# 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.

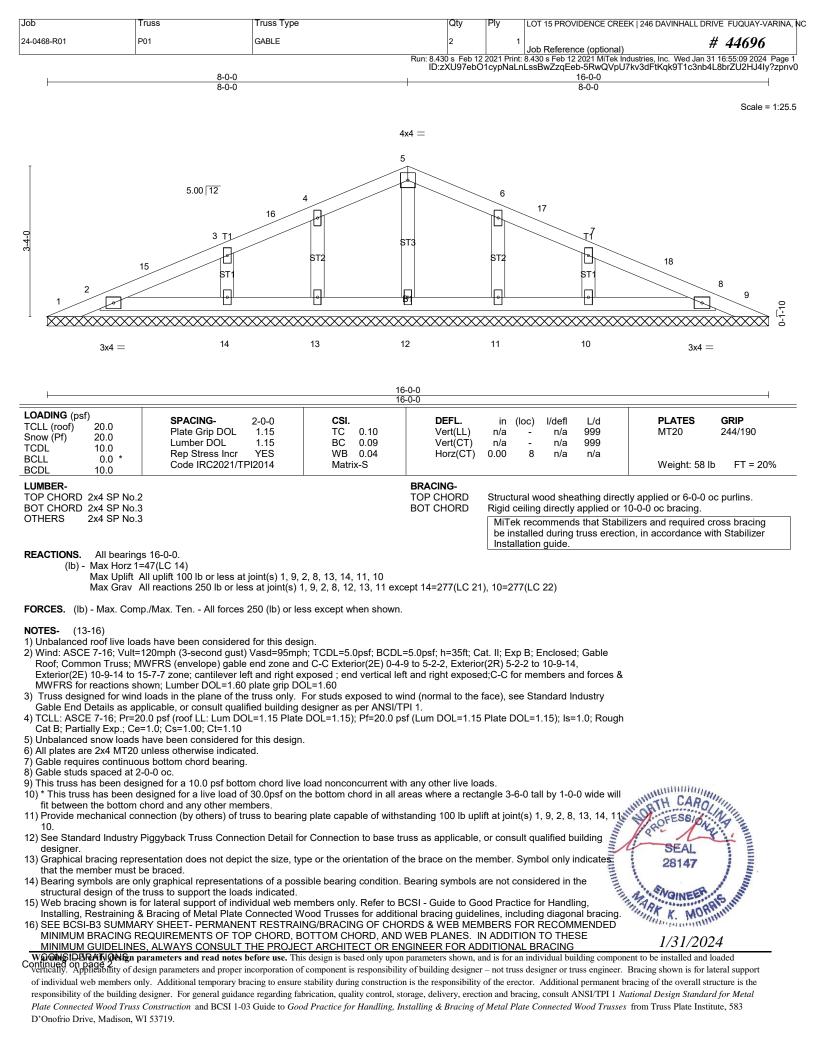
AST #: 44696 JOB: 24-0468-R01 JOB NAME: LOT 15 PROVIDENCE CREEK Wind Code: 37 Wind Speed: Vult= 120mph Exposure Category: B Mean Roof Height (feet): 35 These truss designs comply with IRC 2015 as well as IRC 2018. 20 Truss Design(s)

Trusses:

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



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



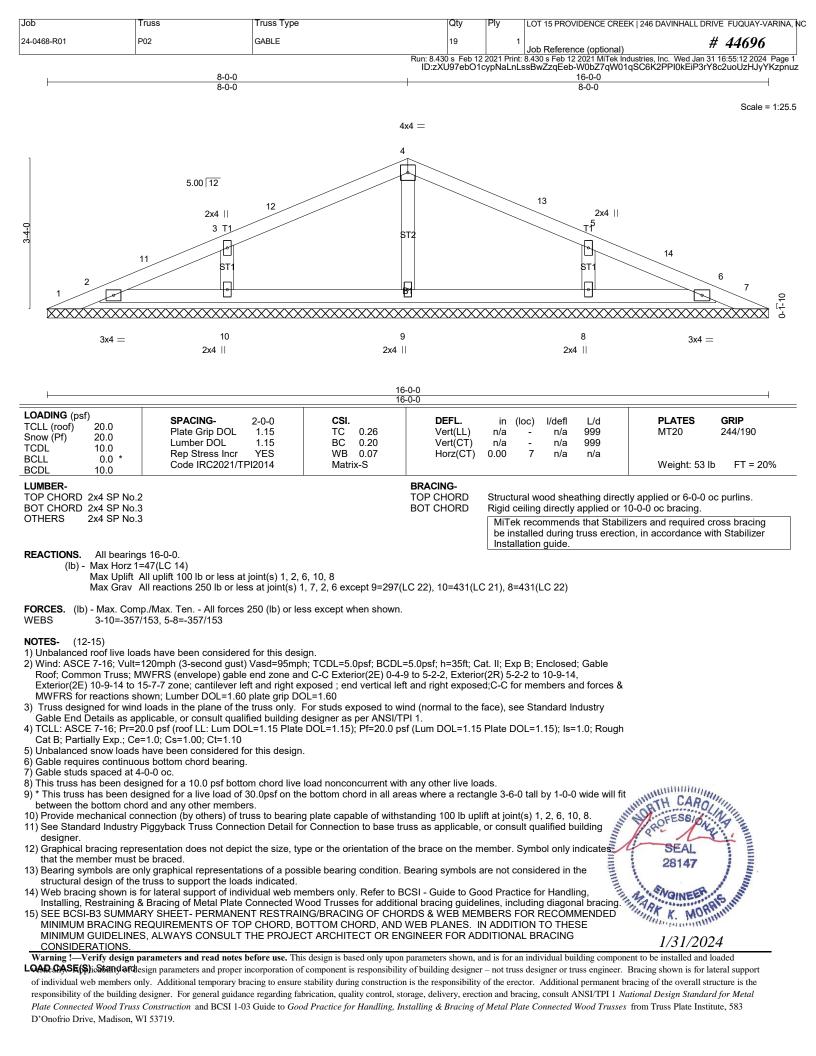
Job	Truss	Truss Type	Qty Ply	LOT 15 PRO	VIDENCE CREEK   246 DAVI	NHALL DRIVE FUQUAY-VARINA, NC
24-0468-R01	P01	GABLE	2	1 Job Referer	nce (optional)	# 44696
			Pup: 8 430 c Ech 12 202	1 Print: 8 430 c Eob 1	2 2021 MiTok Industrios Inc.	Wed Jap 31 16:55:10 2024 Page 2

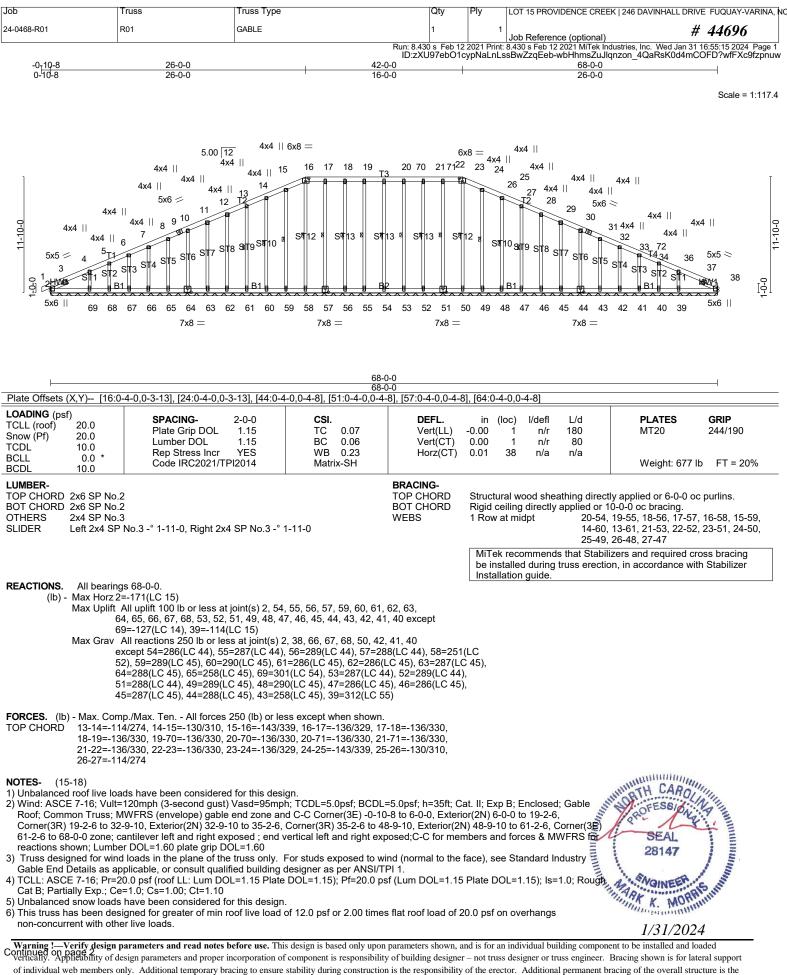
: 8.430 s. Feb 12 2021 Print: 8.430 s.Feb 12 2021 Mi Tek Industries, Inc. Wed Jan 31 16:55:10 2024. Page 2 ID:zXU97ebO1cypNaLnLssBwZzqEeb-adToj8VmVCBUt1v0It\_G9HJmqlUqa0jBWzqrUSzpnv?

LOAD CASE(S) Standard



1/31/2024





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 15 PROVIDENCE CREEK   246 DAVINHALL DRIVE FUQUAY-VARINA, NO
24-0468-R01	R01	GABLE	1	1	Job Reference (optional) # 44696
					8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 31 16:55:16 2024 Page 2 sBwZzqEeb-Onr4zCZW42yebyMAe75gOYZoq9Yd gF4uvHAh5zpnuv

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.

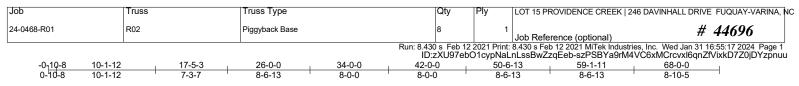
11) Gable studs spaced at 2-0-0 oc.

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

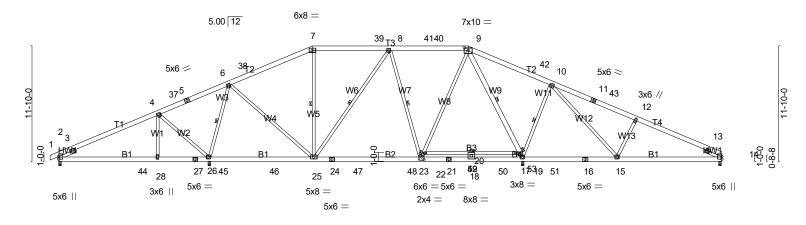
- 13) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable 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 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
- 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



	10-1-12 10-1-12	15-5-12 5-4-0	26-0-0 10-6-4	37-0-13		47-6-12	57-3-4 9-8-8	68-0-0 10-8-12	——
Plate Offsets (	(X,Y) [9:0-5-0,0	0-3-7], [23:0-3-0,0-3-	12]		- I				
LOADING (psf TCLL (roof) Snow (Pf) TCDL BCLL BCDL	5) 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	<b>CSI.</b> TC 0.70 BC 0.98 WB 0.99 Matrix-MSH	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	-0.22 20-22 > -0.33 20-22 >	defl L/d 999 240 999 180 n/a n/a	PLATES MT20 Weight: 528	<b>GRIP</b> 244/190 lb FT = 20%
WEBS	2x6 SP No.2 *E B3: 2x4 SP No.3 2x4 SP No.3 *E W9: 2x6 SP No	2, B4: 2x6 SP DSS xcept*	4 SP No.3 -° 1-1	1-0	BRACING- TOP CHORD BOT CHORD WEBS	Rigid ceiling di 6-0-0 oc bracir 1 Row at midp MiTek recom	rectly applied or 2 ng: 19-22 t 6-26, <sup>-</sup> mends that Stabil uring truss erection	ttly applied or 6-0-0 c 2-2-0 oc bracing. Ex 7-25, 8-25, 8-23, 9-1 lizers and required c on, in accordance w	cept: 9, 10-17 ross bracing
REACTIONS. (lb) -	Max Horz 2=17 Max Uplift All u 15)	2(LC 14) µplift 100 lb or less a	, , , ,		6=-195(LC 14), 17=-1 ), 26=2299(LC 45), 1		,		
FORCES. (Ib) TOP CHORD	2-3=-457/0, 3- 8-39=-1052/33	Max. Ten All forces 4=-774/154, 6-38=-1 32, 8-40=-1123/281, 10-11=-539/230, 11-	1188/278, 7-38= 40-41=-1123/28	1140/308, 7-39= 1, 9-41=-1123/28	1052/332, 1, 9-42=0/575,				
BOT CHORD	2-44=-211/638 45-46=-79/458	3, 28-44=-211/638, 2 3, 25-46=-79/458, 24 95, 23-49=0/664, 21- 29	-25=-14/1295, 2	4-47=-14/1295, 4	7-48=-14/1295,				
WEBS	22-23=-74/126	-26=-781/223, 6-26= 56, 9-22=-47/1338, 9 75, 12-15=-521/237,	-19=-1918/241,		37/156, 8-23=-660/21 , 10-17=-1232/339,	1,		MUMMINI	
	l roof live loads l E 7-16; Vult=120 russ; MWFRS (e	envelope) gable end ) 32-9-10 to 35-2-6, I	) Vasd=95mph; zone and C-C E Exterior(2R) 35-2	FCDL=5.0psf; BC kterior(2E) -0-10- l-6 to 48-9-10, Int	DL=5.0psf; h=35ft; C 3 to 5-11-2, Interior(1 erior(1) 48-9-10 to 61 members and forces	) 5-11-2 to 19-2-0 I-2-6, Exterior(2E s & MWFRS for r	closed; Gable 6, Exterior(2R) 6) 61-2-6 to 680-0 eactions shown;	28147	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Roof; Hip Tr 19-2-6 to 32 zone; cantile Lumber DO 3) TCLL: ASCI Cat B; Partia 4) Unbalanced 5) This truss h	ever left and righ L=1.60 plate grip E 7-16; Pr=20.0 ally Exp.; Ce=1.0 I snow loads hav	DOL=1.60 psf (roof LL: Lum DO 0; Cs=1.00; Ct=1.10 ve been considered f ed for greater of min	or this design.		) psf (Lum DOL=1.15 mes flat roof load of 2		angs	ARK K. MOR	Summer

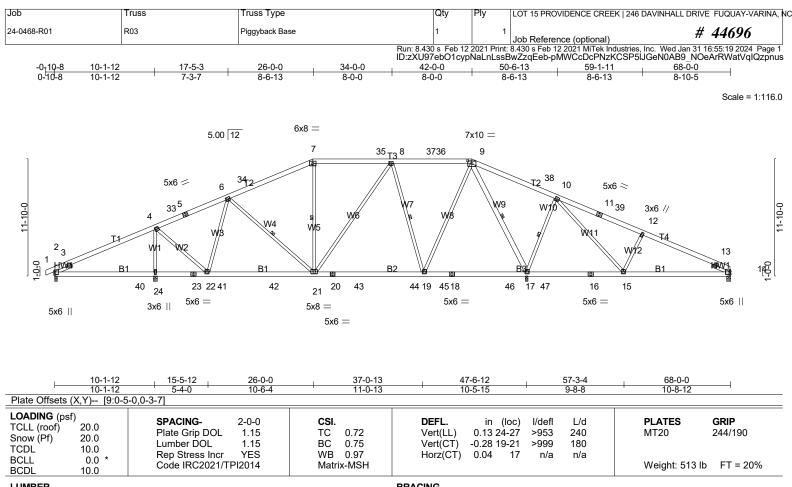
Job	Truss	Truss Type	Qty	Ply	LOT 15 PROVIDENCE CREEK   246 DAVINHALL	DRIVE FUQUAY-VARINA, NC
24-0468-R01	R02	Piggyback Base	8	1	Job Reference (optional)	# 44696
					8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Ja 3wZzqEeb-L9yqOubncgCLqFWZmY78Uze?X	

# 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 gualified 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
- ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

#### LOAD CASE(S) Standard





	<ul> <li>2x6 SP No.2</li> <li>2x6 SP No.2 *Except*</li> <li>B3: 2x6 SP DSS</li> <li>2x4 SP No.3 *Except*</li> </ul>	BRACING- TOP CHORD BOT CHORD WEBS	thing directly applied or 4-9-4 oc purlins. applied or 10-0-0 oc bracing, Except: 17. 6-21, 7-21, 8-19, 9-17, 10-17
SLIDER	W9: 2x6 SP No.2 Left 2x4 SP No.3 -° 1-11-0, Right 2x4 SP No.3 -° 1-11-0		that Stabilizers and required cross bracing russ erection, in accordance with Stabilizer

#### REACTIONS. All bearings 0-3-8.

(lb) - Max Horz 2=172(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-185(LC 10), 24=-189(LC 14), 17=-267(LC 11), 14=-120(LC 15

Max Grav All reactions 250 lb or less at joint(s) except 2=580(LC 54), 24=2044(LC 45), 17=3329(LC 45), 14=673(LC 43)

TOP CHORD 2-3=-375/414, 3-4=-517/445, 4-33=-1467/418, 5-33=-1429/423, 5-6=-1295/443 6-34=-1613/428, 7-34=-1526/454, 7-35=-1410/468, 8-35=-1410/468, 8-36=-1123/369, 36-37=-1123/369, 9-37=-1123/369, 9-38=0/705, 10-38=0/473, 10-11=-474/225, 11-39=-600/207, 12-39=-702/195, 12-13=-893/202, 13-14=-555/0 BOT CHORD 2-40=-342/406, 24-40=-342/406, 23-24=-342/406, 22-23=-342/406, 22-41=-257/1420, 41-42=-257/1420, 21-42=-257/1420, 20-21=-115/1381, 20-43=-115/1381, 43-44=-115/1381, 19-44=-115/1381, 19-45=0/627, 18-45=0/627, 18-46=0/627, 17-46=0/627, 14-15=-107/765 WEBS 4-24=-1780/229, 4-22=0/1304, 6-22=-642/76, 6-21=-269/383, 7-21=-40/263, 8-21=-85/550, 8-19=-943/263, 9-19=-156/1470, 9-17=-2117/355, 10-17=-1242/335, 10-15=-161/903, 12-15=-525/238

NOTES-

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

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 69-2 of zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed (2.0.1) for reactions shown; Lumber DOL=1.60 plate grip DOL=1 of CLL + Sec 7 xt 5 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 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.

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Warning !---Verify design parameters and read notes before use. This design is based only upon parameters shown, and is tot an increased of the sector. Bracing shown is for lateral support of page 2. Sector 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.

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

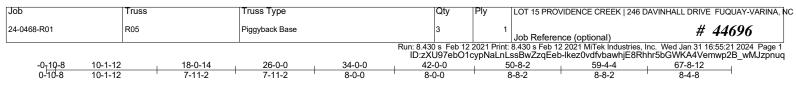
Job	Truss	Truss Type	Qty	Ply	LOT 15 PROVIDENCE CREEK   246 DAVINHALL	DRIVE FUQUAY-VARINA, NC
24-0468-R01	R03	Piggyback Base	1	1	Job Reference (optional)	# 44696
					8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Ja 8wZzqEeb-pMWCcDcPNzKCSP5IJGeN0AB9	

# NOTES- (12-15)

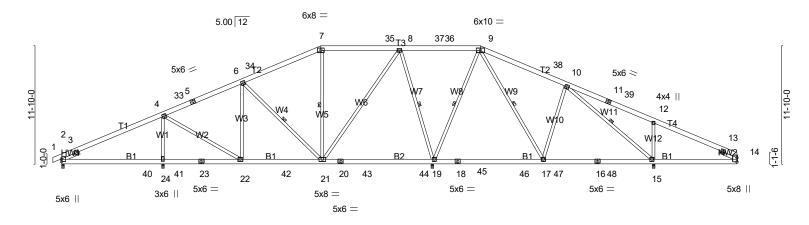
- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. 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
- ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

#### LOAD CASE(S) Standard





Scale = 1:115.5



10-1-12	18-0-14	26-0-0	37-2-12	48-3-8		59-4-4	67-8-12	1	
10-1-12	7-11-2	7-11-2	11-2-12	11-0-12	<u>'</u> 1	1-0-12	8-4-8	1	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 0.0 *	SPACING- 2-0. Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE Code IRC2021/TPI201	15         TC         0.           15         BC         0.           ES         WB         0.			l/defl L/ >903 24 >999 18 n/a n/	0	<b>PLATES</b> MT20 Weight: 505 I	<b>GRIP</b> 244/190 p FT = 20%	
BCDL 10.0							5	-	
LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 W7: 2x4 SP	s *Except*		BRACING- TOP CHORD BOT CHORD WEBS	Rigid ceiling 1 Row at mi	g directly appl idpt	lied or 10-0 6-21, 7-21	pplied or 5-11-9 c -0 oc bracing. , 8-19, 9-19, 9-17	, 10-15	
	No.3 -° 1-11-0, Right 2x4 SP	No.3 -° 1-11-0			d during truss		s and required cr n accordance wit		
REACTIONS.         All bearings 0-3-8 except (jt=length) 14=Mechanical.           (lb) - Max Horz 2=174(LC 14)         Max Uplift All uplift 100 lb or less at joint(s) except 2=-197(LC 10), 24=-169(LC 14), 19=-225(LC 10), 15=-195(LC 15), 14=-128(LC 11)           Max Grav         All reactions 250 lb or less at joint(s) except 2=617(LC 54), 24=1531(LC 45), 19=2775(LC 45), 15=1329(LC 45), 14=398(LC 55)									
ISE IS29(LC 45), 14=398(LC 55)         FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-373/460, 3-4=-609/477, 4-33=-1254/392, 5-33=-1183/396, 5-6=-1034/419, 6-34=-885/367, 7-34=-735/394, 7-35=-677/409, 8-35=-677/409, 8-36=-13/372, 36-37=-13/372, 9-37=-13/372, 9-38=-747/370, 10-38=-888/340, 10-11=-220/410, 11-39=-301/393, 12-39=-403/380, 12-13=-301/297, 13-14=-168/327         BOT CHORD       2-40=-377/488, 24-40=-377/488, 24-41=-377/488, 23-41=-377/488, 22-23=-377/488, 22-42=-214/1054, 21-42=-214/1054, 20-21=-23/294, 20-43=-23/294, 43-44=-23/294, 19-44=-23/294, 17-47=-141/805, 16-47=-141/805, 15-48=-141/805, 14-15=-221/278         WEBS       4-24=-1229/237, 4-22=0/724, 6-21=-587/193, 8-21=-115/1065, 8-19=-1444/322,									
	5/202, 9-17=-148/1050, 10-17								
NOTES- (13-16) 1) Unbalanced roof live load 2) Wind: ASCE 7-16; Vult= Roof; Hip Truss; MWFRS 19-2-12 to 32-9-4, Interio 67-8-12 zone; cantilever forces & MWFRS for rea 3) TCLL: ASCE 7-16; Pr=20 Cat B; Partially Exp.; Cee 4) Unbalanced snow loads 5) This truss has been desi non-concurrent with othe 6) WARNING: This long sp and erection guidance, s jointly produced by SBC/ professional for the desir	ds have been considered for 120mph (3-second gust) Vas S (envelope) gable end zone rr(1) 32-9-4 to 35-2-12, Exteri left and right exposed ; end v ctions shown; Lumber DOL= 0.0 psf (roof LL: Lum DOL=1. =1.0; Cs=1.00; Ct=1.10 have been considered for thi gned for greater of min roof li r live loads. an truss requires extreme ca	this design. id=95mph; TCDL=5.0ps and C-C Exterior(2E) -( ior(2R) 35-2-12 to 48-9- vertical left and right exp 1.60 plate grip DOL=1.6 .15 Plate DOL=1.15); P <sup>-</sup> is design. ive load of 12.0 psf or 2 are and experience for p	sf; BCDL=5.0psf; h=35ft 0-10-8 to 5-10-12, Interio -4, Interior(1) 48-9-4 to 6 posed; porch left and rig 60 f=20.0 psf (Lum DOL=1 2.00 times flat roof load o proper and safe handling	Cat. II; Exp B; E vr(1) 5-10-12 to 0-11-8, Exterior( ht exposed;C-C 15 Plate DOL=1 of 20.0 psf on ov and erection. F	Enclosed; Ga 19-2-12, Exte (2E) 60-11-8 for members 1.15); Is=1.0; rerhangs for general ha	ble rrior(2R) to and Rough	SEAL 28147	A A A A A A A A A A A A A A A A A A A	

D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 15 PROVIDENCE CREEK   246 DAVINHALL	DRIVE FUQUAY-VARINA, NC
24-0468-R01	R05	Piggyback Base	3	1	Job Reference (optional)	# 44696
					8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Ja _ssBwZzqEeb-DxCLEFeHguinJtpK?OC4epp	

## 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.

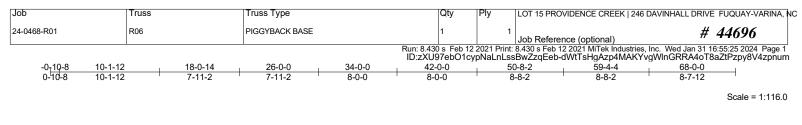
11) Refer to girder(s) for truss to truss connections.

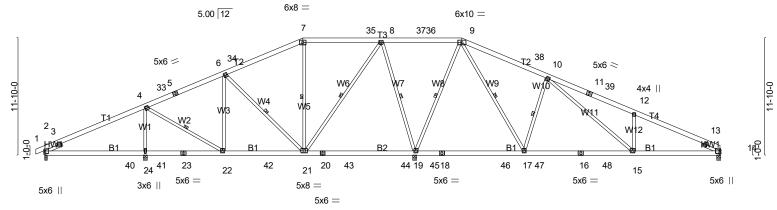
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2, 169 lb uplift at joint 24, 225 lb uplift at joint 19, 195 lb uplift at joint 15 and 128 lb uplift at joint 14.

- 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.
- 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
- 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRĂCINĞ 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







	10-1-12 10-1-12	<u>18-0-14</u> 7-11-2	26-0-0 7-11-2	<u> </u>		48-3-8 11-0-12	-	59-4-4 11-0-12	68-0-0 8-7-12	
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	<b>CSI.</b> TC 0.74 BC 0.68 WB 0.98 Matrix-MSH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.14 24-27 -0.33 15-17 0.03 2	l/defl >893 >999 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 507 It	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS	2x6 SP No.2 * B2: 2x6 SP DS 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 mic	directly a cing: 19-2 dpt	pplied or 10 1,17-19. 4-22, 6- 10-17	y applied or 5-0-7 oc )-0-0 oc bracing, Ex -21, 7-21, 8-21, 8-19 zers and required cro	, 9-19, 9-17,
REACTIONS. All bearings 0-3-8 except (jt=length) 19=0-4-0. (lb) - Max Horz 2=172(LC 14)										
	Max Grav All			2=-195(LC 10), 24=-1 cept 2=603(LC 54), 24						
TOP CHORD	2-3=-355/455 6-34=-613/28 9-37=0/109 12-39=-1756	5, 3-4=-575/463, 4-33= 30, 7-34=-470/307, 7-3 1, 9-38=-540/282, 10-3 /419, 12-13=-1730/30	=-1051/325, 5-3 35=-431/329, 8 38=-683/252, 1 8, 13-14=-614/		1091, 36-37=0/10 )=-1650/421,	091,				
BOT CHORD 2-40=-360/457, 24-40=-360/457, 24-41=-360/457, 23-41=-360/457, 22-23=-360/457, 22-42=-158/868, 21-42=-158/868, 20-21=-669/273, 20-43=-669/273, 43-44=-669/273, 19-44=-669/273, 19-45=-375/195, 18-45=-375/195, 17-46=-375/195, 17-47=-52/788, 16-47=-52/788, 16-48=-52/788, 15-48=-52/788, 14-15=-205/1523 WEBS 4-24=-1040/234, 4-22=-42/498, 6-21=-754/204, 7-21=-404/92, 8-21=-183/1446, 8-19=-1633/382, 9-19=-1875/276, 9-17=-251/1736, 10-17=-1196/346, 10-15=-240/1018,										
WEBS	19-44=-669/2 17-47=-52/78 4-24=-1040/2 8-19=-1633/3	273, 19-45=-375/195, 38, 16-47=-52/788, 16 234, 4-22=-42/498, 6-2 382, 9-19=-1875/276,	-48=-52/788, 1 21=-754/204, 7 9-17=-251/173	5, 18-46=-375/195, 17 5-48=-52/788, 14-15=- -21=-404/92, 8-21=-18 6, 10-17=-1196/346, 1	-46=-375/195, 205/1523 3/1446, 0-15=-240/1018,					
WEBS	19-44=-669/2 17-47=-52/78 4-24=-1040/2 8-19=-1633/2 12-15=-500/2	273, 19-45=-375/195, 38, 16-47=-52/788, 16 234, 4-22=-42/498, 6-2 382, 9-19=-1875/276, 254	-48=-52/788, 1 21=-754/204, 7 9-17=-251/173	5, 18-46=-375/195, 17 5-48=-52/788, 14-15=- -21=-404/92, 8-21=-18	-46=-375/195, 205/1523 3/1446, 0-15=-240/1018,	at. II; Exp B; E ) 5-11-2 to 19- -2-6, Exterior( nembers and 5 Plate DOL=1 20.0 psf on ove	Enclosed; 2-6, Exter 2E) 61-2-forces & N .15); Is=1 erhangs	Gable ior(2R) to 680-0 IWFRS 0; Rough	SEAL 28147	A A A A A A A A A A A A A A A A A A A

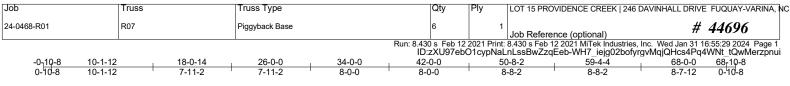
Job	Truss	Truss Type	Qty	Ply	LOT 15 PROVIDENCE CREEK   246 DAVINHALL I	DRIVE FUQUAY-VARINA, NC
24-0468-R01	R06	PIGGYBACK BASE	1	1	Job Reference (optional)	# 44696
					8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jai BwZzqEeb-dWtTsHgAzp4MAKYvgWInGRRA	

# NOTES- (12-15)

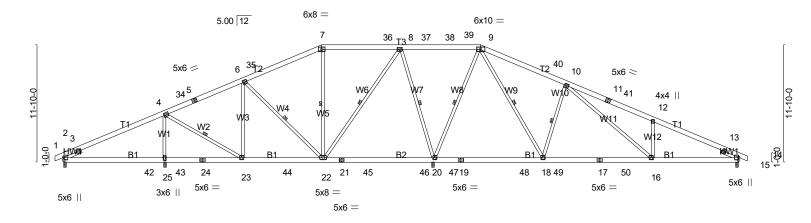
- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. 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
- ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

### LOAD CASE(S) Standard





Scale = 1:116.1



	<u> </u>	26-0-0 7-11-2	37-2-12 11-2-12	48-3-8 11-0-12	59-4-4 11-0-12	68-0-0 8-7-12		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	Plate Grip DOL Lumber DOL	1.15 BC YES WB		0.14 25-28 >8 -0.33 16-18 >9	lefl L/d 195 240 199 180 n/a n/a	<b>PLATES</b> MT20 Weight: 509 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER- TOP CHORD 2x6 SP No BOT CHORD 2x6 SP No B2: 2x6 SF WEBS 2x4 SP No W7: 2x4 SP	.2 *Except* ? DSS .3 *Except* P No.1, W8: 2x4 SP SS	, 	BRACING- TOP CHORD BOT CHORD WEBS		ectly applied or 10 g: 20-22,18-20.	y applied or 5-0-8 oc 0-0-0 oc bracing, Ex -22, 7-22, 8-22, 8-20	cept:	
SLIDER Left 2x4 SP No.3 -° 1-11-0, Right 2x4 SP No.3 -° 1-11-0 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.								
Max Grav	All uplift 100 lb or less at jo 15) All reactions 250 lb or less 14=1080(LC 43) np./Max. Ten All forces 2	at joint(s) except 2=603	(LC 54), 25=1313(LC 35), 2	( ),	94(LC			
TOP CHORD 2-3=-355 6-35=-61 8-38=0/1	4/458, 3-4=-574/470, 4-34=- 4/285, 7-35=-470/313, 7-36 094, 38-39=0/1094, 9-39=0, 509/441, 11-41=-1642/423,	1053/331, 5-34=-984/336 =-430/334, 36-37=-430/3 1094, 9-40=-536/285, 10	5, 5-6=-834/359, 334, 8-37=-430/334, 0-40=-679/255,	6				
23-44=-1 20-46=-6		-22=-672/280, 21-45=-6 -47=-377/202, 19-48=-3 D=-39/784, 16-50=-39/78	72/280, 45-46=-672/280, 77/202, 18-48=-377/202, 34, 14-16=-196/1515					
<ul> <li>18-49=-39/784, 17-49=-39/784, 17-50=-39/784, 16-50=-39/784, 14-16=-196/1515</li> <li>WEBS 4-25=-1042/234, 4-23=-43/500, 6-22=-755/204, 7-22=-405/90, 8-22=-181/1448, 8-20=-1633/383, 9-20=-1876/273, 9-18=-251/1735, 10-18=-1195/346, 10-16=-239/1013, 12-16=-498/253</li> <li>NOTES- (12-15)</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>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 62-0-14, Exterior(2E) 62-0-14 to 68-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum 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</li> <li>4) Unbalanced snow loads have been considered for this design.</li> <li>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.</li> </ul>								
WEBS 4-25=-10	33/383, 9-20=-1876/273, 9-	18=-251/1/35, 10-18=-1	195/346, 10-16=-239/1013,					

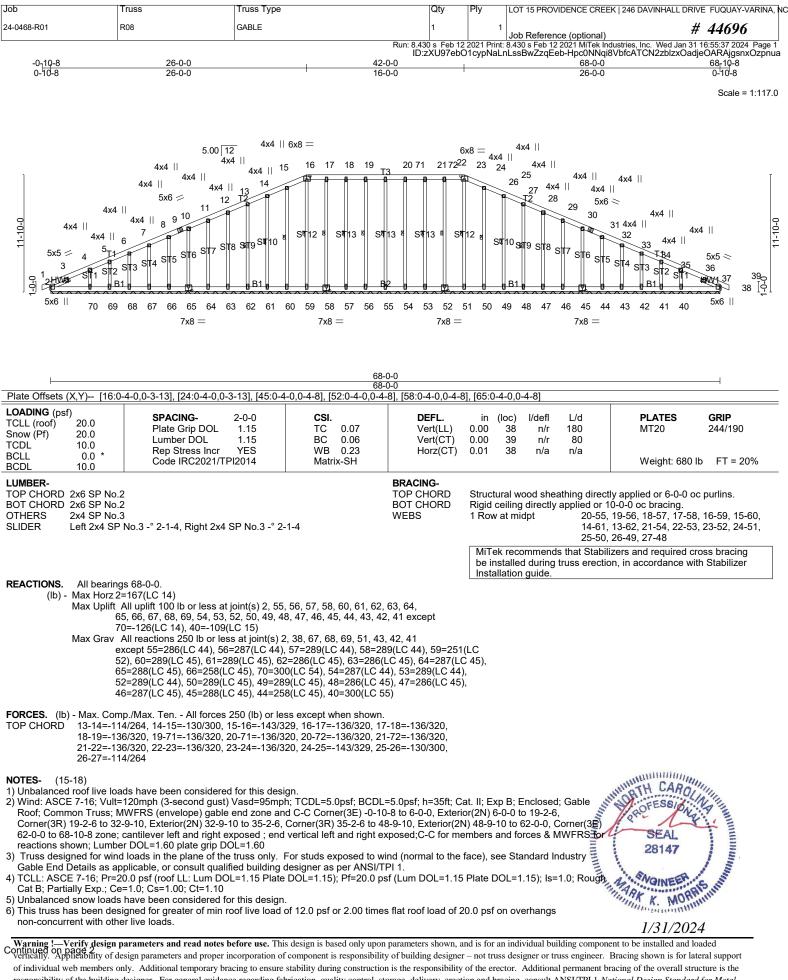
Job	Truss	Truss Type	Qty	Ply	LOT 15 PROVIDENCE CREEK   246 DAVINHALL DRIVE FUQUAY-VARINA, NC
24-0468-R01	R07	Piggyback Base	6	1	Job Reference (optional) # 44696
		Rur			8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 31 16:55:29 2024 Page 2 nLssBwZzqEeb-WH7_iejg02bofyrgvMqjQHcs4Pq4WNt_tQwMerzpnui

# 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
- ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

#### LOAD CASE(S) Standard





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 15 PROVIDENCE CREEK   246 DAVINHALL DRIVE FUQUAY-VARINA,		
24-0468-R01	R08	GABLE	1	1	Job Reference (optional) # 44696		
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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.

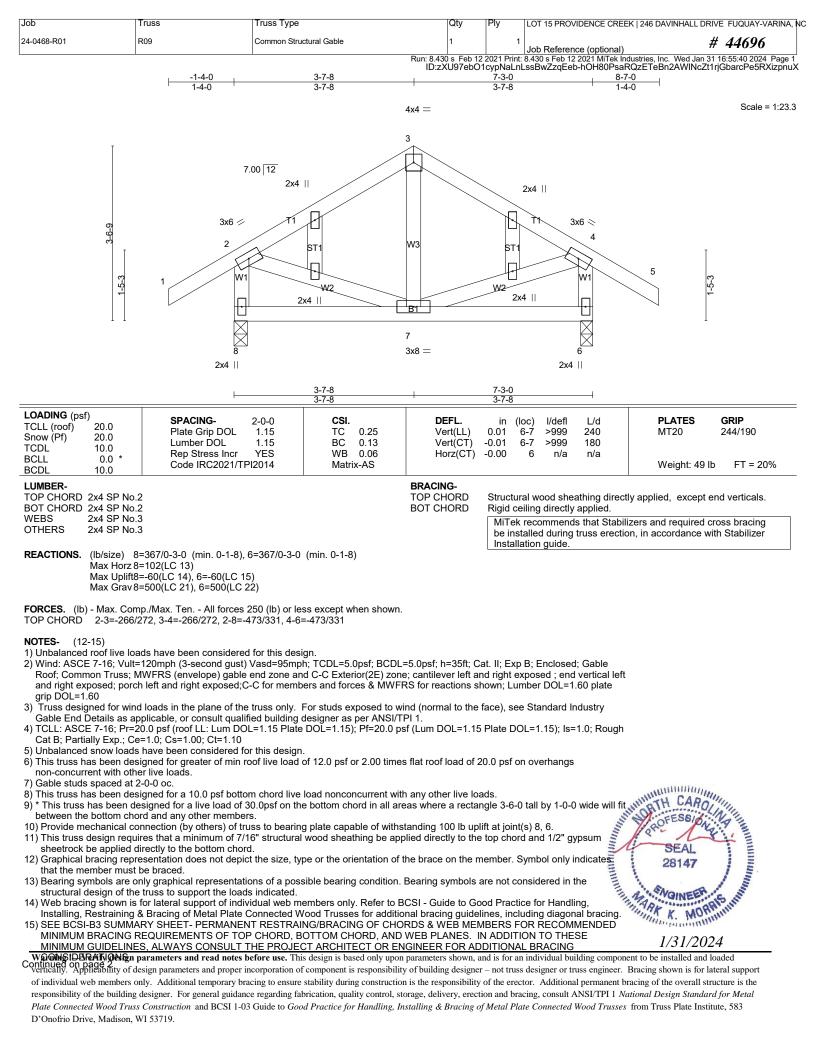
11) Gable studs spaced at 2-0-0 oc.

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 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
- 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

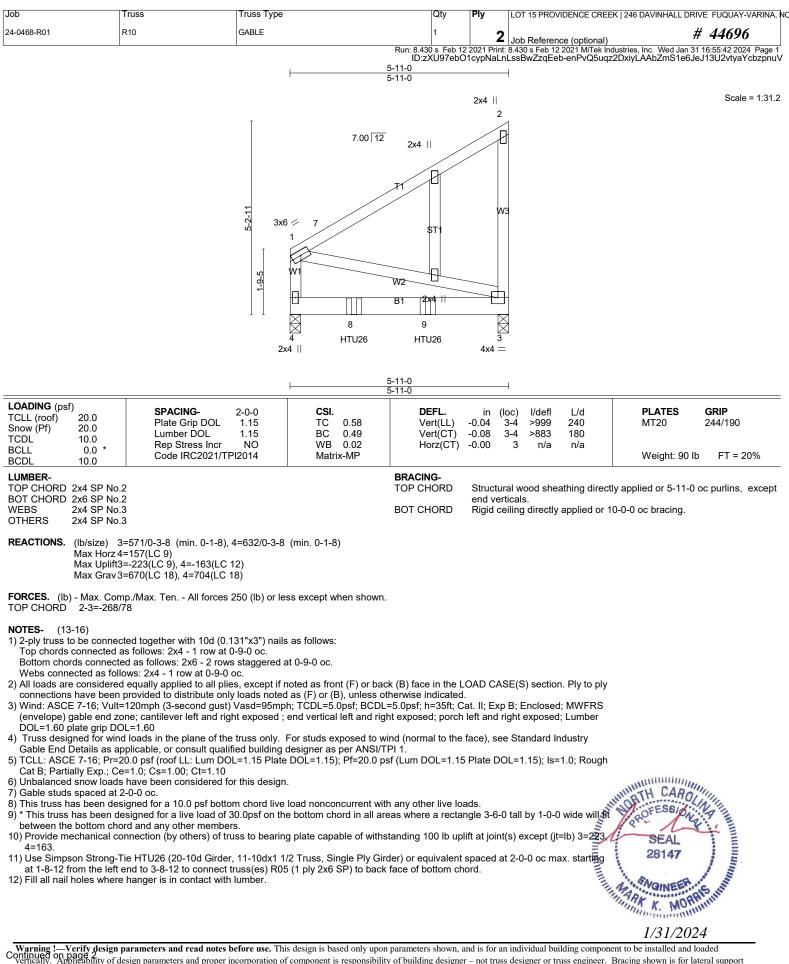




Job	Truss	Truss Type	Qty	Ply	LOT 15 PROVIDENCE CREEK   246 DAVINHALL DRIVE FUQUAY-VARINA, NC	
24-0468-R01	R09	Common Structural Gable	1	1	Job Reference (optional) # 44696	
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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 15 PROVIDENCE CREEK   246 DAVI	NHALL DRIVE FUQUAY-VARINA, NC
24-0468-R01	R10	GABLE	1	2	Job Reference (optional)	# 44696
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n: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 31 16:55:42 2024 Page 2 ID:zXU97ebO1cypNaLnLssBwZzqEeb-enPvQ5uqz2DxiyLAAbZmS1e6JeJ13U2vtyaYcbzpnuV

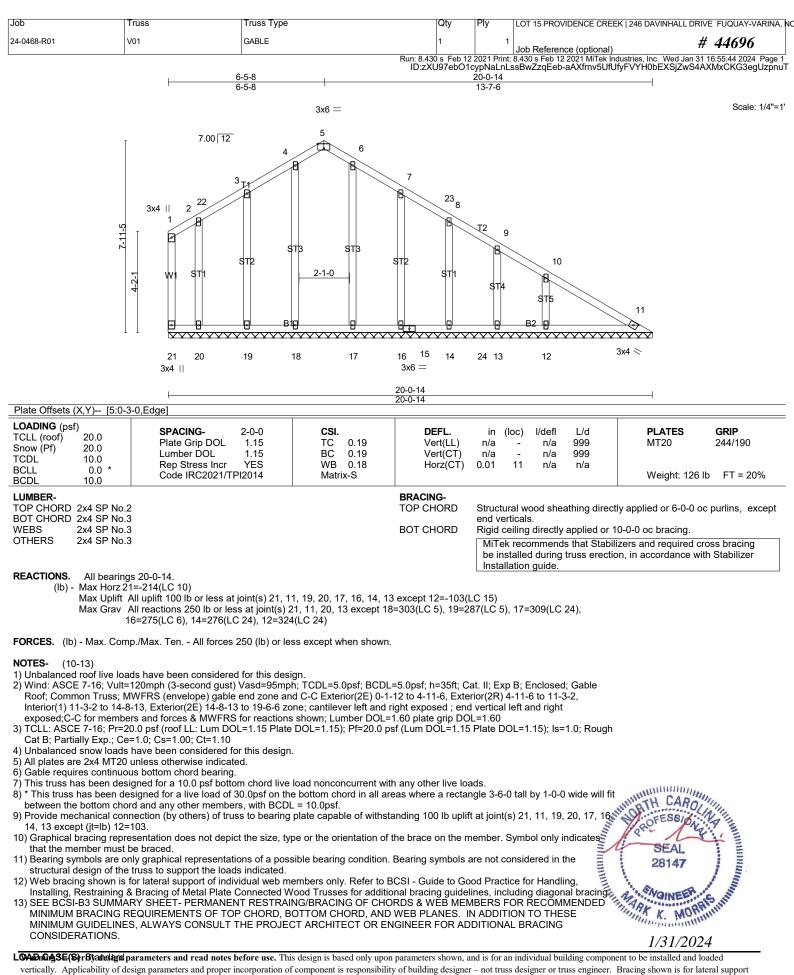
- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
   14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the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

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

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



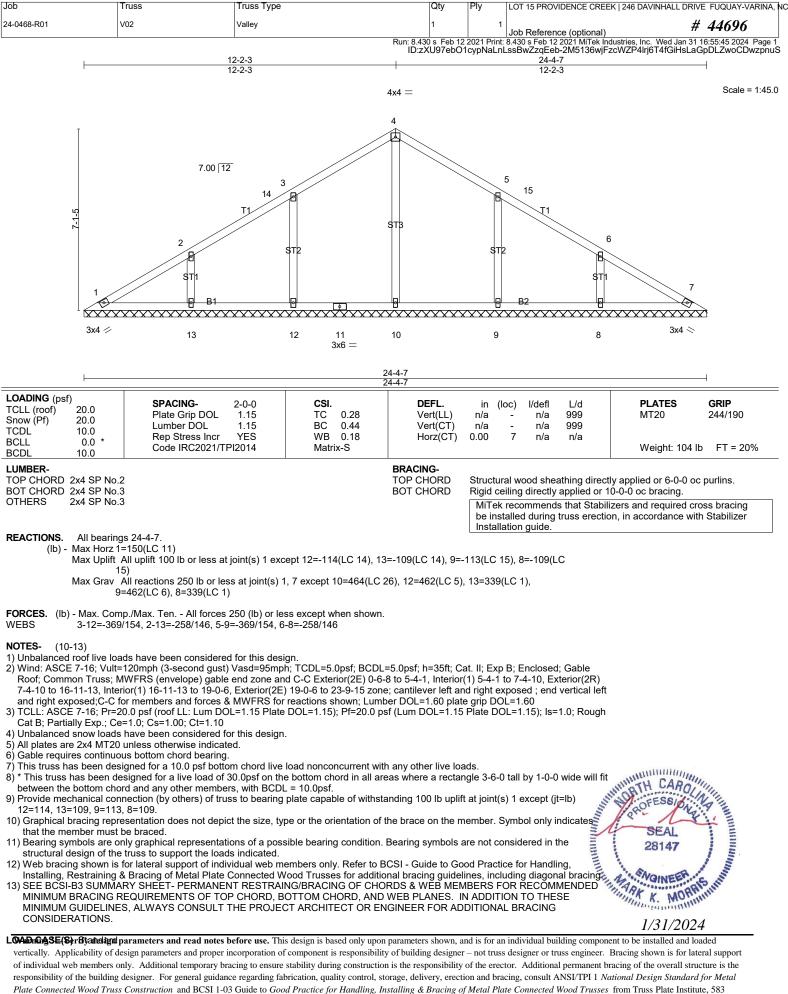


- 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the
- 12) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling,
- Graphical bracing representation does not depict the size, type a mathematical 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 the structural design of the trust Structural design of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing the structural design of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing diagonal bracing and the structural design of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing diagonal bracing and the structural design of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing diagonal bracing and the structural design of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing and the structural design of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing diagonal bracing and the structural design of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing and the structural design of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing and the structural design of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing and the structural design of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing and the structural design of the structuration design of the structuration design of the stru 13) MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

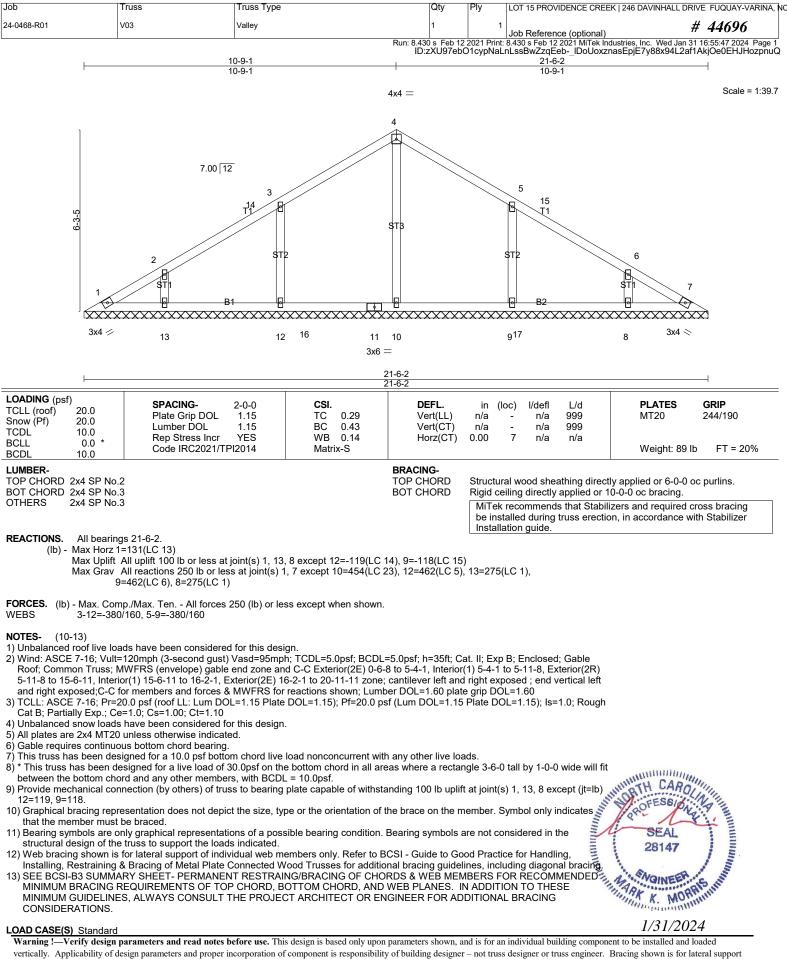
LOADIDASE(S): By and by an and the second se vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing 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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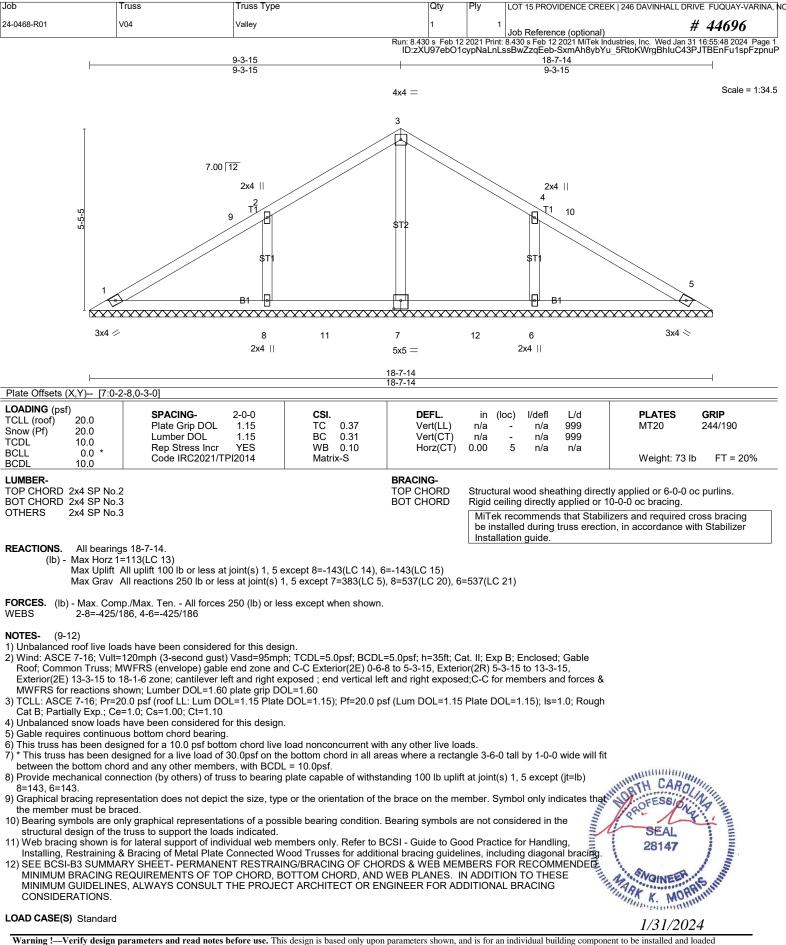
1/31/2024

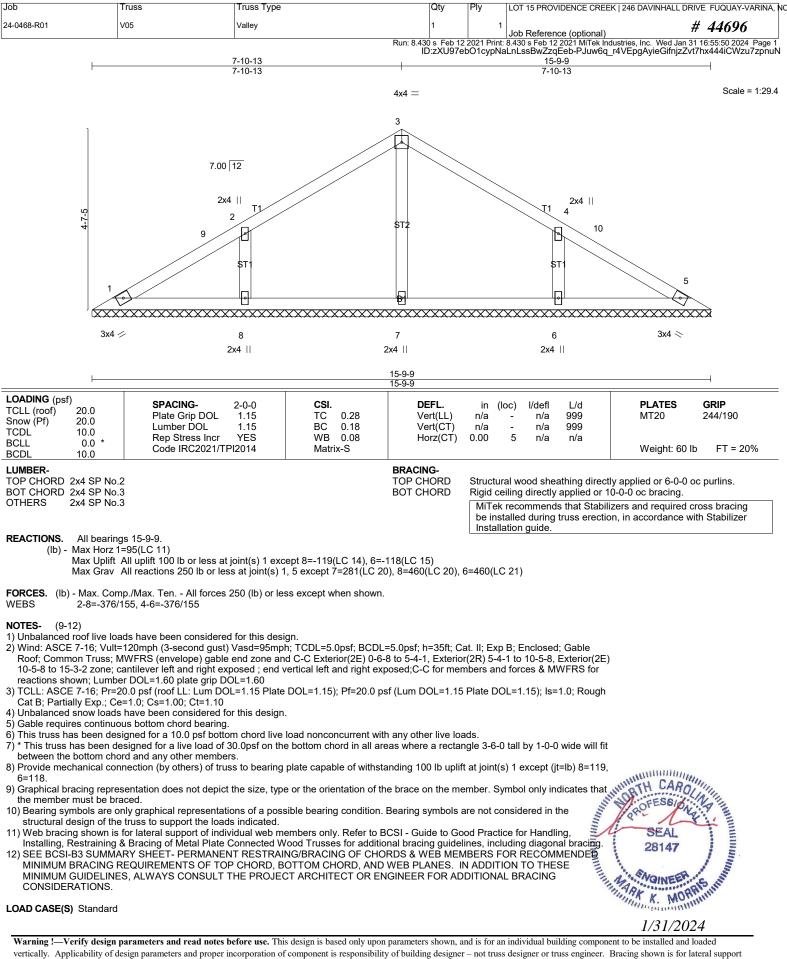


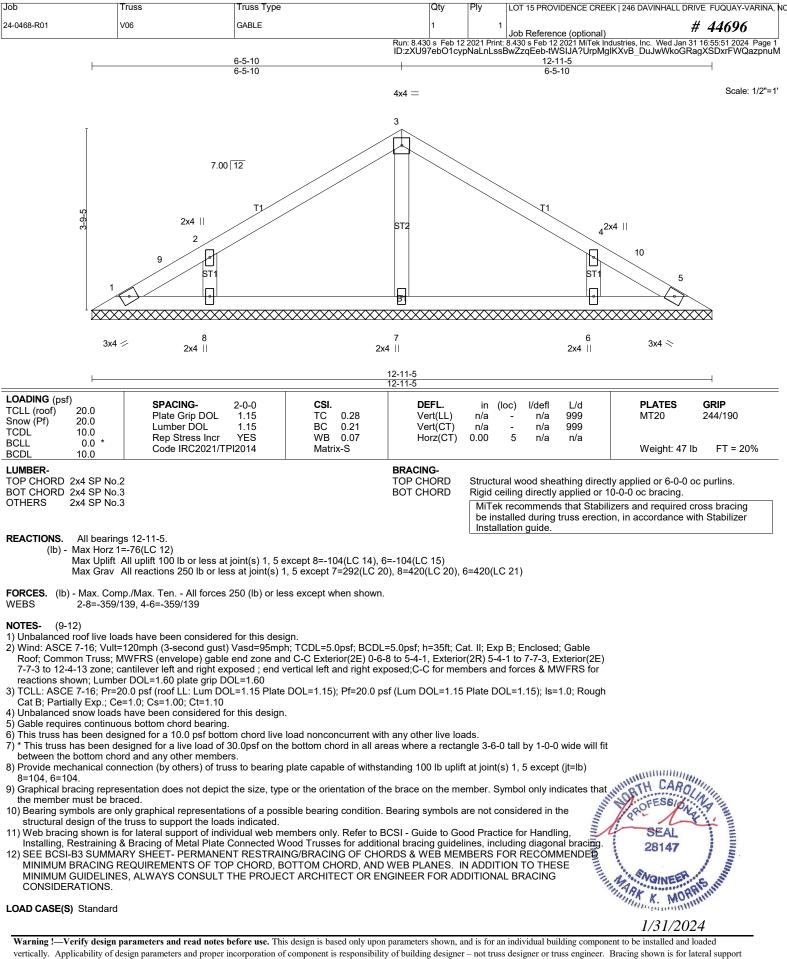
D'Onofrio Drive, Madison, WI 53719.

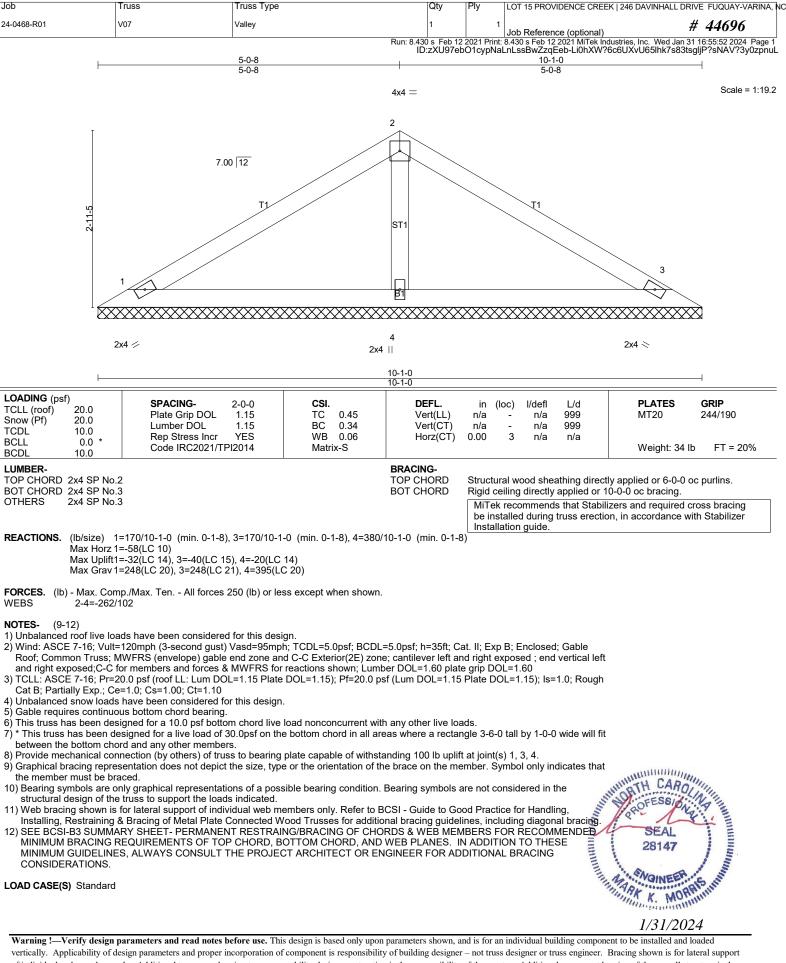


vertically. Applicability of design parameters and read notes before use. This design is based only upon parameters shown, and is to fail individual building component to be instance and loaded vertically. Applicability of design parameters and read notes before use. This design is based only upon parameters shown, and is to fail individual component to be instance and loaded 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 Trusse 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 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.

