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 #: 47947 JOB: 24-0271-R01 JOB NAME: LOT 96 PROVIDENCE CREEK Wind Code: ASCE7-16 Wind Speed: Vult= 120mph Exposure Category: B Mean Roof Height (feet): 35 These truss designs comply with IRC 2015 as well as IRC 2018. 20 Truss Design(s)

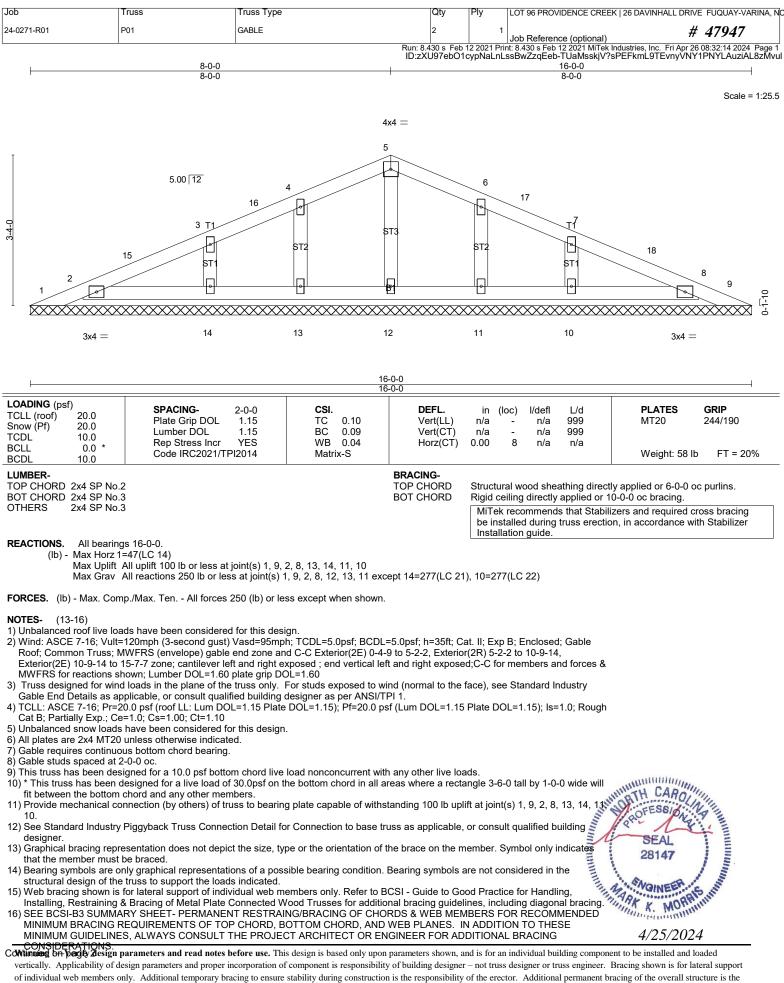
Trusses:

P01, P02, R01, R02, R03, R05, R06, R07, R08, R09, R10, V01, V02, V03, V04, V05, V06, V07, V08, V09



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



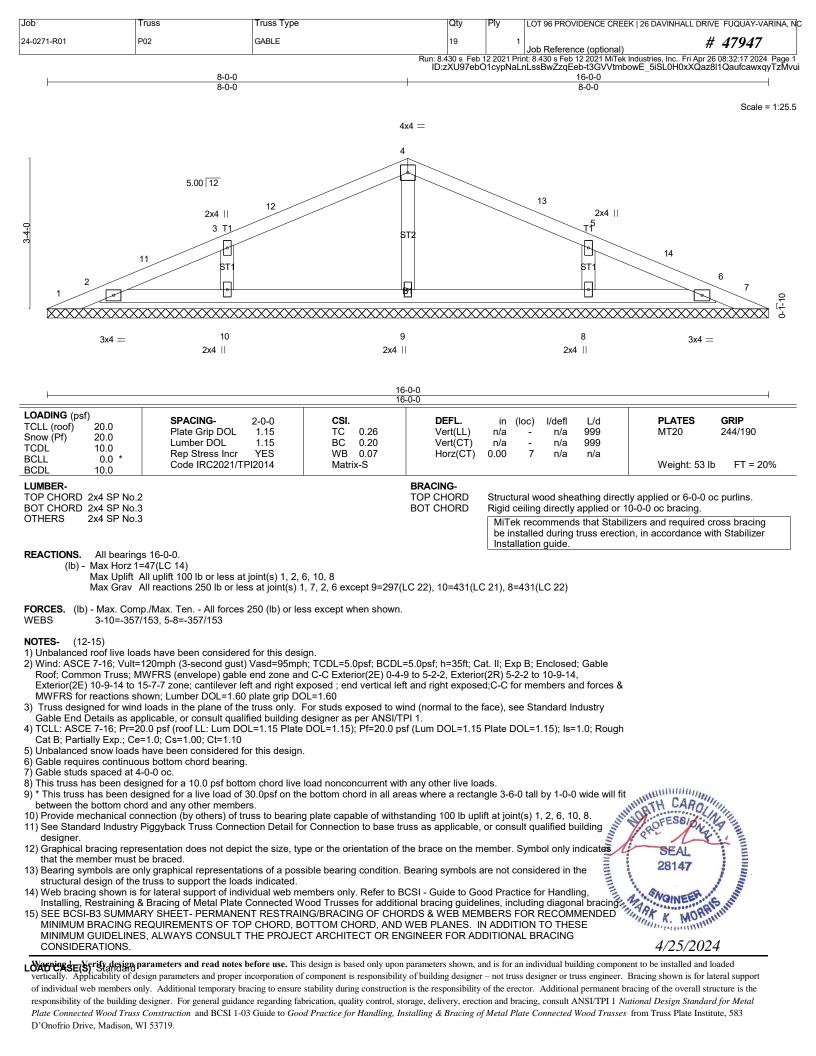
of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, 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.

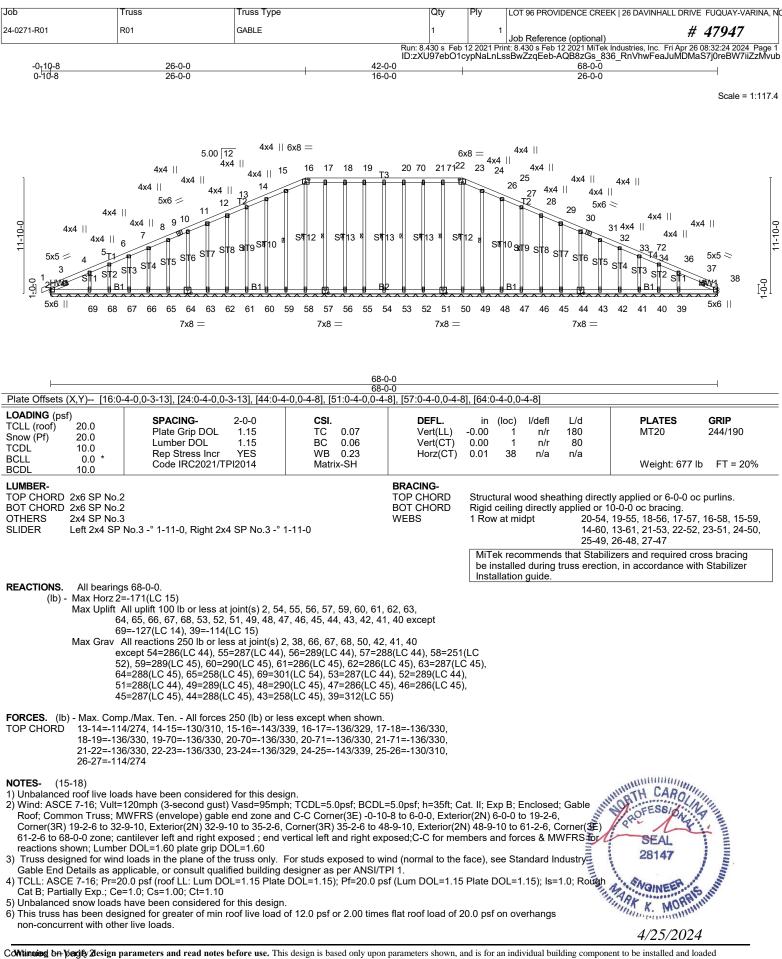
Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK 26 DAVINHALL DRIVE FUQUAY-VARINA, NC
24-0271-R01	P01	GABLE	2	1	Job Reference (optional) # 47947
					nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 26 08:32:15 2024 Page 2 hLssBwZzqEeb-xh8k4BILGI_GsPJyvs_TR?Ug7yNe6?bK6cSktbzMvuk

LOAD CASE(S) Standard



4/25/2024





Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK 26 DAVINHALL DRIVE FUQUAY-VARINA, N
24-0271-R01	R01	GABLE	1	1	Job Reference (optional) # 47947
	·				nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 26 08:32:27 2024 Page 2 BwZzqEeb-a_sHblusR_UZIFDGcOCHwW_kcnUqwNb5tUMMluzMvuY

NOTES- (15-18)

7) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

8) Provide adequate drainage to prevent water ponding.

9) All plates are 3x6 MT20 unless otherwise indicated.

10) Gable requires continuous bottom chord bearing.

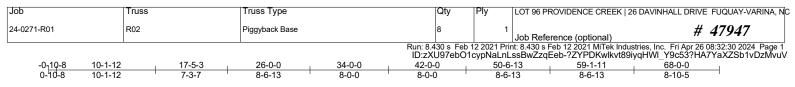
11) Gable studs spaced at 2-0-0 oc.

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

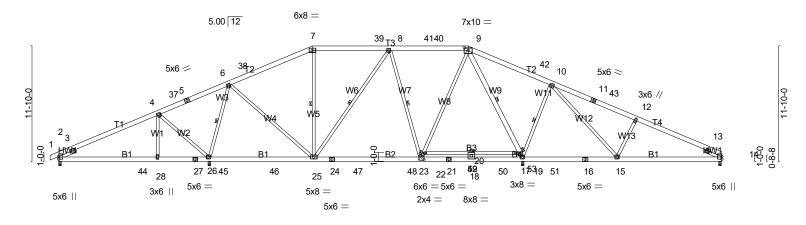
- 13) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 54, 55, 56, 57, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 53, 52, 51, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40 except (jt=lb) 69=127, 39=114.
- 15) 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.
 16) 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.
- Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 18) 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





Scale = 1:118.1



 	<u>10-1-12</u> 10-1-12	15-5-12	26-0-0		37-0-13	42-3-13	47-6-12	57-3-4 9-8-8	68-0-0	
Plate Offsets (i-0,0-3-7], [23:0-3-0,0-3-							10012	
LOADING (psf TCLL (roof) Snow (Pf) TCDL BCLL BCDL) 20.0 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2021/T	2-0-0 1.15 1.15 YES PI2014	BC WB	0.70 0.98 0.99 ĸ-MSH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.22 20-22 -0.33 20-22 0.03 17	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 528	GRIP 244/190 lb FT = 20%
LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B3: 2x4 SP No.2, B4: 2x6 SP DSS WEBS 2x4 SP No.3 *Except* W9: 2x6 SP No.2 SLIDER Left 2x4 SP No.3 -° 1-11-0, Right 2x4 SP No.3 -° 1-11-0 REACTIONS. All bearings 0-3-8.						BRACING- TOP CHORD BOT CHORD WEBS	Rigid ceiling 6-0-0 oc bra 1 Row at mi MiTek reco	directly applied or 2 acing: 19-22 dpt 6-26, 5 commends that Stabil d during truss erection	tly applied or 6-0-0 o 2-2-0 oc bracing. Ex 7-25, 8-25, 8-23, 9-1 lizers and required c on, in accordance wi	cept: 9, 10-17 ross bracing
	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-457/0, 3-4=-774/154, 6-38=-1188/278, 7-38=-1140/308, 7-39=-1052/332, 8-39=-1052/332, 8-40=-1123/281, 40-41=-1123/281, 9-41=-1123/281, 9-42=0/575, 10-42=0/326, 10-11=-539/230, 11-43=-664/213, 12-43=-768/200, 12-13=-961/208, 13-14=-470/0									
BOT CHORD	2-44=-211 45-46=-79	/638, 28-44=-211/638, 2 /458, 25-46=-79/458, 24 /1295, 23-49=0/664, 21	-25=-14/1295	, 24-47=-14/	1295, 47-4	8=-14/1295,				
WEBS	4-28=0/30 22-23=-74	7, 4-26=-781/223, 6-26= /1266, 9-22=-47/1338, 9	-19=-1918/24	1, 17-19=-19	969/212, 10)-17=-1232/339,	,			
Lumber DOI 3) TCLL: ASCE Cat B; Partia 4) Unbalanced 5) This truss ha	 NOTES- (12-15) 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=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 5-11-2, Interior(1) 5-11-2 to 19-2-6, Exterior(2R) 19-2-6 to 32-9-10, Interior(1) 32-9-10 to 35-2-6, Exterior(2R) 35-2-6 to 48-9-10, Interior(1) 48-9-10 to 61-2-6, Exterior(2E) 61-2-6 to 68-07, 20ne; 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) 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 4) Unbalanced snow loads have been considered for this design. 5) 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. 									
									4/25/202	4

Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK 26 DAVINHALL	DRIVE FUQUAY-VARINA, NC
24-0271-R01	R02	Piggyback Base	8	1	Job Reference (optional)	# 47947
					nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri / wZzqEeb-Tm6oRgxNVD??msX1rDGD5M9	

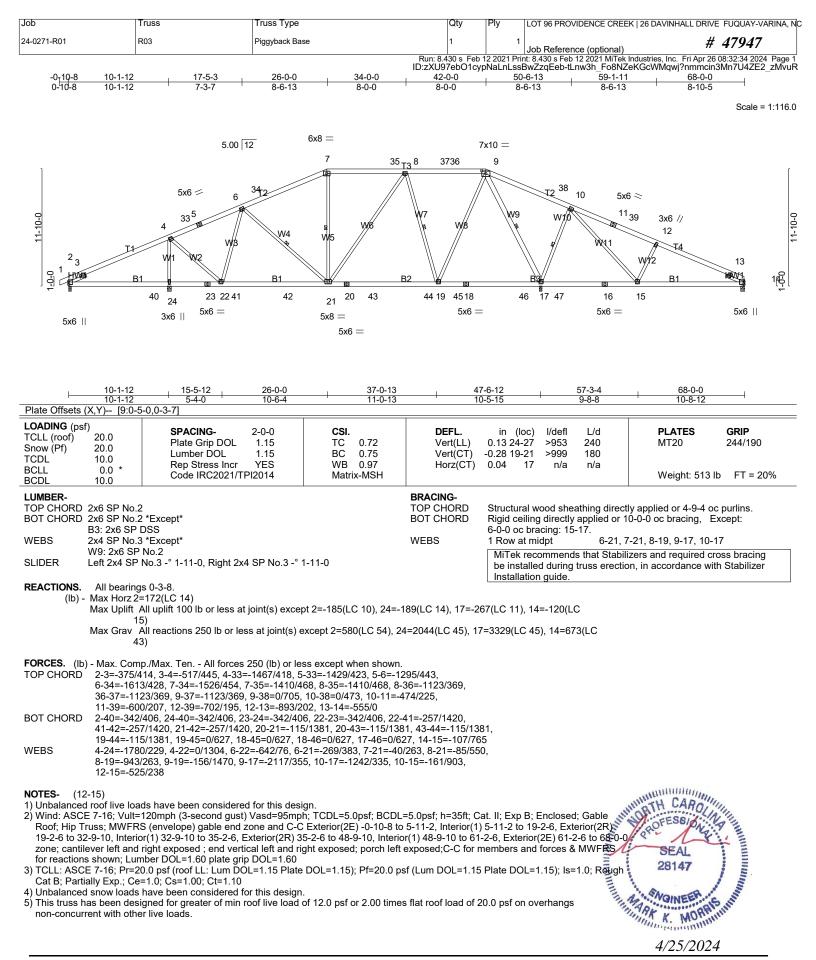
NOTES- (12-15)

- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 5x5 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2, 195 lb uplift at joint 26, 162 lb uplift at joint 17 and 121 lb uplift at joint 14.
- 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.
 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



4/25/2024



Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK 26 DAVINHALL	DRIVE FUQUAY-VARINA, NC
24-0271-R01	R03	Piggyback Base	1	1	Job Reference (optional)	# 47947
					nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri / BwZzqEeb-tLnw3h_Fo8NZeKGcWMqwj?nm	

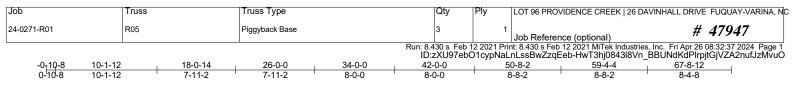
NOTES- (12-15)

- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 5x5 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 2, 189 lb uplift at joint 24, 267 lb uplift at joint 17 and 120 lb uplift at joint 14.
- 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.
 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.

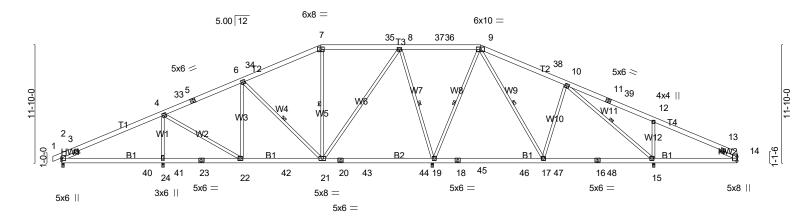
LOAD CASE(S) Standard



4/25/2024



Scale = 1:115.5



10-1-12			48-3-8 11-0-12	59-4-4	67-8-12 8-4-8
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. DE TC 0.66 Ve BC 0.72 Ve	in (loc rt(LL) 0.13 24-27 rt(CT) -0.25 19-27 rz(CT) 0.03 15	:) I/defl L/d 7 >903 240 1 >999 180	PLATES GRIP MT20 244/190 Weight: 505 lb FT = 20%
LUMBER- TOP CHORD 2x6 SP No BOT CHORD 2x6 SP No WEBS 2x4 SP No W7: 2x4 SP	o.2 o.3 *Except*	BRACIN TOP CH BOT CH WEBS	ORD Structural ORD Rigid ceilin 1 Row at r	ng directly applied or 1 midpt 6-21, 7	ly applied or 5-11-9 oc purlins. 0-0-0 oc bracing. 7-21, 8-19, 9-19, 9-17, 10-15 izers and required cross bracing
SLIDER Left 2x4 S	P No.3 -° 1-11-0, Right 2x4 SP No.3	-° 1-11-0		led during truss erection	on, in accordance with Stabilizer
(lb) - Max Horz Max Uplifi	ngs 0-3-8 except (jt=length) 14=Mec 2=174(LC 14) t All uplift 100 lb or less at joint(s) ex 15), 14=-128(LC 11) All reactions 250 lb or less at joint(15=1329(LC 45), 14=398(LC 55)	cept 2=-197(LC 10), 24=-169(LC 14		,	
TOP CHORD 2-3=-373 6-34=-88 36-37=-1 11-39=-3	mp./Max. Ten All forces 250 (lb) c 3/460, 3-4=-609/477, 4-33=-1254/39 35/367, 7-34=-735/394, 7-35=-677/4 3/372, 9-37=-13/372, 9-38=-747/37 301/393, 12-39=-403/380, 12-13=-30 7/488, 24-40=-377/488, 24-41=-377	2, 5-33=-1183/396, 5-6=-1034/419, 19, 8-35=-677/409, 8-36=-13/372, 1, 10-38=-888/340, 10-11=-220/410, 1/297, 13-14=-168/327	88		
22-42=-2 19-44=-2 14-15=-2 WEBS 4-24=-12	214/1054, 21-42=-214/1054, 20-21= 23/294, 17-47=-141/805, 16-47=-141	23/294, 20-43=-23/294, 43-44=-23/2 /805, 16-48=-141/805, 15-48=-141/8 8-21=-115/1065, 8-19=-1444/322,	94, 05,		
NOTES- (13-16) 1) Unbalanced roof live lo	bads have been considered for this of t=120mph (3-second gust) Vasd=95 RS (envelope) gable end zone and rior(1) 32-9-4 to 35-2-12, Exterior(2F er left and right exposed ; end vertic eactions shown; Lumber DOL=1.60 :20.0 psf (roof LL: Lum DOL=1.15 P ce=1.0; Cs=1.00; Ct=1.10 Is have been considered for this des esigned for greater of min roof live lo her live loads. span truss requires extreme care ar , see Guide to Good Practice for Ha CA and TPI. The building owner or t sign and inspection of the temporang ek assumes no responsibility for trus	esian.		; Enclosed; Gable o 19-2-12, Exterior(2R or(2E) 60-11-8 to C for members and =1.15); Is=1.0; Rough overhangs For general handling od Trusses ("BCSI"), ed registered design ual truss member	SEAL 28147 4/25/2024
Continuing on pege 2 esign vertically. Applicability of of individual web members	nage to prevent water ponding. parameters and read notes before use. design parameters and proper incorporation only. Additional temporary bracing to en-	This design is based only upon parameters a of component is responsibility of building ure stability during construction is the resp	shown, and is for an in g designer – not truss de onsibility of the erector	ndividual building compon- esigner or truss engineer. r. Additional permanent b	ent to be installed and loaded Bracing shown is for lateral support racing of the overall structure is the

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 96 PROVIDENCE CREEK 26 DAVINHALL DRIVE FUQUAY-V	ARINA, NC
24-0271-R01	R05	Piggyback Base	3	1	Job Reference (optional) # 47947	
					nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 26 08:32:38 2024 nLssBwZzqEeb-m61Rv31mrNt?6xZNIBustrxTbD36?AliPhXS	

NOTES- (13-16)

8) All plates are 5x5 MT20 unless otherwise indicated.

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

10) * 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.

11) Refer to girder(s) for truss to truss connections.

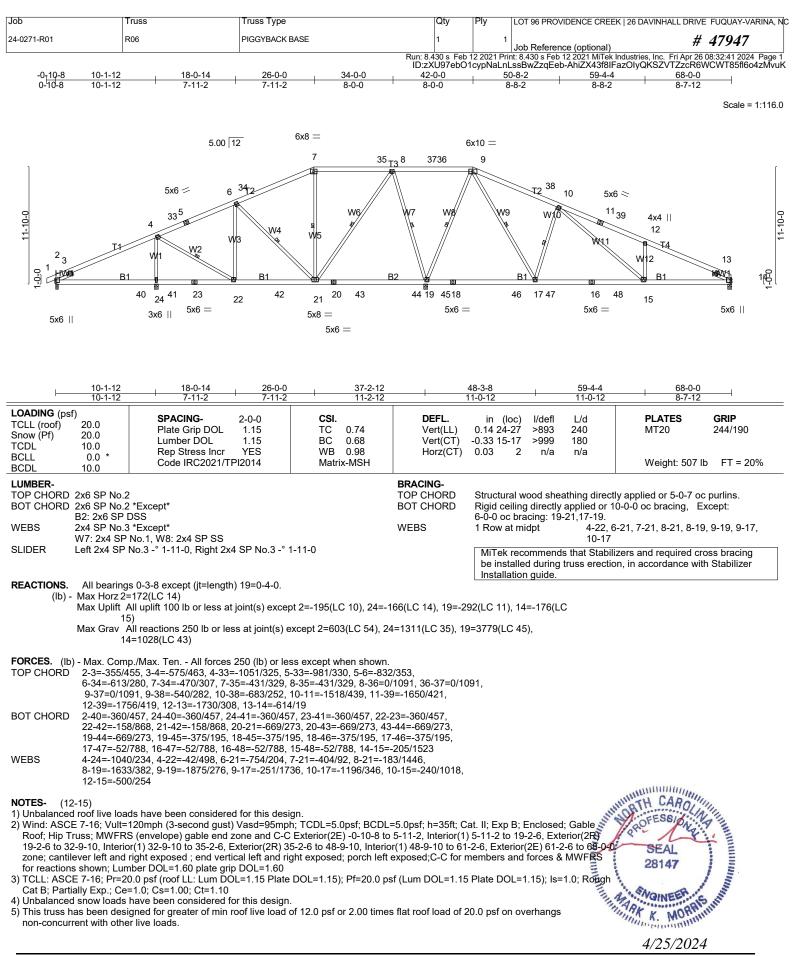
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2, 169 lb uplift at joint 24, 225 lb uplift at joint 19, 195 lb uplift at joint 15 and 128 lb uplift at joint 14.

- 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. 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



4/25/2024



Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK 26 DAVINHALL DRIVE FUQUAY-VARINA, NC
24-0271-R01	R06	PIGGYBACK BASE	1	1	Job Reference (optional) # 47947
					nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 26 08:32:42 2024 Page 2 nLssBwZzqEeb-etGykQ4HvbNRbYt8_1zo1h68LqSlxzilKJVfKXzMvuJ

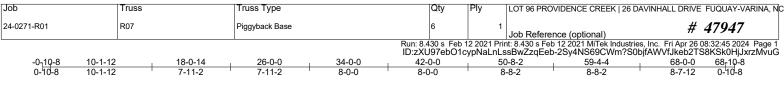
NOTES- (12-15)

- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 5x5 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 2, 166 lb uplift at joint 24, 292 lb uplift at joint 19 and 176 lb uplift at joint 14.
- 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.
 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.

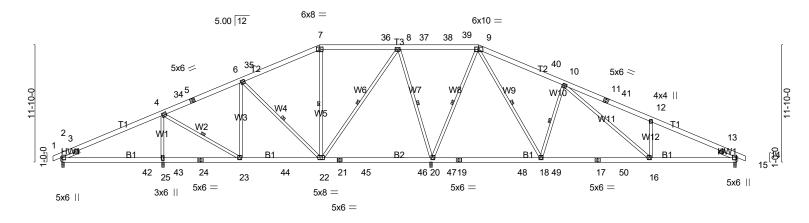
LOAD CASE(S) Standard



4/25/2024



Scale = 1:116.1



	10-1-12 10-1-12	<u>18-0-14</u> 7-11-2	26-0-0 7-11-2	37-2-12 11-2-12		48-3-8 11-0-12		59-4-4 11-0-12	<u>68-0-0</u> 8-7-12	4
LOADING (psf TCLL (roof) Snow (Pf) TCDL BCLL BCDL) 20.0 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2021/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.74 BC 0.68 WB 0.98 Matrix-MSH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.14 25-28 -0.33 16-18 0.03 2	l/defl >895 >999 n/a	L/d 240 180 n/a	PLATES GR MT20 244 Weight: 509 lb F	4/190
LUMBER- TOP CHORD BOT CHORD WEBS	2x6 SP No.2 2x6 SP No.2 B2: 2x6 SP D 2x4 SP No.3 W7: 2x4 SP N	SS	:4 SP No.3 -° 1-	11-0	BRACING- TOP CHORD BOT CHORD WEBS	Rigid ceiling 6-0-0 oc bra 1 Row at mi MiTek reco be installer	directly licing: 20- dpt ommends d during 1	applied or 1 22,18-20. 4-23, 6 10-18 s that Stabili	ly applied or 5-0-8 oc purli 0-0-0 oc bracing, Except 5-22, 7-22, 8-22, 8-20, 9-20 izers and required cross bi on, in accordance with Stal	:: 0, 9-18, racing
(lb) -	Installation guide. REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-4-0. (lb) - Max Horz 2=167(LC 14) (lb) - Max Uplift All uplift 100 lb or less at joint(s) except 2=-196(LC 10), 25=-165(LC 14), 20=-289(LC 11), 14=-194(LC 15) Max Grav All reactions 250 lb or less at joint(s) except 2=603(LC 54), 25=1313(LC 35), 20=3780(LC 45), 14=1080(LC 43)									
	FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-355/458, 3-4=-574/470, 4-34=-1053/331, 5-34=-984/336, 5-6=-834/359, 6-35=-614/285, 7-35=-470/313, 7-36=-430/334, 36-37=-430/334, 8-37=-430/334, 8-38=0/1094, 38-39=0/1094, 9-39=0/1094, 9-40=-536/285, 10-40=-679/255,									
BOT CHORD	2-42=-349/4 23-44=-155/ 20-46=-672/	9/441, 11-41=-1642/42 456, 25-42=-349/456, 2 /870, 22-44=-155/870, /280, 20-47=-377/202, 784, 17-49=-39/784, 17	25-43=-349/456 21-22=-672/28 19-47=-377/20	24-43=-349/456, 23- 0, 21-45=-672/280, 45 2, 19-48=-377/202, 18	24=-349/456, 5-46=-672/280, 3-48=-377/202,					
WEBS	4-25=-1042/ 8-20=-1633/	/234, 4-23=-43/500, 6- /383, 9-20=-1876/273,	22=-755/204, 7 9-18=-251/173	-22=-405/90, 8-22=-18 5, 10-18=-1195/346, 1	31/1448, 0-16=-239/1013,					
MWFRS for 3) TCLL: ASCE Cat B; Partia 4) Unbalanced 5) This truss ha	reactions sho E 7-16; Pr=20 ally Exp.; Ce= snow loads h	s have been considere 20mph (3-second gust (envelope) gable end (1) 32-9-10 to 35-2-6, I eft and right exposed; ; wm; Lumber DOL=1.6(0 psf (roof LL: Lum DO 1.0; Cs=1.00; Ct=1.10 nave been considered f yned for greater of min live loads.	0 plate grip DOL DL=1.15 Plate [for this design.	.=1.60 0OL=1.15); Pf=20.0 ps	sf (Lum DOL=1.15	5 Plate DOL=1	.15); ls=	; Gable prior(2R) 0-14 to forces & 1.0; Rough	SEAL 28147 4/25/2024	AND 111111111111111111111111111111111111
									4/25/2024	

Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK 26 DAVINHA	ALL DRIVE FUQUAY-VARINA, NC
24-0271-R01	R07	Piggyback Base	6	1	Job Reference (optional)	# 47947
					nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. ssBwZzqEeb-2Sy4NS69CWm?S0bjfAW\	

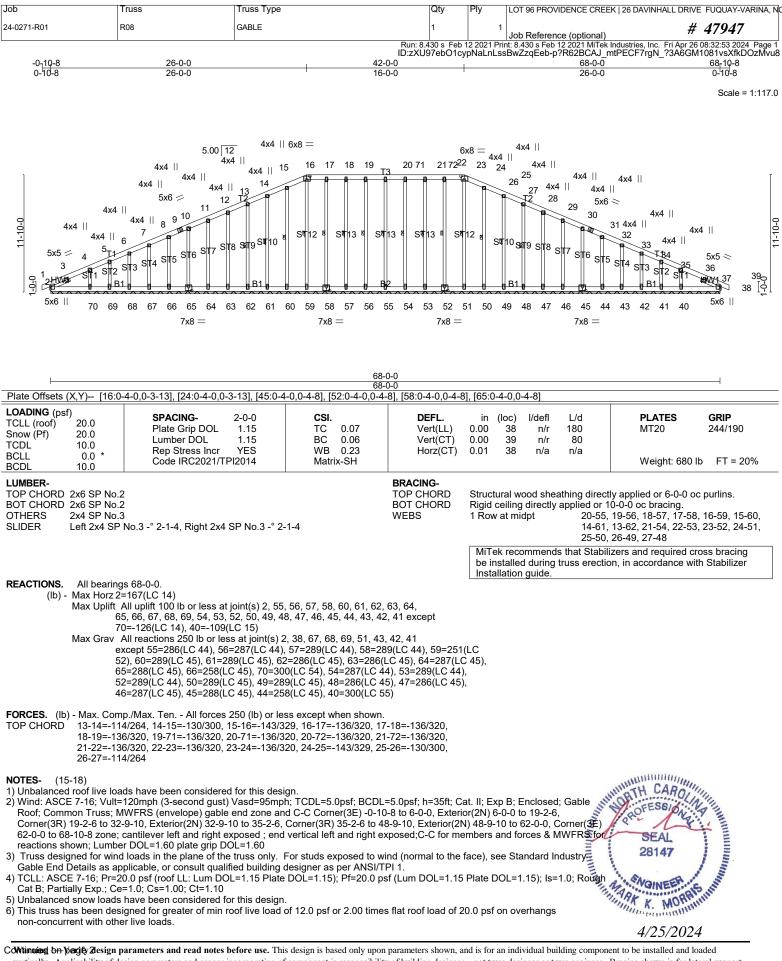
NOTES- (12-15)

- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 5x5 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 2, 165 lb uplift at joint 25, 289 lb uplift at joint 20 and 194 lb uplift at joint 14.
- 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.
 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



4/25/2024



Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK 26 DAVINHALL DR	IVE FUQUAY-VARINA, NC
24-0271-R01	R08	GABLE	1	1	Job Reference (optional)	# 47947
					nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr ssBwZzqEeb-mNZsTtERrb0bfYMeFGir3Q8Wb4	

NOTES- (15-18)

7) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.

8) Provide adequate drainage to prevent water ponding.

9) All plates are 3x6 MT20 unless otherwise indicated.

10) Gable requires continuous bottom chord bearing.

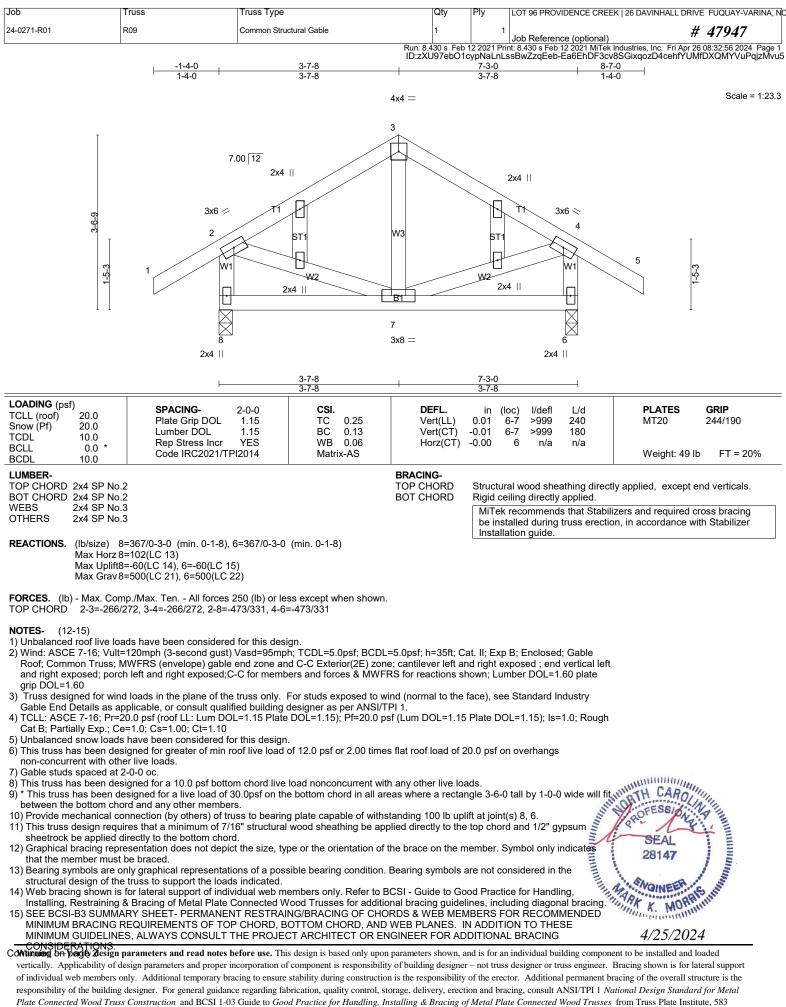
11) Gable studs spaced at 2-0-0 oc.

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

- 13) * 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.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 55, 56, 57, 58, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 54, 53, 52, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41 except (jt=lb) 70=126, 40=109.
- 15) 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.
 16) 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.
- Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 18) 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



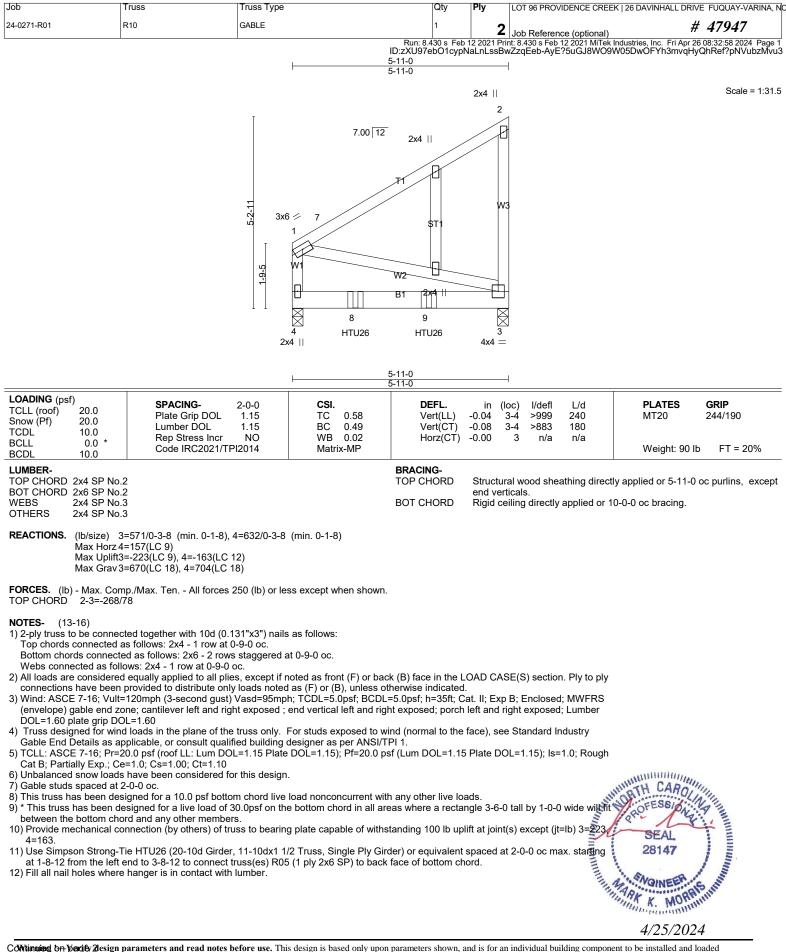


D'Onofrio Drive, Madison, WI 53719.

Job		Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK 26 DA	VINHALL DRIVE FUQUAY-VARINA, NC
24-0271-R0)1	R09	Common Structural Gable	1	1	Job Reference (optional)	# 47947
						nt: 8.430 s Feb 12 2021 MiTek Industries, LssBwZzqEeb-imgduZFhNCGlusW	

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 96 PROVIDENCE CREEK 26 DAVINH	ALL DRIVE FUQUAY-VARINA, NC
24-0271-R01	R10	GABLE	1	2	Job Reference (optional)	# 47947
Run: 8,430 s Feb 12 2021 Print: 8,430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 26 08;32:58 2024 Page 2						

ID:zXU97ebO1cypNaLnLssBwZzqEeb-AyE?5uGJ8WO9W05DwOFYh3mvqHyQhRef?pNVubzMvu3

- 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 Trusses 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.

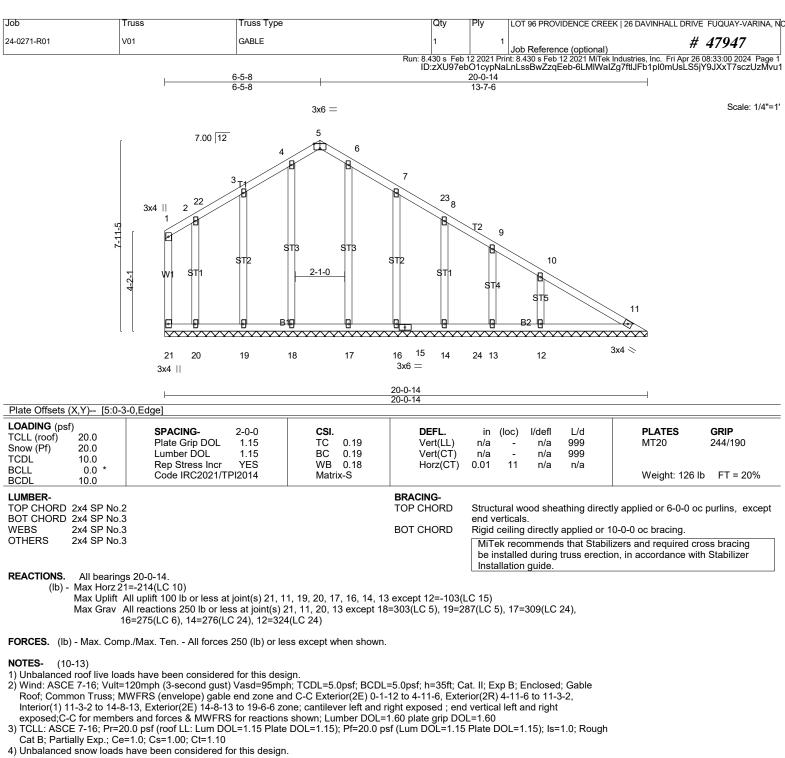
LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-60, 3-4=-20 Concentrated Loads (Ib) Vert: 8=-376(B) 9=-376(B)



4/25/2024



- All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) * 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.
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 11, 19, 20, 17, 14, 13 except (jt=lb) 12=103.
 10) 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.
 11) 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.
 12) 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.
 13) 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. CONSIDERATIONS.

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.

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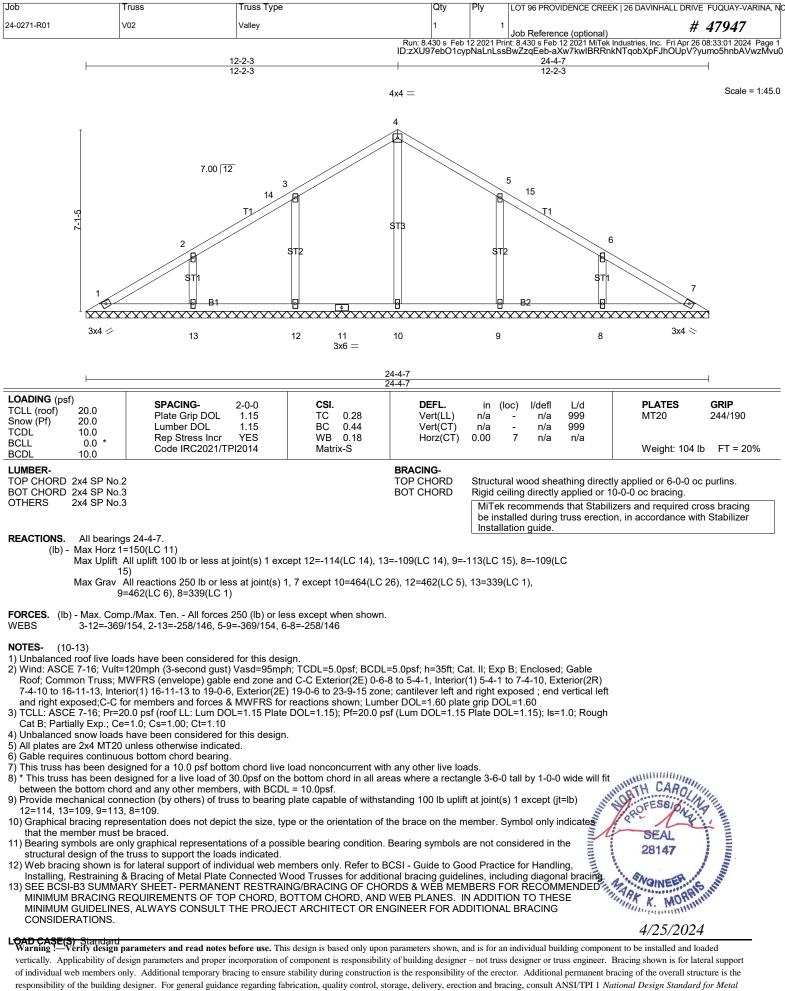


Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

