	454	147	03-08	01-08	SPF	531
Max	Horiz	=	-48	/	+48	at	Joint

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [3-00-00] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees. Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints. Lumber and plating have been applied symmetrically.

Deflection Summary

Truss	Span	Limit	Actual	(in)	Location
Vert	LL	L/240	L/999	(-0.02)	1- 3
Vert	DL	L/120	L/999	(-0.01)	1- 3
Vert	CR	L/180	L/999	(-0.04)	1- 3
Horz	LL	0.75in	(0.01)	@Jt 1	
Horz	CR	1.25in	(0.01)	@Jt 1	
Ohng	CR	2L/180	2L/692	(0.07)	1- 1
Ohng	CR	2L/180	2L/692	(0.07)	3- 3

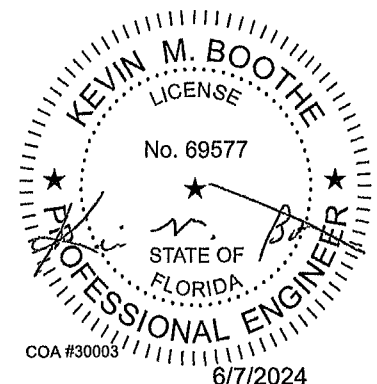
Bracing Data Summary

Chords Sheathing required or bracing indicated

TC	5	08-00	-2	01-09	8	01-09	3
BC	6	00-00	0	6	00-00	1	
Web	Bracing	--	None				

Plate offsets (X, Y):

(None unless indicated below)
Jnt2 (0, -00-09)



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This detail provides minimum connection requirements between a cap truss and a base truss of a piggyback assembly for assemblies that meet the following conditions and design requirements

- the cap truss has continuous bearing or bearings at 2' o c max ,
- the cap truss contains vertical web members at 4' o c max,
- the cap trusses are spaced no greater than 24" o c ,
- the pitch does not exceed 12/12,
- the cap truss span does not exceed 100', for spans > 36', see Table 2 Footnote 5
- the cap truss supports no point loads or drag loads (see detail TD-CPS-0002 for drag load connection requirements)

Design Requirements:

Max Wind Speed 140 mph (nominal) Load Duration Factor: 1.6
Max Mean Roof Height: 30' Lumber: SPF or Better
Exp Category B or C (Min SG = 0.42)

TABLE 1 - Connection Requirements At Each End of Cap Truss (One Face Only)

Cap Truss Span	Max. Wind Speed (mph)		End Connection Options	Fasteners ¹
	Nominal	Ultimate		
Up to 18'	100	125	Sheathing - See Note 2	---
	140	180	4' 2x Scab LSTA18 or CS20 Strap	16-10d nails 14-10dx1 5 nails
18' < Span ≤ 100'	120	150	4' 2x Scab	16-10d nails
	130	160	LSTA18 or CS20 Strap	14-10dx1 5 nails
	140	180	6' 2x Scab LSTA30 or CS18 Strap	24-10d nails 10-SDS 1/4x3 20-10dx1 5

See footnotes below

TABLE 2 - Connection Requirements Along Cap Truss Bottom Chord

Condition	Max. Wind Speed (mph)		Connection Options Along BC	Fasteners
	Nominal	Ultimate		
With 1 5" Gap (See Fig 1)	140	180	Nails into purlins installed on base truss at 24" o c (max)	Purlin-to-Base 2-10d nails (ea purlin) Cap-to-purlin 2-10d toe-nails (ea purlin)
			(3) 7"x7"x7/16" Plywood/OSB Gussets (each face)	6-6d nails per Gusset (see note 1 & 5)
			(3) LTP5 Framing Angles (one face)	8-8dx1 5 nails per LTP5 (see note 1 & 5)
No Gap (See Fig 2)	140	180	(2) LTP4 Framing Angles (one face)	12-8dx1 5 nails per LTP4 (see note 1 & 5)
			Toe-Nails @ 24" o c.	2-10d toe-nails along BC @ 24" o c.
			(3) 7"x7"x7/16" Plywood/OSB Gussets (each face)	6-6d nails per Gusset (see note 1 & 5)
			(3) LTP4 Framing Angles (one face)	12-8dx1 5 nails per LTP4 (see note 1 & 5)

- 1 Where noted install half of the specified fasteners in each member being connected
- 2 An additional end connection is not required for wind speeds up to 100 mph (nominal) and cap truss spans up to 18' if the sheathing is continuous and extends at least 12" beyond the intersection
- 3 When using (2) connectors along the cap truss BC, install one at each end of the bottom chord, when using (3) connectors, install one on each end and one in the center of the bottom chord
- 4 NAILS 10d=0 148 dia x3" long, 10dx1 5=0 148 dia x1 1/2" long, 8dx1 5=0 131 dia x1 1/2" long, 6d=0 113" dia x2" long
- 5 For piggyback truss spans greater than 36' and less than or equal to 100' where there is a 1 5" gap between BC of cap truss and TC of base truss, attach BC of cap truss to the TC of base truss with 7"x7"x7/16" Plywood/OSB Gussets (each face) with 6-6d nails per gusset or LTP5 Framing Angles (one face) with 8-8dx1 5" nails per LTP5 under each vertical web at 4" on center Where there is no gap between BC of cap truss and TC of base truss, attach BC of cap truss to the TC of base truss with 7"x7"x7/16" Plywood/OSB Gussets (each face) with 6-6d nails per gusset or LTP4 Framing Angles (one face) with 12-8dx1 5" nails per LTP4 under each vertical web at 4" on center Note spacing for vertical webs must not exceed 4' on center

Bracing for the Base Truss Flat Top Chord in a Piggyback Assembly

The flat top chords of the supporting base trusses must be adequately braced to prevent them from buckling out from under the cap trusses. One option for accomplishing this is with flat 2x4 purlins in combination with diagonal bracing that gets repeated at max 10' intervals. Other methods may be required as specified in the Construction Documents. See BCSI-B3 for additional information.

Base Trusses

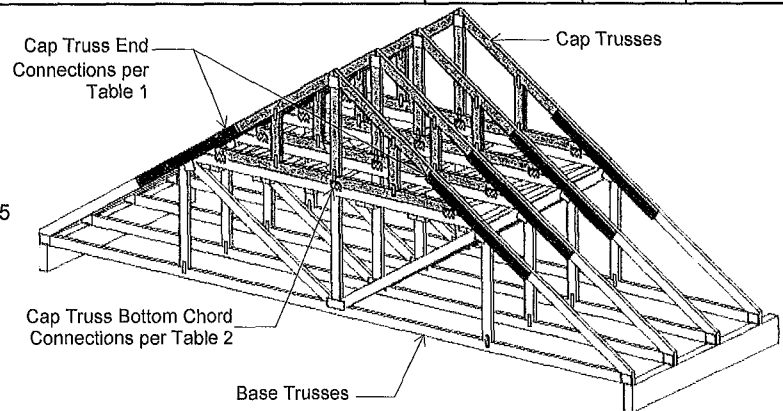
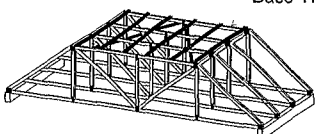


Figure 1 - Typical Piggyback Assembly with 1 1/2" Gap Between Cap and Base

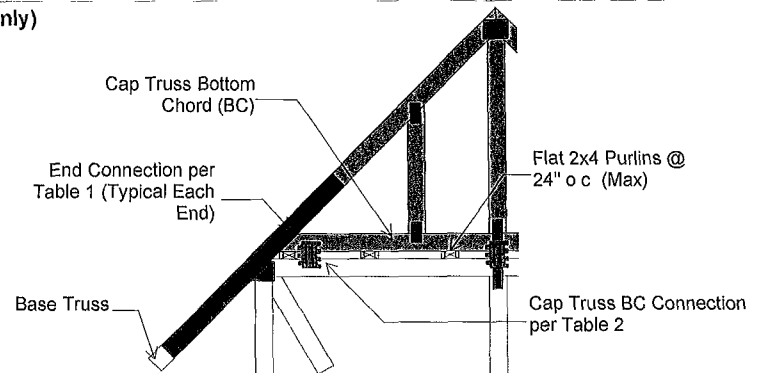
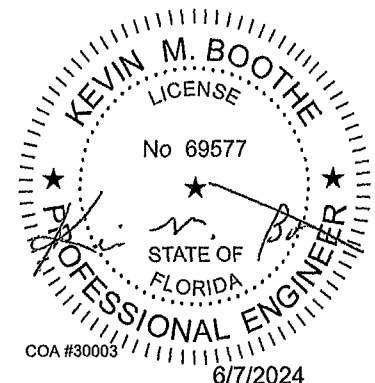
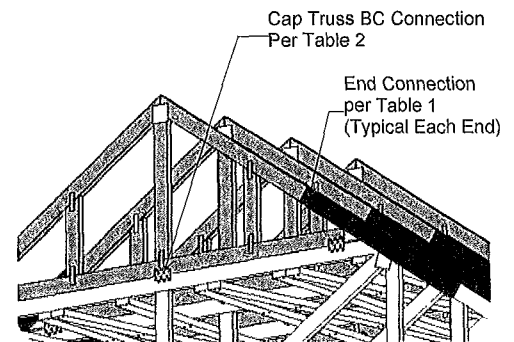


Figure 2 - Typical Piggyback Assembly with No Gap Between Cap and Base



This detail provides minimum connection requirements between a cap truss and a base truss of a piggyback assembly to resist drag loads. This detail applies to assemblies that meet the following conditions and design requirements:

- the cap truss has continuous bearing or bearings at 2' o c max ,
- the cap truss contains vertical web members at 4' o c max,
- the cap trusses are spaced no greater than 24" o c ,
- the pitch does not exceed 12/12,
- the cap truss span does not exceed 36',
- the cap truss is not a mono truss ,

Design Requirements:

Load Duration Factor 1.6

Lumber: SPF or Better (Min SG = 0.42)

See also TD-CPS-0001D for connection requirements for wind loads. The piggyback connections must satisfy both the drag load and wind load requirements.

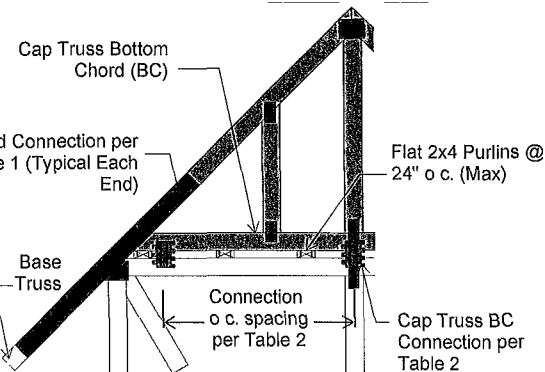
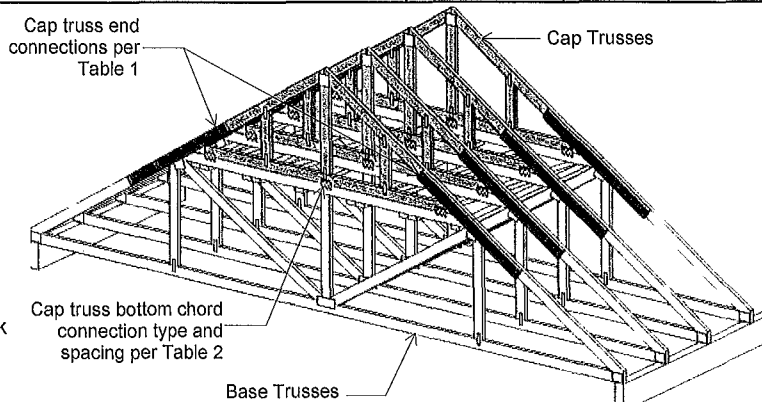


Figure 1 - Typical Piggyback Assembly with 1 1/2" Gap Between Cap and Base

Table 1 - Maximum Cap Truss Span Based on Cap Truss End Connections

Max. Drag Load (plf)	End Connection Type									
	LSTA18 or CS20 with 14-10dx1.5		4' 2x Scab with 16-10d		6' 2x Scab with 10-SDS1/4x3		LSTA30 or CS18 with 20-10dx1.5		6' 2x Scab with 24-10d	
	One Face	Both Faces	One Face	Both Faces	One Face	Both Faces	One Face	Both Faces	One Face	Both Faces
100	18'	36'	24'	36'	24'	36'	24'	36'	36'	36'
200	9'	18'	12'	24'	12'	24'	12'	24'	18'	36'
400	--	9'	--	12'	--	12'	--	12'	9'	18'
600	--	--	--	--	--	9'	--	9'	--	12'
700	--	--	--	--	--	--	--	--	--	9'

1. Install half of the specified fasteners in each member being connected

2. NAILS 10d = 0.148 dia x 3 long 10d x 1.5 = 0.148 dia x 1 1/2 long

Table 2 - Maximum On-Center Spacing of Connections Along Cap Truss BC

Max. Drag Load (plf)	Connection Type					
	1.5" Gap Between Cap & Base Truss (See Figure 1)			No Gap Between Cap Base Truss (See Figure 2)		
	2-10d Toe-nails into Purlins on Base Truss ¹	7"x7"x7/16" Plywood/OSB with 6-6d (ea face) ^{2,3}	LTP5 with 8-8dx1.5 (ea face) ^{2,3}	2-10d Toe-nails	7"x7"x7/16" Plywood/OSB with 6-6d (ea face) ^{2,3}	LTP4 with 12-8dx1.5 (ea face) ^{2,3}
100	2' o c	3'-6" o c	6' o c	2' o c	3'-6" o c	9' o c
200	--	2' o c	3' o c	--	2' o c	5' o c
400	--	1' o c	1'-6" o c	--	1' o c	2'-6" o c
600	--	--	1' o c	--	--	1'-6" o c
700	--	--	1' o c	--	--	1'-6" o c

1. Purlins must be fastened to the base truss (at 24" o c max) with min 2-10d nails (each purlin)

2. Install half of the specified fasteners in each member being connected

3. Connections shall be staggered on the opposite face

4. NAILS 10d = 0.148 dia x 3 long 8dx1.5 = 0.131 dia x 1 1/2 long 6d = 0.113 dia x 2 long

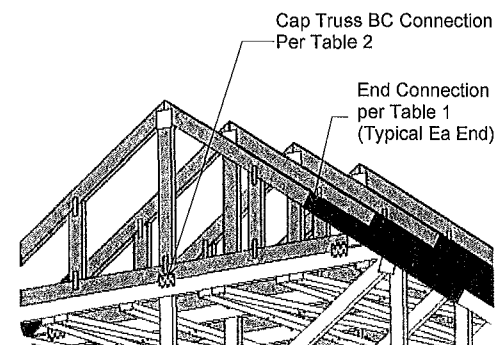
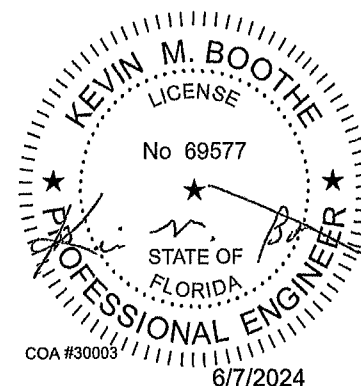
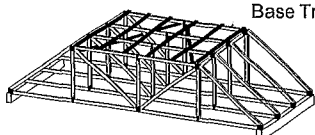


Figure 2 - Typical Piggyback Assembly with No Gap Between Cap and Base

Bracing for the Base Truss Flat Top Chord in a Piggyback Assembly

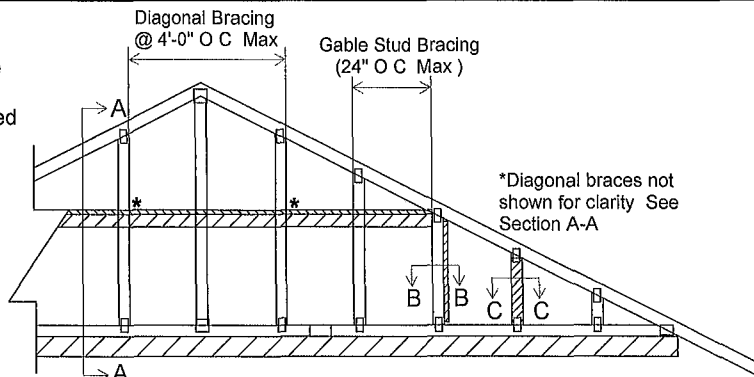
The flat top chords of the supporting base trusses must be adequately braced to prevent them from buckling out from under the cap trusses. One option for accomplishing this is with flat 2x4 purlins in combination with diagonal bracing that gets repeated at max 10' intervals. Other methods may be required as specified in the Construction Documents. See BCSI-B3 for additional information.

Base Trusses



NOTES:

- 1 This detail provides bracing/reinforcement options for the gable studs to resist the out-of-plane wind loading. Refer to the individual truss design drawing for bracing/reinforcement requirements for resisting the vertical (in-plane) loads assumed in the design of the gable end frame. Additional bracing/reinforcement at the end of the building and/or at the gable end wall may be required. Refer to the Building Designer/Construction Documents for all gable end frame and roof system bracing requirements. For additional information, see BCSI-B3.
- 2 This detail does not apply to structural gables.
- 3 Connection requirements between the gable end frame and the wall to be specified by the Building Designer.
- 4 The gable end frame must match the profile of the adjacent trusses. Do not use a gable end frame with a flat bottom chord next to trusses with sloped bottom chords, such as scissor or vaulted trusses.



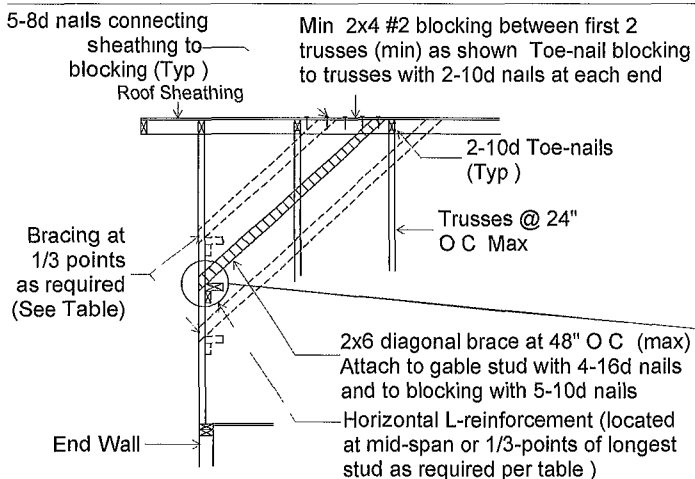
GABLE END WITH STUD BRACING/REINFORCEMENT

MINIMUM GABLE STUD SIZE, SPECIES & GRADE	MAX. GABLE STUD SPACING	WITHOUT BRACE	L-REINFORCEMENT ¹	SCAB REINFORCEMENT ¹	DIAGONAL BRACING @ MID-SPAN ²	DIAGONAL BRACING @ 1/3 POINTS ²
		MAXIMUM STUD LENGTH ³				
2X4 SPF STUD or STANDARD	12" O.C.	4-6-0	7-11-4	9-0-4	9-0-4	13-6-8
	16" O.C.	4-1-0	7-0-4	8-2-4	8-2-4	12-3-8
	24" O.C.	3-5-8	5-8-12	6-11-0	6-11-0	10-4-8

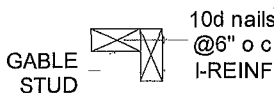
DETAIL LIMITATIONS:

Max Mean Roof Height 30'
Category II
Exposure B or C
Load Duration Factor 1.6
Wind Speed 110 mph Nominal
(140 mph Ultimate)

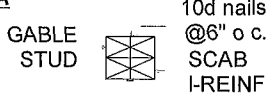
- 1 L- and Scab Reinforcements shall be minimum 2x4 stud grade and must be a minimum of 90% of the gable stud length. Fasten the reinforcement member to the gable stud with 10d nails @ 6" o.c.
- 2 Attach horizontal reinforcing member at mid-span (or 1/3 points as required) of the longest stud and install diagonal bracing @ 4' o.c. (max) as shown in Section A-A.
- 3 Tabulated maximum stud lengths are based on components and cladding wind pressures using the wind design parameters listed in the detail limitations. Gable stud deflection criteria is L/240.



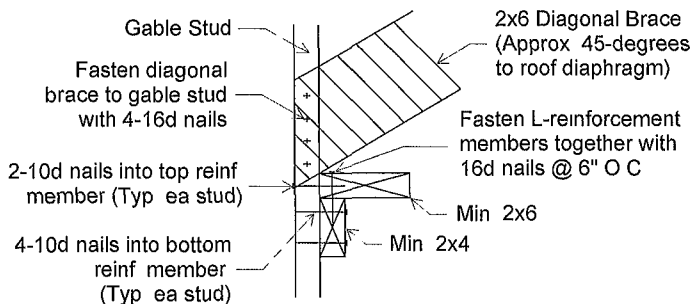
Section A-A



Section B-B



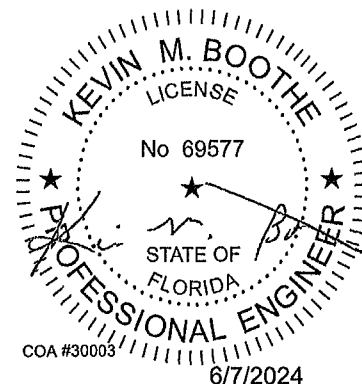
Section C-C




NOTE: Diagonal braces over 6'-3" require a 2x4 T-brace attached to one narrow edge. Diagonal braces over 12'-6" require 2x4s attached on both narrow edges. The braces must cover 90% of the diagonal brace and shall be fastened to the narrow edge with 10d nails at 6" o.c. (min 3" end distance). When attached on both narrow edges, stagger the nails on each side by 3".

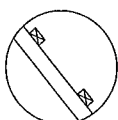
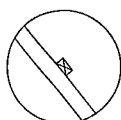
Nail Dimension

16d = 3 5/8" x 0 162"
10d = 3" x 0 148"
8d = 2 5/8" x 0 131"



NOTES:

- 1 This detail provides web reinforcement options that may be used as an alternative to continuous lateral restraint (CLR) when installing CLRs in combination with diagonal bracing is not practical or desired
- 2 Refer to the truss design drawing for web lateral restraint requirements A  on the truss design drawing indicates that continuous lateral restraint is required at the locations shown (either at the midpoint or 1/3-points of the web member) Refer to the tables below for acceptable web reinforcement options that may be used in place of one or two rows of CLR
- 3 T-, L-, I- and scab web reinforcements must be the same or better species and grade of the web member as indicated on the truss design drawing
- 4 All reinforcements must extend to within 6" of each end of the web member
- 5 This detail does not apply to single-ply webs that exceed 14' in length



1 Row of CLR @ Web Mid-point 2 Rows of CLRs @ Web 1/3 points

WEB REINFORCEMENT OPTIONS FOR SINGLE-PLY TRUSSES ¹						
Specified Web Member Lateral Restraint (CLRs)	Web Member Size	Acceptable Web Reinforcement Substitutions - Type & Size				Reinforcement-to-Web Connection Requirements
		T-	L-	Scab	I-	
1 Row @ Mid-point	2x4	2x4	2x4	2x4	---	16d gun nails @ 6" on-center
	2x6	2x6	2x6	2x6	---	
	2x8	2x8	2x8	2x8	---	
2 Row @ 1/3-points	2x4	No substitutions allowed			2-2x4	
	2x6				2-2x6	
	2x8				2-2x8	

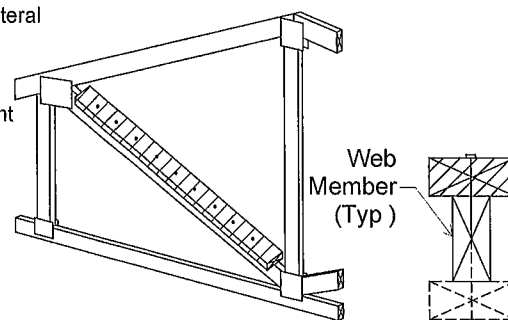
WEB REINFORCEMENT OPTIONS FOR 2-PLY TRUSSES ²						
Specified Web Member Lateral Restraint (CLRs)	Web Member Size	Acceptable Web Reinforcement Substitutions - Type & Size				Reinforcement-to-Web Connection Requirements
		T-	L-	Scab	I-	
1 Row @ Mid-point	2x4	2x4	2x4	---	---	16d gun nails @ 6" on-center
	2x6	2x6	2x6	---	---	
	2x8	2x8	2x8	---	---	
2 Row @ 1/3-points	2x4	No substitutions allowed			2-2x4	
	2x6				2-2x6	
	2x8				2-2x8	

- 1 The maximum allowable web length for single-ply trusses is 14'
- 2 For 2-ply trusses, the reinforcement must be nailed to both plies of the web with the nailing pattern specified in the table
- 3 For the scab reinforcement, 2 rows of 10d gun nails @ 6" o c may be used in place of 16d gun nails for attaching the reinforcement to the web
- 4 For I-reinforcement, attach each 2x_member to opposite edges of the web using the nailing pattern specified in the table

Nail Dimension

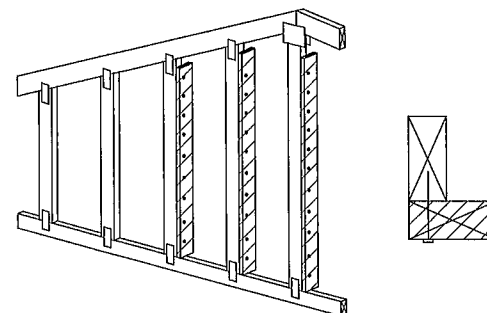
16d = 3 5" x 0 131"

10d = 3" x 0 120"

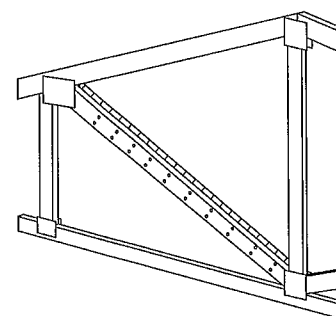


Add member to both edges for I-Reinforcement

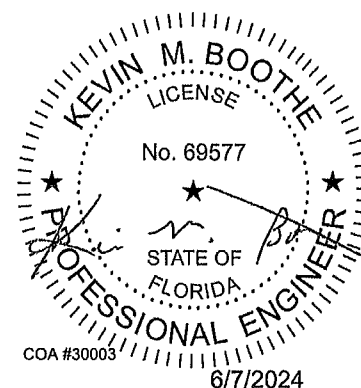
T- Reinforcement
(I-Reinforcement similar)



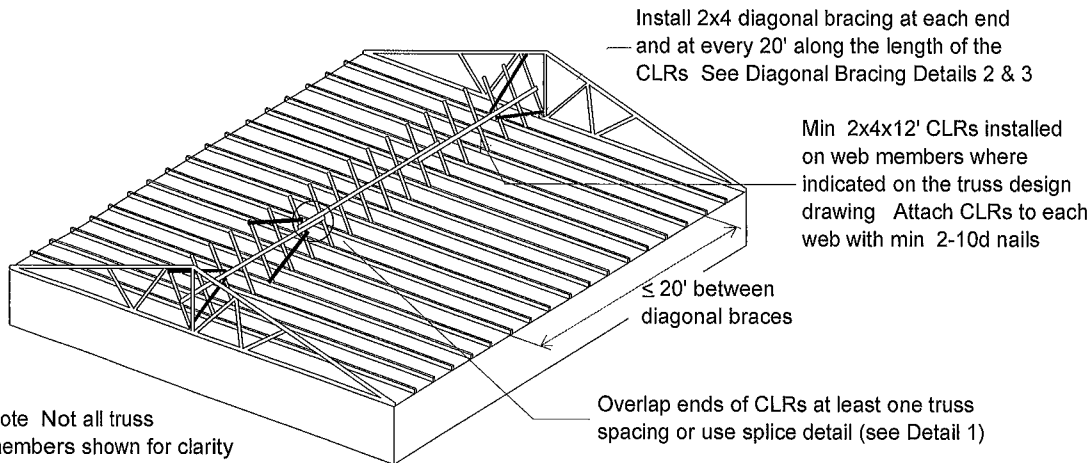
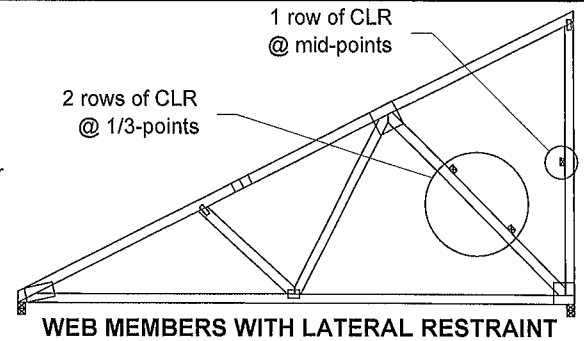
L- Reinforcement



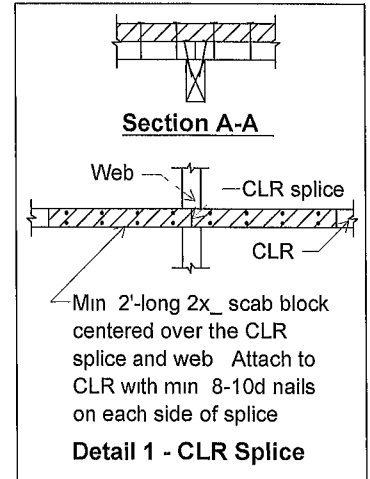
Scab Reinforcement



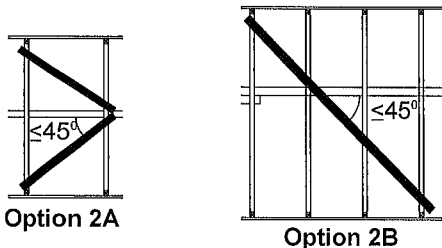
This detail provides information for laterally restraining and bracing web members to prevent lateral buckling using continuous lateral restraints (CLRs) in combination with diagonal bracing. In addition to the CLRs indicated on the truss design drawing, diagonal bracing must be installed as indicated in this detail and BCSI-B3. See WEBREINFORCE for web reinforcement options that may be used as an alternative to this detail when installing CLRs and diagonal bracing is not practical or desired. Properly attached full-length sheathing satisfies (may replace) any bracing requirements specified for end vertical webs. Refer to the Construction Documents for additional bracing requirements. For trusses with spacing greater than 2' o.c., refer to BCSI-B10.



Note: Not all truss members shown for clarity.

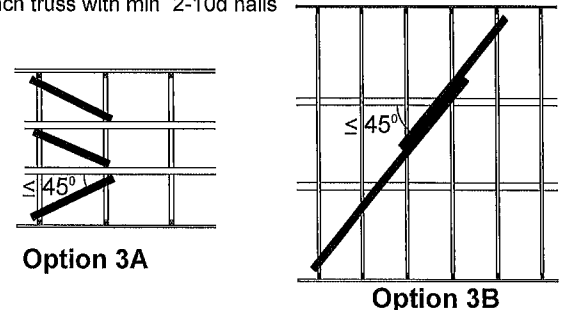


For webs with one row of CLRs, diagonal bracing shall be installed using Option 2A or 2B. Attach diagonal braces to each truss with min 2-10d nails.



Detail 2 - Diagonal Bracing for 1 Row of CLRs

For webs with 2 rows of CLRs, diagonal bracing shall be installed using Option 3A or 3B. Attach diagonal braces to each truss with min 2-10d nails.



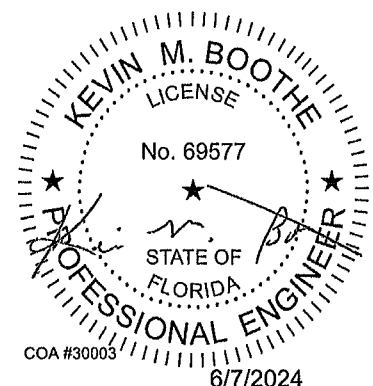
Detail 3 - Diagonal Bracing for 2 Rows of CLRs

DETAIL LIMITATIONS:

1. Restraint and Bracing Material min 2x4 stress graded lumber
2. This detail does not address permanent building stability bracing to resist lateral forces acting on the building
3. This detail shall not supersede any project-specific truss member permanent bracing design for the roof framing structural system
4. This detail is not applicable for trusses with spacing greater than 2' o.c.

Nail Dimensions:

10d = 3" x 0.128"



SIMPSON**Strong-Tie**

#72996

Job Cover Sheet

Job Type:	Project
Seal:	Florida
Priority:	SameDayRush

Job #:	235539
Job Name:	P-23-228 - 421 SE Alfred Markham Rd HOUSE
Customer:	Century Truss Systems
Received:	6/7/2024 6 22 AM
Requested:	6/10/2024 10 00 AM

County copy 2

Contact/Shipping Information




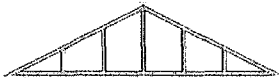


Sent By:	Chris Wallington
Sender Email:	centurytrussengineering@gmail.com
Eng Email:	centurytrussengineering@gmail.com
Ship Type:	Email

Design Information

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Design App:	Truss Studio	Version:	2023.9.2.1
Original Studio Version:	2023.9.2.1		
Catalog:	235539_Catalog		
Assoc. Jobs:			

Customer Note:

Engineering Note:

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Engineering Note								
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Customer Note								
Engineering Note								
3	GE3	6-0-0	6.00 0.00	2-0-0 2-0-0	Truss Studio 2023.9.2.1		2947339	
Customer Note								
Engineering Note								
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Engineering Note								
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Customer Note								
Engineering Note								
Changed bearing geometry from flat to sloped								
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Customer Note								
Engineering Note								

SIMPSON**Strong-Tie****Job Cover Sheet**

Job Type: Project
Seal: Florida
Priority: SameDayRush

Job #: 235539
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Customer: Century Truss Systems
Received: 6/7/2024 6:22 AM
Requested: 6/10/2024 10 00 AM




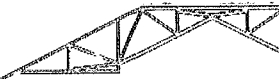

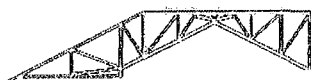
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Sent By: Chris Wallington
Sender Email: centurytrussengineering@gmail.com
Eng Email: centurytrussengineering@gmail.com
Ship Type: Email

Design Information

of Trusses: 14 **# of Wet:** 0
Design App: Truss Studio **Version:** 2023 9 2 1
Original Studio Version: 2023 9 2 1
Catalog: 235539_Catalog
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Engineering Note								
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Customer Note								
Engineering Note								
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Engineering Note								
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Engineering Note								
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Customer Note								
Engineering Note								

SIMPSON**Strong-Tie****Job Cover Sheet**

Job Type:	Project
Seal:	Florida
Priority:	SameDayRush

Job #:	235539
Job Name:	P-23-228 - 421 SE Alfred Markham Rd HOUSE
Customer:	Century Truss Systems
Received:	6/7/2024 6 22 AM
Requested:	6/10/2024 10 00 AM


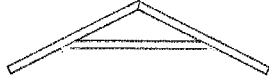
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Sent By:	Chris Wallington
Sender Email:	centurytrussengineering@gmail.com
Eng Email:	centurytrussengineering@gmail.com
Ship Type:	Email

Design Information

# of Trusses:	14	# of Wet:	0
Design App:	Truss Studio	Version:	2023 9.2 1
Original Studio Version:	2023 9 2 1		
Catalog:	235539_Catalog		
Assoc. Jobs:			

Customer Note:**Engineering Note:**

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Customer Note								
Engineering Note								

SIMPSON**Job Cover Sheet****Strong-Tie**

Job Type: Project
 Seal: Florida
 Priority: SameDayRush

Job #: 235539
 Job Name: P-23-228 - 421 SE Alfred Markham Rd HOUSE
 Customer: Century Truss Systems
 Received: 6/7/2024 6 22 AM
 Requested: 6/10/2024 10:00 AM

Contact/Shipping Information

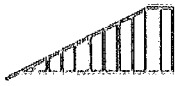

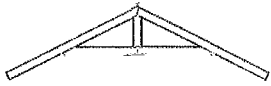
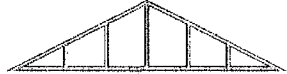
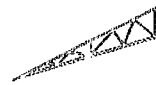

Sent By: Chris Wallington
 Sender Email: centurytrussengineering@gmail.com
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 Ship Type: Email

Design Information

of Trusses: 14 # of Wet: 0
 Design App: Truss Studio Version: 2023.9.2.1
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Engineering Note:

#	Truss	Span	Pitch	L/R OH	App/ Version	Modified	Sequence #	
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Customer Note								
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Customer Note								
Engineering Note								
3	GE3	6-0-0	6.00 0.00	2-0-0 2-0-0	Truss Studio 2023.9.2.1		2947339	
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Engineering Note								
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Customer Note								
Engineering Note								
5	T01	32-1-4	6.00 3.50	2-0-0 0-0-0	Truss Studio 2023.9.2.1	X	2947341	
Customer Note								
Engineering Note								
Changed bearing geometry from flat to sloped								
6	T02	26-11-4	6.00 0.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947342	
Customer Note								
Engineering Note								

SIMPSON**Strong-Tie****Job Cover Sheet**

Job Type:	Project
Seal:	Florida
Priority:	SameDayRush

Job #:	235539
Job Name:	P-23-228 - 421 SE Alfred Markham Rd HOUSE
Customer:	Century Truss Systems
Received:	6/7/2024 6 22 AM
Requested:	6/10/2024 10.00 AM




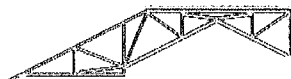


Contact/Shipping Information

Sent By:	Chris Wallington
Sender Email:	centurytrussengineering@gmail.com
Eng Email:	centurytrussengineering@gmail.com
Ship Type:	Email

Design Information

# of Trusses:	14	# of Wet:	0
Design App:	Truss Studio	Version:	2023 9 2 1
Original Studio Version:		2023 9 2 1	
Catalog:	235539_Catalog		
Assoc. Jobs:			

Customer Note:**Engineering Note:**

#	Truss	Span	Pitch	L/R OH	App/ Version	Modified	Sequence #	
7	T02-A	37-1-8	6.00 6.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947343	
Customer Note								
Engineering Note								
8	T02-B	37-1-8	6.00 6.00	0-0-0 0-0-0	Truss Studio 2023.9.2.1		2947344	
Customer Note								
Engineering Note								
9	T03	24-7-6	6.00 0.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947345	
Customer Note								
Engineering Note								
10	T03-A	38-11- 12	6.00 6.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947346	
Customer Note								
Engineering Note								
11	T04	21-9-0	6.00 0.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947347	
Customer Note								
Engineering Note								
12	T04-A	42-4-0	6.00 6.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947348	
Customer Note								
Engineering Note								



Job Cover Sheet

Job Type: Project
Seal: Florida
Priority: SameDayRush

Job #: 235539
Job Name: P-23-228 - 421 SE Alfred Markham Rd HOUSE
Customer: Century Truss Systems
Received: 6/7/2024 6 22 AM
Requested: 6/10/2024 10 00 AM


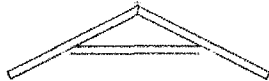
Contact/Shipping Information

Sent By: Chris Wallington
Sender Email: centurytrussengineering@gmail.com
Eng Email: centurytrussengineering@gmail.com
Ship Type: Email

Design Information

of Trusses: 14 # of Wet: 0
Design App: Truss Studio Version: 2023 9 2 1
Original Studio Version: 2023 9 2 1
Catalog: 235539_Catalog
Assoc. Jobs:

Customer Note:
Engineering Note:

#	Truss	Span	Pitch	L/R OH	App/ Version	Modified	Sequence #	
13	T04-B	42-4-0	6.00 6.00	2-0-0 0-0-0	Truss Studio 2023.9.2.1		2947349	
Customer Note								
Engineering Note								
14	T05	6-0-0	6.00 0.00	2-0-0 2-0-0	Truss Studio 2023.9.2.1		2947350	
Customer Note								
Engineering Note								



COMPONENT DESIGN DRAWINGS & DETAILS

Simpson Strong-Tie
Company, Inc.

5956 W Las Positas Blvd
Pleasanton, CA 94588
(800) 999-5099
www.strongtie.com

Prepared for: Century Truss Systems
Job: P-23-228 - 421 SE Alfred Markham Rd HOUSE
Date: 6/7/2024 6 22 AM
Ref. Number: 235539

Kevin M. Boothe State of Florida, Professional
Engineer, License No 69577

This item has been digitally signed and sealed
by Kevin M. Boothe on the date indicated here.

2024 06 07 14:09 53-05'00'

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

Notes

- 1 The component design drawings referenced below have been prepared based on design criteria and requirements set forth in the Construction Documents, as communicated by the Component Manufacturer
- 2 The engineer's signature on these drawings indicates professional engineering responsibility solely for the individual components to be able to resist the design loads indicated, utilizing all the design parameter and materials indicated or referenced on each individual design
3. It is the Building Designer's responsibility to review the component design drawings to insure compatibility with the Building design, Refer to all notes on the individual component design drawings

14 Component Design Drawing(s)

1-GE1 SID 2947337	5-T01: SID 2947341	9-T03 SID 2947345	13-T04-B SID 2947349
2-GE2 SID 2947338	6-T02 SID 2947342	10-T03-A. SID 2947346	14-T05 SID 2947350
3-GE3 SID 2947339	7-T02-A SID 2947343	11-T04 SID 2947347	
4-PB01 SID 2947340	8-T02-B SID 2947344	12-T04-A. SID 2947348	

General Notes

1. Each Truss Design Drawing (TDD) provided with this sheet has been prepared in conformance with ANSI/TPI 1. Refer to ANSI/TPI 1 Chapter 2 for the responsibilities of all parties involved, which include but are not limited to the responsibilities listed on this sheet, and for the definitions of all capitalized terms referenced in this document.
2. TDDs should not be assumed to be to scale.
3. The Contractor and Building Designer shall review and approve the Truss Submittal Package.
4. The suitability and use of the component depicted on the TDD for any particular building design is the responsibility of the Building Designer.
5. The Building Designer is responsible for the anchorage of the truss at all bearing locations as required to resist uplift, gravity and lateral loads, and for all Truss-to-Structural Element connections except Truss-to-Truss connections.
6. The Building Designer shall ensure that the supporting structure can accommodate the vertical and/or horizontal truss deflections.
7. Unless specifically stated otherwise, each Design assumes trusses will be adequately protected from the environment and will not be used in corrosive environments unless protected using an approved method. This includes not being used in locations where the sustained temperature is greater than 150°F.
8. Trusses are designed to carry loads within their plane. Any out-of-plane loads must be resisted by the Permanent Building Stability Bracing.
9. Design dead loads must account for all materials, including self-weight. The TDD notes will indicate the min. pitch above which the dead loads are automatically increased for pitch effects.
10. Trusses installed with roof slopes less than 0 25/12 may experience (but are not designed for) ponding. The Building Designer must ensure that adequate drainage is provided to prevent ponding.
11. Camber is a non-structural consideration and is the responsibility of truss fabricator.

Handling, Installing, Restraint & Bracing



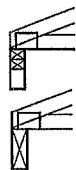
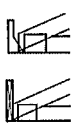
1. The Contractor is responsible for the proper handling, erection, restraint and bracing of the Trusses. In lieu of job-specific details, refer to BCSI.
2. ANSI/TPI 1 stipulates that for trusses spanning 60' or greater, the Owner shall contract with any Registered Design Professional for the design and inspection of the temporary and permanent truss restraint and bracing. Simpson Strong-Tie is not responsible for providing these services.
3. Trusses require permanent lateral restraint to be applied to chords and certain web members (when indicated) at the locations or intervals indicated on the TDD. Web restraints are to be located at mid points, or third points of the member and chord purlins are not to exceed the spacing specified by the TDD. Chords shown without bracing indicated are assumed to be continuously braced by sheathing or drywall. Permanent lateral restraint shall be accomplished in accordance with standard industry lateral restraint/bracing details in BCSI-B3 or BCSI-B7, supplemental bracing details referenced on the TDD, or as specified in a project-specific truss permanent bracing plan provided by the Building Designer.
4. Additional building stability permanent bracing shall be installed as specified in the Construction Documents.
5. Special end wall bracing design considerations may be required if a flat gable end frame is used with adjacent trusses that have sloped bottom chords (see BCSI-B3).
6. Do not cut, drill, trim, or otherwise alter truss members or plates without prior written approval of an engineer, unless specifically noted on the TDD.
7. Piggyback assemblies shall be braced as per BCSI-B3 unless otherwise specified in the Construction Documents.
8. For floor trusses, when specified, Strongbacking shall be installed per BCSI-B7 unless otherwise specified in the Construction Documents.
9. For IBC 2021 and newer, truss chords without a diaphragm require a project specific bracing design prepared by a registered design professional.

Referenced Standards

ANSI/TPI 1: National Design Standard for Metal Plate Connected Wood Truss Construction, a Truss Plate Institute publication (www.tpinst.org)

BCSI: Guide to Good Practice for Handling, Installing, Restraining & Bracing Metal Plate Connected Wood Trusses, a joint publication of the Truss Plate Institute (www.tpinst.org) and the Structural Building Components Association (www.sbcindustry.com)

Symbols and Nomenclature

- 5x7** Plate size, the first digit is the plate width (perp. to the slots) and the second digit is the plate length (parallel to the slots)
- 5x7-18** -18, -18S5, or -18S6 following the plate size indicates different 18 gauge plate types
- || = < >** These symbols following the plate size indicate the direction of the plate length (and tooth slots) for square and nearly square plates
- 10'-3 14/16"** Dimensions are shown in feet-inches-sixteenths (for this example, the dimension is 10'-3 14/16")
-  Joints are numbered left to right, first along the top chord and then along the bottom chord. Mid-panel splice joint numbers are not shown on the drawing. Members are identified using their end joint numbers (e.g., TC 2-3).
-  When this symbol is shown, permanent lateral restraint is required. Lateral restraint may be applied to either edge of the member. See Note 3 under Handling, Installing, Restraint & Bracing for more information.
-  Bearing supports (wall, beam, etc.), locations at which the truss is required to have full bearing. Minimum required bearing width for the given reactions are reported on the TDD. Required bearing widths are based on the truss material and indicated PSI of the support material. The Building Designer is responsible for verifying that the capacity of the support material exceeds the indicated PSI, and for all other bearing design considerations.
-  Truss-to-Truss or Truss-to-Structural Element connection, which require a hanger or other structural connection (e.g., toe-nail) that has adequate capacity to resist the maximum reactions specified in the Reaction Summary. Structural connection type is not limited by type shown on TDD. Toe-nails may be used where hanger type shown where allowed by detail or other connection design information. Design of the Structural Element and the connection of the Truss to a Structural Element is by others.

Note: These symbols are for graphical interpretation only, they are not intended to give any indication of the geometry requirements of the actual item that is represented.

Materials and Fabrication

1. Design assumes truss is manufactured in accordance with the TDD and the quality criteria in ANSI/TPI 1 Chapter 3, unless more restrictive criteria are part of the contract specifications.
2. Unless specifically stated, lumber shall not exceed 19% moisture content at time of fabrication or in service.
3. Design is not applicable for use with fire retardant, preservative treated or green lumber unless specifically stated on the TDD.
4. Plate type, size, orientation and location indicated are based on the specified design parameters. Larger plate sizes may be substituted in accordance with ANSI/TPI, Section 3.6.3. Plates shall be embedded within ANSI/TPI 1 tolerances on both faces of the truss at each joint, unless noted otherwise.
5. Truss plates shall be centered on the joint unless otherwise specified.

DSB-89 Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Trusses, a Truss Plate Institute publication (www.tpinst.org)

NDS: National Design Specification for Wood Construction published by American Forest & Paper Association and American Wood Council
ESR-2762 Simpson Strong-Tie® AS Truss Plates are covered under ESR-2762 published by the International Code Council Evaluation Service (www.icc-es.org)

Page 1 of 1

Truss Weight = 162.5 lb

-----Additional Design Checks-----	
10 psf Non-Concurrent BCLL	Yes
20 psf BC Limited Storage	Yes
200 lb BC Accessible Ceiling	Yes
300 lb TC Maintenance Load	Yes
2000 lb TC Safe Load	No
Unbalanced TCLL	Yes

EngDraw 2021r5BGT PS

Customer: Valued Customer

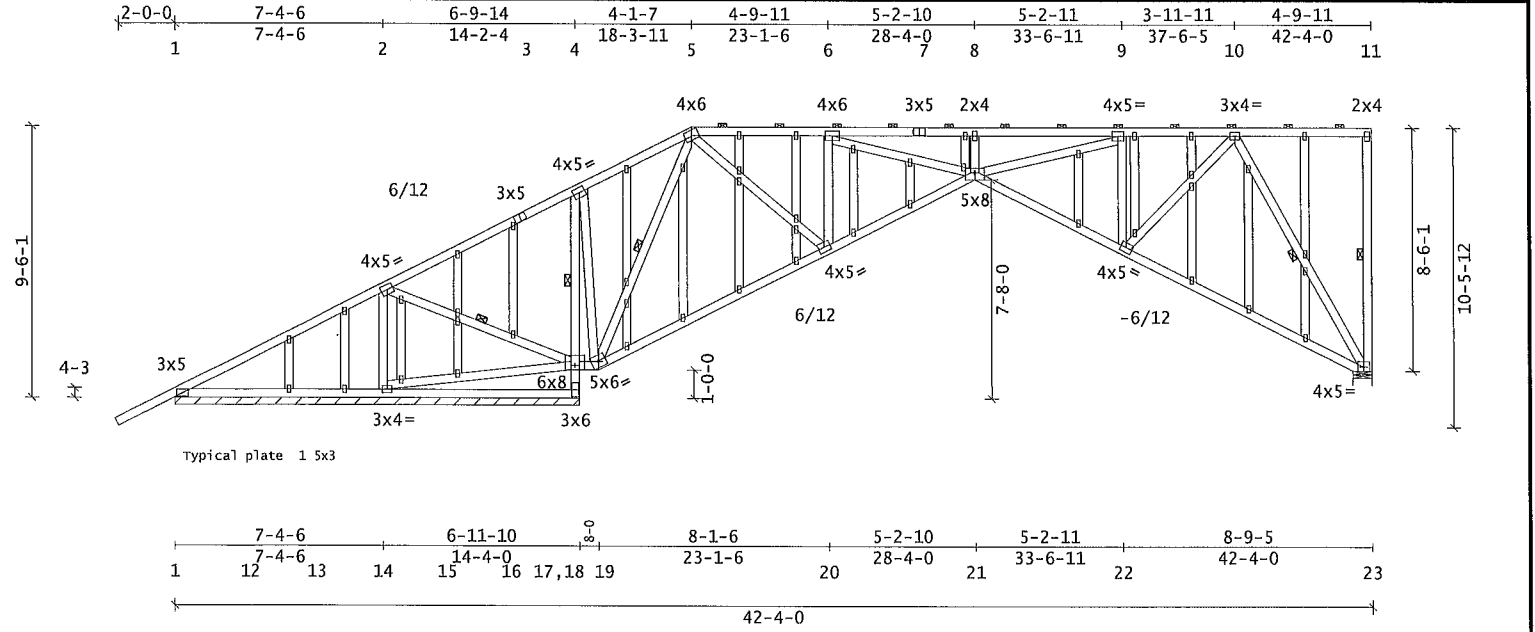
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TID 235539

Date 06/07/24

Page 1 of 1

Truss Mfr Contact Chris Wallington



Code/Design	FBC-2023/TPI-2014
PSF Live Dead	Dur Factors
TC 20 0 10 0	Live Wind Snow
BC 0 0 10 0	Lum 1 25 1 60 N/A
Total	40 0 Plt 1 25 1 60 N/A
Spacing	2 00-00 o c Plies 1
Repetitive Member	Increase Yes
Green Lumber	No Wet Service No
Fab Tolerance	20% Creep (Kcr) = 2 0
OH Soffit Load	2 0 psf

-----Snow Load Specs-----
ASCE7-22 Ground Snow (Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low-Slope Minimums (Pfmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
ASCE7-22 Wind Speed (V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97 2 ft B = 78 3 ft
M R H(h) = 25 0 ft Kzt = 1 0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5 0 BC = 5 0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Prone Region
C&C End Zone 7-10-00

-----Additional Design Checks-----	
10 psf Non Concurrent BCLL	Yes
20 psf BC Limited Storage	Yes
200 lb BC Accessible Ceiling	Yes
300 lb TC Maintenance Load	Yes
2000 lb TC Safe Load	No
Unbalanced TCLL	Yes

Material Summary

TC	2x4	SP (ALSC6-2013)	#1
BC	2x4	SP (ALSC6-2013)	#1
Webs	2x4	SP (ALSC6-2013)	#1

Member Forces Summary

Max CSI in TC PANEL	2 - 3	0 87
Max CSI in BC PANEL	18 - 19	0 96
Max CSI in Web	23 - 11	0 70

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0 53
1 2	616	693	0 55
2- 3	1860	1402	0 87
3- 4	1912	1380	0 79
4- 5	1580	1039	0 56
5- 6	367	185	0 29
6- 7	1127	1939	0 40
7- 8	1127	1939	0 32
8- 9	1127	1939	0 39
9-10	572	911	0 25
10-11	0	173	0 34
11-OH	0	0	0 00
1-12	194	463	0 34
12-13	194	463	0 11
13-14	194	463	0 08
14-15	10	24	0 03
15-16	10	24	0 03
16-17	10	24	0 03
18-19	906	1633	0 96
19-20	506	864	0 61
20-21	163	198	0 46
21-22	1031	655	0 64
22-23	528	409	0 68
Web 2-14	655	290	0 10
2-18	944	1308	0 29
4-18	1418	2376	0 44
4-19	1865	905	0 37
5-19	1033	1651	0 53
5-20	981	534	0 21
6-20	624	830	0 22
6-21	1996	1264	0 40
8-21	271	325	0 03
9-21	1067	792	0 25
9-22	428	562	0 15
10-22	692	315	0 10
10-23	514	894	0 33
11-23	97	211	0 70
14-18	190	443	0 32
17-18	1921	2926	0 24

Reaction Summary

-----Reaction Summary (lbs)-----							
Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
23	42-02-04	763	292	03-08	01-08	SPF	425
14	7-04-06	316	547	14-04-00			
17	14-02-04	2944	1199	14-04-00			
Reactions not shown down < 400 and up < 150							
-----Reaction Summary (plf)-----							
Jnt	Jnt	React	-Up-	--Width-			
1	17	10	0	14-04-00	(reduced)		
Max Horiz = -237 / +531 at Joint 1							

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [30-03-14] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.
The maximum rake overhang length is 12 0"
Plates designed for Cq at 0 80 and Rotational Tolerance of 10 0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBACE Alternatively, see D-WEBREINFORCE
Less than 0 25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0 22)	22-23
Vert DL	L/120	L/999(-0 25)	22-23
Vert CR	L/180	L/721(-0 46)	22-23
Horz LL	0 75in	(0 15)	@Jt23
Horz CR	1 25in	(0 30)	@Jt23
Ohng CR	2L/180	2L/805(0 06)	1- 1

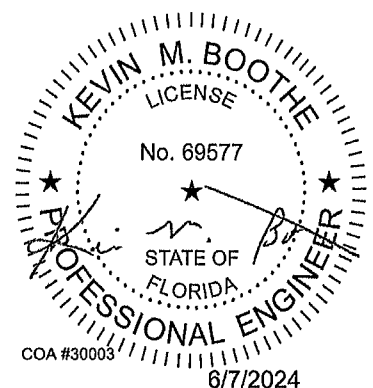
Bracing Data Summary

-----Bracing Data-----
Chords Sheathing required or bracing indicated

TC	5-11-00	-2-01-09	19-03-04	5
TC	2-00-00	19-03-04	41 04-07	11
TC	11-00	41-04-07	42-04-00	2
BC	4-11-00	0 42-00	08 10	
-----Web Bracing - CLR-----				
Single	2-18 18-	4 19	5 10-23	23-11
Continuous Restraint Bracing Req'd				
See BCSI B3 3 0				

Plate offsets (X, Y):

(None unless indicated below)
Jnt18(0,01-04), Jnt19(-00-01,00-01),
Jnt21(0,-00-09), Jnt23(0,00-05)



NOTICE A copy of this design shall be furnished to the erection contractor. The design of this individual truss is based on design criteria and requirements supplied by the Truss Manufacturer and relies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the Important Information & General Notes page for additional information. All connector plates shall be manufactured by Simpson Strong-Tie Company, Inc. in accordance with ESR-2762. All connector plates are 20 gauge unless the specified plate size is followed by a 18 which indicates an 18 gauge plate or 'S# 18' which indicates a high tensile 18 gauge plate.



Component Solutions
Truss Studio V
2023 9 2 1

Customer: Valued Customer

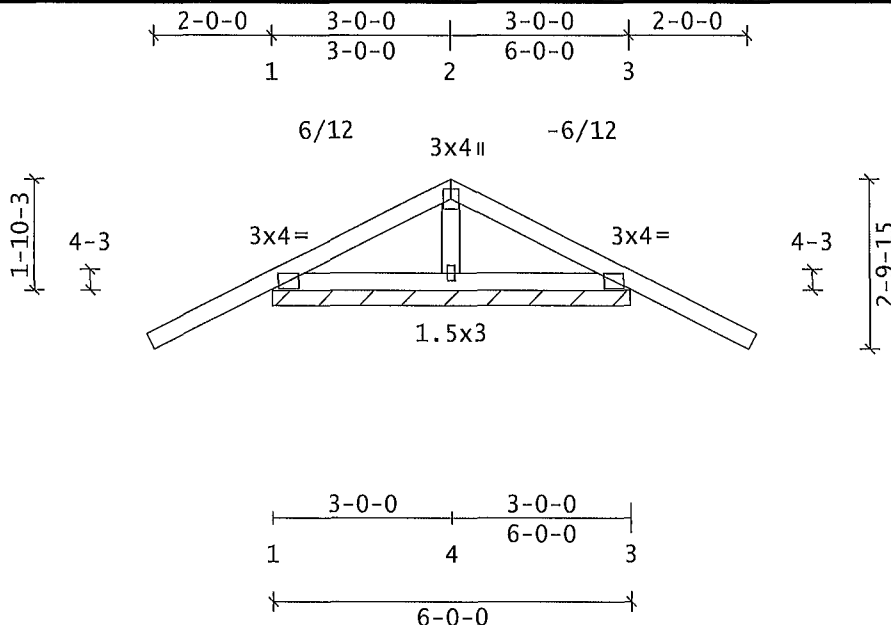
SID 0002947339

TID 235539

Date 06/07/24

Page 1 of 1

Truss Mfr Contact: Chris Wallington



Truss Weight = 27.8 lb

Code/Design FBC-2023/TPI-2014

PSF Live Dead Dur Factors
 TC 20 0 10 0 Live Wind Snow
 BC 0 0 10 0 Lum 1 25 1 60 N/A
 Total 40 0 Plt 1 25 1 60 N/A
 Spacing 2'-00'-00" o c Plies 1
 Repetitive Member Increase Yes
 Green Lumber No Wet Service No
 Fab Tolerance 20% Creep (Kcr) = 2.0
 OH Soffit Load 2.0 psf

--- Snow Load Specs ---

ASCE7-22 Ground Snow (Pg) = N/A
 Risk Cat II Terrain Cat C
 Roof Exposure Sheltered
 Thermal Condition All Others (1.0)
 Unobstructed Slippery Roof No
 Low Slope Minimums (Pfmin) No
 Unbalanced Snow Loads No
 Rain Surcharge No Ice Dam Chk No

--- Wind Load Specs ---

ASCE7-22 Wind Speed (V) = 140 mph
 Risk Cat II Exposure Cat C
 Bldg Dims L = 97.2 ft B = 78.3 ft
 M R H(h) = 25.0 ft Kzt = 1.0
 Bldg Enclosure Enclosed
 Wind DL (psf) TC = 5.0 BC = 5.0
 End Vertical Exposed L = Yes R = Yes
 Wind Uplift Reporting ASCE7 MWERS
 Hurricane Prone Region
 C&C End Zone 7-10-00

--- Additional Design Checks ---

10 psf Non-Concurrent BCLL Yes
 20 psf BC Limited Storage Yes
 200 lb BC Accessible Ceiling Yes
 300 lb TC Maintenance Load Yes
 2000 lb TC Safe Load No
 Unbalanced TCIL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
 BC 2x4 SP (ALSC6-2013) #1
 Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 1 ~ 1 0.53
 Max CSI in BC PANEL 1 ~ 4 0.28
 Max CSI in Web 4 ~ 2 0.03

Mem	Ten	Comp	CSI
TC 1-2	117	0	0.53
2-3	117	0	0.50
BC 1-3	383	182	0.28
Web 2-4	312	207	0.03

Reaction Summary

Reactions not shown down < 400 and up < 150

--- Reaction Summary (plf) ---

Jnt-Jnt React -Up- --Width-
 1- 3 125 49 6'-00'-00"

Max Horiz = -48 / +48 at Joint 4

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [3'-00'-00"] using a 1.00 Full and 0.00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.

The maximum rake overhang length is 12.0"

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees. Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints. Lumber and plating have been applied symmetrically.

Deflection Summary

TrussSpan	Limit	Actual (in)	Location
Vert LL	L/240	L/999 (0.00)	4-3
Vert DL	L/120	L/999 (0.00)	4-3
Vert CR	L/180	L/999 (0.00)	4-3
Horz LL	0.75in	(0.01)	@Jt 3
Horz CR	1.25in	(0.01)	@Jt 3
Ohng CR	2L/180	2L/692 (0.07)	1-1
Ohng CR	2L/180	2L/692 (0.07)	3-3

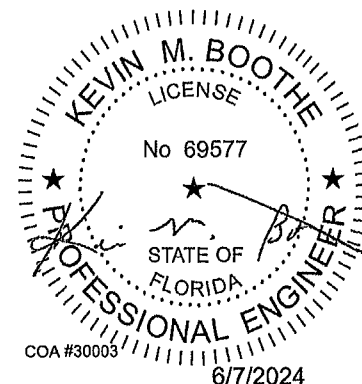
Bracing Data Summary

-----Bracing Data-----
 Chords; Sheathing required or bracing indicated

	---oc---	From---	To---	#Bays
TC	5-08-00	-2-01-09	8-01-09	3
BC	6-00-00	0	6-00-00	1
Web Bracing	None			

Plate offsets (X, Y):

(None unless indicated below)



NOTICE A copy of this design shall be furnished to the erection contractor. The design of this individual truss is based on design criteria and requirements supplied by the Truss Manufacturer and relies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the Important Information & General Notes' page for additional information. All connector plates shall be manufactured by Simpson Strong Tie Company Inc in accordance with ESR-2762. All connector plates are 20 gauge unless the specified plate size is followed by a -18' which indicates an 18 gauge plate or S#18' which indicates a high tension 18 gauge plate.

SIMPSON
Strong-Tie

Component Solutions
 Truss Studio V
 2023 9 2 1

Customer: Valued Customer

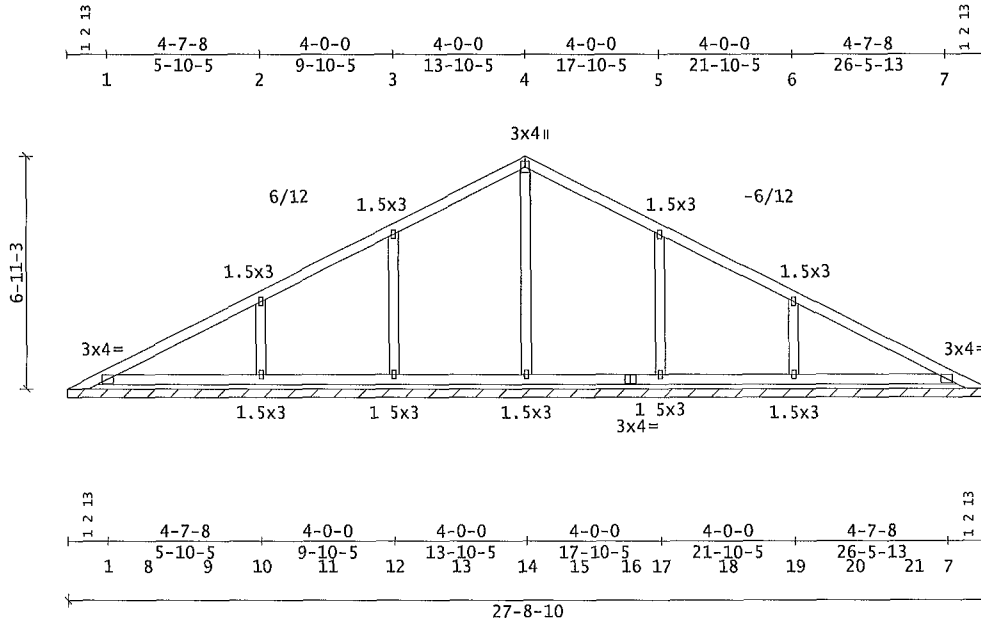
SID 0002947340

TID 235539

Date 06/07/24

Page 1 of 1

Truss Mfr Contact, Chris Wallington



Truss Weight = 108.4 lb

Code/Design FBC-2023/TPI-2014
PSF Live Dead Dur Factors
TC 20 0 10 0 Live Wind Snow
BC 0 0 1 0 Lum 1 25 1 60 N/A
Total 31 0 Plt 1 25 1 60 N/A
Spacing 2-00-00 o c Plies 1
Repetitive Member Increase Yes
Green Lumber No Wet Service No
Fab Tolerance 20% Creep (Kcr) = 2.0
OH Soffit Load 2.0 psf

-----Snow Load Specs-----
ASCE7 22 Ground Snow (Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low-Slope Minimums (Pmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
ASCE7-22 Wind Speed (V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97.2 ft B = 78.3 ft
M R H(h) = 25.0 ft Kzt = 1.0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5.0 BC = 1.0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Prone Region
C&C End Zone 7-10-00

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL Yes
20 psf BC Limited Storage Yes
200 lb BC Accessible Ceiling Yes
300 lb TC Maintenance Load Yes
2000 lb TC Safe Load No
Unbalanced TCCLL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
BC 2x4 SP (ALSC6-2013) #1
Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 2 - 3 0.25
Max CSI in BC PANEL 1 - 8 0.17
Max CSI in Web 14 - 4 0.16

Mem	Ten	Comp	CSI
TC 1-2	86	152	0.24
2-3	104	70	0.25
3-4	255	95	0.24
4-5	255	95	0.24
5-6	104	70	0.25
6-7	86	152	0.24
BC 1-8	242	74	0.17
7-21	242	74	0.17
8-9	242	74	0.09
9-10	242	74	0.03
10-11	242	74	0.02
11-12	242	74	0.02
12-13	242	74	0.03
13-14	242	74	0.03
14-15	242	74	0.02
15-16	242	74	0.02
16-17	242	74	0.02
17-18	242	74	0.02
18-19	242	74	0.02
19-20	242	74	0.03
20-21	242	74	0.09
Web 2-10	485	315	0.05
3-12	304	306	0.09
4-14	0	255	0.16
5-17	304	306	0.09
6-19	485	315	0.05

Reaction Summary

-----Reaction Summary (Lbs)-----

Jnt --X-Loc React --Up-- --Width-- --Reqd --Mat PSI
10 5-10-05 321 211 27-08-10
12 9-10-05 311 188 27-08-10
17 17-10-05 310 189 27-08-10
19 21-10-05 321 211 27-08-10

Reactions not shown down < 400 and up < 150

----- Reaction Summary (plf) -----

Jnt-Jnt React --Up-- --Width--
1-7 16 5 27-08-10 (reduced)
Max Horiz = -223 / +223 at Joint 14

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [13-10-05] using a 1.00 Full and 0.00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints

Deflection Summary

TrussSpan Limit Actual(in) Location
Vert LL L/240 L/999(-0.00) 1-8
Vert DL L/120 L/999(-0.00) 21-7
Vert CR L/180 L/999(-0.01) 21-7
Horz LL 0.75in (0.01) @Jt 1
Horz CR 1.25in (0.01) @Jt 1

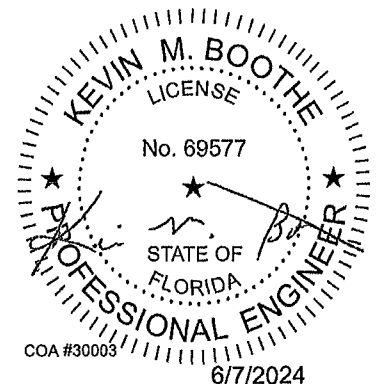
Bracing Data Summary

-----Bracing Data-----
Chords, Sheathing required or bracing indicated

-----Purlins-----
TC --oc-- --From-- --To-- #Bays
5-01-00 0 27-08-10 7
BC 8-07-00 11-09 26-09-01 4
Web Bracing -- None

Plate offsets (X, Y)

(None unless indicated below)



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Truss Studio V
2023.9.2.1

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Truss Weight = 207.9 lb

-----Additional Design Checks-----	
10 psf Non-Concurrent BCLL	Yes
20 psf BC Limited Storage	Yes
200 lb BC Accessible Ceiling	Yes
300 lb TC Maintenance Load	Yes
2000 lb TC Safe Load	No
Unbalanced TCLL	Yes

TrussSpan	Limit	Actual (in)	Location
Vert LL	L/240	L/999 (-0 31)	10-12
Vert DL	L/120	L/999 (-0 31)	10-12
Vert CR	L/180	L/614 (-0 62)	10-12
Horz LL	0 75in	(0 04)	@Jt15
Horz CR	1 25in	(0 08)	@Jt15
Ohnq CR	2L/180	2L/813 (0 06)	1- 1

-----Bracing Data-----
Chords Sheathing required or bracing
indicated

```
-----Purlins-----
---oc--- --From-- ---To--- #Bays
TC      2-05 00  -2-01-09  32-01-04  16
BC      6-00-00      0  32-01-04   6
Web Bracing -- None
```

EngDwg 2021r5RGT Eng

Customer: Valued Customer

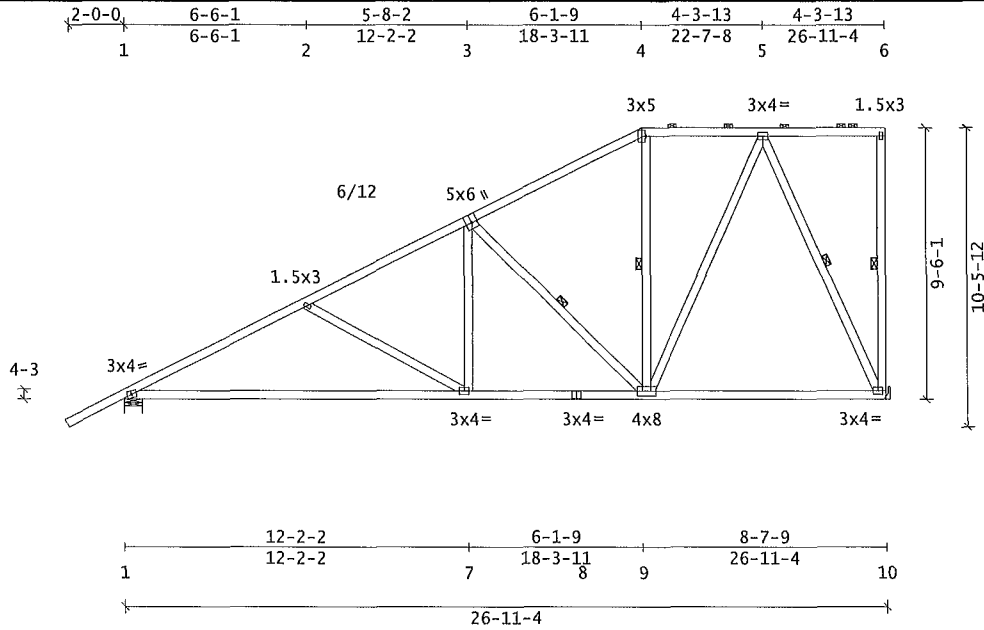
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TID 235539

Date 06/07/24

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Truss Mfr Contact, Chris Wallington



Truss Weight = 168 9 lb

Code/Design FBC-2023/TPI-2014
 PSF Live Dead Dur Factors
 TC 20 0 10 0 Live Wind Snow
 BC 0 0 10 0 Lum 1 25 1 60 N/A
 Total 40 0 Plt 1 25 1 60 N/A
 Spacing 2-00-00 o c Plies 1
 Repetitive Member Increase Yes
 Green Lumber No Wet Service No
 Fab Tolerance 20% Creep (Kcr) = 2 0
 OH Soffit Load 2 0 psf

-----Snow Load Specs-----
 ASCE7-22 Ground Snow (Eg) = N/A
 Risk Cat II Terrain Cat C
 Roof Exposure Sheltered
 Thermal Condition All Others (1 0)
 Unobstructed Slippery Roof No
 Low-Slope Minimums (Pfmin) No
 Unbalanced Snow Loads No
 Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
 ASCE7-22 Wind Speed (V) = 140 mph
 Risk Cat II Exposure Cat C
 Bldg Dims L = 97 2 ft B = 78 3 ft
 M R H(h) = 25 0 ft Kzt = 1 0
 Bldg Enclosure Enclosed
 Wind DL (psf) TC = 5 0 BC = 5 0
 End Vertical Exposed L = Yes R = Yes
 Wind Uplift Reporting ASCE7 MWFRS
 Hurricane Prone Region
 C&C End Zone 7-10-00

-----Additional Design Checks-----
 10 psf Non-Concurrent BCLL Yes
 20 psf BC Limited Storage Yes
 200 lb BC Accessible Ceiling Yes
 300 lb TC Maintenance Load Yes
 2000 lb TC Safe Load No
 Unbalanced TCCLL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
 BC 2x4 SP (ALSC6-2013) #1
 Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 1 - 2 0 99
 Max CSI in BC PANEL 1 - 7 1 00
 Max CSI in Web 10 - 6 0 90

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0 52
1- 2	1209	1785	0 99
2- 3	944	1404	0 71
3- 4	724	843	0 55
4- 5	731	673	0 33
5- 6	230	199	0 30
6-OH	0	0	0 00
BC 1- 7	1532	1394	1 00
7- 8	1183	1013	0 80
8- 9	1183	1013	0 76
9-10	402	418	0 81
10-OH	0	0	0 00
Web 2- 7	512	393	0 26
3- 7	474	137	0 07
3- 9	576	718	0 22
4 9	132	72	0 02
5- 9	684	480	0 28
5-10	834	975	0 40
6-10	124	199	0 90

Reaction Summary

-----Reaction Summary (Lbs)-----
 Jnt --X-Loc- React -Up- --Width- -Reqd -Mat PSI
 1 03-04 1225 405 08-00 01-15 SPF 425
 10 26-09-08 1081 360 03-00 HGR SPF 565
 Max Horiz = 258 / +548 at Joint 1
 Max Horiz = -258 / +548 at Joint 10

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [22 07-08] using a 1 00 Full and 0 00 Reduced load factor
 See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0 80 and Rotational Tolerance of 10 0 degrees
 Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
 Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRAE Alternatively, see D-WEBREINFORCE
 Less than 0 25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan	Limit	Actual (in)	Location
Vert LL	L/240	L/771 (-0 41)	1- 7
Vert DL	L/120	L/793 (-0 40)	1- 7
Vert CR	L/180	L/391 (-0 81)	1 7
Horz LL	0 75in	(0 02)	@Jt10
Horz CR	1 25in	(0 04)	@Jt10
Ohng CR	2L/180	2L/805 (0 06)	1- 1

Bracing Data Summary

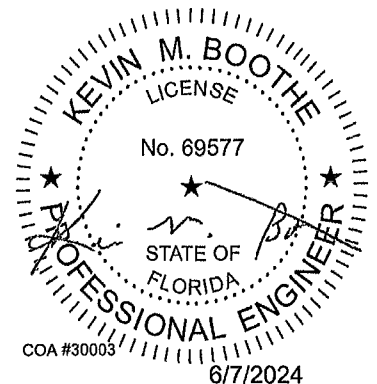
-----Bracing Data-----
 Chords Sheathing required or bracing indicated

-----Purlins-----	From	To	#Bays
TC 4-07-00	-2-01-09	19-03-04	6
TC 2-00-00	19-03-04	25-11-11	4
TC 11-00	25 11-11	26-11-04	2
BC 7-11-00	0 26-11-04	4	

-----Web Bracing----- CLR -----
 Single 3- 9 9- 4 5-10 10- 6
 Continuous Restraint Bracing Req'd
 See BCSI B3 3 0

Plate offsets (X, Y):

(None unless indicated below)
 Jnt1 (0,00-01), Jnt3 (00-04,00-07),
 Jnt4 (-01-12,0)



COA #30003

6/7/2024

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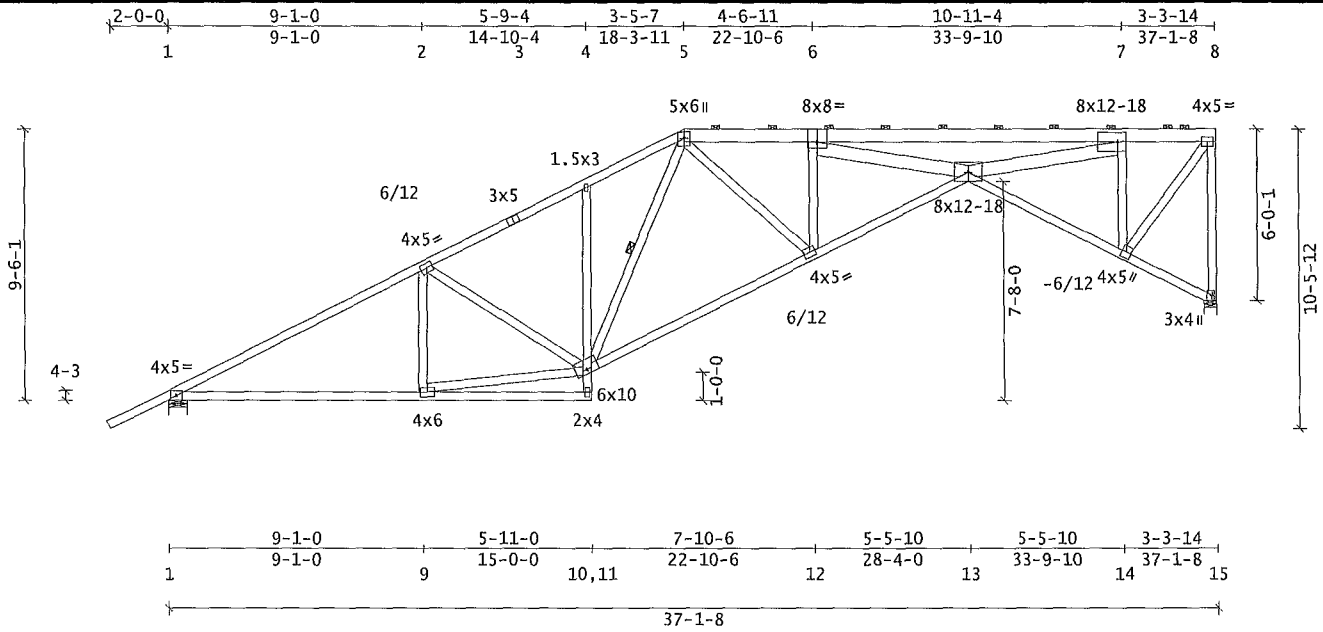
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Truss Mfr Contact Chris Wallington



Code/Design FBC-2023/TPI 2014
PSF Live Dead Dur Factors
TC 20 0 10 0 Live Wind Snow
BC 0 0 10 0 Lum 1 25 1 60 N/A
Total 40 0 Plt 1 25 1 60 N/A
Spacing 2-00-00 o c Plies 1
Repetitive Member Increase Yes
Green Lumber No Wet Service No
Fab Tolerance 20% Creep (Kcr) = 2 0
OH Soffit Load 2 0 psf

-----Snow Load Specs-----
ASCE7-22 Ground Snow (Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low-Slope Minimums (Pmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
ASCE7-22 Wind Speed (V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97 2 ft B = 78 3 ft
M R H(h) = 25 0 ft Kzt = 1 0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5 0 BC = 5 0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Prone Region
C&C End Zone 7-10-00

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL Yes
20 psf BC Limited Storage Yes
200 lb BC Accessible Ceiling Yes
300 lb TC Maintenance Load Yes
2000 lb TC Safe Load No
Unbalanced TCCL Yes

Material Summary

TC	2x4	SP (ALSC6-2013)	#1
BC	2x6	SP (ALSC6-2013)	SS 5 6
6-8			
BC	2x4	SP (ALSC6-2013)	#1
Webs	2x4	SP (ALSC6-2013)	#1
	2x6	SP (ALSC6-2013)	SS 6-13
13-7			

Member Forces Summary

Max CSI in TC PANEL	1 - 2	1 00
Max CSI in BC PANEL	12 - 13	0 99
Max CSI in Web	15 - 8	0 72

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0 51
1- 2	1764	2602	1 00
2- 3	1698	2307	0 83
3- 4	1710	2222	0 44
4- 5	1951	2277	0 35
5- 6	2388	3126	0 26
6- 7	4230	6528	0 66
7- 8	834	1132	0 21
8-OH	0	0	0 00
BC 1 9	2224	1667	0 67
9-10	44	33	0 42
11-12	2325	1608	0 77
12-13	3567	2444	0 99
13-14	1273	845	0 44
14-15	819	263	0 22
15-OH	5	0	0 00
Web 2- 9	342	199	0 06
2-11	388	316	0 22
4-11	315	318	0 23
5-11	146	371	0 09
5-12	1438	939	0 28
6-12	1085	1354	0 35
6-13	3464	2070	0 33
7-13	5563	3500	0 52
7-14	1308	1906	0 49
8-14	1871	1170	0 28
8-15	902	1471	0 72
9-11	2208	1655	0 40
10-11	111	0	0 08

Reaction Summary

-----Reaction Summary(Lbs)-----
Jnt --X-Loc- React -Up- --Width- --Reqd -Mat PSI
1 03-04 1631 557 08-00 02-09 SPF 425
15 36-11-12 1478 490 05-08 01-14 SPF 531
Max Horiz = -158 / +457 at Joint 1
Max Horiz = -158 / +457 at Joint 15

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [27-08 10] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0 80 and Rotational Tolerance of 10 0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBACE Alternatively, see D-WEBREINFORCE
Less than 0 25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0 33)	13-14
Vert DL	L/120	L/991(-0 44)	11-12
Vert CR	L/180	L/586(-0 75)	11-12
Horz LL	0 75in	(0 28)	@Jt15
Horz CR	1 25in	(0 56)	@Jt15
Ohng CR	2L/180	2L/805(0 06)	1- 1

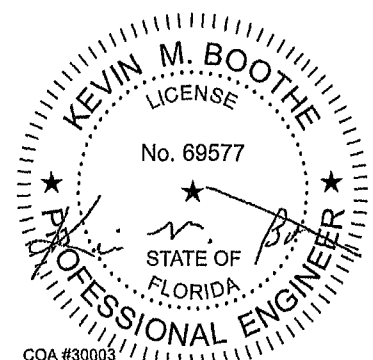
Bracing Data Summary

-----Bracing Data-----
Chords Sheathing required or bracing indicated

-----Purlins-----
---oc--- --From--- --To--- #Bays
TC 2-10-00 -2-01-09 19-03-04 9
TC 2-00-00 19-03-04 36-01-15 9
TC 11-00 36-01-15 37-01-08 2
BC 5-07-00 0 37-01-08 8
----- Web Bracing -- CLR -----
Single 11- 5
Continuous Restraint Bracing Req'd
See BCSI-B3 3 0

Plate offsets (X, Y):

(None unless indicated below)
Jnt1(0,00-02), Jnt5(0,-00-05),
Jnt6(0,01-08), Jnt7(-02-08,0),
Jnt11(-00-09,01-02), Jnt13(0,00-01),
Jnt15(-00-13,-00-01)



COA #30003

6/7/2024

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Customer: Valued Customer

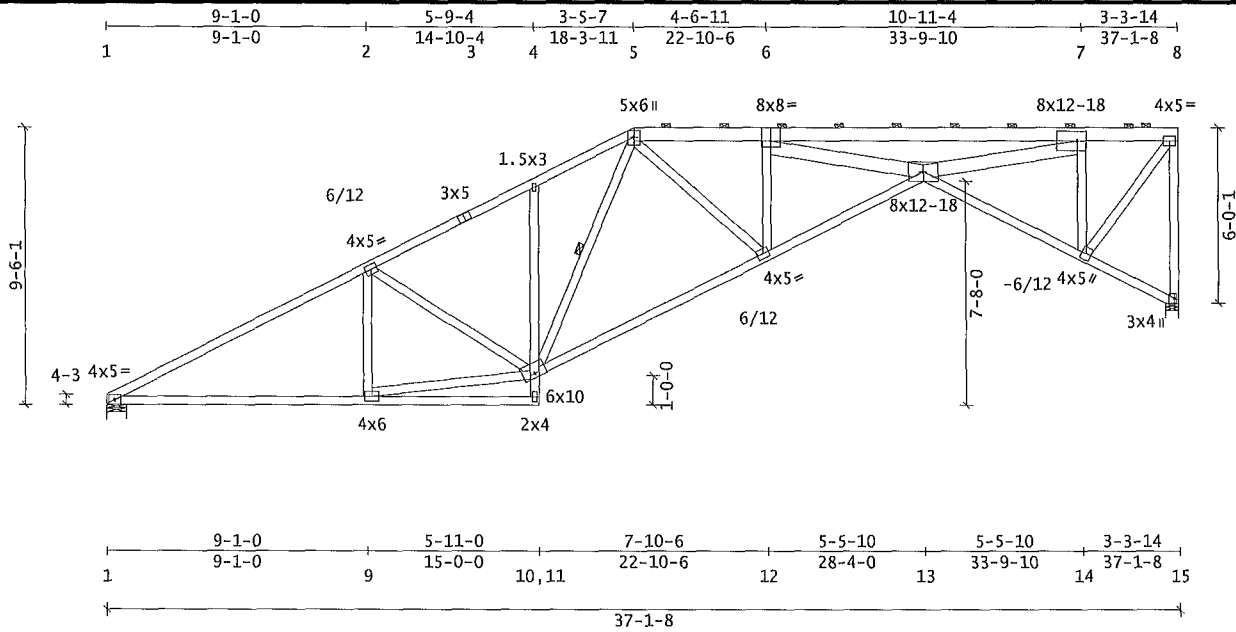
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TID 235539

Date 06/07/24

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Truss Mfr Contact: Chris Wallington



Truss Weight = 265 1 lb

Code/Design FBC-2023/TPI-2014
PSF Live Dead Dur Factors
TC 20 0 10 0 Live Wind Snow
BC 0 0 10 0 Lum 1 25 1 60 N/A
Total 40 0 Plt 1 25 1 60 N/A
Spacing 2-00-00 o c Plies 1
Repetitive Member Increase Yes
Green Lumber No Wet Service No
Fab Tolerance 20% Creep (Kcr) = 2 0
OH Soffit Load 2 0 psf

-----Snow Load Specs-----
ASCE7-22 Ground Snow (Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others (1 0)
Unobstructed Slippery Roof No
Low Slope Minimums (P_{fmin}) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
ASCE7-22 Wind Speed (V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97 2 ft B = 78 3 ft
M R H(h) = 25 0 ft K_{zt} = 1 0
Bldg Enclosure Enclosed
Wind Dir (psf) TC = 5 0 BC = 5 0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Prone Region
C&C End Zone 7-10 00

-----Additional Design Checks-----
10 psf Non Concurrent BCLL Yes
20 psf BC Limited Storage Yes
200 lb BC Accessible Ceiling Yes
300 lb TC Maintenance Load Yes
2000 lb TC Safe Load No
Unbalanced TCCLL Yes

Material Summary

TC	2x4	SP (ALSC6-2013)	#1
BC	2x6	SP (ALSC6-2013)	SS 5 6
6-8	2x4	SP (ALSC6-2013)	#1
Webs	2x4	SP (ALSC6-2013)	#1
13-7	2x6	SP (ALSC6-2013)	SS 6-13

Reaction Summary

-----Reaction Summary (lbs)-----
Jnt --X- Loc React -Up- --Width- -Reqd -Mat PSI
1 03-04 1489 480 08-00 02-05 SPF 425
15 36-11-12 1480 493 05-08 01-14 SPF 531
Max Horiz = -181 / +429 at Joint 1
Max Horiz = -181 / +429 at Joint 15

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [27-08-10] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for C_q at 0 80 and Rotational Tolerance of 10 0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE. Alternatively, see D-WEBREINFORCE
Less than 0 25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan	Limit	Actual (in)	Location
Vert LL	L/240	L/999 (-0 33)	13-14
Vert DL	L/120	L/995 (-0 44)	11-12
Vert CR	L/180	L/589 (-0 75)	11-12
Horz LL	0 75in	(0 28)	@Jt15
Horz CR	1 25in	(0 57)	@Jt15

Bracing Data Summary

-----Bracing Data-----
Chords; Sheathing required or bracing indicated

-----Purlins-----
--oc-- --From-- --To-- #Bays
TC 2-09-00 0 19-03-04 8
TC 2-00-00 19-03-04 36-01-15 9
TC 11-00 36-01-15 37-01-08 2
BC 5-07-00 0 37-01-08 8
----- Web Bracing -- CLR -----
Single 11- 5
Continuous Restraint Bracing Req'd
See BCSI-B3 3 0

Plate offsets (X, Y):

(None unless indicated below)
Jnt1 (0,00-02), Jnt5 (0,-00-05),
Jnt6 (0,01-08), Jnt7 (-02-08,0),
Jnt11 (-00-09,01-02), Jnt13 (0,00-01),
Jnt15 (-00-13,-00-01)

Member Forces Summary

Max CSI in TC PANEL	1	2	1 00
Max CSI in BC PANEL	12	13	0 99
Max CSI in Web	15	8	0 73

Mem	Ten	Comp	CSI
TC 1- 2	1903	2618	1 00
2- 3	1784	2314	0 99
3- 4	1795	2224	0 39
4- 5	1921	2283	0 30
5- 6	2462	3132	0 26
6- 7	4359	6540	0 67
7- 8	851	1133	0 18
8-OH	0	0	0 00
BC 1- 9	2240	1838	0 70
9-10	44	36	0 44
11-12	2331	1674	0 77
12-13	3574	2524	0 99
13-14	1275	850	0 44
14-15	748	234	0 22
15-OH	5	0	0 00
Web 2- 9	334	187	0 06
2-11	496	328	0 23
4-11	307	314	0 22
5-11	145	339	0 08
5-12	1439	950	0 28
6-12	1097	1355	0 35
6-13	3469	2085	0 33
7-13	5573	3616	0 52
7-14	1336	1909	0 49
8-14	1873	1196	0 28
8-15	924	1472	0 73
9-11	2224	1826	0 41
10-11	109	0	0 06

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Strong-Tie

Component Solutions
Truss Studio V
2023 9 2 1

Customer: Valued Customer

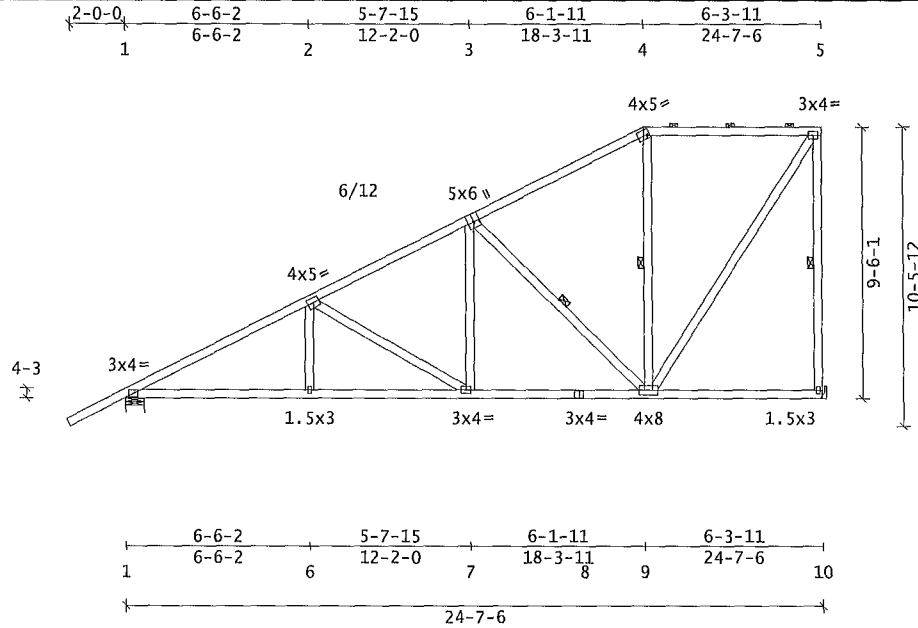
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TID 235539

Date 06/07/24

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Truss Mfr Contact: Chris Wallington



Truss Weight = 155 6 lb

Code/Design FBC-2023/TPI-2014
 PSF Live Dead Dur Factors
 TC 20 0 10 0 Live Wind Snow
 BC 0 0 10 0 Lum 1 25 1 60 N/A
 Total 40 0 Plt 1 25 1 60 N/A
 Spacing 2-00 00 o c Plies 1
 Repetitive Member Increase Yes
 Green Lumber No Wet Service No
 Fab Tolerance 20% Creep (Kcr) = 2 0
 OR Soffit Load 2 0 psf

-----Snow Load Specs-----
 ASCE7-22 Ground Snow(Pg) = N/A
 Risk Cat II Terrain Cat C
 Roof Exposure Sheltered
 Thermal Condition All Others(1 0)
 Unobstructed Slippery Roof No
 Low-Slope Minimums(Pfmin) No
 Unbalanced Snow Loads No
 Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
 ASCE7-22 Wind Speed(V) = 140 mph
 Risk Cat II Exposure Cat C
 Bldg Dims L = 97 2 ft B = 78 3 ft
 M R H(h) = 25 0 ft Kzt = 1 0
 Bldg Enclosure Enclosed
 Wind DL(psf) TC = 5 0 BC = 5 0
 End Vertical Exposed L = Yes R = Yes
 Wind Uplift Reporting ASCE7 MWFRS
 Hurricane Prone Region
 C&C End Zone 7-10-00

-----Additional Design Checks-----
 10 psf Non-Concurrent BCLL Yes
 20 psf BC Limited Storage Yes
 200 lb BC Accessible Ceiling Yes
 300 lb TC Maintenance Load Yes
 2000 lb TC Safe Load No
 Unbalanced TCLL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
 BC 2x4 SP (ALSC6-2013) #1
 Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 1 - 2 0 95
 Max CSI in BC PANEL 1 6 0 74
 Max CSI in Web 10 - 5 1 00

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0 52
1- 2	997	1648	0 95
2- 3	808	1178	0 56
3- 4	566	638	0 51
4- 5	596	492	0 66
5-OH	0	0	0 00
BC 1- 6	1400	1270	0 74
6- 7	1400	1270	0 74
7 8	983	938	0 45
8- 9	983	938	0 47
9-10	815	237	0 42
10-OH	0	0	0 00
Web 2- 6	255	0	0 04
2- 7	456	476	0 30
3- 7	412	179	0 06
3- 9	582	690	0 21
4- 9	286	169	0 06
5- 9	901	741	0 56
5-10	798	926	1 00

Reaction Summary

-----Reaction Summary(Lbs)-----
 Jnt --X-Loc- React -Up- --Width- -Reqd -Mat PSI
 1 03-04 1133 374 08-00 01-12 SPF 425
 10 24-05-10 978 331 03-00 HGR SPF 565
 Max Horiz = -258 / +548 at Joint 1
 Max Horiz = -258 / +548 at Joint 10

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [21-05-09] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0 80 and Rotational Tolerance of 10 0 degrees
 Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
 Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE Alternatively, see D-WEBREINFORCE
 Less than 0 25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

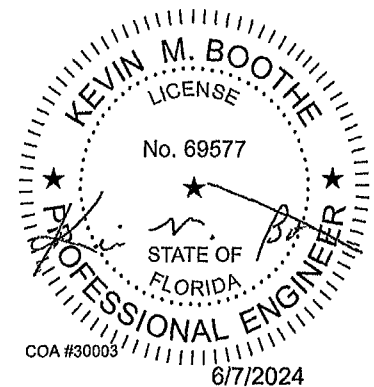
Truss	Span	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0 06)	9-10	
Vert DL	L/120	L/999(-0 06)	6- 7	
Vert CR	L/180	L/999(-0 12)	6- 7	
Horz LL	0 75in	(0 02)	@Jt10	
Horz CR	1 25in	(0 03)	@Jt10	
Ohng CR	2L/180	2L/805(0 06)	1- 1	

Bracing Data Summary

-----Bracing Data-----
 Chords Sheathing required or bracing indicated
 -----Purlins-----
 --oc-- --From-- --To-- #Bays
 TC 4-07-00 -2 01-09 19-03-04 6
 TC 2-00-00 19-03-04 23-07-13 2
 TC 11-00 23-07-13 24-07-06 2
 BC 8-02-00 0 24-07-06 4
 --- Web Bracing --- CLR
 Single 3- 9 9- 4 10- 5
 Continuous Restraint Bracing Req'd
 See BCSI-B3 3 0

Plate offsets (X, Y):

(None unless indicated below)
 Jnt3(-00 04,00-07), Jnt4(-01-12,0)



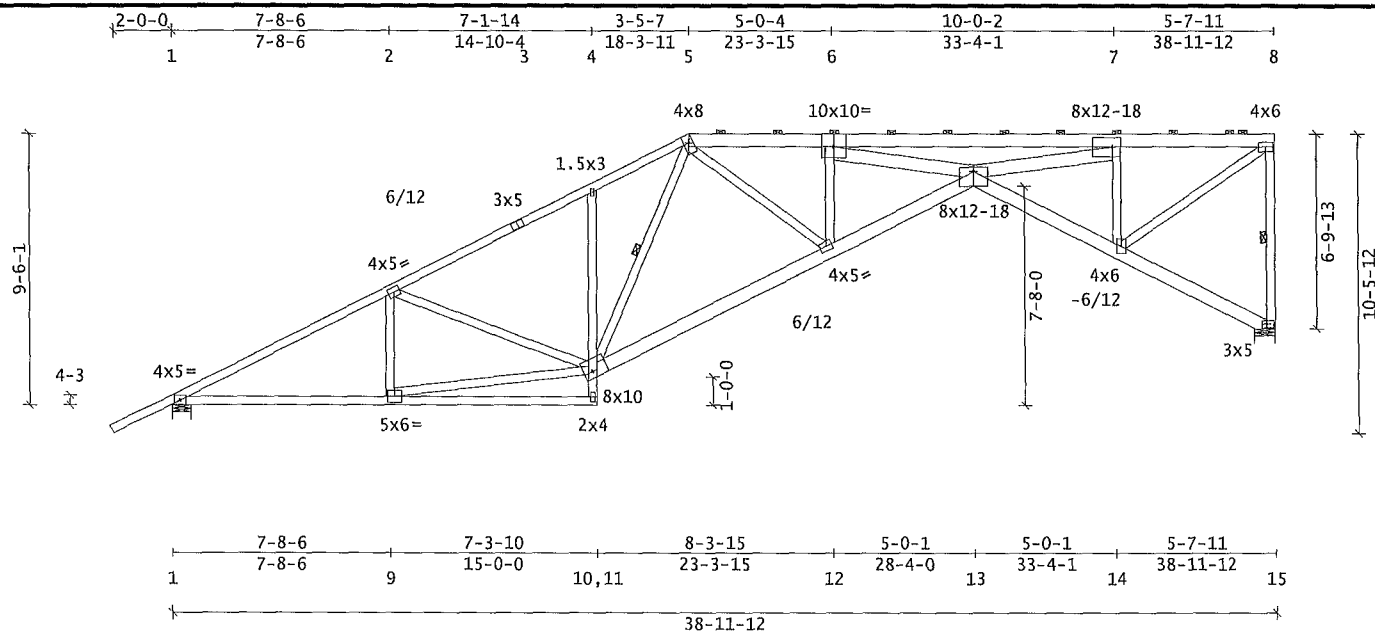
NOTICE A copy of this design shall be furnished to the erection contractor. The design of this individual truss is based on design criteria and requirements supplied by the Truss Manufacturer and relies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the 'Important Information & General Notes' page for additional information. All connector plates shall be manufactured by Simpson Strong-Tie Company, Inc. in accordance with ESR-2762. All connector plates are 20 gauge unless the specified plate size is followed by a '18' which indicates an 18 gauge plate or 'S# 18' which indicates a high tension 18 gauge plate.

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 Truss Studio V
 2023 9 2 1

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Truss Mfr Contact Chris Wallington



Truss Weight = 303 7 lb

Code/Design FBC-2023/TPI-2014							
PSF	Live	Dead	Dur Factors				
TC	20 0	10 0	Live	Wind	Snow		
BC	0 0	10 0	Lum	1 25	1 60	N/A	
Total		40 0	Pit	1 25	1 60	N/A	
Spacing	2-00-00	o c	Plies	1			
Repetitive Member	Increase		Yes				
Green Lumber	No	Wet Service	No				
Fab Tolerance	20% Creep (Kcr)		= 2 0				
OH Soffit Load	2 0 psf						

```

-----Snow Load Specs-----
ASCE7-22 Ground Snow(Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low Slope Minimums(Pfmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

```

```

-----Wind Load Specs-----
ASCE7-22 Wind Speed(V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97.2 ft B = 78.3 ft
M R H(h) = 25.0 ft Kzt = 1.0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5.0 BC = 5.0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MWFRS
Hurricane Zone Region
C&C End Zone 7-10-00

```

-----Additional Design Checks-----	
10 psf Non-Concurrent BCLL	Yes
20 psf BC Limited Storage	Yes
200 lb BC Accessible Ceiling	Yes
300 lb TC Maintenance Load	Yes
2000 lb TC Safe Load	No
Unbalanced TCLL	Yes

Material Summary

Material Summary				
6-8	2x4	SP (ALSC6-2013)	#1	5-6
	2x6	SP (ALSC6-2013)	SS	
BC	2x6	SP (ALSC6-2013)	SS	1-10
	2x4	SP (ALSC6-2013)	#1	
Webs	2x4	SP (ALSC6-2013)	#1	6-13
	2x6	SP (ALSC6-2013)	SS	
13-7				

Reaction Summary

-----Reaction Summary(Lbs)-----

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
1	03-04	1705	576	08-00	02-11	SPF	425
15	38-10-00	1549	512	04-12	02-07	SPF	425
Max Horiz =	-184 /	+479	at Joint	1			
Max Horiz =	-184 /	+479	at Joint	15			

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [28-07-12] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size
requirement to transfer unblocked diaphragm loads across those joints
Continuous Lateral Restraint (CLR) rows require diagonal bracing per
D-WEBCLRBRACE Alternatively, see D-WEBREINFORCE
Less than 0.25/12 pitch requires adequate drainage to prevent ponding

Member Forces Summary

Max CSI in TC PANEL	1 - 2	0 97
Max CSI in BC PANEL	12 - 13	0 97
Max CSI in Web	9 - 11	0 66

	Mem	Ten	Comp	CSI
TC	OH- 1	117	0	0 51
	1- 2	1881	2831	0 97
	2- 3	1785	2549	0 74
	3- 4	1797	2427	0 62
	4- 5	2007	2536	0 62
	5- 6	2727	3726	0 27
	6- 7	5351	8557	0 83
	7- 8	1306	1945	0 17
BC	8-OH	0	0	0 00
	1- 9	2443	1792	0 94
	9-10	50	36	0 53
	11-12	2581	1786	0 38
	12-13	4249	2784	0 97
Web	13-14	2173	1393	0 31
	14-15	836	276	0 12
	2- 9	355	212	0 05
	2-11	382	337	0 30
	4-11	448	388	0 27
	5-11	166	403	0 09
	5-12	1814	1130	0 37
	6-12	1252	1681	0 36
	6-13	4925	3006	0 42
	7-13	6817	4229	0 57
	7-14	1449	2194	0 47
	8-14	2394	1429	0 56
	8-15	922	1514	0 53
	9-11	2417	1773	0 66
	10-11	131	0	0 11

Deflection Summary

Detection Summary				
	TrussSpan	Limit	Actual (in)	Location
Vert	LL	L/240	L/980 (-0 47)	13-14
Vert	DL	L/120	L/967 (-0 48)	13-14
Vert	CR	L/180	L/487 (-0 95)	13-14
Horz	LL	0 75in	(0 38)	@Jt15
Horz	CR	1 25in	(0 76)	@Jt15
Ohng	CR	2L/180	2L/805 (0 06)	1- 1

Bracing Data Summary

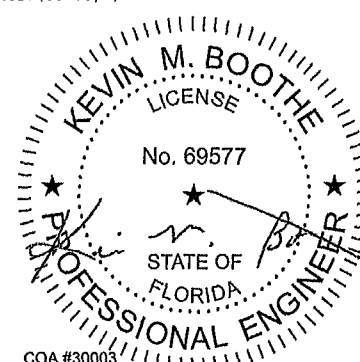
-----Bracing Data-----
Chords Sheathing required or bracing
indicated

	---oc--	- From--	- -To---	#Bays
TC	2-11-00	-2-01-09	19-03-04	9
TC	2 00-00	19-03-04	38-00-03	10
TC	11-00	38-00-03	38-11-12	2
BC	6-10-00	0	38-08-04	7

--- Web Bracing --- CLR ---
 Single 11- 5 15- 8
 Continuous Restraint Bracing Req'd
 See BCSI-B3 3 0

Plate offsets (X, Y):

(None unless indicated below)
Jnt1(0,00-02), Jnt5(0,-00-09),
Jnt6(0,00-08), Jnt7(-02-08,0),
Jnt11(00-10,01-11), Jnt13(0,-02-02),
Jnt15(00-08,0)



COA #30003

6/7/2024

NOTICE A copy of this design shall be furnished to the erection contractor. The design of this Individual truss is based on design criteria and requirements supplied by the Truss Manufacturer and relies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the 'Important Information & General Notes' page for additional information. All connector plates shall be manufactured by Simpson Strong-Tie Company, Inc in accordance with ESR-2762. All connector plates are 20 gauge unless the specified plate size is followed by a -18 which indicates an 18 gauge plate or 'Sf 18' which indicates a high tension 18 gauge plate.

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Truss Studio V
2023 9 2 1

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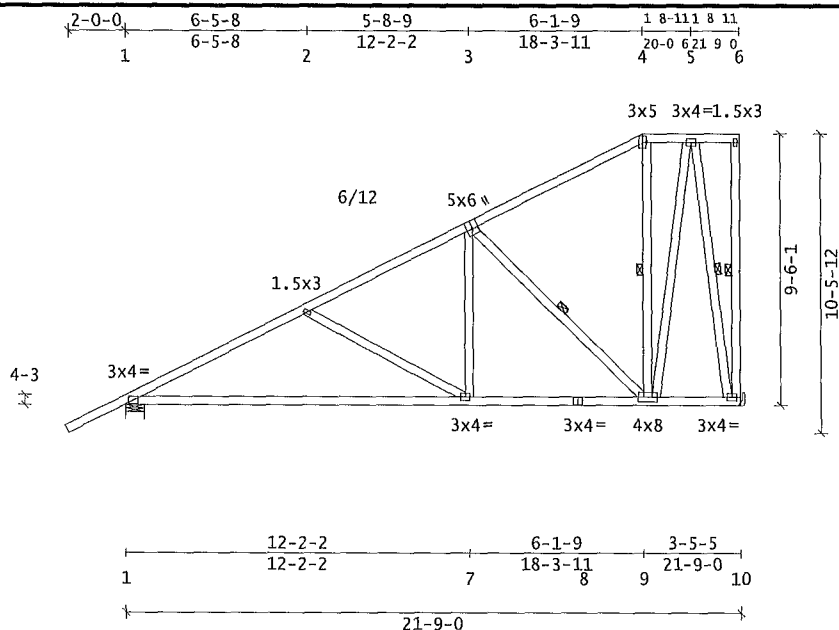
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TID: 235539

Date 06/07/24

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Truss Mfr Contact Chris Wallington



Truss Weight = 153 2 lb

Code/Design FBC-2023/TPI-2014
 PSF Live Dead Dur Factors
 TC 20 0 10 0 Live Wind Snow
 BC 0 0 10 0 Lum 1 25 1 60 N/A
 Total 40 0 Plt 1 25 1 60 N/A
 Spacing 2-00-00 o c Plies 1
 Repetitive Member Increase Yes
 Green Lumber No Wet Service No
 Fab Tolerance 20% Creep (Kcr) = 2 0
 OH Soffit Load 2 0 psf

-----Snow Load Specs-----
 ASCE7-22 Ground Snow(Eg) = N/A
 Risk Cat II Terrain Cat C
 Roof Exposure Sheltered
 Thermal Condition All Others(1 0)
 Unobstructed Slippery Roof No
 Low-Slope Minimums(Pfmin) No
 Unbalanced Snow Loads No
 Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
 ASCE7-22 Wind Speed(V) = 140 mph
 Risk Cat II Exposure Cat C
 Bldg Dims L = 97 2 ft B = 78 3 ft
 M R H(h) = 25 0 ft Kzt = 1 0
 Bldg Enclosure Enclosed
 Wind DL(psf) TC = 5 0 BC = 5 0
 End Vertical Exposed L = Yes R = Yes
 Wind Uplift Reporting ASCE7 MWFRS
 Hurricane Prone Region
 C&C End Zone 7 10-00

-----Additional Design Checks-----
 10 psf Non-Concurrent BCLL Yes
 20 psf BC Limited Storage Yes
 200 lb BC Accessible Ceiling Yes
 300 lb TC Maintenance Load Yes
 2000 lb TC Safe Load No
 Unbalanced TCIL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
 BC 2x4 SP (ALSC6 2013) #1
 Webs 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 1 2 0 97
 Max CSI in BC PANEL 1 7 0 86
 Max CSI in Web 10 6 0 95

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0 53
1- 2	877	1351	0 97
2- 3	604	962	0 61
3- 4	384	377	0 50
4- 5	425	254	0 17
5- 6	243	205	0 05
6-OH	0	0	0 00
BC 1- 7	1147	1207	0 86
7- 8	786	831	0 79
8- 9	786	831	0 24
9-10	729	308	0 16
10-OH	0	0	0 00
Web 2- 7	524	405	0 27
3- 7	520	134	0 08
3- 9	623	749	0 23
4- 9	346	187	0 06
5- 9	721	761	0 33
5-10	784	788	0 28
6-10	72	96	0 95

Reaction Summary

-----Reaction Summary(Lbs)-----
 Jnt --X-Loc- React -Up- -Width -Reqd -Mat PSI
 1 03-04 1019 335 08 00 01-10 SPF 425
 10 21-07-04 861 297 01-08 HGR SPF 565
 Max Horiz = -258 / +548 at Joint 1
 Max Horiz = -258 / +548 at Joint 10

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-06] using a 1 00 Full and 0 00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cg at 0 80 and Rotational Tolerance of 10 0 degrees
 Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
 Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLBRACE Alternatively, see D-WEBREINFORCE
 Less than 0 25/12 pitch requires adequate drainage to prevent ponding

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/651(-0 39)	1- 7
Vert DL	L/120	L/674(-0 38)	1- 7
Vert CR	L/180	L/331(-0 77)	1- 7
Horz LL	0 75in	(0 02)	@Jt 1
Horz CR	1 25in	(0 03)	@Jt 1
Chng CR	2L/180	2L/805(0 06)	1- 1

Bracing Data Summary

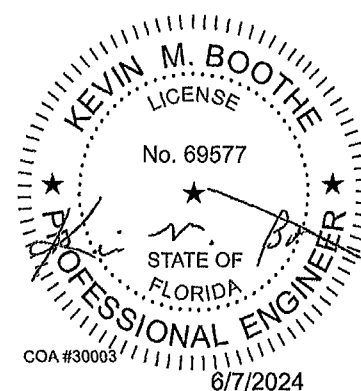
-----Bracing Data-----
 Chords Sheathing required or bracing indicated

oc	From	To	#Bays	
TC	5-03-00	-2-01-09	19-03-04	5
TC	2-00-00	19-03-04	20-09-07	1
TC	11-00	20-09-07	21-09-00	2
BC	7-03-00	0	21-09-00	3

-----Web Bracing----- CLR -----
 Single 3- 9 9- 4 5-10 10- 6
 Continuous Restraint Bracing Req'd
 See BCSI-B3 3 0

Plate offsets (X, Y):

(None unless indicated below)
 Jnt3(-00 04,00-07), Jnt4(-01-12,0)



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 Truss Studio V
 2023 9 2 1

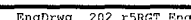
Page 1 of 1

Truss Weight = 369.9 lb

-----Additional Design Checks-----	
10 psf Non-Concurrent BCLL	Yes
20 psf BC Limited Storage	Yes
200 lb BC Accessible Ceiling	Yes
300 lb TC Maintenance Load	Yes
2000 lb TC Safe Load	No
Unbalanced TCLL	Yes

(None unless indicated below)

Jnt1(01-00,00-08), Jnt7(01-12,0),
 Jnt8(0,-00-12), Jnt9(-01-12,0),
 Jnt15(-00-09,01-02), Jnt17(00-01,00-01),
 Jnt18(0,-02-02), Jnt21(00-08,0)



Page 1 of 1

Truss Weight = 272 2 lb

-----Additional Design Checks-----	
10 psf Non-Concurrent BCLL	Yes
20 psf BC Limited Storage	Yes
200 lb BC Accessible Ceiling	Yes
300 lb TC Maintenance Load	Yes
2000 lb TC Safe Load	No
Unbalanced TCLL	Yes

TrussSpan	Limit	Actual (in)	Location
Vert LL	L/240	L/999 (-0 22)	18-19
Vert DL	L/120	L/999 (-0 25)	18-19
Vert CR	L/180	L/699 (-0 47)	18-19
Horz LL	0 75in	(0 14)	@Jt19
Horz CR	1 25in	(0 26)	@Jt19
Ohng CR	2L/180	2L/805 (0 06)	1- 1

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size
requirement to transfer unblocked diaphragm loads across those joints
Continuous Lateral Restraint (CLR) rows require diagonal bracing per
D-WEBCLRBACE Alternatively, see D-WEBREINFORCE
Less than 0.25/12 pitch requires adequate drainage to prevent ponding

```

-----Purlins-----
--oc-- --From-- --To-- #Bays
TC 5-11-00 2-01-09 19-03-04 5
TC 2-00-00 19-03-04 41-04-07 11
TC 11-00 41 04-07 42-04-00 2
BC 5-01-00 0 42-00-08 9
-----Web Bracing----- CLR-----
Single 15- 5 10-19 19-11
Continuous Restraint Bracing Req'd
See BCSI B3 3 0

```

(None unless indicated below)
Jnt5(00-01,-00-01), Jnt14(0,01-04),
Jnt15(00-01,00-01), Jnt17(0,-00-09),
Jnt19(00-04,00-05)

KEVIN M. BOOthe

LICENSE

No. 69577

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Boothe

Boothe

COA #30003

6/7/2024

EngDwg 2021r5BGT PS

Customer: Valued Customer

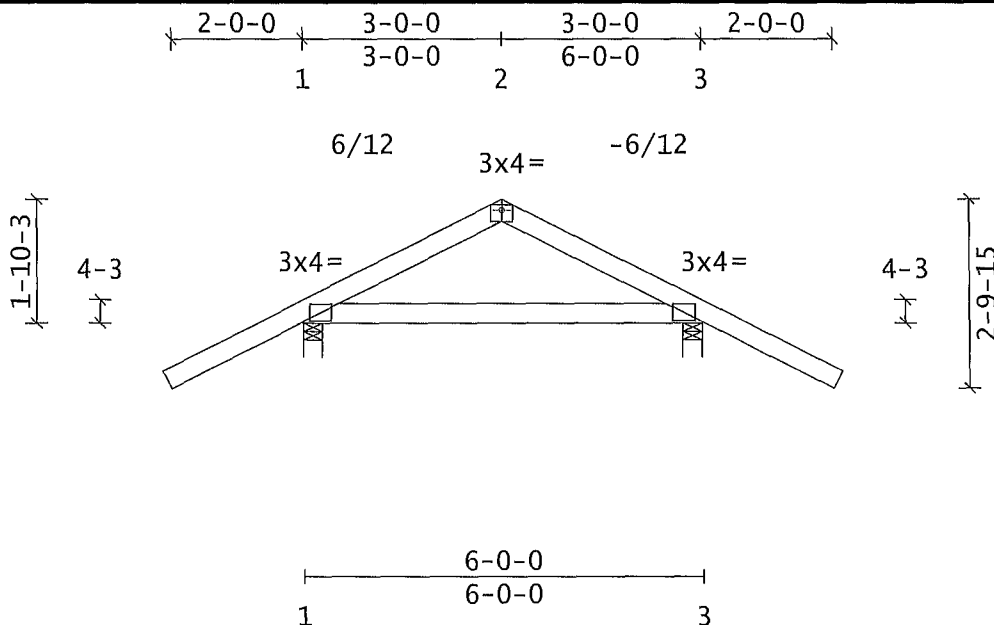
SID 0002947350

TID 235539

Date 06/07/24

Page 1 of 1

Truss Mfr Contact Chris Wallington



Truss Weight = 25.8 lb

Code/Design FBC-2023/TPI-2014
PSF Live Dead Dur Factors
TC 20 0 10 0 Live Wind Snow
BC 0 0 10 0 Lum 1 25 1 60 N/A
Total 40 0 Plt 1 25 1 60 N/A
Spacing 2 00-00 o c Plies 1
Repetitive Member Increase Yes
Green Lumber No Wet Service No
Fab Tolerance 20% Creep (Kcr) = 2.0
OH Soffit Load 2.0 psf

-----Snow Load Specs-----
ASCE7-22 Ground Snow(Pg) = N/A
Risk Cat II Terrain Cat C
Roof Exposure Sheltered
Thermal Condition All Others(1 0)
Unobstructed Slippery Roof No
Low Slope Minimums(Pfmin) No
Unbalanced Snow Loads No
Rain Surcharge No Ice Dam Chk No

-----Wind Load Specs-----
ASCE7-22 Wind Speed(V) = 140 mph
Risk Cat II Exposure Cat C
Bldg Dims L = 97.2 ft B = 78.3 ft
M R H(h) = 25.0 ft Kzt = 1.0
Bldg Enclosure Enclosed
Wind DL(psf) TC = 5.0 BC = 5.0
End Vertical Exposed L = Yes R = Yes
Wind Uplift Reporting ASCE7 MMFRS
Hurricane Prone Region
C&C End Zone 7-10-00

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL Yes
20 psf BC Limited Storage Yes
200 lb BC Accessible Ceiling Yes
300 lb TC Maintenance Load Yes
2000 lb TC Safe Load No
Unbalanced TCIL Yes

Material Summary

TC 2x4 SP (ALSC6-2013) #1
BC 2x4 SP (ALSC6-2013) #1

Member Forces Summary

Max CSI in TC PANEL 1 - 1 0.53
Max CSI in BC PANEL 1 - 3 0.24

Mem	Ten	Comp	CSI
TC OH- 1	117	0	0.53
1- 2	173	286	0.23
2- 3	173	286	0.23
3-OH	117	0	0.50
BC 1- 3	235	23	0.24

Reaction Summary

-----Reaction Summary(Lbs)-----
Jnt --X-Loc- React -Up- --Width- --Reqd Mat PSI
1 01-12 454 147 03-08 01-08 SPF 531
3 5-10-04 454 147 03-08 01-08 SPF 531
Max Horiz = -48 / +48 at Joint 1

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [3-00-00] using a 1.00 Full and 0.00 Reduced load factor

See Loadcase Report for load combinations and additional details

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints
Lumber and plating have been applied symmetrically

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0.02)	1- 3
Vert DL	L/120	L/999(-0.01)	1- 3
Vert CR	L/180	L/999(-0.04)	1- 3
Horz LL	0.75in	(0.01)	@Jt 1
Horz CR	1.25in	(0.01)	@Jt 1
Ohng CR	2L/180	2L/692(0.07)	1- 1
Ohng CR	2L/180	2L/692(0.07)	3- 3

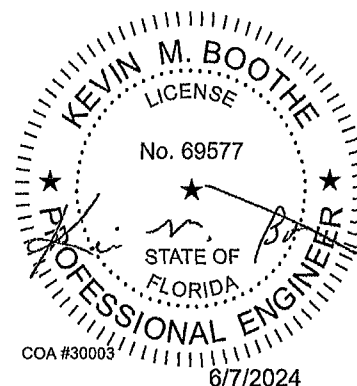
Bracing Data Summary

-----Bracing Data-----
Chords Sheathing required or bracing indicated

-----Purlins-----
--oc-- --From-- --To-- #Bays
TC 5-08-00 -2-01-09 8-01-09 3
BC 6-00-00 0 6-00-00 1
Web Bracing -- None

Plate offsets (X, Y):

(None unless indicated below)
Jnt2(0, -00-09)



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Component Solutions
Truss Studio V
2023.9.2.1

This detail provides minimum connection requirements between a cap truss and a base truss of a piggyback assembly for assemblies that meet the following conditions and design requirements

- the cap truss has continuous bearing or bearings at 2' o c max ,
- the cap truss contains vertical web members at 4' o c. max,
- the cap trusses are spaced no greater than 24" o c.,
- the pitch does not exceed 12/12,
- the cap truss span does not exceed 100', for spans > 36', see Table 2 Footnote 5
- the cap truss supports no point loads or drag loads (see detail TD-CPS-0002 for drag load connection requirements)

Design Requirements:

Max Wind Speed 140 mph (nominal) Load Duration Factor 1 6
Max Mean Roof Height 30' Lumber SPF or Better
Exp Category B or C (Min SG = 0 42)

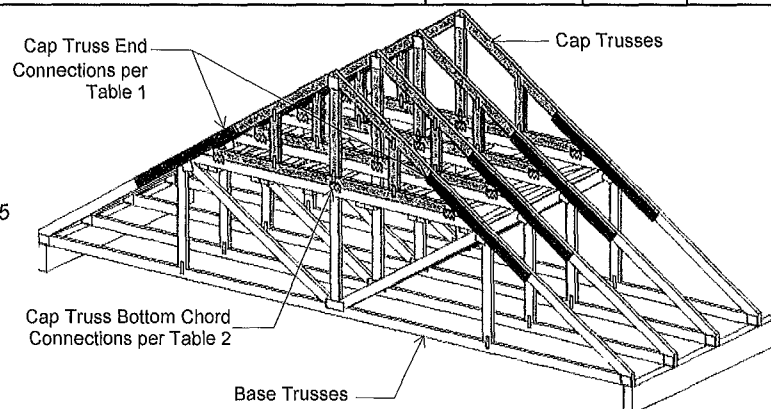


TABLE 1 - Connection Requirements At Each End of Cap Truss (One Face Only)

Cap Truss Span	Max. Wind Speed (mph)		End Connection Options	Fasteners ¹
	Nominal	Ultimate		
Up to 18'	100	125	Sheathing - See Note 2	---
	140	180	4' 2x Scab LSTA18 or CS20 Strap	16-10d nails 14-10dx1 5 nails
18' < Span ≤ 100'	120	150	4' 2x Scab	16-10d nails
	130	160	LSTA18 or CS20 Strap	14-10dx1 5 nails
	140	180	6' 2x Scab	24-10d nails
			LSTA30 or CS18 Strap	10-SDS 1/4x3 20-10dx1 5

See footnotes below

TABLE 2 - Connection Requirements Along Cap Truss Bottom Chord

Condition	Max Wind Speed (mph)		Connection Options Along BC	Fasteners
	Nominal	Ultimate		
With 1 5' Gap (See Fig 1)	140	180	Nails into purlins installed on base truss at 24" o c. (max)	Purlin-to-Base 2-10d nails (ea purlin) Cap-to-purlin 2-10d toe-nails (ea purlin)
			(3) 7"x7"x7/16" Plywood/OSB Gussets (each face)	6-6d nails per Gusset (see note 1 & 5)
			(3) LTP5 Framing Angles (one face)	8-8dx1 5 nails per LTP5 (see note 1 & 5)
No Gap (See Fig 2)	130	160	(2) LTP4 Framing Angles (one face)	12-8dx1 5 nails per LTP4 (see note 1 & 5)
	140	180	Toe-Nails @ 24" o c.	2-10d toe-nails along BC @ 24" o c
			(3) 7"x7"x7/16" Plywood/OSB Gussets (each face)	6-6d nails per Gusset (see note 1 & 5)
			(3) LTP4 Framing Angles (one face)	12-8dx1 5 nails per LTP4 (see note 1 & 5)

1 Where noted install half of the specified fasteners in each member being connected

2 An additional end connection is not required for wind speeds up to 100 mph (nominal) and cap truss spans up to 18' if the sheathing is continuous and extends at least 12' beyond the intersection

3 When using (2) connectors along the cap truss BC, install one at each end of the bottom chord when using (3) connectors, install one on each end and one in the center of the bottom chord

4 NAILS 10d=0 148" dia x3" long 10dx1 5=0 148" dia x1 1/2" long 8dx1 5=0 131" dia x1 1/2" long 6d=0 113" dia x2" long

5 For piggyback truss spans greater than 36' and less than or equal to 100' where there is a 1 5' gap between BC of cap truss and TC of base truss, attach BC of cap truss to the TC of base truss with 7"x7"x7/16" Plywood/OSB Gussets (each face) with 6-6d nails per gusset or LTP5 Framing Angles (one face) with 8-8dx1 5" nails per LTP5 under each vertical web at 4' on center Where there is no gap between BC of cap truss and TC of base truss attach BC of cap truss to the TC of base truss with 7"x7"x7/16" Plywood/OSB Gussets (each face) with 6-6d nails per gusset or LTP4 Framing Angles (one face) with 12-8dx1 5" nails per LTP4 under each vertical web at 4' on center Note spacing for vertical webs must not exceed 4' on center

Bracing for the Base Truss Flat Top Chord in a Piggyback Assembly

The flat top chords of the supporting base trusses must be adequately braced to prevent them from buckling out from under the cap trusses One option for accomplishing this is with flat 2x4 purlins in combination with diagonal bracing that gets repeated at max 10' intervals Other methods may be required as specified in the Construction Documents See BCSI-B3 for additional information

Base Trusses

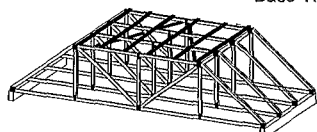


Figure 1 - Typical Piggyback Assembly with 1 1/2" Gap Between Cap and Base

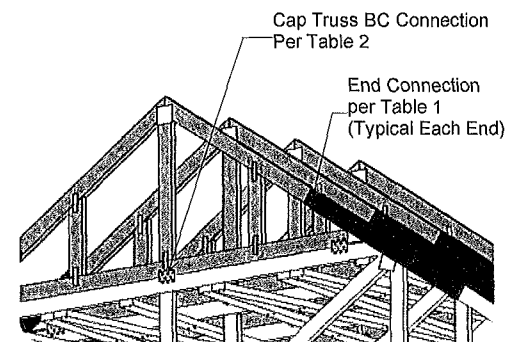
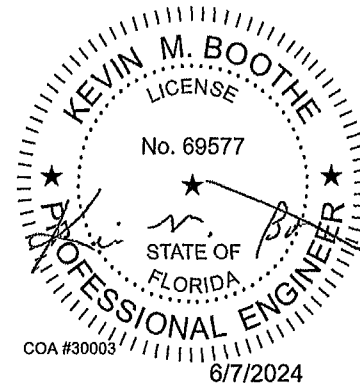


Figure 2 - Typical Piggyback Assembly with No Gap Between Cap and Base



This detail provides minimum connection requirements between a cap truss and a base truss of a piggyback assembly to resist drag loads. This detail applies to assemblies that meet the following conditions and design requirements:

- the cap truss has continuous bearing or bearings at 2' o c max ,
- the cap truss contains vertical web members at 4' o c max,
- the cap trusses are spaced no greater than 24" o c ,
- the pitch does not exceed 12/12,
- the cap truss span does not exceed 36',
- the cap truss is not a mono truss ,

Design Requirements:

Load Duration Factor 1.6

Lumber SPF or Better (Min SG = 0.42)

See also TD-CPS-0001D for connection requirements for wind loads. The piggyback connections must satisfy both the drag load and wind load requirements.

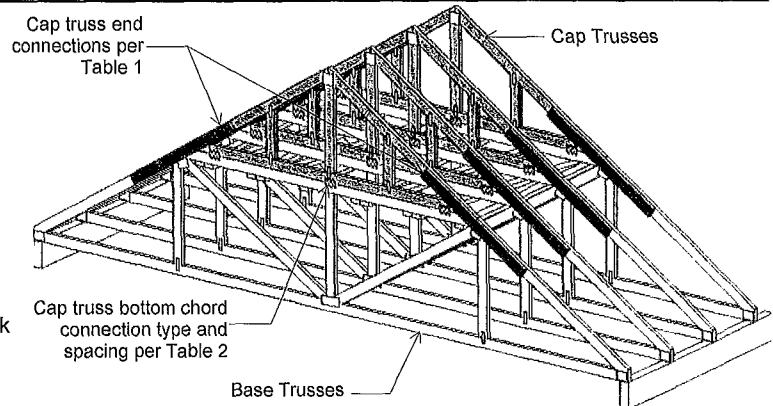


Table 1 - Maximum Cap Truss Span Based on Cap Truss End Connections

Max. Drag Load (plf)	End Connection Type									
	LSTA18 or CS20 with 14-10dx1.5		4' 2x Scab with 16-10d		6' 2x Scab with 10-SDS1/4x3		LSTA30 or CS18 with 20-10dx1.5		6' 2x Scab with 24-10d	
	One Face	Both Faces	One Face	Both Faces	One Face	Both Faces	One Face	Both Faces	One Face	Both Faces
100	18'	36'	24'	36'	24'	36'	24'	36'	36'	36'
200	9'	18'	12'	24'	12'	24'	12'	24'	18'	36'
400	--	9'	--	12'	--	12'	--	12'	9'	18'
600	--	--	--	--	--	9'	--	9'	--	12'
700	--	--	--	--	--	--	--	--	--	9'

1. Install half of the specified fasteners in each member being connected

2. NAILS 10d = 0.148 dia x 3" long 10d x 1.5 = 0.148 dia x 1 1/2" long

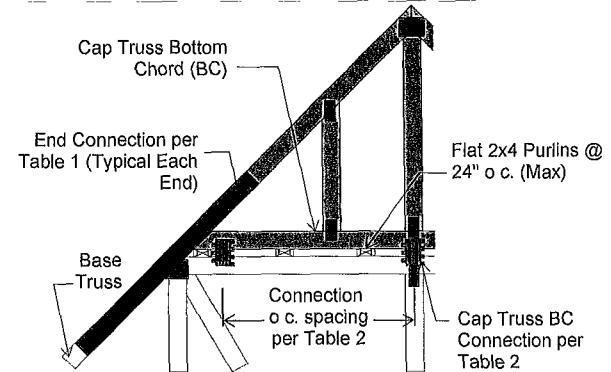


Figure 1 - Typical Piggyback Assembly with 1 1/2" Gap Between Cap and Base

Table 2 - Maximum On-Center Spacing of Connections Along Cap Truss BC

Max. Drag Load (plf)	Connection Type					
	1.5" Gap Between Cap & Base Truss (See Figure 1)			No Gap Between Cap Base Truss (See Figure 2)		
	2-10d Toe-nails into Purlins on Base Truss ¹	7"x7"x7/16" Plywood/OSB with 6-6d (ea face) ^{2,3}	LTP5 with 8-8dx1.5 (ea face) ^{2,3}	2-10d Toe-nails	7"x7"x7/16" Plywood/OSB with 6-6d (ea face) ^{2,3}	LTP4 with 12-8dx1.5 (ea face) ^{2,3}
100	2' o c	3'-6" o c.	6' o c	2' o c	3'-6" o c.	9' o c
200	--	2' o c	3' o c	--	2' o c	5' o c
400	--	1' o c	1'-6" o c	--	1' o c	2'-6" o c
600	--	--	1' o c	--	--	1'-6" o c
700	--	--	1' o c	--	--	1'-6" o c

1. Purlins must be fastened to the base truss (at 24" o c. max) with min 2-10d nails (each purlin)

2. Install half of the specified fasteners in each member being connected

3. Connections shall be staggered on the opposite face

4. NAILS 10d = 0.148 dia x 3" long 8dx1.5 = 0.131" dia x 1 1/2" long 6d = 0.113 dia x 2" long

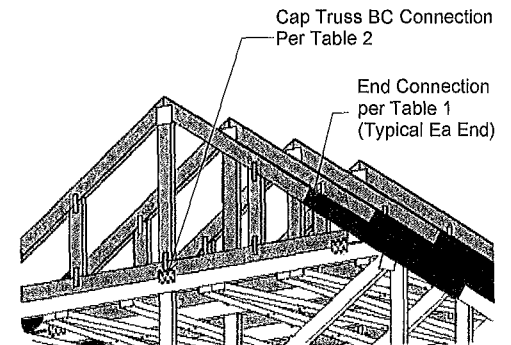
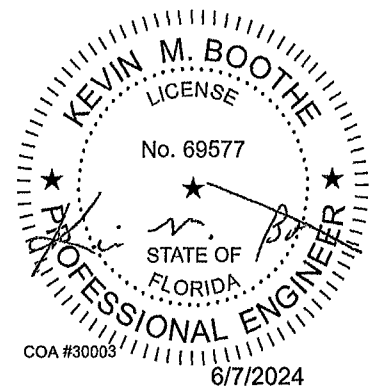
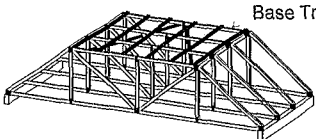


Figure 2 - Typical Piggyback Assembly with No Gap Between Cap and Base

Bracing for the Base Truss Flat Top Chord in a Piggyback Assembly

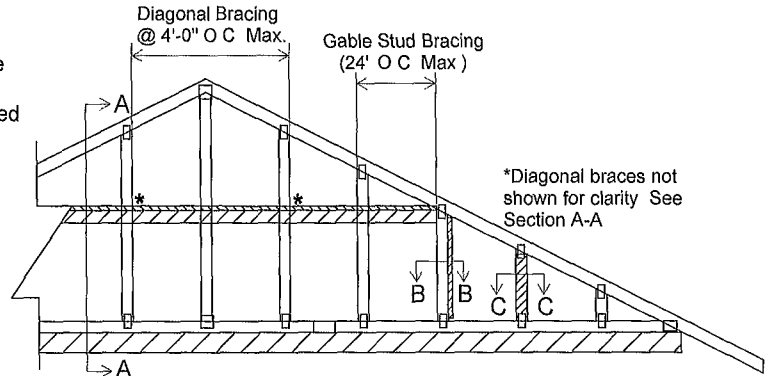
The flat top chords of the supporting base trusses must be adequately braced to prevent them from buckling out from under the cap trusses. One option for accomplishing this is with flat 2x4 purlins in combination with diagonal bracing that gets repeated at max 10' intervals. Other methods may be required as specified in the Construction Documents. See BCSI-B3 for additional information.

Base Trusses



NOTES:

- 1 This detail provides bracing/reinforcement options for the gable studs to resist the out-of-plane wind loading. Refer to the individual truss design drawing for bracing/reinforcement requirements for resisting the vertical (in-plane) loads assumed in the design of the gable end frame. Additional bracing/reinforcement at the end of the building and/or at the gable end wall may be required. Refer to the Building Designer/Construction Documents for all gable end frame and roof system bracing requirements. For additional information, see BCSI-B3.
- 2 This detail does not apply to structural gables.
- 3 Connection requirements between the gable end frame and the wall to be specified by the Building Designer.
- 4 The gable end frame must match the profile of the adjacent trusses. Do not use a gable end frame with a flat bottom chord next to trusses with sloped bottom chords, such as scissor or vaulted trusses.



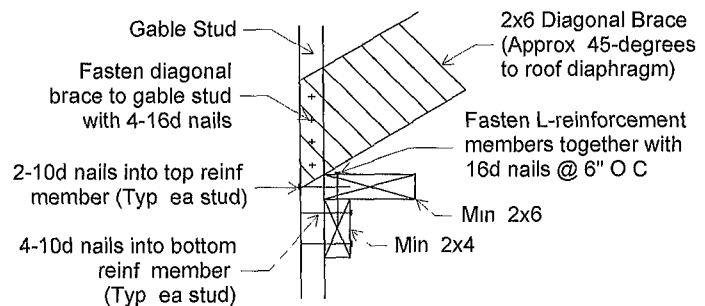
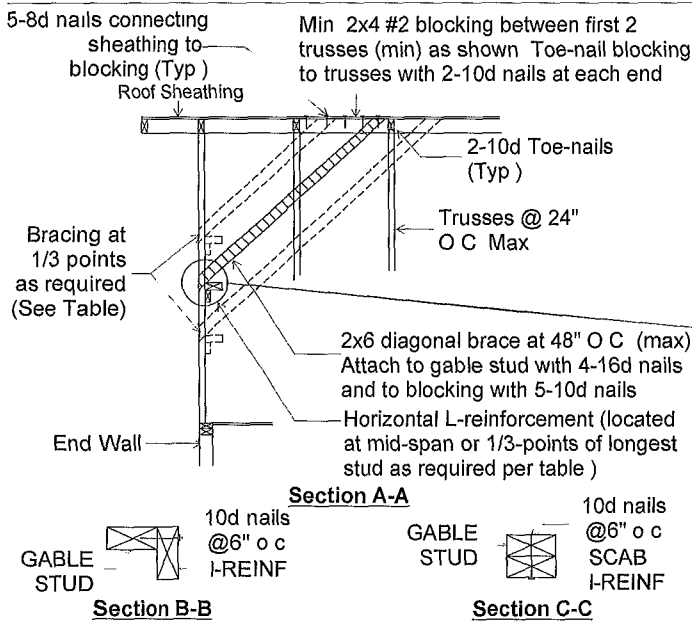
GABLE END WITH STUD BRACING/REINFORCEMENT

MINIMUM GABLE STUD SIZE, SPECIES & GRADE	MAX. GABLE STUD SPACING	WITHOUT BRACE	L-REINFORCEMENT ¹	SCAB REINFORCEMENT ¹	DIAGONAL BRACING @ MID-SPAN ²	DIAGONAL BRACING @ 1/3 POINTS ²
		MAXIMUM STUD LENGTH ³				
2X4 SPF STUD or STANDARD	12" O.C.	4-6-0	7-11-4	9-0-4	9-0-4	13-6-8
	16" O.C.	4-1-0	7-0-4	8-2-4	8-2-4	12-3-8
	24" O.C.	3-5-8	5-8-12	6-11-0	6-11-0	10-4-8

DETAIL LIMITATIONS:

Max. Mean Roof Height: 30'
Category II
Exposure B or C
Load Duration Factor: 1.6
Wind Speed: 110 mph Nominal
(140 mph Ultimate)

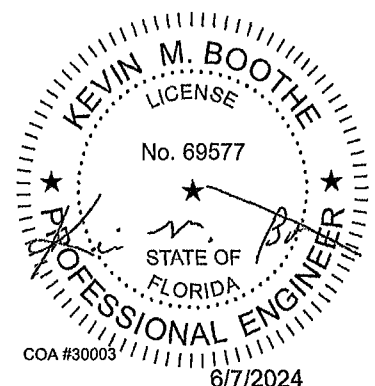
- 1 L- and Scab Reinforcements shall be minimum 2x4 stud grade and must be a minimum of 90% of the gable stud length. Fasten the reinforcement member to the gable stud with 10d nails @ 6" o.c.
- 2 Attach horizontal reinforcing member at mid-span (or 1/3 points as required) of the longest stud and install diagonal bracing @ 4' o.c. (max) as shown in Section A-A.
- 3 Tabulated maximum stud lengths are based on components and cladding wind pressures using the wind design parameters listed in the detail limitations. Gable stud deflection criteria is L/240.




NOTE: Diagonal braces over 6'-3" require a 2x4 T-brace attached to one narrow edge. Diagonal braces over 12'-6" require 2x4s attached on both narrow edges. The braces must cover 90% of the diagonal brace and shall be fastened to the narrow edge with 10d nails at 6" o.c. (min 3" end distance). When attached on both narrow edges, stagger the nails on each side by 3".

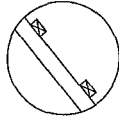
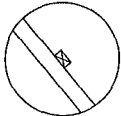
Nail Dimension

16d = 3 5/8" x 0 162"
10d = 3" x 0 148"
8d = 2 5/8" x 0 131"



NOTES:

- 1 This detail provides web reinforcement options that may be used as an alternative to continuous lateral restraint (CLR) when installing CLRs in combination with diagonal bracing is not practical or desired
- 2 Refer to the truss design drawing for web lateral restraint requirements. A  on the truss design drawing indicates that continuous lateral restraint is required at the locations shown (either at the midpoint or 1/3-points of the web member). Refer to the tables below for acceptable web reinforcement options that may be used in place of one or two rows of CLR.
- 3 T-, L-, I- and scab web reinforcements must be the same or better species and grade of the web member as indicated on the truss design drawing
- 4 All reinforcements must extend to within 6" of each end of the web member
- 5 This detail does not apply to single-ply webs that exceed 14' in length



1 Row of CLR @ Web Mid-point 2 Rows of CLRs @ Web 1/3 points

WEB REINFORCEMENT OPTIONS FOR SINGLE-PLY TRUSSES ¹						
Specified Web Member Lateral Restraint (CLRs)	Web Member Size	Acceptable Web Reinforcement Substitutions - Type & Size				Reinforcement-to-Web Connection Requirements
		T-	L-	Scab	I-	
1 Row @ Mid-point	2x4	2x4	2x4	2x4	---	16d gun nails @ 6" on-center
	2x6	2x6	2x6	2x6	---	
	2x8	2x8	2x8	2x8	---	
2 Row @ 1/3-points	2x4	No substitutions allowed			2-2x4	
	2x6				2-2x6	
	2x8				2-2x8	

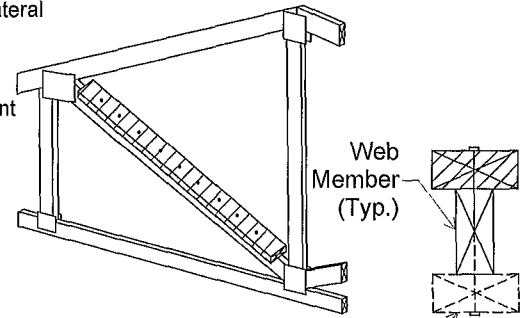
WEB REINFORCEMENT OPTIONS FOR 2-PLY TRUSSES ²						
Specified Web Member Lateral Restraint (CLRs)	Web Member Size	Acceptable Web Reinforcement Substitutions - Type & Size				Reinforcement-to-Web Connection Requirements
		T-	L-	Scab	I-	
1 Row @ Mid-point	2x4	2x4	2x4	---	---	16d gun nails @ 6" on-center
	2x6	2x6	2x6	---	---	
	2x8	2x8	2x8	---	---	
2 Row @ 1/3-points	2x4	No substitutions allowed			2-2x4	
	2x6				2-2x6	
	2x8				2-2x8	

- 1 The maximum allowable web length for single-ply trusses is 14'
- 2 For 2-ply trusses, the reinforcement must be nailed to both plies of the web with the nailing pattern specified in the table
- 3 For the scab reinforcement, 2 rows of 10d gun nails @ 6" o c may be used in place of 16d gun nails for attaching the reinforcement to the web
- 4 For I-reinforcement, attach each 2x member to opposite edges of the web using the nailing pattern specified in the table

Nail Dimension

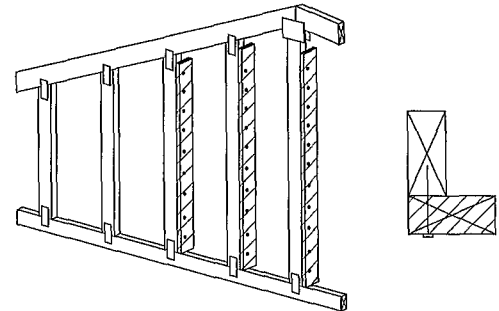
16d = 3 5" x 0 131"

10d = 3" x 0 120"

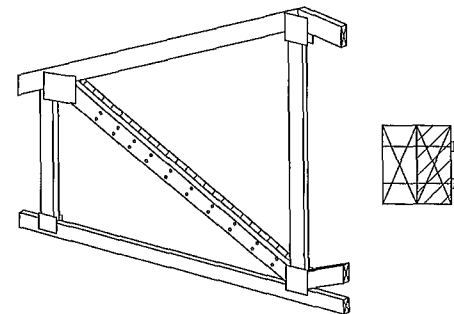


Add member to both edges for I-Reinforcement

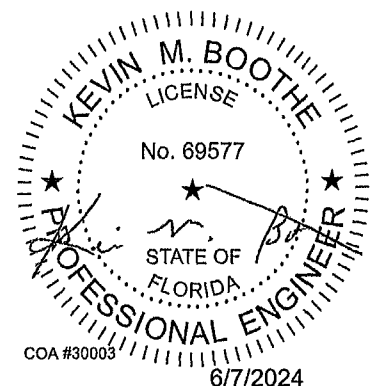
T-Reinforcement
(I-Reinforcement similar)



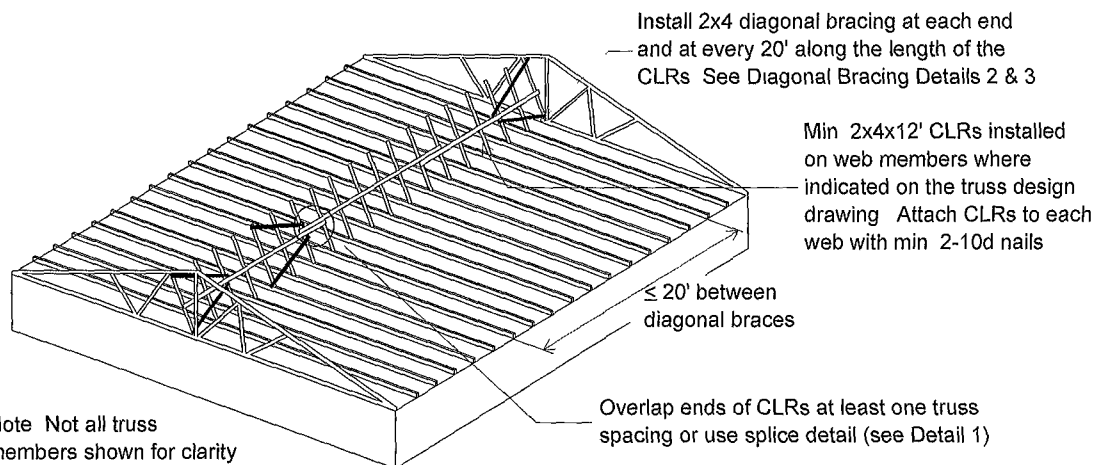
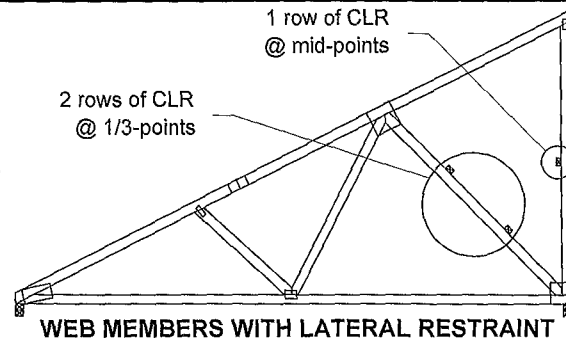
L-Reinforcement



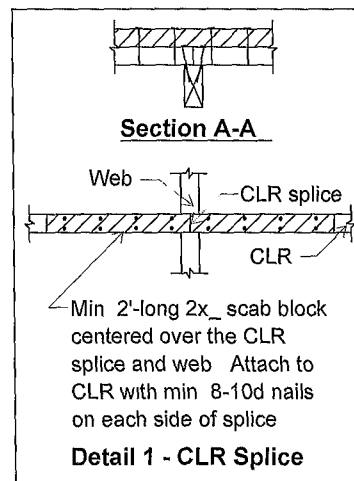
Scab Reinforcement



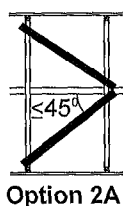
This detail provides information for laterally restraining and bracing web members to prevent lateral buckling using continuous lateral restraints (CLRs) in combination with diagonal bracing. In addition to the CLRs indicated on the truss design drawing, diagonal bracing must be installed as indicated in this detail and BCSI-B3. See WEBREINFORCE for web reinforcement options that may be used as an alternative to this detail when installing CLRs and diagonal bracing is not practical or desired. Properly attached full-length sheathing satisfies (may replace) any bracing requirements specified for end vertical webs. Refer to the Construction Documents for additional bracing requirements. For trusses with spacing greater than 2' o.c., refer to BCSI-B10.



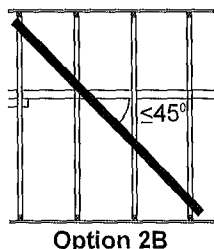
Note: Not all truss members shown for clarity.



For webs with one row of CLRs, diagonal bracing shall be installed using Option 2A or 2B. Attach diagonal braces to each truss with min 2-10d nails.



Option 2A



Option 2B

Detail 2 - Diagonal Bracing for 1 Row of CLRs

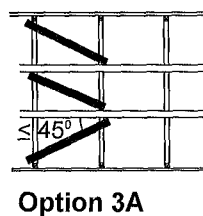
DETAIL LIMITATIONS:

- 1 Restraint and Bracing Material min 2x4 stress graded lumber
- 2 This detail does not address permanent building stability bracing to resist lateral forces acting on the building
- 3 This detail shall not supersede any project-specific truss member permanent bracing design for the roof framing structural system
- 4 This detail is not applicable for trusses with spacing greater than 2' o.c.

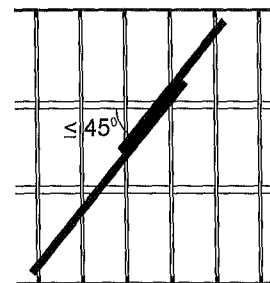
Nail Dimensions:

10d = 3" x 0.128"

For webs with 2 rows of CLRs, diagonal bracing shall be installed using Option 3A or 3B. Attach diagonal braces to each truss with min 2-10d nails.



Option 3A



Option 3B

Detail 3 - Diagonal Bracing for 2 Rows of CLRs

