

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24010087 BCTH-55

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I62935658 thru I62935663

My license renewal date for the state of North Carolina is December 31, 2024.

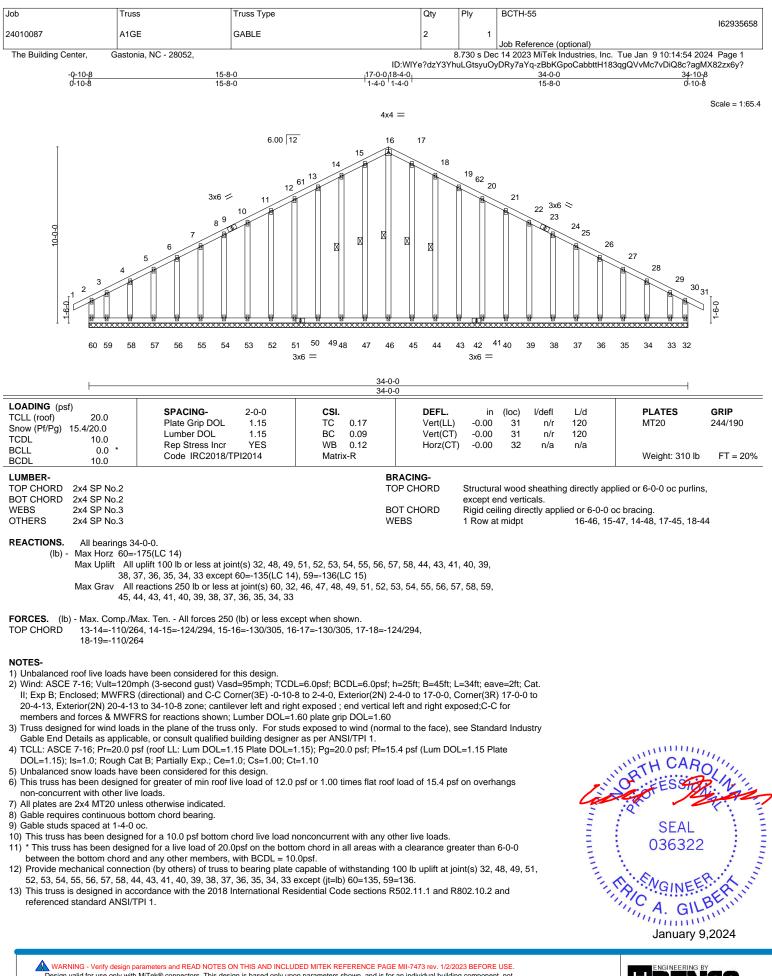
North Carolina COA: C-0844



January 9,2024

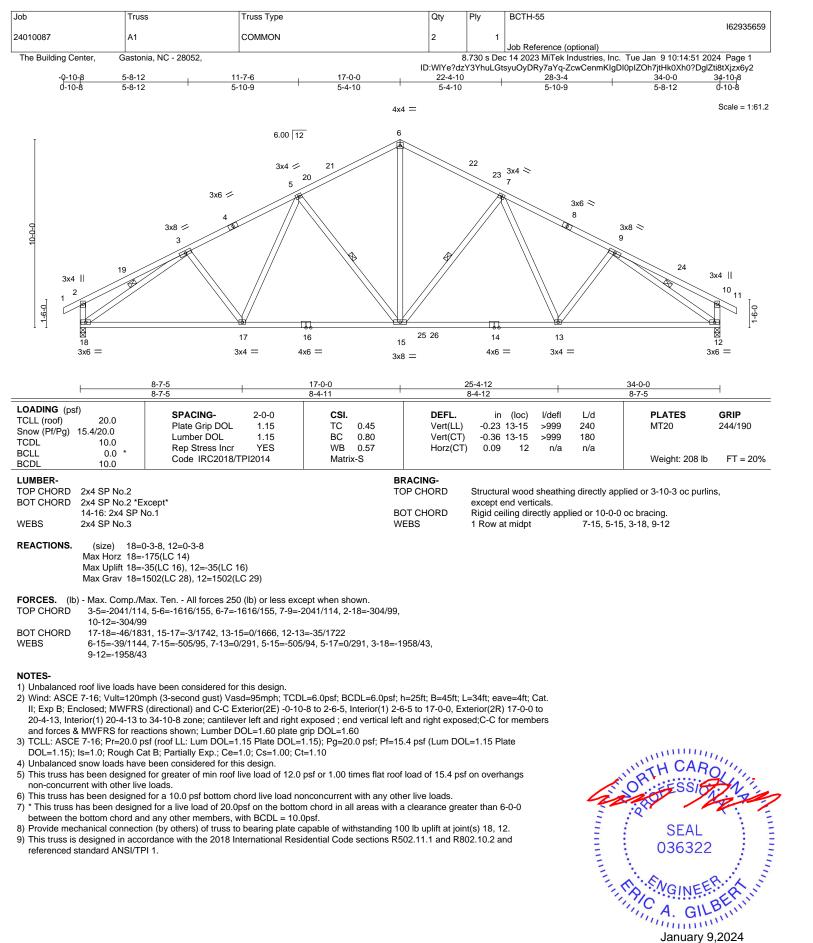
Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)

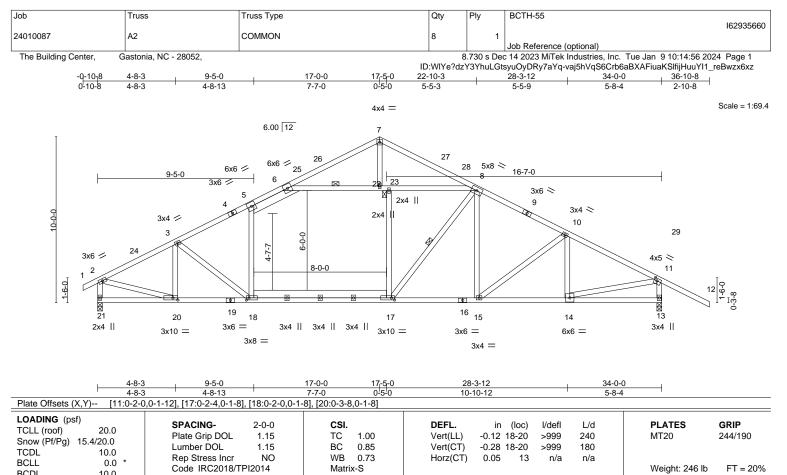
A MiTek . 818 Soundside Road Edenton, NC 27932



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BENC

818 Soundside Road Edenton, NC 27932



LUMBER-		BRACING-					
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheat	thing directly applied, except end verticals			
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Ex				
	17-18: 2x6 SP No.1		6-0-0 oc bracing: 13-1	14.			
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt	6-22, 8-17			
	5-18,17-22,6-8: 2x4 SP No.2, 5-6: 2x6 SP No.1	JOINTS	1 Brace at Jt(s): 22				

REACTIONS. (size) 21=0-3-8, 13=0-3-8 Max Horz 21=-187(LC 14) Max Grav 21=1574(LC 2), 13=1665(LC 2)

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

TOP CHORD 2-3=-2016/0, 3-5=-2061/0, 5-6=-1858/0, 6-7=-903/0, 7-8=-917/0, 8-10=-1954/0,

10-11=-1989/0, 2-21=-1528/0, 11-13=-1611/53

- BOT CHORD 18-20=0/1790, 17-18=0/1788, 15-17=0/1687, 14-15=0/1704
- WEBS 5-18=0/321, 17-22=-86/513, 6-23=-1330/7, 22-23=-1330/7, 8-22=-1331/7, 7-23=-63/512,
 - 8-17=-233/447, 10-14=-275/40, 11-14=0/1756, 3-20=-369/13, 2-20=0/1752

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-6-5, Interior(1) 2-6-5 to 17-0-0, Exterior(2R) 17-0-0 to 20-4-13, Interior(1) 20-4-13 to 36-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) 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 live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) 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.
- 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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

Continued on page 2

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BCTH-55	
24010087	A2	COMMON	8	1	16293566	50
					Job Reference (optional)	
The Building Center,	Gastonia, NC - 28052,		8	3.730 s De	c 14 2023 MiTek Industries, Inc. Tue Jan 9 10:14:56 2024 Page 2	

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 10:14:56 2024 Page 2 ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-vaj5hVqS6Crb6aBXAFiuaKSlfijHuuYI1_reBwzx6xz

LOAD CASE(S) Standard	
Uniform Loads (plf)	
Vert: 1-2=-51, 2-5=-51, 5-7=-61, 7-8=-61, 8-11=-51, 11-12=-51, 18-21=-20, 17-18=-40, 13-17=-20	
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-2=-60, 2-5=-60, 5-7=-70, 7-8=-70, 8-11=-60, 11-12=-60, 18-21=-20, 17-18=-40, 13-17=-20	
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-2=-50, 2-5=-50, 5-7=-60, 7-8=-60, 8-11=-50, 11-12=-50, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20	
4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-2=-43, 2-5=-43, 5-7=-53, 7-8=-53, 8-11=-43, 11-12=-43, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-2=-43, 2-5=-43, 5-25=-53, 7-25=-75, 7-8=-37, 8-11=-27, 11-12=-27, 18-21=-20, 17-18=-40, 15-17=-50,	13-1520
6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15	10 10- 20
Uniform Loads (plf)	
Vert: 1-2=-27, 2-5=-27, 5-7=-37, 7-28=-75, 8-28=-53, 8-11=-43, 11-12=-43, 18-21=-20, 17-18=-40, 15-17=-50,	13-15=-20
7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 11-12=-20, 18-21=-40, 17-18=-60, 13-17=-40	
8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60	
Uniform Loads (plf)	
Vert: 1-2=38, 2-24=18, 5-24=13, 5-7=3, 7-27=13, 8-27=3, 8-11=13, 11-12=8, 18-21=-12, 17-18=-32, 13-17=-12	2
Horz: 1-2=-50, 2-24=-30, 7-24=-25, 7-27=35, 11-27=25, 11-12=20, 2-21=21, 11-13=32	
9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60	
Uniform Loads (plf)	_
Vert: 1-2=8, 2-5=13, 5-26=3, 7-26=13, 7-8=3, 8-29=13, 11-29=18, 11-12=38, 18-21=-12, 17-18=-32, 13-17=-12	2
Horz: 1-2=-20, 2-26=-25, 7-26=-35, 7-29=25, 11-29=30, 11-12=50, 2-21=-32, 11-13=-21	
10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60	
Uniform Loads (plf)	
Vert: 1-2=-12, 2-5=-32, 5-7=-42, 7-8=-42, 8-11=-32, 11-12=-28, 18-21=-20, 17-18=-40, 13-17=-20 Horz: 1-2=-8, 2-7=12, 7-11=-12, 11-12=-8, 2-21=30, 11-13=23	
11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60	
Uniform Loads (plf)	
Vert: 1-2=-28, 2-5=-32, 5-7=-42, 7-8=-42, 8-11=-32, 11-12=-12, 18-21=-20, 17-18=-40, 13-17=-20	
Horz: 1-2=8, 2-7=12, 7-11=-12, 11-12=8, 2-21=-23, 11-13=-30	
12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60	
Uniform Loads (plf)	
Vert: 1-2=12, 2-5=-0, 5-7=-10, 7-8=-5, 8-11=5, 11-12=1, 18-21=-12, 17-18=-32, 13-17=-12	
Horz: 1-2=-24, 2-7=-12, 7-11=17, 11-12=13, 2-21=13, 11-13=15	
13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60	
Uniform Loads (pf)	
Vert: 1-2=1, 2-5=5, 5-7=-5, 7-8=-10, 8-11=-0, 11-12=12, 18-21=-12, 17-18=-32, 13-17=-12	
Horz: 1-2=-13, 2-7=-17, 7-11=12, 11-12=24, 2-21=-15, 11-13=-13	
 Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) 	
Vert: 1-2=-23, 2-5=-27, 5-7=-37, 7-8=-22, 8-11=-12, 11-12=-7, 18-21=-20, 17-18=-40, 13-17=-20	
Vert. 1-2=-23, 2-5=-27, 5-7=-37, 7-6=-22, 6-11=-12, 11-12=-7, 16-21=-20, 17-16=-40, 15-17=-20 Horz: 1-2=3, 2-7=7, 7-11=8, 11-12=13, 2-21=22, 11-13=6	
15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60	
Uniform Loads (plf)	
Vert: 1-2=-7, 2-5=-12, 5-7=-22, 7-8=-37, 8-11=-27, 11-12=-23, 18-21=-20, 17-18=-40, 13-17=-20	
Horz: 1-2=-13, 2-7=-8, 7-11=-7, 11-12=-3, 2-21=-6, 11-13=-22	
16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60	
Uniform Loads (plf)	
Vert: 1-2=25, 2-5=13, 5-7=3, 7-8=3, 8-11=13, 11-12=25, 18-21=-12, 17-18=-32, 13-17=-12	
Horz: 1-2=-37, 2-7=-25, 7-11=25, 11-12=37, 2-21=-19, 11-13=19	
17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60	
Uniform Loads (plf)	
Vert: 1-2=16, 2-5=4, 5-7=-6, 7-8=-6, 8-11=4, 11-12=16, 18-21=-12, 17-18=-32, 13-17=-12	
Horz: 1-2=-28, 2-7=-16, 7-11=16, 11-12=28, 2-21=-19, 11-13=19	
18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60	
Uniform Loads (plf)	
Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 11-12=-16, 18-21=-20, 17-18=-40, 13-17=-20	
Horz: 1-2=-4, 2-7=1, 7-11=-1, 11-12=4, 2-21=-10, 11-13=10	
 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) 	
Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 11-12=-16, 18-21=-20, 17-18=-40, 13-17=-20	
Horz: 1-2=-4, 2-7=1, 7-11=-1, 11-12=4, 2-21=-10, 11-13=10	
20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-2=-51, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 11-12=-51, 18-21=-20, 17-18=-40, 13-17=-20	
21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-2=-51, 2-5=-51, 5-25=-61, 7-25=-90, 7-8=-39, 8-11=-29, 11-12=-29, 18-21=-20, 17-18=-40, 13-17=-20)
22) Dead + Snow (Unbal, Right): Lumber Increase=1.15. Plate Increase=1.15	

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

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24010087	A2	COMMON	8	1	162935660	
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8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 10:14:56 2024 Page 3 SlfijHuuYI1_reBwzx6xz

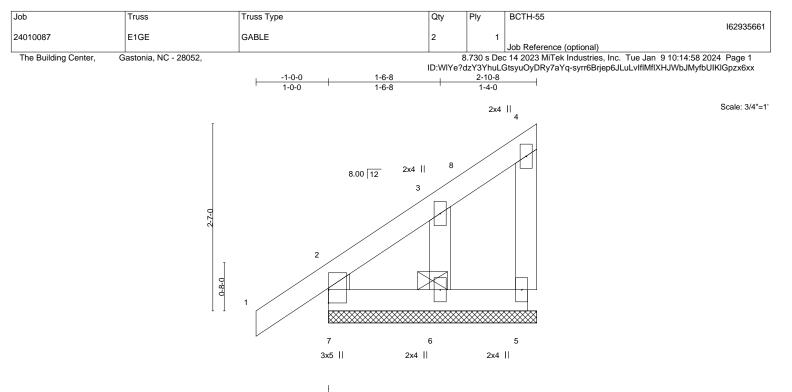
The Building Center,	Gastonia, NC - 28052,	8.730 s Dec 14 2023 Mi lek Industries, Inc. Tue Jan 9 10 ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-vaj5hVqS6Crb6aBXAFiuaKSif
LOAD CASE(S) Star		
Uniform Loads (pl		
	=-29, 2-5=-29, 5-7=-39, 7-28=-90, 8-28=-61, 8-11=-	
,	able Attic Storage: Lumber Increase=1.25, Plate In	crease=1.25
Uniform Loads (pl		
	20, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 11-12=-	
		WFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl	ı) 45, 2-5=-49, 5-7=-59, 7-8=-47, 8-11=-37, 11-12≕	24 40 24 20 47 40 40 46 47 50 42 46 20
	=-45, 2-5=-49, 5-7=-59, 7-6=-47, 6-11=-37, 11-12= =2, 2-7=6, 7-11=6, 11-12=10, 2-21=16, 11-13=5	-34, 16-21=-20, 17-16=-40, 13-17=-50, 13-15=-20
		WFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl	. ,	WERS WIND (Neg. III) Right). Lumber increase=1.00, Flate increase=1.00
u u	ı) =-34, 2-5=-37, 5-7=-47, 7-8=-59, 8-11=-49, 11-12≕	-45 18-2120 17-1840 15-1750 13-1520
	=-10, 2-7=-6, 7-11=-6, 11-12=-2, 2-21=-5, 11-13=-	
		WFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl	5	wind wind (weg. my for f dialier). Lumber morease=1.00, f late morease=1.00
	יי =-40, 2-5=-44, 5-7=-54, 7-8=-54, 8-11=-44, 11-12=∘	-40 18-21=-20 17-18=-40 15-17=-50 13-15=-20
	=-3, 2-7=1, 7-11=-1, 11-12=3, 2-21=-8, 11-13=8	10, 10 21 - 20, 11 10 - 10, 10 11 - 00, 10 10 - 20
		WFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl	. ,	
	., =-40, 2-5=-44, 5-7=-54, 7-8=-54, 8-11=-44, 11-12≕	-40. 18-21=-20. 17-18=-40. 15-17=-50. 13-15=-20
	=-3, 2-7=1, 7-11=-1, 11-12=3, 2-21=-8, 11-13=8	-,,,
28) Dead + 0.75 Roof	Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.	6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl	f)	
Vert: 1-2=	-52, 2-5=-56, 5-7=-66, 7-8=-54, 8-11=-44, 11-12=	-40, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20
Horz: 1-2	=2, 2-7=6, 7-11=6, 11-12=10, 2-21=16, 11-13=5	
29) Dead + 0.75 Roof	Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.	6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl	f)	
	=-40, 2-5=-44, 5-7=-54, 7-8=-66, 8-11=-56, 11-12=	
	=-10, 2-7=-6, 7-11=-6, 11-12=-2, 2-21=-5, 11-13=-	
		6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl		
	-47, 2-5=-51, 5-7=-61, 7-8=-61, 8-11=-51, 11-12=-	-47, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20
	=-3, 2-7=1, 7-11=-1, 11-12=3, 2-21=-8, 11-13=8	ONIVERO M(ad (Mar, Jak) Ord Devellal), Lumber Jacobert, 4.00, Dista Jacobert, 4.00
,	. ,	6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl	,	47 48 94 99 47 49 40 46 47 50 49 46 99
	47, 2-5=-51, 5-7=-61, 7-8=-61, 8-11=-51, 11-12=-	-47, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20
	=-3, 2-7=1, 7-11=-1, 11-12=3, 2-21=-8, 11-13=8	oroooo 1.15
34) 1st Dead + Roof L Uniform Loads (pl	ive (unbalanced): Lumber Increase=1.15, Plate Inc	CIEdSE=1.10
u u	ı) =-60, 2-5=-60, 5-7=-70, 7-8=-30, 8-11=-20, 11-12=∘	-20 18-2120 17-1840 13-1720
	60, 2-5=-60, 5-7=-70, 7-8=-30, 8-11=-20, 11-12=- Live (unbalanced): Lumber Increase=1.15, Plate Ir	
Uniform Loads (pl		
	יי =-20, 2-5=-20, 5-7=-30, 7-8=-70, 8-11=-60, 11-12=∘	-60 18-21=-20 17-18=-40 13-17=-20
	Roof Live (unbalanced) + 0.75 Uninhab. Attic Stora	
Uniform Loads (pl		go. Eanson morodoo-1.10, Flate morodoo-1.10
u u	'′ =-50, 2-5=-50, 5-7=-60, 7-8=-30, 8-11=-20, 11-12=∘	-20, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20
	Roof Live (unbalanced) + 0.75 Uninhab. Attic Storag	
Uniform Loads (nl		G · · · · · · · · · · · · · · · · · ·

Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-60, 8-11=-50, 11-12=-50, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20

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LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.16 BC 0.05 WB 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 0.00	(loc) 1 1 5	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R						Weight: 16 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

REACTIONS. (size) 7=2-10-8, 5=2-10-8, 6=2-10-8 Max Horz 7=73(LC 11) Max Uplift 7=-25(LC 14), 5=-7(LC 11), 6=-21(LC 11) Max Grav 7=149(LC 2), 5=44(LC 24), 6=96(LC 24)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 2-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) 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 live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 8) between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5, 6.
- 10) 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.



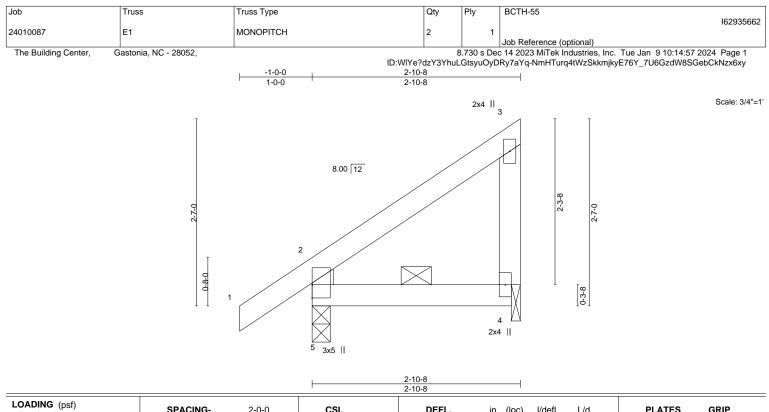
Structural wood sheathing directly applied or 2-10-8 oc purlins,

except end verticals.

2-0-0 oc bracing.

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TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.10 BC 0.06 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc -0.00 4- -0.00 4- 0.00	-5 >999	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R					Weight: 15 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2			RACING- DP CHORD S	Structural wo	od sheathir	g directly ap	plied or 2-10-8 oc purl	ins,

BOT CHORD

except end verticals.

2-0-0 oc bracing.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (size) 5=0-3-0, 4=0-1-8 Max Horz 5=73(LC 11) Max Uplift 5=-31(LC 14), 4=-18(LC 11) Max Grav 5=187(LC 2), 4=96(LC 24)

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

NOTES-

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 9) 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.

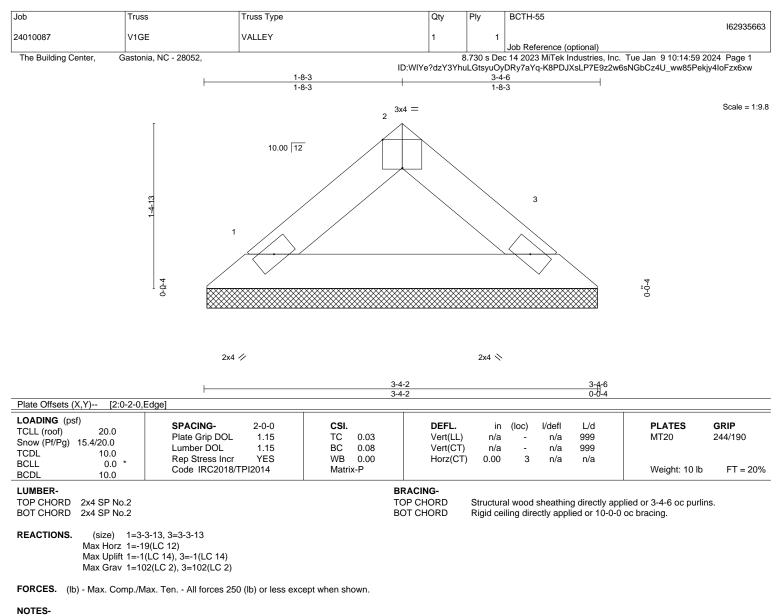


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1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) Gable requires continuous bottom chord bearing.

- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 8) 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.



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