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 #: 28830 JOB: 21-5970-R01 JOB NAME: 49786-0220 WOODGROVE Wind Code: 37 Wind Speed: Vult= 115mph Exposure Category: B Mean Roof Height (feet): 20 These truss designs comply with IRC 2015 as well as IRC 2018. *18 Truss Design(s)*

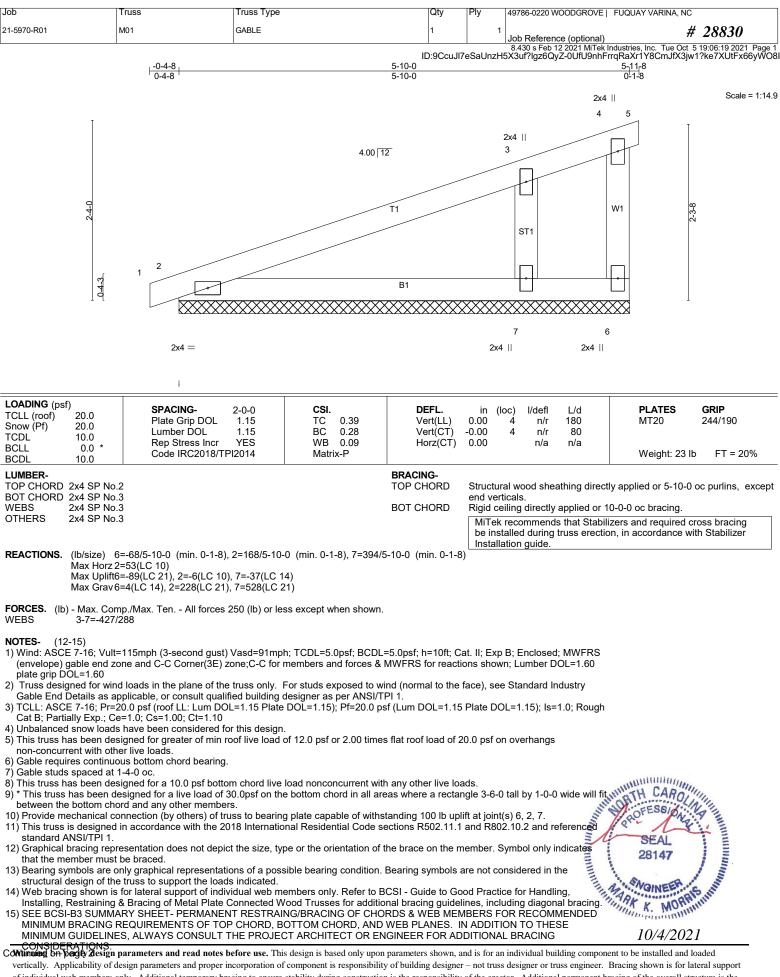
Trusses:

M01, M02, M03, R01, R02, R02B, R03, R03B, R04, R05, R06, R07, VT01, VT02, VT03, VT04, VT05, VT06



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



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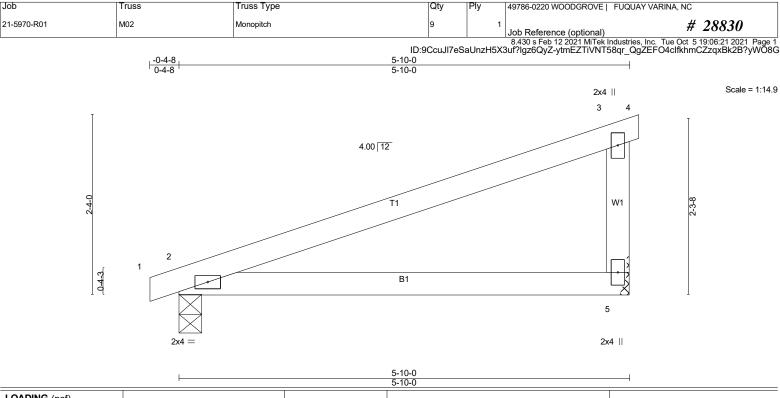
Job Truss	Truss Type	Qty Ply	49786-0220 WOODGROVE	FUQUAY VARINA, NC
21-5970-R01 M01	GABLE	1	1 Job Reference (optional)	# 28830

8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Oct 5 19:06:20 2021 Page 2 ID:9CcuJI7eSaUnzH5X3uf?Igz6QyZ-UgCsM7htc9zIChQD6rj?rt4ETKNET5NgjX_VeYyW08H

LOAD CASE(S) Standard



10/4/2021



			5-10-0		
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 IRC2018/TPI2014	CSI. TC 0.87 BC 0.39 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl L/d -0.06 2-5 >999 240 -0.11 2-5 >588 180 0.00 n/a n/a	PLATES GRIP MT20 244/190 Weight: 21 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3			BRACING- TOP CHORD BOT CHORD	end verticals. Rigid ceiling directly applied or 1	dy applied or 2-2-0 oc purlins, except 10-0-0 oc bracing. izers and required cross bracing

REACTIONS. (lb/size) 5=237/Mechanical, 2=254/0-3-8 (min. 0-1-8) Max Horz 2=53(LC 10) Max Uplift5=-25(LC 14), 2=-17(LC 10) Max Grav 5=319(LC 21), 2=344(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 3-5=-264/103

NOTES- (10-13)

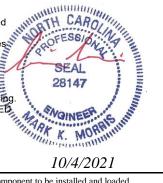
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=10ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 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
- 3) Unbalanced snow loads have been considered for this design.
- 4) 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.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) Refer to girder(s) for truss to truss connections.

- standard ANSI/TPI 1.
 10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates with the the member must be braced.
 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations.

- structural design of the truss to support and
 Web bracing shown is for lateral support of individual web members only. Refer to been of the trust of CONSIDERATIONS.

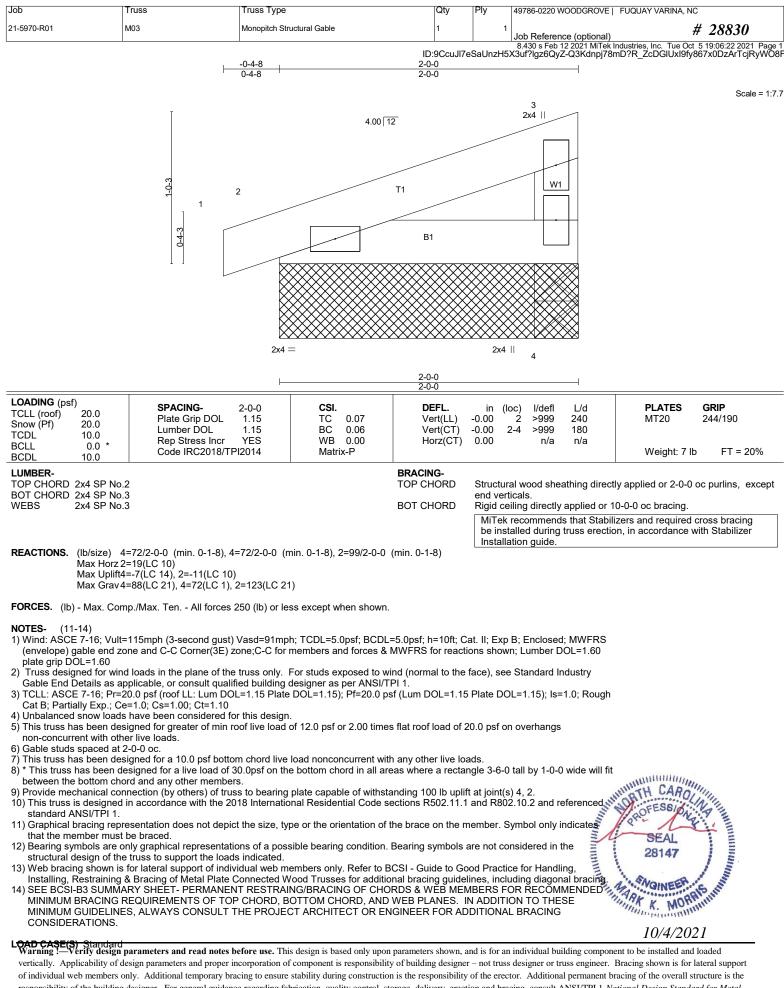
LOAD CASE(S) Standard

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.

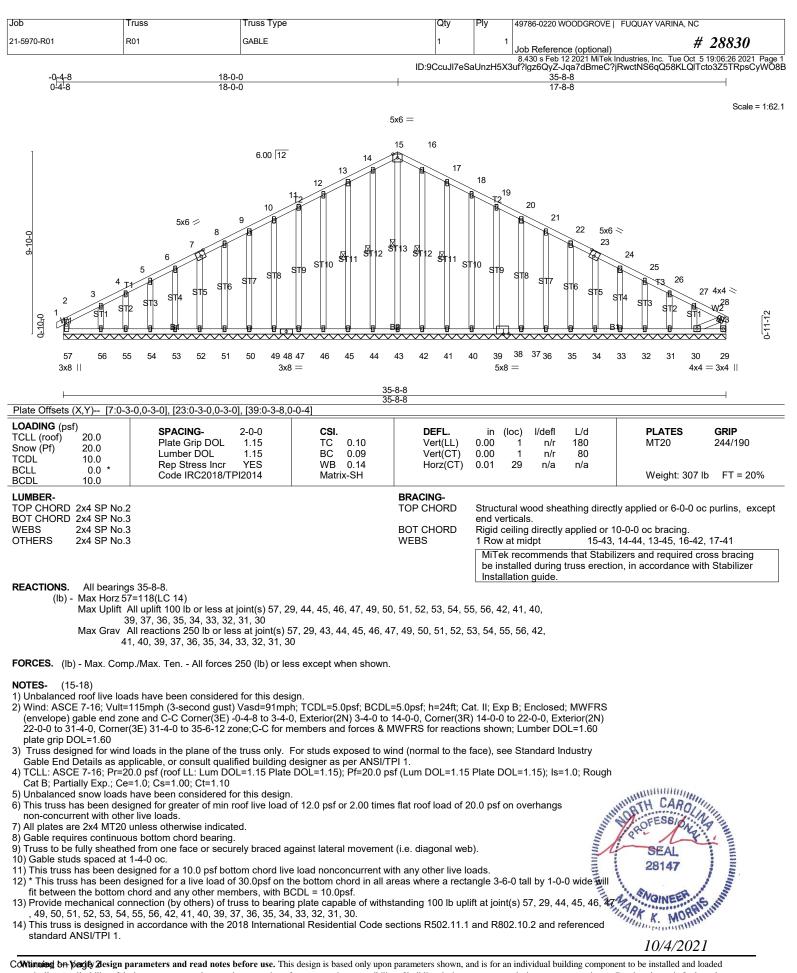


be installed during truss erection, in accordance with Stabilizer

Installation guide



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	49786-0220 WOODGROVE FUQUAY VARINA, NC
21-5970-R01	R01	GABLE	1	1	Job Reference (optional) # 28830
					8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Oct 5 19:06:28 2021 Page

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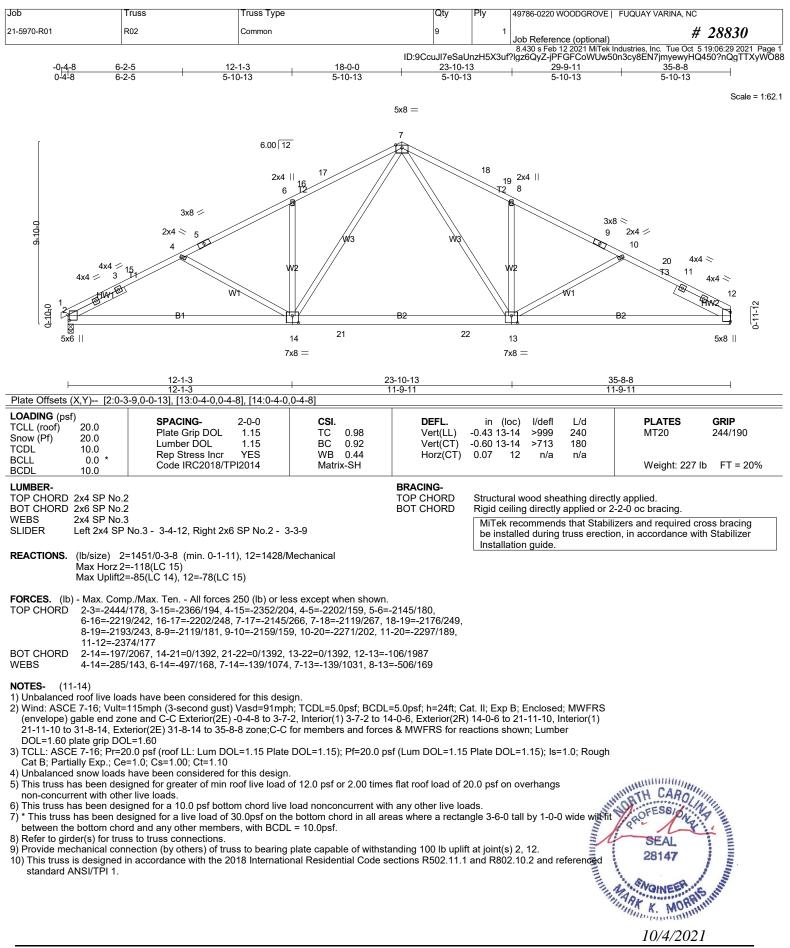
15) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

17) 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. 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





Job	Truss	Truss Type	Qty	Ply	49786-0220 WOODGROVE FUQUAY VARINA, NC
21-5970-R01	R02	Common	9	1	Job Reference (optional) # 28830
					8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Oct 5 19:06:30 2021 Pag

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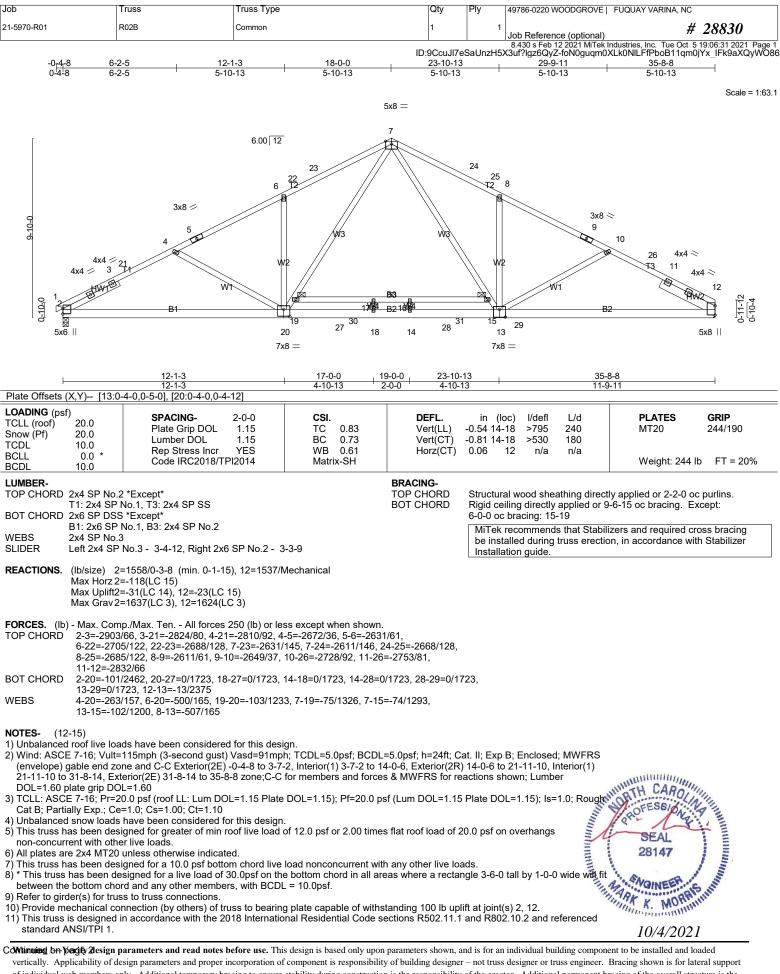
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LOAD CASE(S) Standard





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Job	Truss	Truss Type	Qty	Ply	49786-0220 WOODGROVE FUQUAY VARINA, NC
21-5970-R01	R02B	Common	1	1	Job Reference (optional) # 28830
					8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Oct 5 19:06:32 2021 Pa

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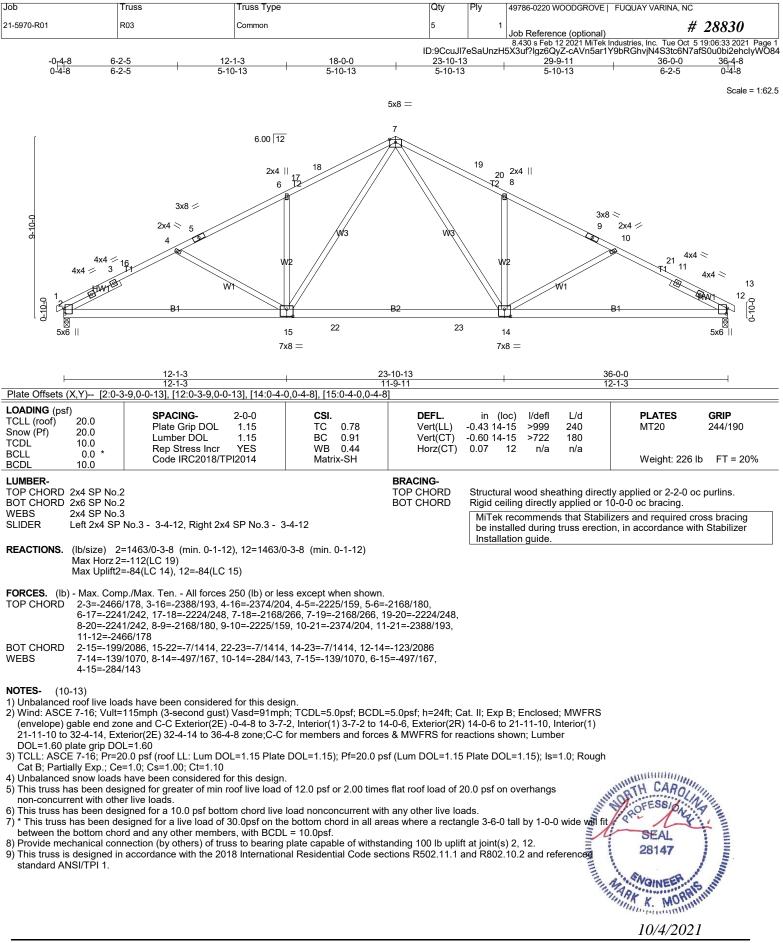
12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	49786-0220 WOODGROVE FUQUA	Y VARINA, NC
21-5970-R01	R03	Common	5	1	Job Reference (optional)	# 28830
					8.430 s Feb 12 2021 MiTek Industries,	Inc. Tue Oct 5 19:06:34 2021 Page 2

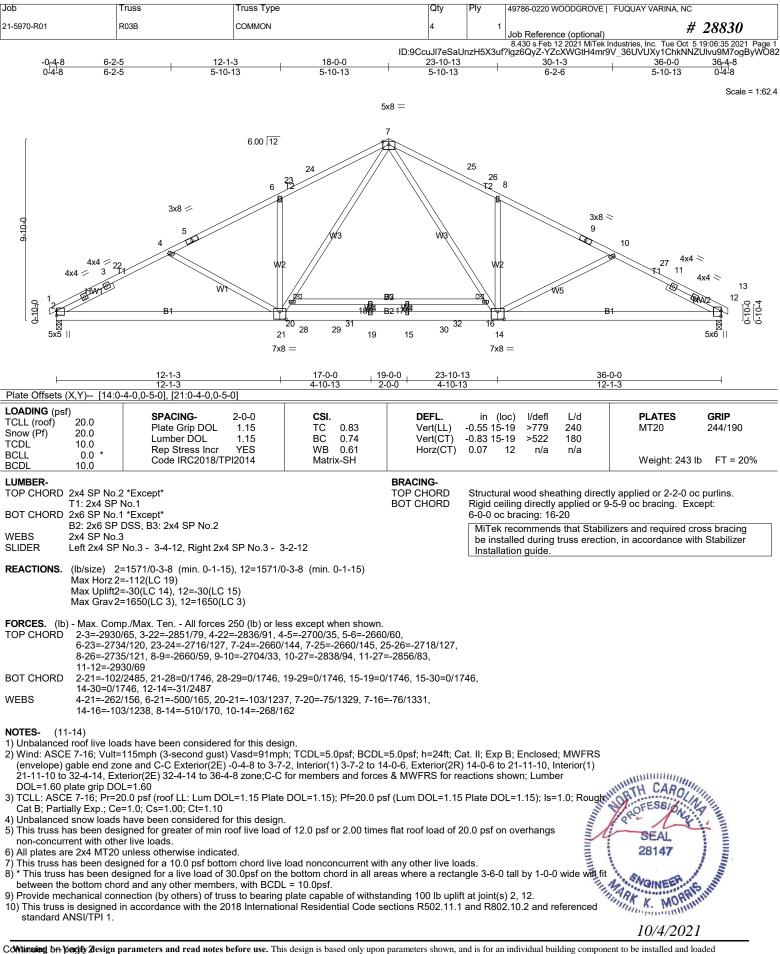
ID:9CcuJI7eSaUnzH5X3uf?lgz6QyZ-4N39lwsfJSjluqUwvozIQqfYtz?hILGkxiNE8JyW083 10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 11) Bearing symbols are not considered in the structural design of the truss to support the

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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	49786-0220 WOODGROVE FUQUAY VA	RINA, NC
21-5970-R01	R03B	COMMON	4	1	Job Reference (optional)	# 28830
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Tue Oct 5 19:06:36 2021 Page 2

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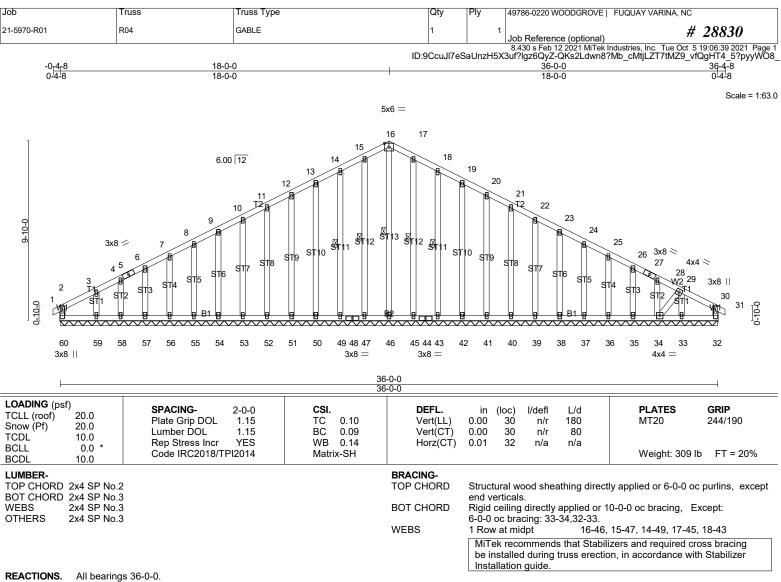
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LOAD CASE(S) Standard





(lb) - Max Horz 60=112(LC 18)

Max Uplift All uplift 100 b or less at joint(s) 60, 32, 47, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 45, 43, 42, 41, 40, 39, 38, 37, 36, 35 except 34=-106(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 60, 32, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 45,

43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33

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

NOTES-(15-18)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-4-8 to 3-4-0, Exterior(2N) 3-4-0 to 14-0-0, Corner(3R) 14-0-0 to 22-0-0, Exterior(2N) 22-0-0 to 32-4-14, Corner(3E) 32-4-14 to 36-4-8 zone;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
- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 1-4-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) This it does not been designed for a live load of 30.0pst on the bottom chord in an arcdo method.
 12) * This truss has been designed for a live load of 30.0pst on the bottom chord in an arcdo method.
 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 60, 32, 47, 49, 50, 51
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 15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 60, 32, 47, 49, 50, 51
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	49786-0220 WOODGROVE FUQUAY VARINA,	NC
21-5970-R01	R04	GABLE	1	1	Job Reference (optional)	# 28830
					8.430 s Feb 12 2021 MiTek Industries, Inc. Tue O	oct 5 19:06:41 2021 Page 2

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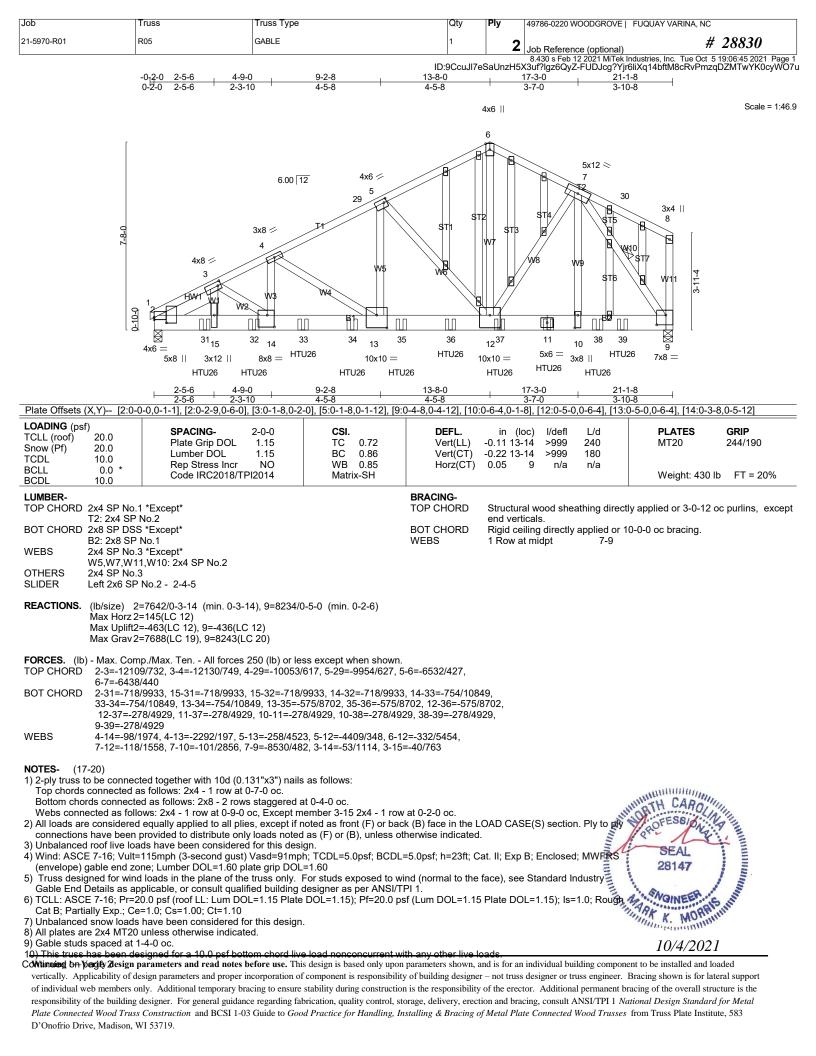
15) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

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





•	lob	Truss	Truss Type	Qty	Ply	49786-0220 WOODGROVE FL	UQUAY VARINA, NC
1	21-5970-R01	R05	GABLE	1	2	Job Reference (optional)	# 28830
			ID:9	CcuJl7eS	aUnzH5X		ustries, Inc. Tue Oct 5 19:06:46 2021 Page 2 KhPDdJB6vM9cfp6CZgpVhaHtY2yWO7t

NOTES- (17-20)

- 11) * 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.
- 12) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- To be any other and the second state of the second st
- 15) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 19-0-12 to connect truss(es) R02 (1 ply 2x6 SP), R02B (1 ply 2x6 SP) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) 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. 18) 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.
- 19) 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. 20) 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)

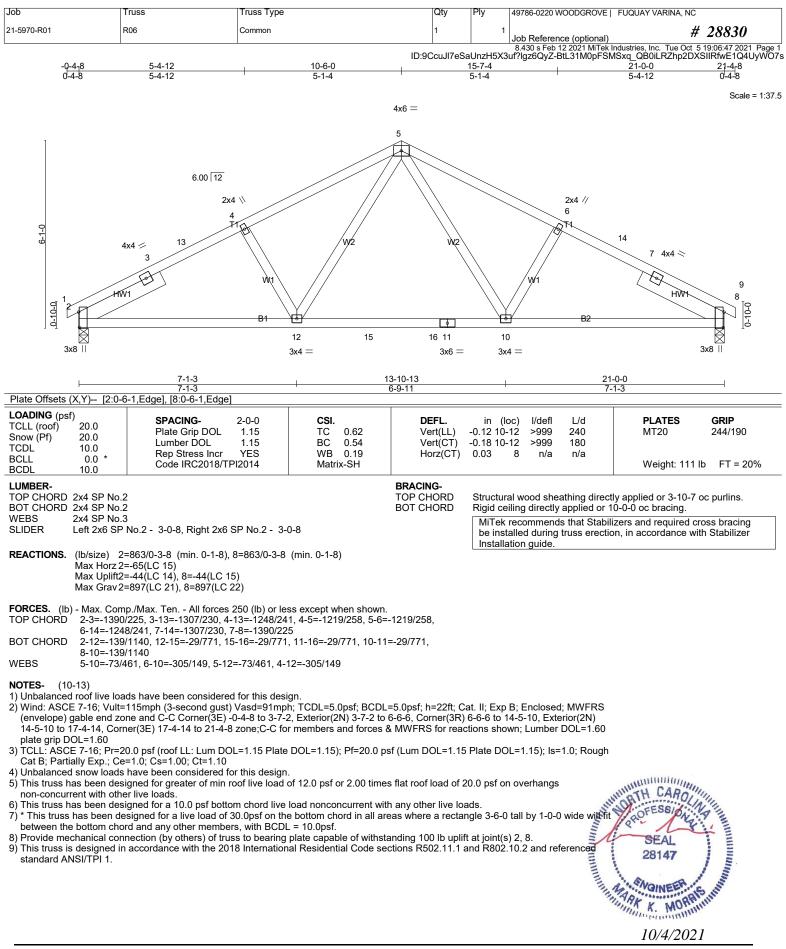
Vert: 1-6=-60, 6-8=-60, 2-9=-20

Concentrated Loads (lb)

Vert: 11=-1408(B) 31=-1408(B) 32=-1408(B) 33=-1408(B) 34=-1408(B) 35=-1408(B) 36=-1408(B) 37=-1408(B) 38=-1408(B) 39=-1517(B)



10/4/2021



Job	Truss	Truss Type	Qty	Ply	49786-0220 WOODGROVE FUQUAY VARINA, NC
21-5970-R01	R06	Common	1	1	Job Reference (optional) # 28830
					8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Oct 5 19:06:47 2021 Page

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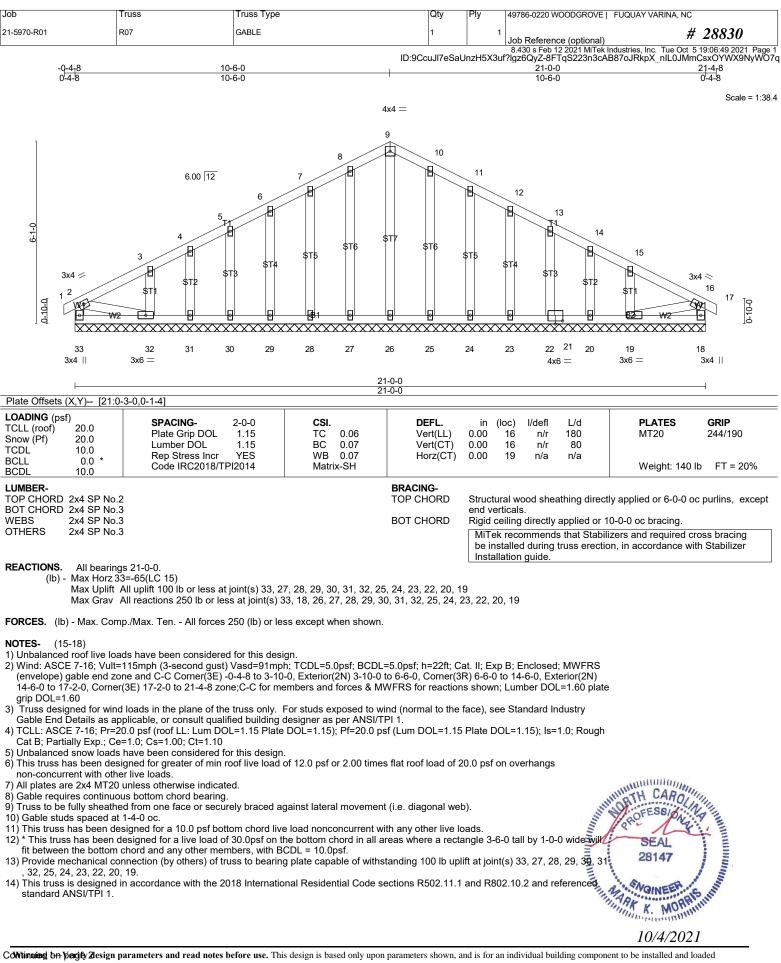
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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	49786-0220 WOODGROVE FUQUAY VA	RINA, NC
21-5970-R01	R07	GABLE	1	1	Job Reference (optional)	# 28830
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Tue Oct 5 19:06:50 2021 Page 2

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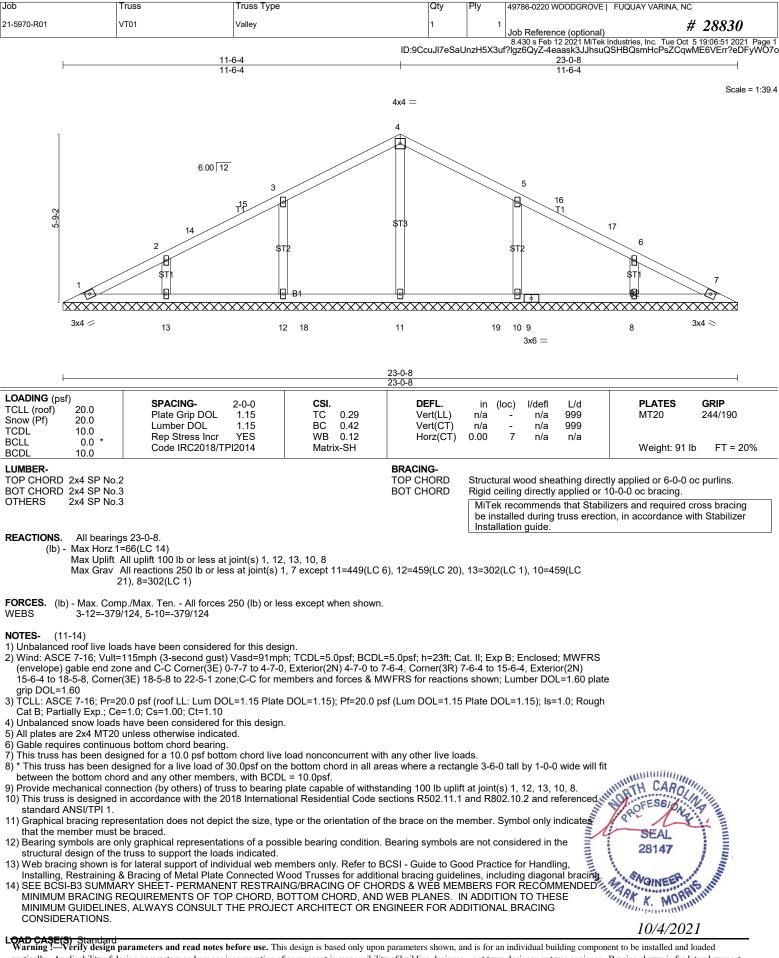
15) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

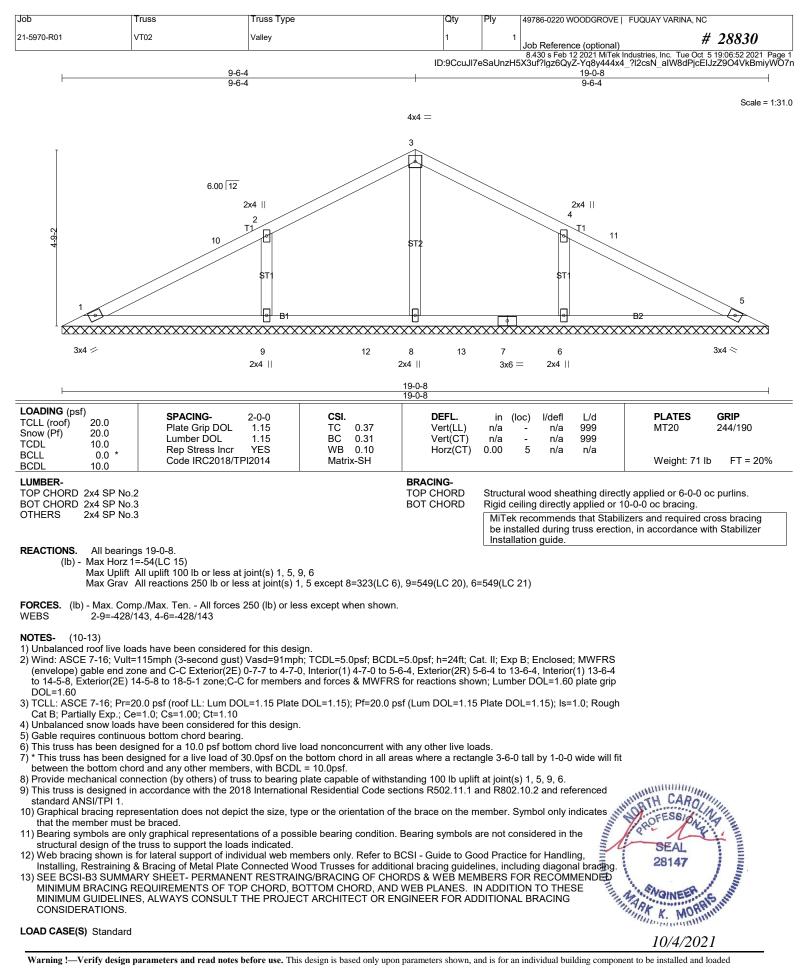
17) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

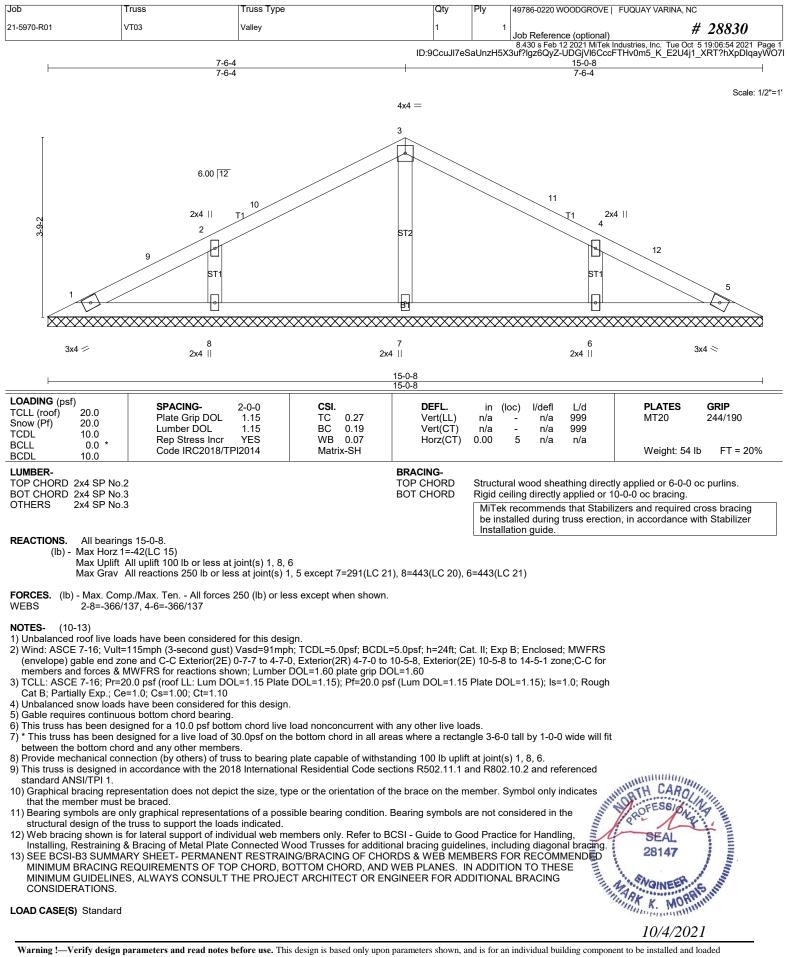
Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 18) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

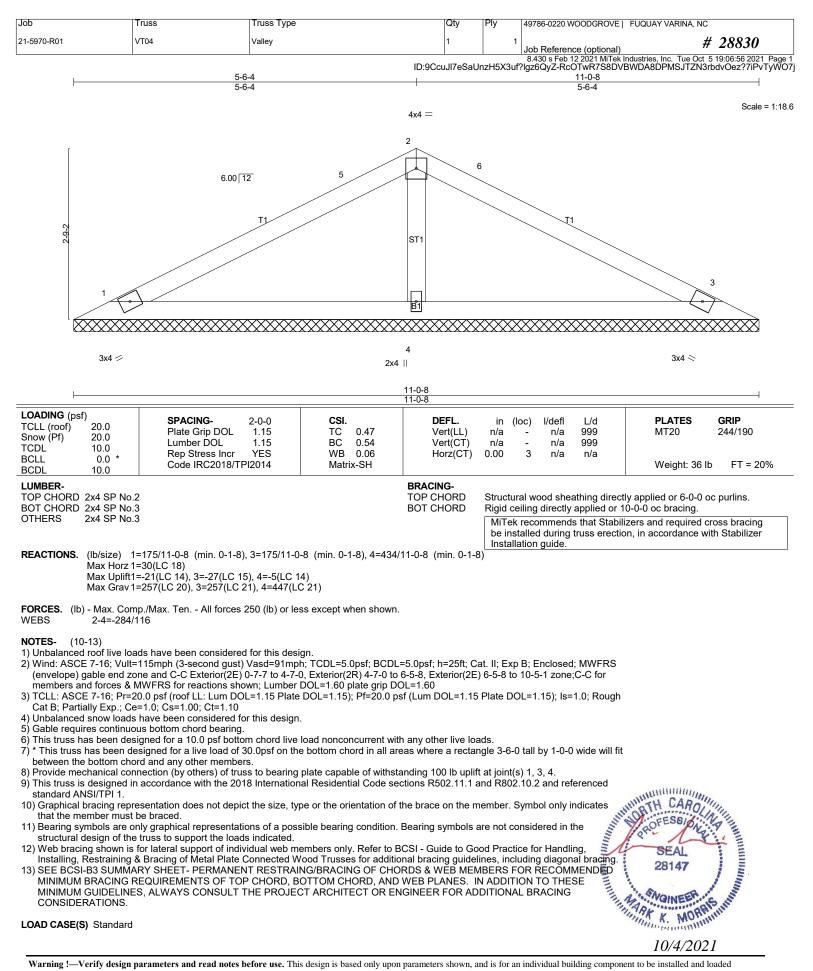
LOAD CASE(S) Standard

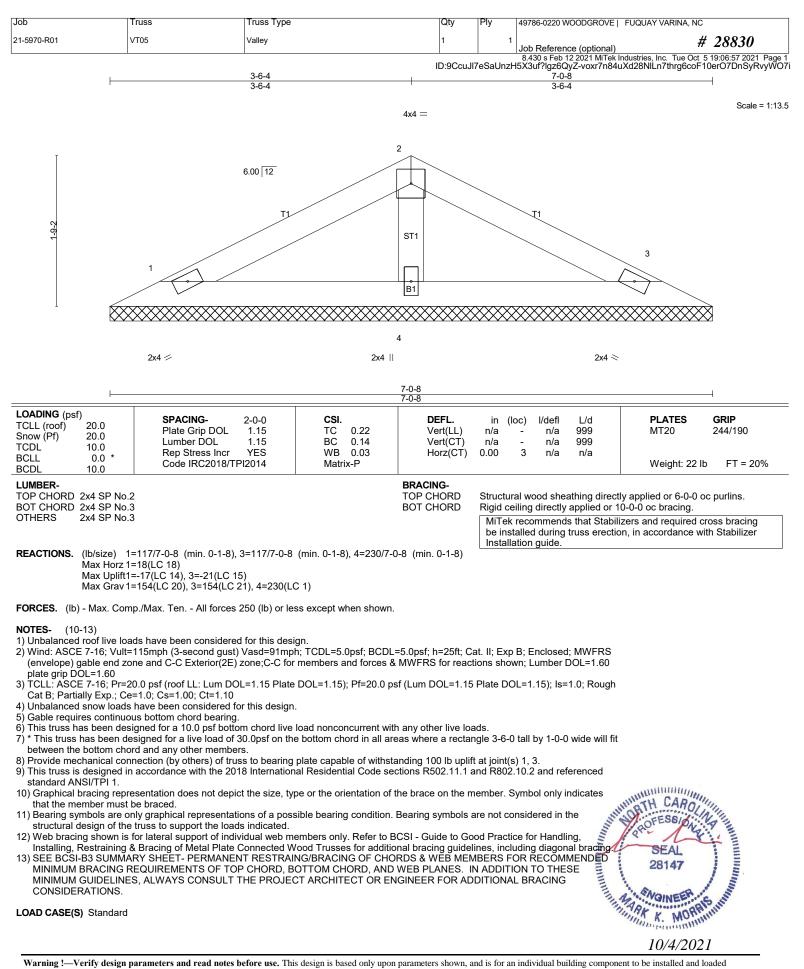


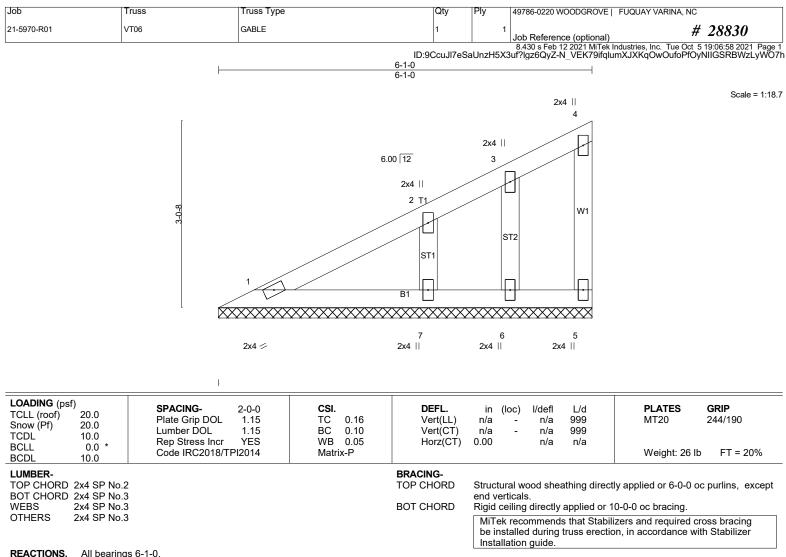












All bearings 6-1-0.

(lb) - Max Horz 1=73(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=322(LC 20)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WFBS 2-7=-265/135

NOTES-(9-12)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=21ft; Cat. II; Exp B; Enclosed; MWFRS

- JTEs-Wind: ASCE 7-16; vuin (envelope) gable end zone and Coole for reactions shown; Lumber DOL=1.60 plate gipper or reactions shown; Lumber DOL=1.60 plate gipper or reactions shown; Lumber DOL=1.60 plate gipper cat B; Partially Exp; Ce=1.0; Ce=1.00; Ct=1.10
 JUnbalanced snow loads have been considered for this design.
 J Chable requires continuous bottom chord bearing.
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 water between the bottom chord and any other members.
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 7.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/TP1 1.
 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.
 Bearing symbols are noty considered in the indesign of the truss to support the loads indicated.
 Interal design of the truss to support the loads indicated.
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 Interal design of the truss to support the loads indicated.
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 Interal design of the truss to support the loads indicated.
 Interal support of individual web members only. Refer to BCSI Guide to Good Practice for Handling.
 Interal design of the truss to support the loads indicated.
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 Interal design of the truss to support the loads indicated.
 Interal support of individual web members on

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.

10/4/2021