

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24031309 BCTH-39

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: I64319506 thru I64319511

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

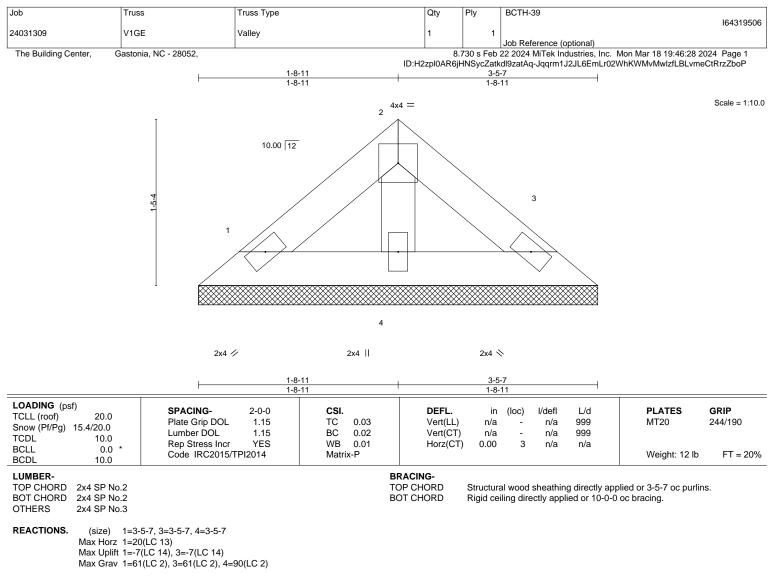
North Carolina COA: C-0844



March 20,2024

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.



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

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=120mph 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(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 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.

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

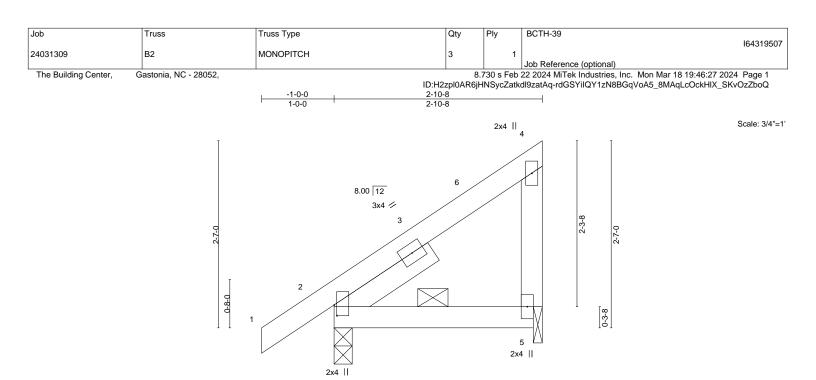
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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/TP11 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)

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Edenton, NC 27932



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Plate Offsets	(X,Y) [2:0-1-13	,0-0-7]							
LOADING (p: TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	20.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.11 BC 0.08 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo -0.00 2 -0.01 2 0.00	5 >999	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS SLIDER		3 1-6-13	T		Structural wo except end v 1-6-0 oc brad	erticals.	ng directly ap	pplied or 2-10-8 oc purl	lins,

REACTIONS. (size) 2=0-3-0, 5=0-1-8 Max Horz 2=69(LC 11) Max Uplift 2=-27(LC 14), 5=-16(LC 11) Max Grav 2=180(LC 2), 5=104(LC 24)

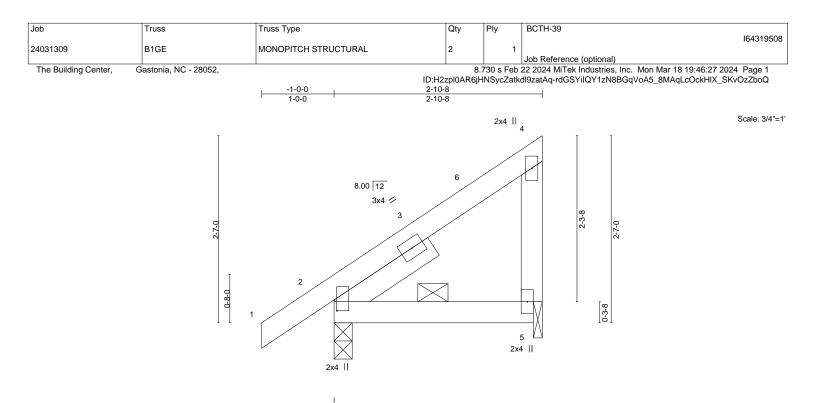
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=120mph 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(2) -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
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 5 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) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



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LOADING (psf) TCLL (roof) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.11	DEFL. Vert(LL)	in (loc) -0.00 2-5	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.08 WB 0.00	Vert(CT) Horz(CT)	-0.01 2-5	>999	180 n/a	WT20	244/190
BCLL 0.0 * BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 17 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2				Structural woo		g directly ap	oplied or 2-10-8 oc purl	ins,
WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No.	3 1-6-13	BC		1-6-0 oc bracir				

REACTIONS. (size) 2=0-3-0, 5=0-1-8 Max Horz 2=69(LC 11) Max Uplift 2=-27(LC 14), 5=-16(LC 11) Max Grav 2=180(LC 2), 5=104(LC 24)

Plate Offsets (X,Y)-- [2:0-1-13.0-0-7]

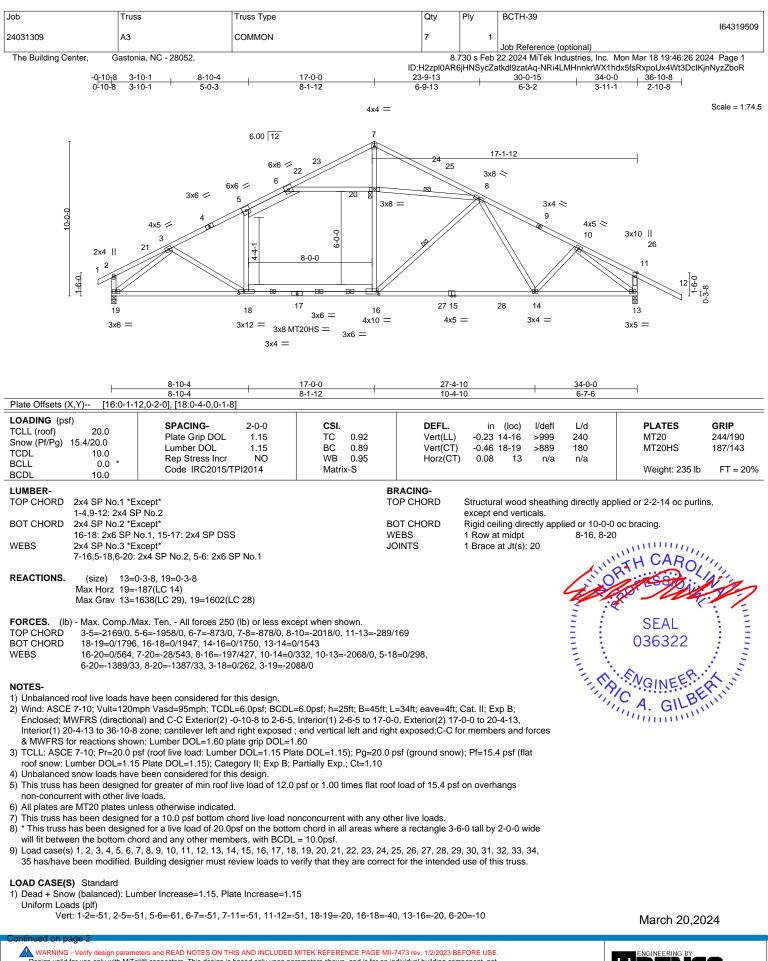
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=120mph 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(2) -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
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- 5) Gable studs spaced at 1-4-0 oc.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



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Job	Truss	Truss Type	Qty	Ply	BCTH-39						
24031309	A3	COMMON	7	1		I64319509					
The Building Center, 0	Gastonia, NC - 28052,		8	730 s Feb	Job Reference (optional) 22 2024 MiTek Industries, Inc. Mon Mar 1	8 19:46:26 2024 Page 2					
the Danang Conton,	20002,				atkdl9zatAq-NRi4LMHnnkrWX1hdx5fsRxpc						
LOAD CASE(S) Standard											
 Dead + Roof Live (bala Uniform Loads (plf) 	nced): Lumber Increase=1.15	5, Plate Increase=1.15									
Vert: 1-2=-60, 2		11=-60, 11-12=-60, 18-19=-20, 16-18=-40,									
Uniform Loads (plf)											
Vert: 1-2=-50, 2-5=-50, 5-6=-60, 6-7=-50, 7-11=-50, 11-12=-50, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 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		11=-43, 11-12=-43, 18-19=-20, 16-18=-70,		7-28=-50,	13-28=-20, 6-20=-10						
5) Dead + 0.75 Snow (Uni Uniform Loads (plf)	bal. Left) + 0.75 Uninhab. Atti	c Storage: Lumber Increase=1.15, Plate In	crease=1.15								
		7-22=-65, 7-11=-27, 11-12=-27, 18-19=-20, ttic Storage: Lumber Increase=1.15, Plate I		6-27=-20,	27-28=-50, 13-28=-20, 6-20=-10						
Uniform Loads (plf)	5,	,		2 27 20	27 29 50 12 29 20 6 20 10						
		25=-63, 11-25=-43, 11-12=-43, 18-19=-20, Increase=1.25, Plate Increase=1.25	, 10-18=-70, 10	5-27≡-20 ,	27-28=-50, 13-28=-20, 6-20=-10						
Uniform Loads (plf) Vert: 1-2=-20.2	2-5=-20. 5-6=-30. 6-7=-20. 7-	11=-20, 11-12=-20, 18-19=-40, 16-18=-60,	. 13-16=-40. 6-	20=-10							
		r Increase=1.60, Plate Increase=1.60	,, -								
Vert: 1-2=46, 2		=14, 7-24=24, 11-24=14, 11-12=9, 18-19=-		, 13-16=-′	12, 6-20=-10						
		5, 11-24=26, 11-12=21, 2-19=14, 11-13=26 r Increase=1.60, Plate Increase=1.60	6								
Uniform Loads (plf)	5-14 5-6-4 6-23-14 7-23-	24, 7-26=14, 11-26=24, 11-12=46, 18-19=-	.12 16-1832	13-16	12 6-2010						
Horz: 1-2=-21,	2-23=-26, 7-23=-36, 7-26=26	6, 11-26=36, 11-12=58, 2-19=-26, 11-13=-1		, 10 10-	12, 0 20- 10						
10) Dead + 0.6 C-C Wind Uniform Loads (plf)	(Neg. Internal) Case 1: Lumb	per Increase=1.60, Plate Increase=1.60									
	, 2-5=-33, 5-6=-43, 6-7=-33, 7 2-7=13, 7-11=-13, 11-12=-8,	7-11=-33, 11-12=-28, 18-19=-20, 16-18=-4 -2-19=-17 11-13=-24	0, 13-16=-20, 6	6-20=-10							
11) Dead + 0.6 C-C Wind		per Increase=1.60, Plate Increase=1.60									
Uniform Loads (plf) Vert: 1-2=-28	, 2-5=-33, 5-6=-43, 6-7=-33, 7	7-11=-33, 11-12=-12, 18-19=-20, 16-18=-4	0, 13-16=-20, 6	6-20=-10							
	2-7=13, 7-11=-13, 11-12=8, 2 Vind (Pos_Internal) Left: Lum	2-19=24, 11-13=17 ber Increase=1.60, Plate Increase=1.60									
Uniform Loads (plf)	, , , , , , , , , , , , , , , , , , ,			•							
	2-5=-0, 5-6=-10, 6-7=-0, 7-1 1, 2-7=-12, 7-11=17, 11-12=1	1=5, 11-12=1, 18-19=-12, 16-18=-32, 13-16 3, 2-19=13, 11-13=15	6=-12, 6-20=-1	0							
 Dead + 0.6 MWFRS V Uniform Loads (plf) 	Vind (Pos. Internal) Right: Lui	mber Increase=1.60, Plate Increase=1.60									
Vert: 1-2=1, 2	2-5=5, 5-6=-5, 6-7=5, 7-11=-0 3, 2-7=-17, 7-11=12, 11-12=2	, 11-12=12, 18-19=-12, 16-18=-32, 13-16=	-12, 6-20=-10								
14) Dead + 0.6 MWFRS V		ber Increase=1.60, Plate Increase=1.60									
Uniform Loads (plf) Vert: 1-2=-23	, 2-5=-27, 5-6=-37, 6-7=-27, 7	7-11=-12, 11-12=-7, 18-19=-20, 16-18=-40	, 13-16=-20, 6-	20=-10							
	2-7=7, 7-11=8, 11-12=13, 2-1 Vind (Neg. Internal) Right: Lu	9=22, 11-13=6 mber Increase=1.60, Plate Increase=1.60									
Uniform Loads (plf)			40.40.00.0	00 40							
Horz: 1-2=-13	3, 2-7=-8, 7-11=-7, 11-12=-3,		, ,	20=-10							
 Dead + 0.6 MWFRS V Uniform Loads (plf) 	Vind (Pos. Internal) 1st Parall	el: Lumber Increase=1.60, Plate Increase=	=1.60								
Vert: 1-2=25,	2-5=13, 5-6=3, 6-7=13, 7-11; 7, 2-7=-25, 7-11=25, 11-12=3	=13, 11-12=25, 18-19=-12, 16-18=-32, 13-	16=-12, 6-20=-	-10							
17) Dead + 0.6 MWFRS V		llel: Lumber Increase=1.60, Plate Increase	=1.60								
Uniform Loads (plf) Vert: 1-2=16,	2-5=4, 5-6=-6, 6-7=4, 7-11=4	4, 11-12=16, 18-19=-12, 16-18=-32, 13-16=	=-12, 6-20=-10								
	8, 2-7=-16, 7-11=16, 11-12=2 Vind (Neg. Internal) 1st Paral	8, 2-19=-19, 11-13=19 lel: Lumber Increase=1.60, Plate Increase=	=1.60								
Uniform Loads (plf)	,			2 20 40							
Horz: 1-2=-4,	2-7=1, 7-11=-1, 11-12=4, 2-1			5-20=-10							
19) Dead + 0.6 MWFRS V Uniform Loads (plf)	Vind (Neg. Internal) 2nd Para	Ilel: Lumber Increase=1.60, Plate Increase	=1.60								
	, 2-5=-21, 5-6=-31, 6-7=-21, 7 2-7=1, 7-11=-1, 11-12=4, 2-1	7-11=-21, 11-12=-16, 18-19=-20, 16-18=-4	0, 13-16=-20, 0	6-20=-10							
20) Dead + Snow on Over	rhangs: Lumber Increase=1.1										
Uniform Loads (plf) Vert: 1-2=-51	, 2-5=-20, 5-6=-30, 6-7=-20, 7	7-11=-20, 11-12=-51, 18-19=-20, 16-18=-4	0, 13-16=-20, 6	6-20=-10							
	Left): Lumber Increase=1.15										
Vert: 1-2=-51		7-22=-80, 7-11=-29, 11-12=-29, 18-19=-20	0, 16-18=-40, ⁻	13-16=-20), 6-20=-10						
22) Dead + Snow (Unbal. Uniform Loads (plf)	Right): Lumber Increase=1.1	5, Mate Increase=1.15									
Vert: 1-2=-29	, 2-5=-29, 5-6=-39, 6-7=-29, 7	7-25=-77, 11-25=-51, 11-12=-51, 18-19=-2	0, 16-18=-40, 1	13-16=-20), 6-20=-10						
Continued on page 3											

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Job	Truss	Truss Type	Qty	Ply	BCTH-39		
24031309	A3	COMMON	7	1	164319509		
21001000			ľ.		Job Reference (optional)		
The Building Center, 0	Gastonia, NC - 28052,	8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:46:26 2024 Page 3					

ID:H2zpl0AR6iHNSvcZatkdl9zatAg-NRi4LMHnnkrWX1hdx5fsRxpoUx4Wt3DclKinNvzZboR

LOAD CASE(S) Standard

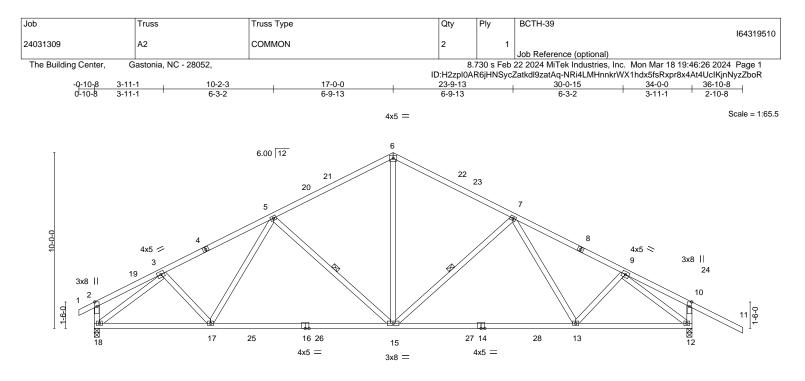
23) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

- Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-20, 11-12=-20, 18-19=-20, 16-18=-80, 16-27=-20, 27-28=-60, 13-28=-20, 6-20=-10 24) Dead + 0.75 Snow (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 (plf)
 - Vert: 1-2=-45, 2-5=-49, 5-6=-59, 6-7=-49, 7-11=-37, 11-12=-34, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=2, 2-7=6, 7-11=6, 11-12=10, 2-19=16, 11-13=5
- 25) Dead + 0.75 Snow (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 (plf)
 - Vert: 1-2=-34, 2-5=-37, 5-6=-47, 6-7=-37, 7-11=-49, 11-12=-45, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-10, 2-7=-6, 7-11=-6, 11-12=-2, 2-19=-5, 11-13=-16
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-40, 2-5=-44, 5-6=-54, 6-7=-44, 7-11=-44, 11-12=-40, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8
- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
- Vert: 1-2=-40, 2-5=-44, 5-6=-54, 6-7=-44, 7-11=-44, 11-12=-40, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-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 (plf)
 - Vert: 1-2=-52, 2-5=-56, 5-6=-66, 6-7=-56, 7-11=-44, 11-12=-40, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=2, 2-7=6, 7-11=6, 11-12=10, 2-19=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 (plf)
- Vert: 1-2--40, 2-5=-44, 5-6=-54, 6-7=-44, 7-11=-56, 11-12=-52, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-10, 2-7=-6, 7-11=-6, 11-12=-2, 2-19=-5, 11-13=-16
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-47, 2-5=-51, 5-6=-61, 6-7=-51, 7-11=-51, 11-12=-47, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-47, 2-5=-51, 5-6=-61, 6-7=-51, 7-11=-51, 11-12=-47, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-19=-8, 11-13=8
- 32) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-60, 2-5=-60, 5-6=-70, 6-7=-60, 7-11=-20, 11-12=-20, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10
- 33) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf) Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-60, 11-12=-60, 18-19=-20, 16-18=-40, 13-16=-20, 6-20=-10
- 34) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-50, 2-5=-50, 5-6=-60, 6-7=-50, 7-11=-20, 11-12=-20, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10 35) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-20, 2-5=-20, 5-6=-30, 6-7=-20, 7-11=-50, 11-12=-50, 18-19=-20, 16-18=-70, 16-27=-20, 27-28=-50, 13-28=-20, 6-20=-10

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	6-7-6	1	17-0-0			27-4-10		34-0-0	
	6-7-6	1	10-4-10)	1 1	10-4-10	1	6-7-6	
LOADING (psf TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL) 20.0 15.4/20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/7	2-0-0 1.15 1.15 YES 'PI2014	CSI. TC 0.75 BC 0.85 WB 0.87 Matrix-S	DEFL. Vert(LL) Vert(CT Horz(C1) -0.50 15-17 >81	9 240 1 180	PLATES MT20 Weight: 203 lb	GRIP 244/190 FT = 20%
LUMBER-	2x4 SP No.2				BRACING-		*	enalised or 2.2.45 as avail	
	2x4 SP No.2 *Excep	t*			TOP CHORD	except end verticals.	uning directly	applied or 3-2-15 oc purl	ins,
	14-16: 2x4 SP No.1				BOT CHORD	Rigid ceiling directly a		Ŭ	
WEBS	2x4 SP No.3				WEBS	1 Row at midpt	7-15, 5	5-15	

REACTIONS. (size) 18=0-3-8, 12=0-3-8 Max Horz 18=-187(LC 14) Max Uplift 18=-33(LC 16), 12=-88(LC 16) Max Grav 18=1402(LC 2), 12=1537(LC 2)

9-12=-1872/88

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

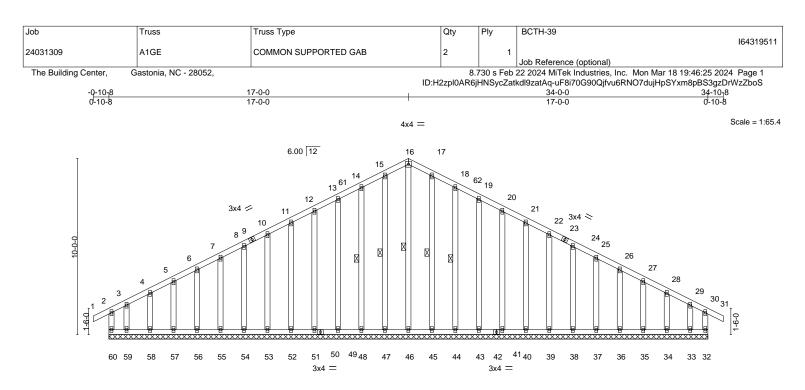
- TOP CHORD 3-5=-1822/133, 5-6=-1432/173, 6-7=-1432/163, 7-9=-1785/114, 10-12=-279/172
- BOT CHORD 17-18=-1/1550, 15-17=0/1609, 13-15=0/1508, 12-13=0/1373
- WEBS 6-15=-21/885, 7-15=-472/119, 9-13=0/274, 5-15=-491/123, 3-18=-1805/71,

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph 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(2) -0-10-8 to 2-6-5, Interior(1) 2-6-5 to 17-0-0, Exterior(2) 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 DOI = 1 60 plate orip DOI = 1 60
- & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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) All plates are 3x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12.



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		<u> </u>						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.17 BC 0.09 WB 0.10 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 31 -0.00 31 -0.00 32	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 310 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2				Structural wood		g directly app	plied or 6-0-0 oc purlins	5,

LUWDER-		DRACING-						
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purling					
BOT CHORD	2x4 SP No.2		except end verticals.					
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.					
OTHERS	2x4 SP No.3	WEBS	1 Row at midpt	16-46, 15-47, 14-48, 17-45, 18-44				

REACTIONS. All bearings 34-0-0.

(lb) - Max Horz 60=-175(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33 except 60=-135(LC 14), 59=-136(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 60, 32, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 45, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33

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

TOP CHORD 12-13=-85/272, 13-14=-95/299, 14-15=-106/330, 15-16=-109/341, 16-17=-109/336,

17-18=-106/325, 18-19=-95/293, 19-20=-85/266

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-4-0, Exterior(2) 2-4-0 to 17-0-0, Corner(3) 17-0-0 to 20-4-13, Exterior(2) 20-4-13 to 34-10-8 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) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10

5) Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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.

12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33 except (jt=lb) 60=135, 59=136.



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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

