

Trenco 818 Soundside Rd Edenton, NC 27932

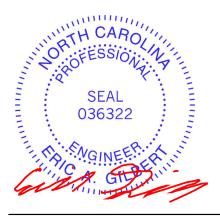
Re: 24010113 BCTH-70

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: I62936016 thru I62936027

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

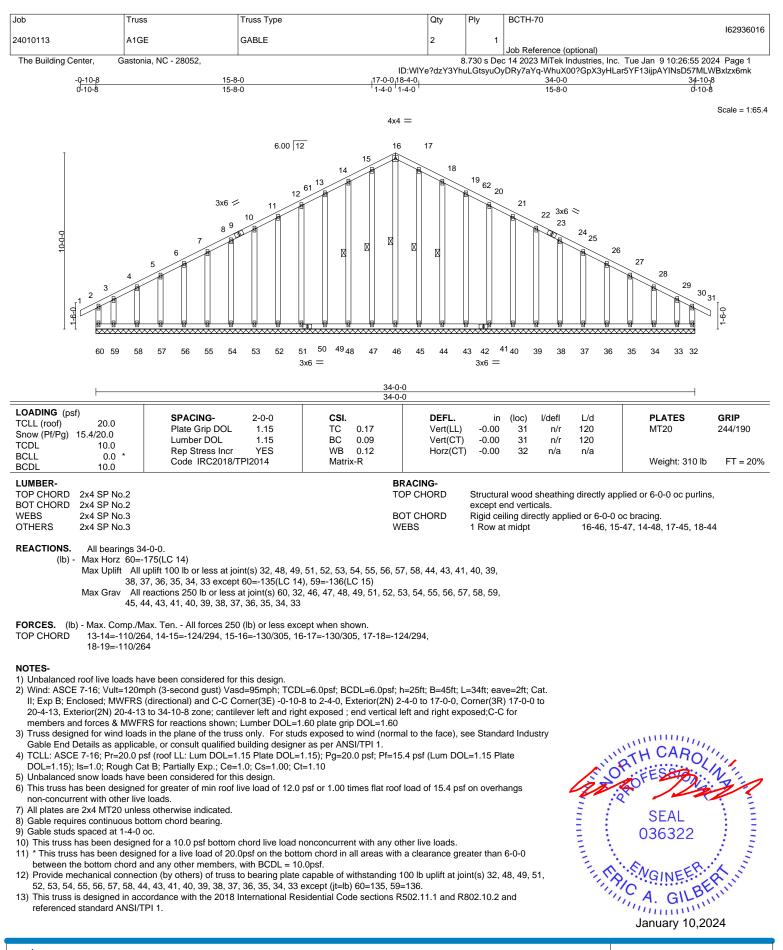
North Carolina COA: C-0844



January 10,2024

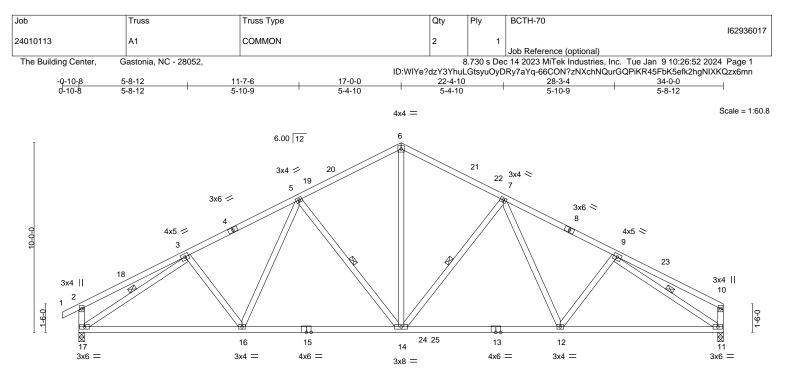
Gilbert, Eric

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.



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818 Soundside Road



	<u>8-7-5</u> 8-7-5		<u>17-0-0</u> 8-4-11			-4-12 -4-12			<u>34-0-0</u> 8-7-5	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.45 0.80 0.58 <-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.36 0.09	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 206 lb	GRIP 244/190 FT = 20%
LUMBER-				в	RACING-					

TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*
	13-15: 2x4 SP No.1
WEBS	2x4 SP No.3

REACTIONS. (size) 11=0-3-8, 17=0-3-8 Max Horz 17=173(LC 15) Max Uplift 11=-10(LC 16), 17=-35(LC 16)

Max Grav 11=1448(LC 29), 17=1503(LC 28)

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

TOP CHORD 3-5=-2042/114, 5-6=-1618/155, 6-7=-1617/156, 7-9=-2048/118, 2-17=-304/99

BOT CHORD 16-17=-70/1827, 14-16=-27/1738, 12-14=-16/1666, 11-12=-63/1729

WFBS 7-14=-505/94, 7-12=0/295, 6-14=-39/1144, 5-14=-504/94, 5-16=0/291, 3-17=-1959/43, 9-11=-1998/69

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 33-10-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 17.
- 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.



Structural wood sheathing directly applied or 3-10-3 oc purlins,

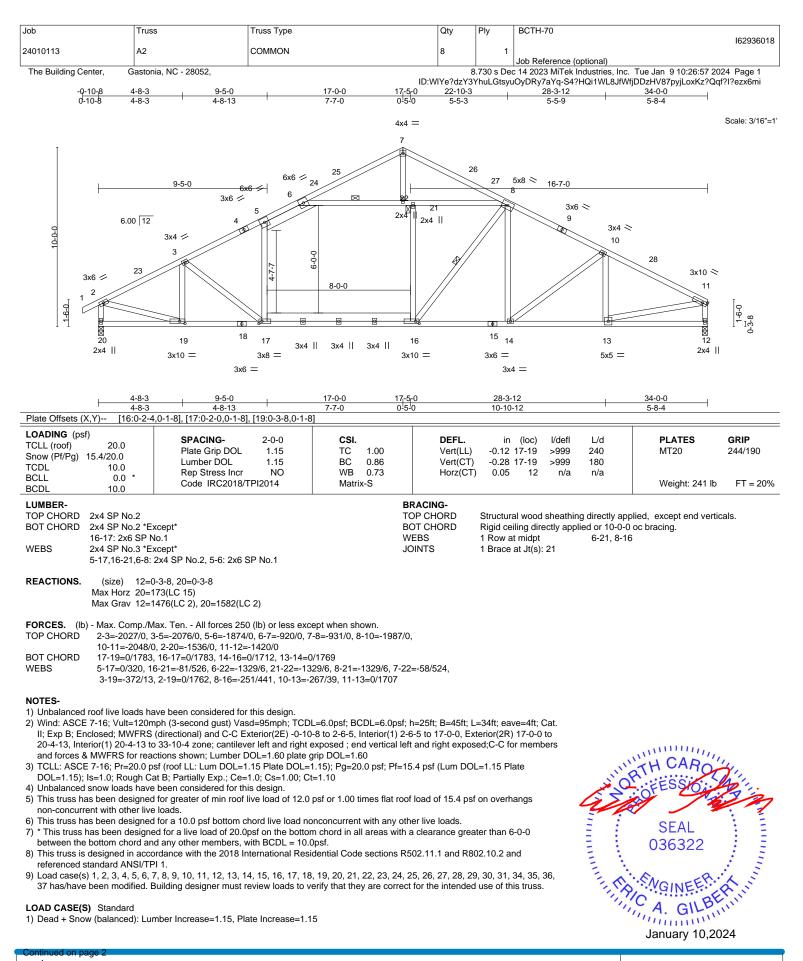
7-14, 5-14, 3-17, 9-11

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

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Job	Truss	Truss Type	Qty	Ply	BCTH-70					
24010113	A2	COMMON	8	1		162936018				
	Gastonia, NC - 28052,			730 s Dei	Job Reference (optional) c 14 2023 MiTek Industries, Inc. Tue Jan 9 10:26:58 2024	Page 2				
The Building Contor,	20002,	IC			yDRy7aYq-wGZfe2286RRW8pIPmgokhLL7TI7A3QFa3JIrX4					
	2-5=-51, 5-7=-61, 7-8=-61, 8-	11=-51, 17-20=-20, 16-17=-40, 12-16=-20								
Uniform Loads (plf)	nced): Lumber Increase=1.15	5, Plate Increase=1.15 11=-60, 17-20=-20, 16-17=-40, 12-16=-20								
3) Dead + 0.75 Roof Live (Uniform Loads (plf)	(balanced) + 0.75 Uninhab. A	ttic Storage: Lumber Increase=1.15, Plate								
		11=-50, 17-20=-20, 16-17=-40, 14-16=-50, Storage: Lumber Increase=1.15, Plate Incr								
Vert: 1-2=-43, 2										
6) Dead + 0.75 Snow (Unb Uniform Loads (plf)	oal. Right) + 0.75 Uninhab. A	7-8=-37, 8-11=-27, 17-20=-20, 16-17=-40, ttic Storage: Lumber Increase=1.15, Plate I	ncrease=1.15							
 Dead + Uninhabitable A Uniform Loads (plf) 	ttic Without Storage: Lumber	3-27=-53, 8-11=-43, 17-20=-20, 16-17=-40, Increase=1.25, Plate Increase=1.25	14-16=-50, 12	-14=-20						
		11=-20, 17-20=-40, 16-17=-60, 12-16=-40 r Increase=1.60, Plate Increase=1.60								
Horz: 1-2=-50, 9) Dead + 0.6 C-C Wind (F	2-23=-30, 7-23=-25, 7-26=35	6=13, 8-26=3, 8-11=13, 17-20=-12, 16-17= 5, 11-26=25, 2-20=21, 11-12=32 r Increase=1.60, Plate Increase=1.60	-32, 12-16=-12							
		3, 8-28=13, 11-28=18, 17-20=-12, 16-17=-3 5, 11-28=30, 2-20=-32, 11-12=-21	32, 12-16=-12							
Uniform Loads (plf)	,	per Increase=1.60, Plate Increase=1.60 3-11=-32, 17-20=-20, 16-17=-40, 12-16=-20	0							
	2-7=12, 7-11=-12, 2-20=30, (Neg. Internal) Case 2: Lumb	11-12=23 er Increase=1.60, Plate Increase=1.60								
Vert: 1-2=-28, Horz: 1-2=8, 2	2-7=12, 7-11=-12, 2-20=-23,		0							
Uniform Loads (plf)	, ,	ber Increase=1.60, Plate Increase=1.60 1=5, 17-20=-12, 16-17=-32, 12-16=-12								
	, 2-7=-12, 7-11=17, 2-20=13 /ind (Pos. Internal) Right: Lui	, 11-12=15 mber Increase=1.60, Plate Increase=1.60								
Vert: 1-2=1, 2	-5=5, 5-7=-5, 7-8=-10, 8-11= , 2-7=-17, 7-11=12, 2-20=-15	-0, 17-20=-12, 16-17=-32, 12-16=-12 5, 11-12=-13								
14) Dead + 0.6 MWFRS V Uniform Loads (plf)	Vind (Neg. Internal) Left: Lum	ber Increase=1.60, Plate Increase=1.60	2							
Horz: 1-2=3, 2	2-7=7, 7-11=8, 2-20=22, 11-1	3-11=-12, 17-20=-20, 16-17=-40, 12-16=-20 2=6 mber Increase=1.60, Plate Increase=1.60	J							
		-11=-27, 17-20=-20, 16-17=-40, 12-16=-20								
16) Dead + 0.6 MWFRS V Uniform Loads (plf)	, ,	el: Lumber Increase=1.60, Plate Increase=	1.60							
Horz: 1-2=-37 17) Dead + 0.6 MWFRS W	, 2-7=-25, 7-11=25, 2-20=-19	13, 17-20=-12, 16-17=-32, 12-16=-12 9, 11-12=19 Ilel: Lumber Increase=1.60, Plate Increase=	=1.60							
	2-5=4, 5-7=-6, 7-8=-6, 8-11= 5, 2-7=-16, 7-11=16, 2-20=-19	4, 17-20=-12, 16-17=-32, 12-16=-12), 11-12=19								
18) Dead + 0.6 MWFRS V Uniform Loads (plf)	Vind (Neg. Internal) 1st Paral	el: Lumber Increase=1.60, Plate Increase= 3-11=-21, 17-20=-20, 16-17=-40, 12-16=-20								
Horz: 1-2=-4, 19) Dead + 0.6 MWFRS W	2-7=1, 7-11=-1, 2-20=-10, 11									
Horz: 1-2=-4,	2-7=1, 7-11=-1, 2-20=-10, 11		D							
Uniform Loads (plf)	hangs: Lumber Increase=1.1 , 2-5=-20, 5-7=-30, 7-8=-30, 8	5, Plate Increase=1.15 3-11=-20, 17-20=-20, 16-17=-40, 12-16=-20	D							
Uniform Loads (plf)	Left): Lumber Increase=1.15	, Plate Increase=1.15), 7-8=-39, 8-11=-29, 17-20=-20, 16-17=-40	0, 12-16=-20							
	Right): Lumber Increase=1.1		-							

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a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
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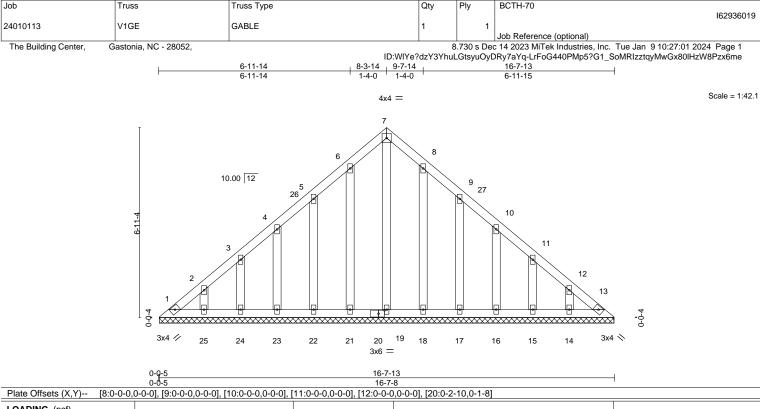


Job	Truss	Truss Type	Qty	Ply	BCTH-70
24010113	A2	COMMON	8		1
24010113	~~	CONNER	0		Job Reference (optional)
The Building Center,	Gastonia, NC - 28052,	·			Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 10:26:58 2024 Page 3
			ID:WIYe?dzY	3YhuLGtsyı	uOyDRy7aYq-wGZfe2286RRW8pIPmgokhLL7TI7A3QFa3JIrX4zx6mh
LOAD CASE(S) Stan	dard				
Uniform Loads (pl					
		-27=-90, 8-27=-61, 8-11=-51, 17-20=-2	20, 16-17=-40, 12-16=-2	0	
		er Increase=1.25, Plate Increase=1.25			
Uniform Loads (pl			10 14 16 60 10 14 6	0	
		'-8=-30, 8-11=-20, 17-20=-20, 16-17=-4 Attic Storage + 0.75(0.6 MWFRS Wind			-1.60 Plate Increase-1.60
Uniform Loads (pl			(Neg. III) Leit). Lutibei	Increase=	-1.00, 1 late increase=1.00
u u	,	⁷ -8=-47, 8-11=-37, 17-20=-20, 16-17=-4	40, 14-16=-50, 12-14=-2	0	
Horz: 1-2:	=2, 2-7=6, 7-11=6, 2-20=	=16, 11-12=5			
		Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) Right): Lumb	er Increase	e=1.60, Plate Increase=1.60
Uniform Loads (pl					
	=-34, 2-5=-37, 5-7=-47, 7 =-10, 2-7=-6, 7-11=-6, 2	'-8=-59, 8-11=-49, 17-20=-20, 16-17=-4	10, 14-16=-50, 12-14=-2	0	
	, , ,	Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) 1st Parallel):	l umber Inc	crease-1.60. Plate Increase-1.60
Uniform Loads (pl			(Neg. Int) 13t1 arallely.		
		⁻ -8=-54, 8-11=-44, 17-20=-20, 16-17=-4	40, 14-16=-50, 12-14=-2	0	
Horz: 1-2:	=-3, 2-7=1, 7-11=-1, 2-2	0=-8, 11-12=8			
,	· · ·	Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) 2nd Parallel):	Lumber In	ncrease=1.60, Plate Increase=1.60
Uniform Loads (pl				0	
	-40, 2-5=-44, 5-7=-54, 7 =-3, 2-7=1, 7-11=-1, 2-2	'-8=-54, 8-11=-44, 17-20=-20, 16-17=-4	10, 14-16=-50, 12-14=-2	0	
		ab. Attic Storage + 0.75(0.6 MWFRS W	(ind (Neg. Int) Left). Lun	her Increa	ase=1.60. Plate Increase=1.60
Uniform Loads (pl					1.00, 1 100, 1 100, 000 - 1.00
N N	,	⁻ -8=-54, 8-11=-44, 17-20=-20, 16-17=-4	40, 14-16=-50, 12-14=-2	0	
	=2, 2-7=6, 7-11=6, 2-20=				
		ab. Attic Storage + 0.75(0.6 MWFRS W	/ind (Neg. Int) Right): Lu	mber Incre	ease=1.60, Plate Increase=1.60
Uniform Loads (pl			10 14 16 50 10 14 5	0	
	=-10, 2-7=-6, 7-11=-6, 2		+0, 14-10=-30, 12-14=-2	.0	
		ab. Attic Storage + 0.75(0.6 MWFRS W	/ind (Neg. Int) 1st Parall	el): Lumbe	er Increase=1.60. Plate Increase=1.60
Uniform Loads (pl					
		7-8=-61, 8-11=-51, 17-20=-20, 16-17=-4	40, 14-16=-50, 12-14=-2	0	
	=-3, 2-7=1, 7-11=-1, 2-2				
,	()	ab. Attic Storage + 0.75(0.6 MWFRS W	(ind (Neg. Int) 2nd Para	lel): Lumbe	er Increase=1.60, Plate Increase=1.60
Uniform Loads (pl	,	-8=-61, 8-11=-51, 17-20=-20, 16-17=-4	10 14-1650 12-143	0	
	=-3, 2-7=1, 7-11=-1, 2-2		+0, 14-1030, 12-142	.0	
		er Increase=1.15, Plate Increase=1.15			
Uniform Loads (pli	f)				
		7-8=-30, 8-11=-20, 17-20=-20, 16-17=-4			
/	()	per Increase=1.15, Plate Increase=1.15	i		
Uniform Loads (pl			10 12-1620		
		0.75 Uninhab. Attic Storage: Lumber I		rease=1 15	5
Uniform Loads (pl					-
		7-8=-30, 8-11=-20, 17-20=-20, 16-17=-4	40, 14-16=-50, 12-14=-2	0	
		0.75 Uninhab. Attic Storage: Lumber In	ncrease=1.15, Plate Inc	rease=1.15	5
Uniform Loads (pl				0	

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-60, 8-11=-50, 17-20=-20, 16-17=-40, 14-16=-50, 12-14=-20

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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 IRC2018/TPI2014	CSI. TC 0.03 BC 0.02 WB 0.08 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 13	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 110 lb	GRIP 244/190 FT = 20%
LUMBER-			ACING-	O (1)		н а		
TOP CHORD 2x4 SP No.2							plied or 6-0-0 oc purlins	
BOT CHORD 2x4 SP No.2		BC	DT CHORD	Rigid ceiling di	rectly app	lied or 10-0-0) oc bracing.	

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

REACTIONS. All bearings 16-7-3.

(lb) -Max Horz 1=119(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 21, 22, 23, 24, 25, 18, 17, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 21, 22, 23, 24, 25, 18, 17, 16, 15, 14

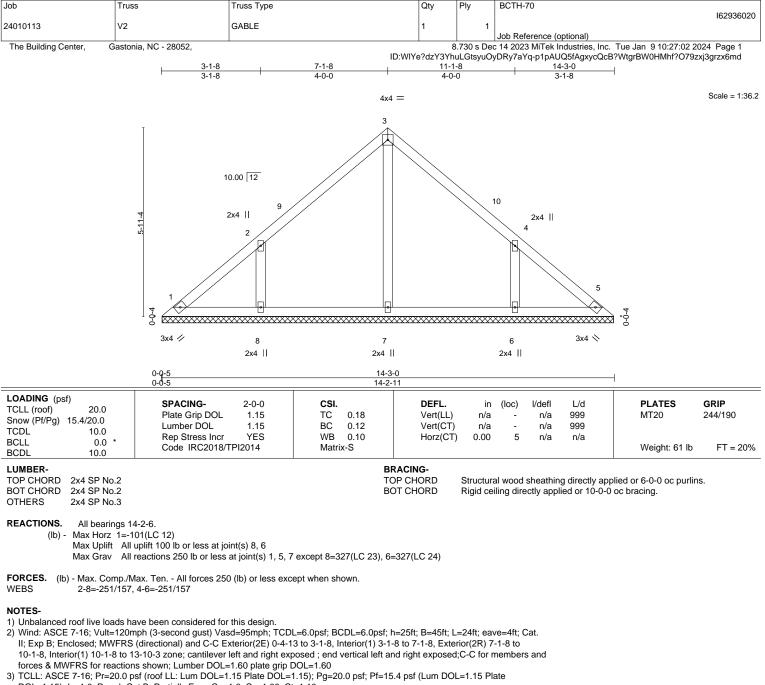
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 8-3-14, Exterior(2R) 8-3-14 to 11-3-14, Interior(1) 11-3-14 to 16-3-0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 21, 22, 23, 24, 25, 18, 17, 16, 15, 14.
- 8) Non Standard bearing condition. Review required.
- 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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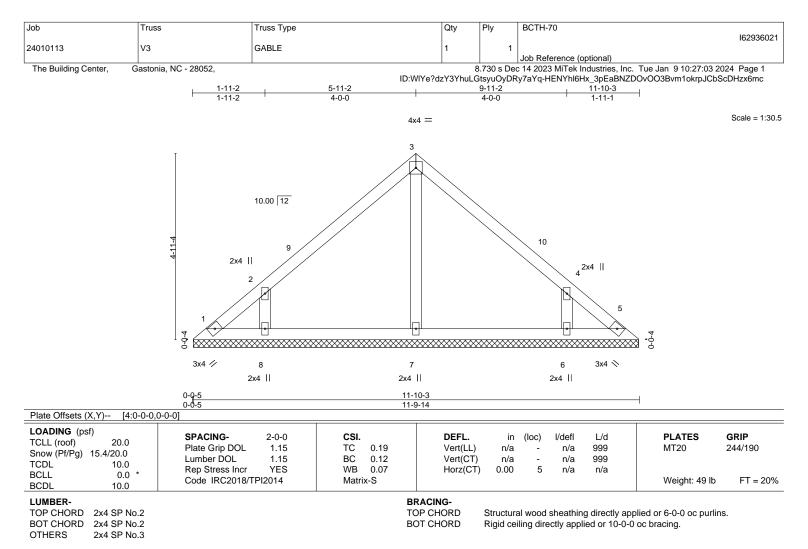
- DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf 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) 8, 6.
- 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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818 Soundside Road



REACTIONS. All bearings 11-9-10.

(lb) - Max Horz 1=-83(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=301(LC 23), 6=301(LC 24)

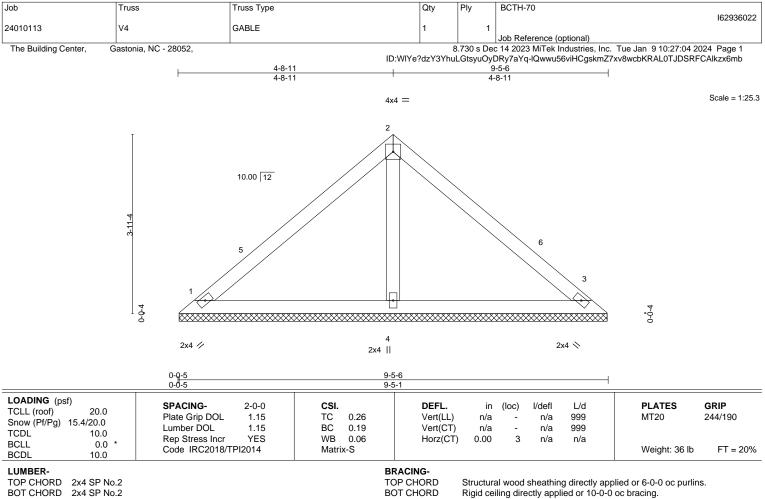
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-11-2, Exterior(2R) 5-11-2 to 8-11-2, Interior(1) 8-11-2 to 11-5-6 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, 5, 8, 6.
- 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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2x4 SP No.3 OTHERS

REACTIONS. (size) 1=9-4-13, 3=9-4-13, 4=9-4-13

Max Horz 1=65(LC 13)

Max Uplift 1=-15(LC 14), 3=-15(LC 14)

Max Grav 1=183(LC 2), 3=183(LC 2), 4=325(LC 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 7-16; 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) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-8-11, Exterior(2R) 4-8-11 to 7-8-11, Interior(1) 7-8-11 to 9-0-9 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.

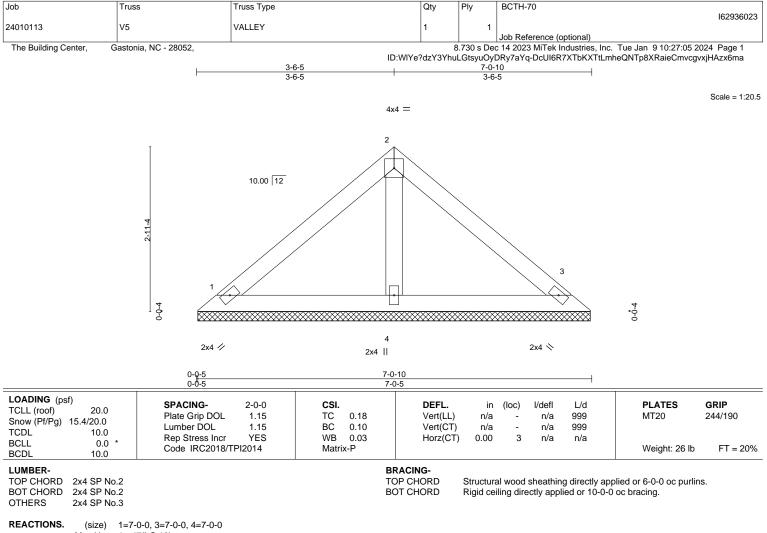
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

- 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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Max Horz 1=-47(LC 12)

Max Uplift 1=-17(LC 14), 3=-17(LC 14) Max Grav 1=143(LC 2), 3=143(LC 2), 4=213(LC 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 7-16; 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

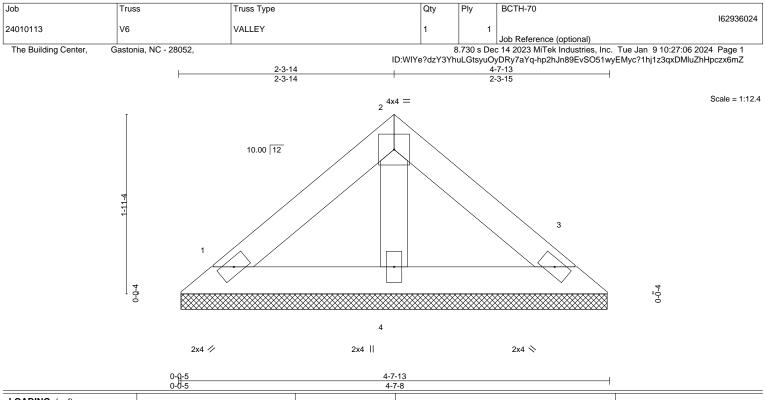
7) Non Standard bearing condition. Review required.

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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818 Soundside Road



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 IncrYESCodeIRC2018/TPI2014	CSI. TC 0.07 BC 0.04 WB 0.02 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 16 lb	GRIP 244/190 FT = 20%
LUMBER-		BF	ACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=4-7-3, 3=4-7-3, 4=4-7-3

Max Horz 1=29(LC 13)

Max Uplift 1=-11(LC 14), 3=-11(LC 14)

Max Grav 1=88(LC 2), 3=88(LC 2), 4=131(LC 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 7-16; 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

7) Non Standard bearing condition. Review required.

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.

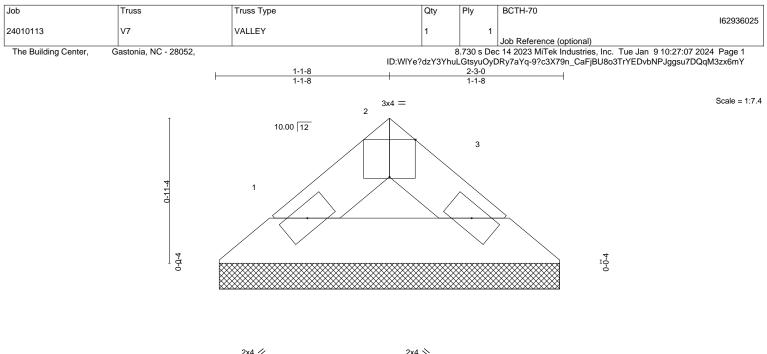


Structural wood sheathing directly applied or 4-7-13 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

	2-2-11	2-3 -0
	2-2-11	0-0-5
Plate Offsets (X,Y) [2:0-2-0,Edge]		

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 IRC2018/TPI2014	CSI. TC 0.01 BC 0.02 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 6 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2			RACING- OP CHORD	Structural woo	d sheathin	g directly ap	plied or 2-3-0 oc purl	lins.

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

REACTIONS. (size) 1=2-2-6, 3=2-2-6 Max Horz 1=-11(LC 12)

Max Grav 1=58(LC 2), 3=58(LC 2)

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

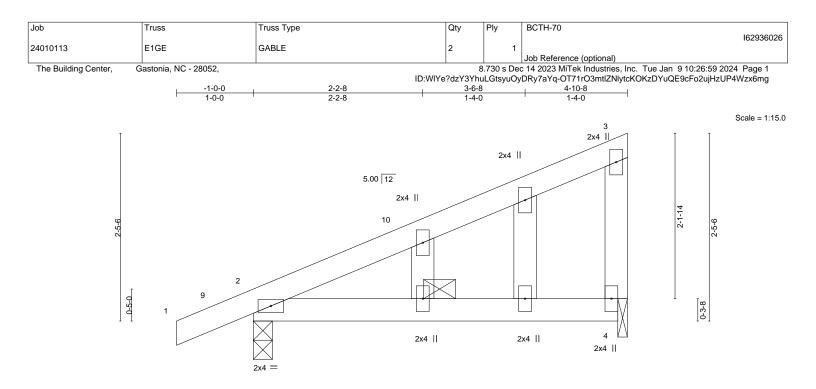
NOTES-

- 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=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) 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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818 Soundside Road



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 Code IRC2018/TPI2014	CSI. TC 0.49 BC 0.29 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.05 0.00	(loc) 2-4 2-4 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 23 lb	GRIP 244/190 FT = 20%
BCDL 10.0	Code IRC2018/1P12014	Matrix-P						weight: 23 lb	FT = 20%

sheathing directly applied or 4-10-8 oc purlins,
ticals.
g.
1

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=66(LC 13) Max Uplift 2=-31(LC 16) Max Grav 2=301(LC 21), 4=216(LC 21)

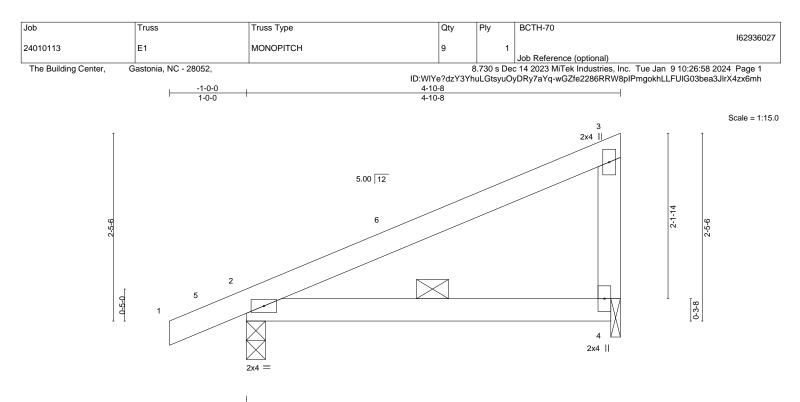
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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 4-8-12 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) 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) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 12) 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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LOADING (psf) TCLL (roof) Snow (Pf/Pg) 15 TCDL BCLL BCDL	20.0 5.4/20.0 10.0 0.0 * 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.49 BC 0.29 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.05 0.00	(loc) 2-4 2-4 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 19 lb	GRIP 244/190 FT = 20%
LUMBER-			B	RACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=66(LC 13) Max Uplift 2=-31(LC 16) Max Grav 2=301(LC 21), 4=216(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) 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=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 4-8-12 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) 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 1.00 times flat roof load of 15.4 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 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) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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 4-10-8 oc purlins,

except end verticals.

3-0-0 oc bracing.

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