Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483 843 209-5784, Fax (866)-213-4614

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 44170 JOB: 24-0290-R01 JOB NAME: LOT 91 PROVIDENCE CREEK Wind Code: 37 Wind Speed: Vult= 120mph Exposure Category: B Mean Roof Height (feet): 23 These truss designs comply with IRC 2015 as well as IRC 2018. *36 Truss Design(s)*

Trusses:

J01, R01, R02, R03, R04, R05, R06, R07, R07A, R08, R09, R10, R12, R13, R14, R15, R16, R17, R18, R19, V01, V02, V03, V04, V05, V06, V07, V08, V09, V10, V11, V12, V13, V14, V15, V16



Warning !--- Verify design parameters and read notes before use.

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for*





Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINHALL D	RIVE FUQUAY-VARINA, NO
24-0290-R01	R01	GABLE	1	1	Job Reference (optional)	# 44170
		F	Run: 8.430 s Feb 12	2021 Print	: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jar	n 16 14:50:35 2024 Page 2

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 14:50:35 2024 Page 2 ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-MRxUupqfhT4PAsbYeKHYglqAX2LLh1W4uUBBGLzum7o

13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINHALI	DRIVE FUQUAY-VARINA, NO
24-0290-R01	R02	Common	2	1	Job Reference (optional)	# 44170
			Run: 8.430 s Feb 12	2021 Print	: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue	Jan 16 14:50:36 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-reVs59rHSnCGo0AlC2onDzNETSZCQHQD78xlonzum7n

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



1/15/2024



Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINH	ALL DRIVE FUQUAY-VARINA, NO
24-0290-R01	R03	Common	4	1	Job Reference (optional)	# 44170
			Run: 8 430 s Feb 12	2021 Print	8 430 s Feb 12 2021 MiTek Industries Inc. 1	Lue Jan 16 14:50:37 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-Jq3EJVsvD4K7PAlxmlJ0lAvPBsvR8kpNMogIKDzum7m

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



1/15/2024



Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVIN	IHALL DRIVE FUQUAY-VARINA, NC
24-0290-R01	R04	COMMON	2	1	Job Reference (optional)	# 44170
			Run: 8 430 s Eeb 12	2021 Print	8 430 s Eeb 12 2021 MiTek Industries Inc.	Tue lan 16 14:50:38 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-n0ccWrsX_OS_1KK7JSqFIOSarGFgtB2WaSQrtfzum7I

12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Warning !---Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded

vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINH	IALL DRIVE FUQUAY-VARINA, NO
24-0290-R01	R05	COMMON	2	1	Job Reference (optional)	# 44170
			Run: 8 430 s Feb 12	2021 Print	8 430 s Feb 12 2021 MiTek Industries Inc	Tue Jan 16 14:50:38 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-n0ccWrsX_OS_1KK7JSqFIOSatGFgtBvWaSQrtfzum7I

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate
- Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



1/15/2024



Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINH	IALL DRIVE FUQUAY-VARINA, NO
24-0290-R01	R06	COMMON	4	1	Job Reference (optional)	# 44170
			Run: 8 430 s Feb 12	2021 Print	· 8 430 s Feb 12 2021 MiTek Industries Inc.	Tue Jan 16 14:50:39 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-FCA_jBt9liaqfTvJtALUrb_l5gblcftgp69PP6zum7k

- 12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate
- Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



1/15/2024



Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINHALL	DRIVE FUQUAY-VARINA, NO
24-0290-R01	R07	Common	3	1	Job Reference (optional)	# 44170
			Run: 8.430 s Feb 12	2021 Print	: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue J	an 16 14:50:39 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-FCA_jBt9liaqfTvJtALUrb_ldgWjcilgp69PP6zum7k 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



1/15/2024



of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINHAI	LL DRIVE FUQUAY-VARINA, NO
24-0290-R01	R07A	Common	7	1	Job Reference (optional)	# 44170
		Ru	n:8,430 s Feb 12	2021 Print	1: 8 430 s Feb 12 2021 MiTek Industries Inc. Tu	e Jan 16 14:50:40 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-jPkNxXunW?ihGdUWRttjNpXwO3sHL8op2mvyxYzum7j

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate
- Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

1/15/2024

TOP CHORD 14-15=-122/254, 15-16=-131/274, 16-17=-131/274, 17-18=-122/254

NOTES- (13-16)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 4-1-3, Exterior(2N) 4-1-3 to 20-0-5, Corner(3R) 20-0-5 to 29-11-11, Exterior(2N) 29-11-11 to 44-9-1, Corner(3E) 44-9-1 to 49-8-12 zone; cantilever left and right exposed; end vertical left and right
- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
- Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 30.0psi on the bottom onor a manufacture of the bottom chord and any other members, with BCDL = 10.0psf.
 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 45, 46, 47, 48, 49, 49, 40, 40, 39, 38, 36, 35, 34, 33, 32, 31.

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINH	ALL DRIVE FUQUAY-VARINA, NO
24-0290-R01	R08	GABLE	1	1	Job Reference (optional)	# 44170
		R	un: 8 430 s Feb 12	2021 Print	8 430 s Feb 12 2021 MiTek Industries Inc. T	Lue Jan 16 14:50:42 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-fns7MDw22dzPWxeuYlvBSEcNltk?pCF6V4O30Rzum7h

13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 14, 21, 22, 23, 24 , 18, 17, 16, 15.

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVIN	HALL DRIVE FUQUAY-VARINA, NC
24-0290-R01	R09	Common Supported Gable	1	1	Job Reference (optional)	# 44170
		F	Run: 8.430 s Feb 12	2021 Print	t: 8.430 s Feb 12 2021 MiTek Industries, Inc.	Tue Jan 16 14:50:43 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-8_QVZYwgpw5G75D560QQ?R9XRH33YfAFkk7cYtzum7g 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK	59 DAVINHALL DRIVE FUQUAY-VARINA, N
24-0290-R01	R10	Common	2	1	Job Reference (optional)	# 44170

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 14:50:43 2024 Page 2 ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-8_QVZYwgpw5G75D560QQ?R9NIHsrYYvFkk7cYtzum7g

LOAD CASE(S) Standard

1/15/2024

of individual web meeters only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 D	DAVINHALL DRIVE FUQUAY-VARINA, NC
24-0290-R01	R12	Common Girder	1	2	Job Reference (optional)	# 44170
			Run: 8.430 s Feb 12 ID:1EhuSsIMpTbk	2021 Print	:: 8.430 s Feb 12 2021 MiTek Industries 5hq6ypz0?-4MYF_EywLYL_NOM	s, Inc. Tue Jan 16 14:50:45 2024 Page 2 TERSu4sEp?4dz0MRYC2cjdlzum7e

NOTES- (14-17)

- 12) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-2-8 oc max. starting at 1-5-4 from the left end to 27-7-12 to connect truss(es) R07 (1 ply 2x6 SP), R07A (1 ply 2x6 SP), R06 (1 ply 2x6 SP) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-8=-60, 8-9=-60, 10-17=-20 Concentrated Loads (lb)

Vert: 15=-404(B) 11=-379(B) 10=-387(B) 29=-406(B) 30=-406(B) 31=-406(B) 32=-404(B) 33=-404(B) 34=-404(B) 36=-404(B) 38=-404(B) 39=-379(B) 36=-404(B) 36=-406(B) 36=-4 41=-379(B)

1/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK	(59 DAVINHALL DRIVE FUQUAY-VARINA, NC
24-0290-R01	R13	Common Supported Gable	1	1		# 44170
		R	un: 8.430 s Feb 1:	2 2021 Print	Job Reference (optional) t: 8.430 s Feb 12 2021 MiTek Ind	dustries, Inc. Tue Jan 16 14:50:45 2024 Page 1
		-0-10-8 2-1-8 4-1-8	ID:1EhuSsIMpT 6-1-8	bkFHTWL	.a5hq6ypz0?-4MYF_EywLY 9-1-8.	L_NOMTERSu4sEng4lp0YhYC2cjdlzum7e
		0-10-8 2-1-8 2-0-0	2-0-0	2-1-8 0)-10-8	
		4×4	_			Scale = 1:44.9
		141				
		7.00 12 4				
	ſ	3x6 🖉	3x6	1		
		3	5			
		3x6 - TT -	THE REAL	3x6		
			//		δ 7 τ	
				/7		
	7-2-6		2 //			
			Wβ ST1	// 1/1	œ	
		4 W2 \		/w/2	4-9-	
			//	/		
			j/ldj/			
			9	X		
		3x6 3x4 = 3x8	= 3x4 =	_ 3x6	II	
		2-1-8 4-1-8	6-1-8	8-3-0		
LOADING (psf)	0540000		<u> </u>		\ // C \	
TCLL (roof) 20.0	Plate Grip DOL	2-0-0 CSI. 1.15 TC 0.46	DEFL. Vert(LL)	in (le 0.01	oc) l/defl L/d 10 >999 240	PLATES GRIP MT20 244/190
Snow (Pf) 20.0 TCDL 10.0	Lumber DOL	1.15 BC 0.08	Vert(CT)	-0.01	10 >999 180	
BCLL 0.0 *	Code IRC2021/TP	YES WB 0.22 I2014 Matrix-P	Horz(CT)	-0.00	8 n/a n/a	Weight: 100 lb FT = 20%
BCDL 10.0						
TOP CHORD 2x4 SP No	0.2	BF TC	OP CHORD	Structur	al wood sheathing directly	y applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No WEBS 2x4 SP No	0.3	BC		end vert	ticals.	
OTHERS 2x4 SP No	o.3			MiTek	recommends that Stabiliz	zers and required cross bracing
				be inst	alled during truss erection	n, in accordance with Stabilizer
REACTIONS. (lb/size)	12=380/0-3-8 (min. 0-1-8),	8=380/0-3-8 (min. 0-1-8)		Installa		
Max Horz Max Unlift	12=-187(LC 12) 12=-58(I C 10) 8=-58(I C 1	1)				
Max Grav	12=500(LC 21), 8=500(LC	22)				
FORCES. (Ib) - Max. Co	mp./Max. Ten All forces 2	250 (Ib) or less except when shown.				
TOP CHORD 2-12=-48	2/441, 2-3=-164/283, 3-4=-	164/329, 4-5=-164/329, 5-6=-164/283, (6-8=-482/441			
NOTES- (12-15)						
1) Unbalanced roof live lo	bads have been considered	for this design.)nof: h=22ft: C	at II: Eva	P. Englogod: MWERS	
(envelope) gable end z	cone and C-C Corner(3E) zo	one; cantilever left and right exposed ; e	and vertical left	and right	t exposed; porch left and	
right exposed;C-C for r	members and forces & MW	FRS for reactions shown; Lumber DOL=	=1.60 plate grip	DOL=1.	60 Standard Industry	
Gable End Details as a	applicable, or consult qualifi	ed building designer as per ANSI/TPI 1				
4) TCLL: ASCE 7-16; Pr= Cat B: Partially Exp · C	:20.0 psf (roof LL: Lum DOL :e=1 0 [.] Cs=1 00 [.] Ct=1 10	_=1.15 Plate DOL=1.15); Pf=20.0 psf (L	um DOL=1.15	Plate DC)L=1.15); ls=1.0; Rough	
5) Unbalanced snow load	Is have been considered for	this design.				
o) This truss has been de non-concurrent with ot	esigned for greater of min ro	for live load of 12.0 pst or 2.00 times flat	t root load of 2	0.0 pst of	n overnangs	
7) Truss to be fully sheath	ned from one face or secure	ely braced against lateral movement (i.e	e. diagonal web	o).		
9) This truss has been de	esigned for a 10.0 psf bottor	n chord live load nonconcurrent with an	y other live loa	ıds.		WINTH CAROLUL
10) * This truss has been fit between the botton	designed for a live load of n chord and any other mem	30.0psf on the bottom chord in all areas bers.	s where a recta	ingle 3-6-	0 tall by 1-0-0 wide will	OFESSION
11) Provide mechanical c	connection (by others) of tru	ss to bearing plate capable of withstand	ding 100 lb upli	ift at joint	(s) 12, 8.	and the main and
12) Graphical bracing rep that the member mus	resentation does not depict	t the size, type or the orientation of the t	brace on the m	ember. S	symbol only indicates	SEAL
13) Bearing symbols are	only graphical representation	ons of a possible bearing condition. Bea	aring symbols a	are not co	nsidered in the	28147
14) Web bracing shown is	s for lateral support of indivi	idual web members only. Refer to BCSI	- Guide to Go	od Practio	ce for Handling,	S. S.Nour CA
Installing, Restraining	& Bracing of Metal Plate C	connected Wood Trusses for additional	bracing guidel	ines, inclu	uding diagonal bracing	ARE GINE CARE
MINIMUM BRACING	REQUIREMENTS OF TOP	CHORD, BOTTOM CHORD, AND WE	B PLANES. IN		ON TO THESE	Man K. MOHIMM
MINIMUM GUIDELIN	ES, ALWAYS CONSULT T	HE PROJECT ARCHITECT OR ENGIN	IEER FOR AD	DITIONA	L BRACING	1/15/2024
Waxning 1_Varify design	narameters and read notes b	efore use. This design is based only upon para	ameters shown a	nd is for an	individual building compose	nt to be installed and loaded
LOAD CASE(S)' Standard vertically. Applicability of	design parameters and proper in	corporation of component is responsibility of b	building designer	– not truss	s designer or truss engineer. E	Bracing shown is for lateral support
of individual web members	only. Additional temporary bra	cing to ensure stability during construction is the	he responsibility	of the erec	tor. Additional permanent bra	acing of the overall structure is the
Plate Connected Wood True	g designer. For general guidanc ss Construction and BCSI 1-03	Guide to Good Practice for Handling. Install	e, aenvery, erecti ling & Bracing of	on and bra f <i>Metal Pla</i>	cing, consult ANSI/TPL1 National Connected Wood Trusses	from Truss Plate Institute, 583
D'Onofrio Drive, Madison,	WI 53719.	,	2			

NOTES-(14-17)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 4-2-0, Corner(3R) 4-2-0 to 8-2-0, Corner(3E) 8-2-0 to 13-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
- non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 11.

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINH	ALL DRIVE FUQUAY-VARINA, NC
24-0290-R01	R14	Common Supported Gable	1	1	Job Reference (optional)	# 44170
			Run: 8.430 s Feb 12	2021 Print	: 8.430 s Feb 12 2021 MiTek Industries, Inc. T	ue Jan 16 14:50:46 2024 Page 2

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are not considered in the structural design of the truss to support the

loads indicated. 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing

 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
 OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINHALL DRIVE F	UQUAY-VARINA, NC
24-0290-R01	R15	Common Girder	1	2	Job Reference (optional) # 4	44170
		Ru	n: 8.430 s Feb 12	2021 Prin	t: 8.430 s Feb 12 2021 MiTek Industries. Inc. Tue Jan 16 14	:50:47 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-0lf0PwzAs9biciWsLrVN9HK94uNaUPZrfL5qhezum7c

- 12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 13=-574(B) 14=-568(B) 15=-568(B) 16=-568(B) 17=-568(B) 18=-568(B)

1/15/2024

1/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINI	HALL DRIVE FUQUAY-VARINA, NC
24-0290-R01	R16	Hip Girder	1	1	Job Reference (optional)	# 44170
		Run	3 430 s Feb 1	2 2021 Print	t 8 430 s Eeb 12 2021 MiTek Industries Inc.	Tue lan 16 14:50:48 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-UxDOcG_odTjZEs52vZ0ciVsKMlksDuX_u?rND4zum7b

- 12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-60, 4-6=-60, 6-9=-60, 13-17=-20

Concentrated Loads (lb)

Vert: 4=-1(B) 6=-1(B) 12=0(B) 11=0(B) 5=-1(B) 10=0(B) 21=-1(B) 22=-1(B) 23=0(B) 24=0(B)

1/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVIN	IHALL DRIVE FUQUAY-VARINA, NO
24-0290-R01	R17	Нір	1	1	Job Reference (optional)	# 44170
			Run: 8 430 s Feb 12	2021 Print	8 430 s Feb 12 2021 MiTek Industries Inc.	Tue, Jan 16 14:50:48 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-UxDOcG_odTjZEs52vZ0ciVsKklimDvL_u?rND4zum7b

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate
- Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

1/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 5	59 DAVINHALL DRIVE FUQUAY-VARINA, N
24-0290-R01	R18	Common	2	1	Job Reference (optional)	# 44170

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 14:50:49 2024 Page 2 ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-y8nmqc?ROmrQs0gETGXrFiPSZi3myNw86faxmXzum7a

LOAD CASE(S) Standard

1/15/2024

vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSL/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVIN	IHALL DRIVE FUQUAY-VARINA, NO
24-0290-R01	V01	Valley	1	1	Job Reference (optional)	# 44170
			Run: 8 430 s Eeb 12	2021 Print	· 8 430 s Eeb 12 2021 MiTek Industries Inc.	Tue lan 16 14:50:50 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-QKL81y0394zHTAFR0_24nwyhz5N2hn3HLJKUIzzum7Z

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate
- Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

1/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 59 DAVINHALL DRIV	VE FUQUAY-VARINA, NO
24-0290-R01	V02	Valley	1	1	Job Reference (optional)	# 44170
			Run: 8 430 s Feb 12	2021 Print	8 430 s Feb 12 2021 MiTek Industries Inc. Tue Jan 1	16 14:50:50 2024 Page 2

ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-QKL81y0394zHTAFR0_24nwyh_5N6hoFHLJKUIzzum7Z

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate
- Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

1/15/2024

Driv	e, Madison	, WI 53719.	

D'Onofri

Job	Truss	Truss Type	Qty	Ply	LOT 91 PROVIDENCE CREEK 5	9 DAVINHALL DRIVE FUQUAY-VARINA, N
24-0290-R01	V03	Valley	1	1	Job Reference (optional)	# 44170

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 14:50:51 2024 Page 2 ID:1EhuSsIMpTbkFHTWLa5hq6ypz0?-vWvXFH1hwO575JqdahZJK7UrmVkhQGqRaz31qPzum7Y

LOAD CASE(S) Standard

1/15/2024

LOAD CASE(S) Standard