

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 23126104 BCTH-61

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: I62656965 thru I62656976

My license renewal date for the state of North Carolina is December 31, 2023.

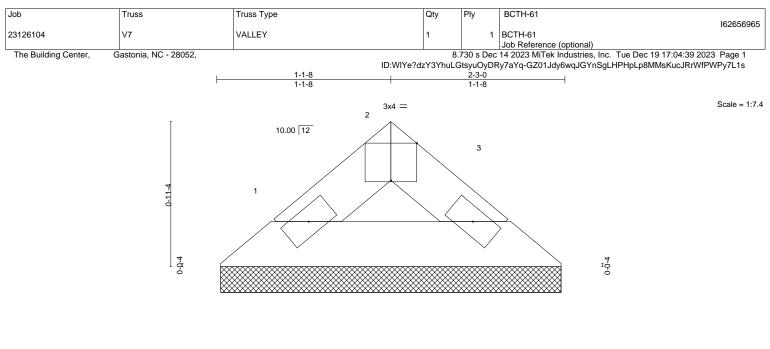
North Carolina COA: C-0844



December 20,2023

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.



2x4 🥢

2x4 🚿

Plate Offsets (X,Y) [2:0-2-0,	Edge]	<u>2-2-11</u> 2-2-11			<u>2-3</u> -0 0-0-5		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 POUL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.01 BC 0.02 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 3	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2015/TPI2014	Matrix-P				Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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 7-10; 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) 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

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.

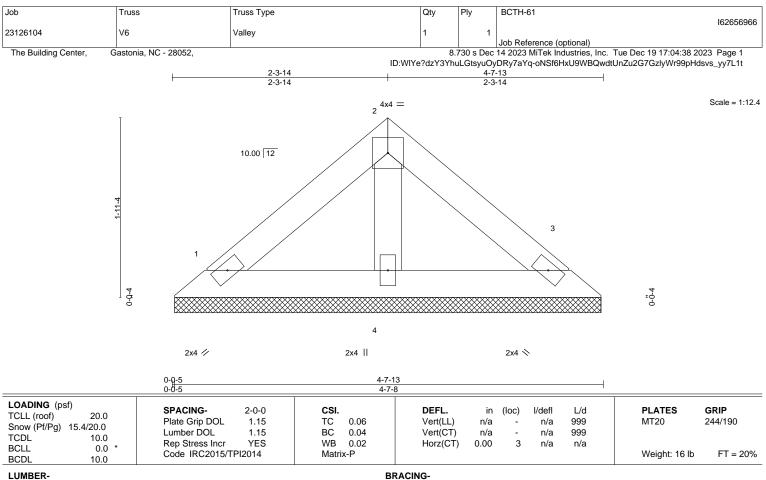
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



Structural wood sheathing directly applied or 2-3-0 oc purlins.

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

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)



TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.3

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. (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 7-10; 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) 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 7-10; 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) 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 where a rectangle 3-6-0 tall by 2-0-0 wide

will fit 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.

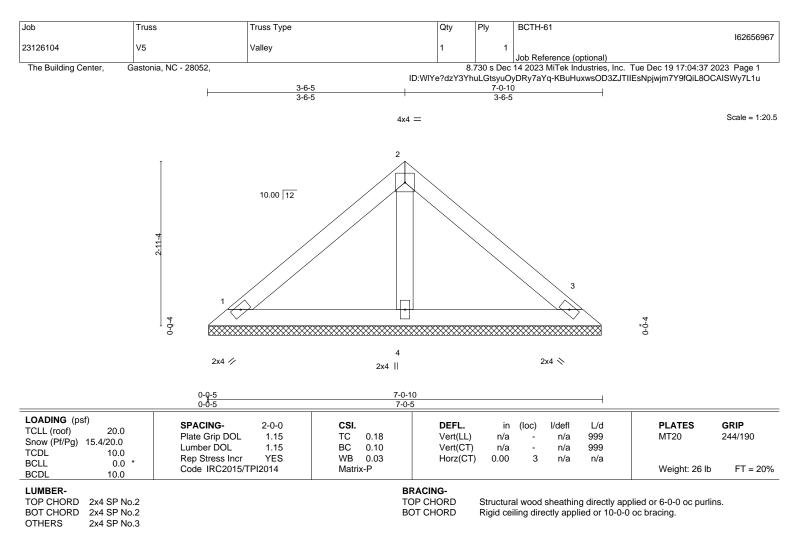


Structural wood sheathing directly applied or 4-7-13 oc purlins.

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

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818 Soundside Road



REACTIONS. (size) 1=7-0-0, 3=7-0-0, 4=7-0-0 Max Horz 1=47(LC 13) 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. (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 7-10; 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) 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 7-10; 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) Gable requires continuous bottom chord bearing.

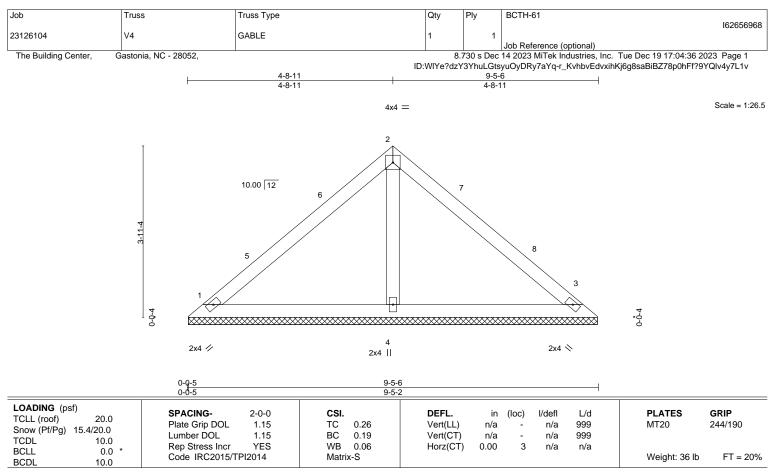
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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



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LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=9-4-13, 3=9-4-13, 4=9-4-13 Max Horz 1=-65(LC 12) 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. (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 7-10; 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) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-8-11, Exterior(2) 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 7-10; 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) 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.

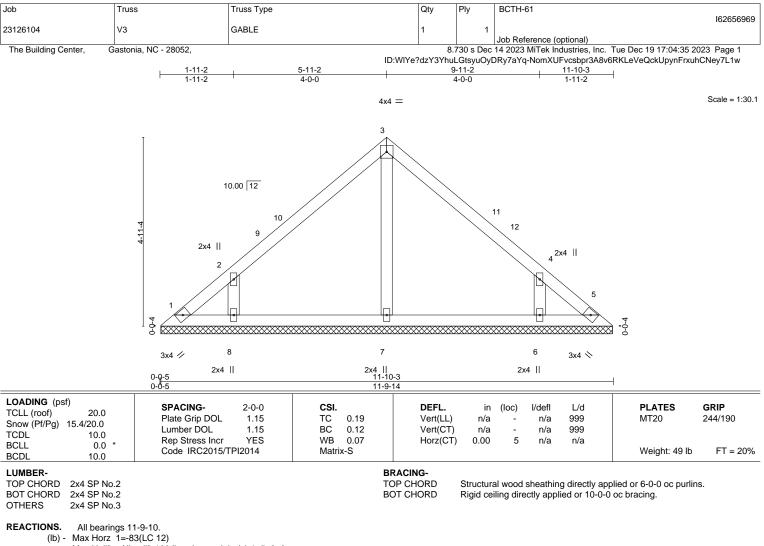
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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



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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)

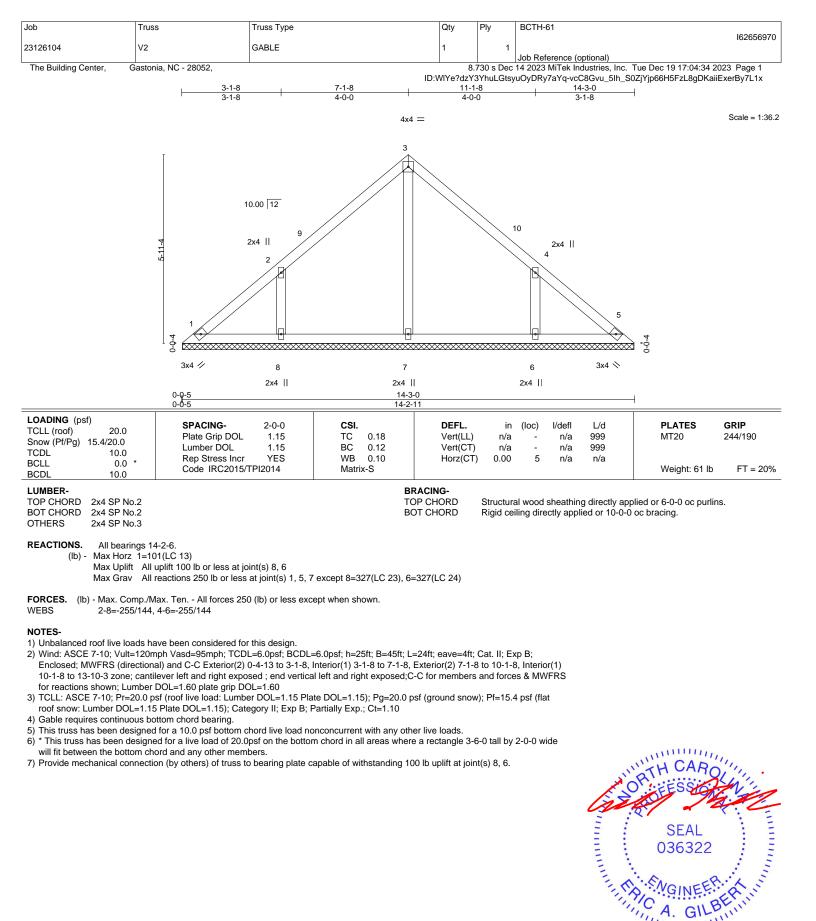
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-11-2, Exterior(2) 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 7-10; 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) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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.

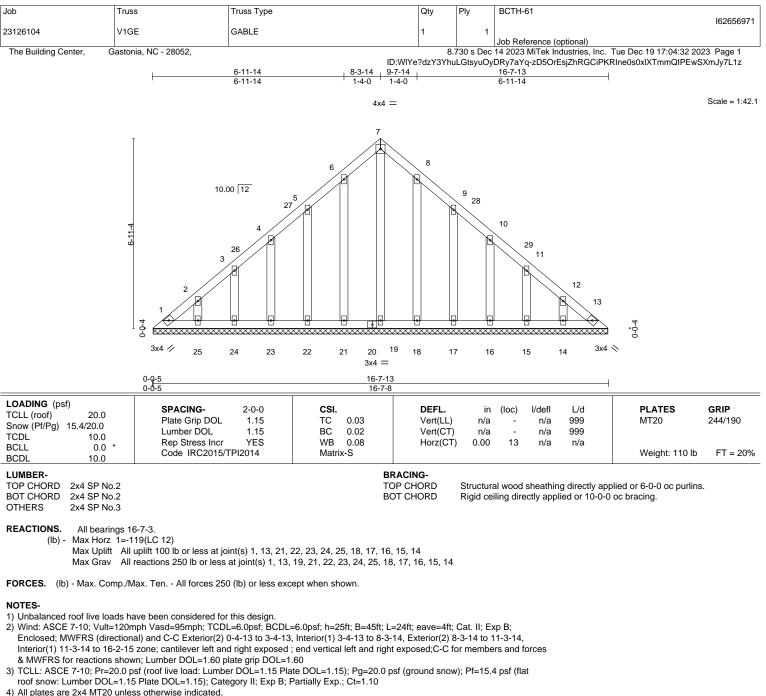


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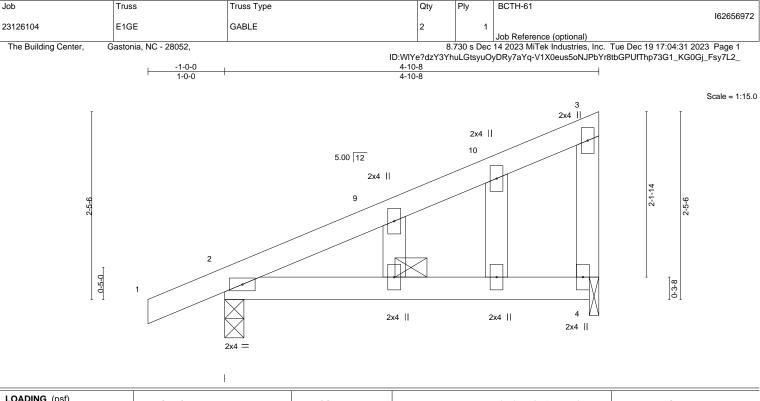
- 4) All plates are 2x4 M120 unless otherwise indicat
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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) 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.



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LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 POLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.36 BC 0.29 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.03 2-4 >999 240 Vert(CT) -0.05 2-4 >999 180 Horz(CT) 0.00 4 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 23 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

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=260(LC 2), 4=176(LC 2)

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 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 7-10; 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) 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.
- 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.



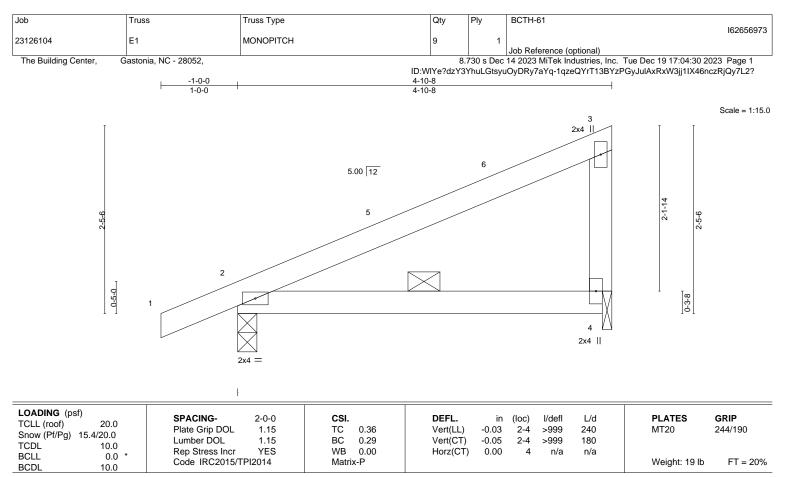
Structural wood sheathing directly applied or 4-10-8 oc purlins,

except end verticals.

3-0-0 oc bracing.

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A MiTek Aff 818 Soundside Road



LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals. 3-0-0 oc bracing.

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=260(LC 2), 4=176(LC 2)

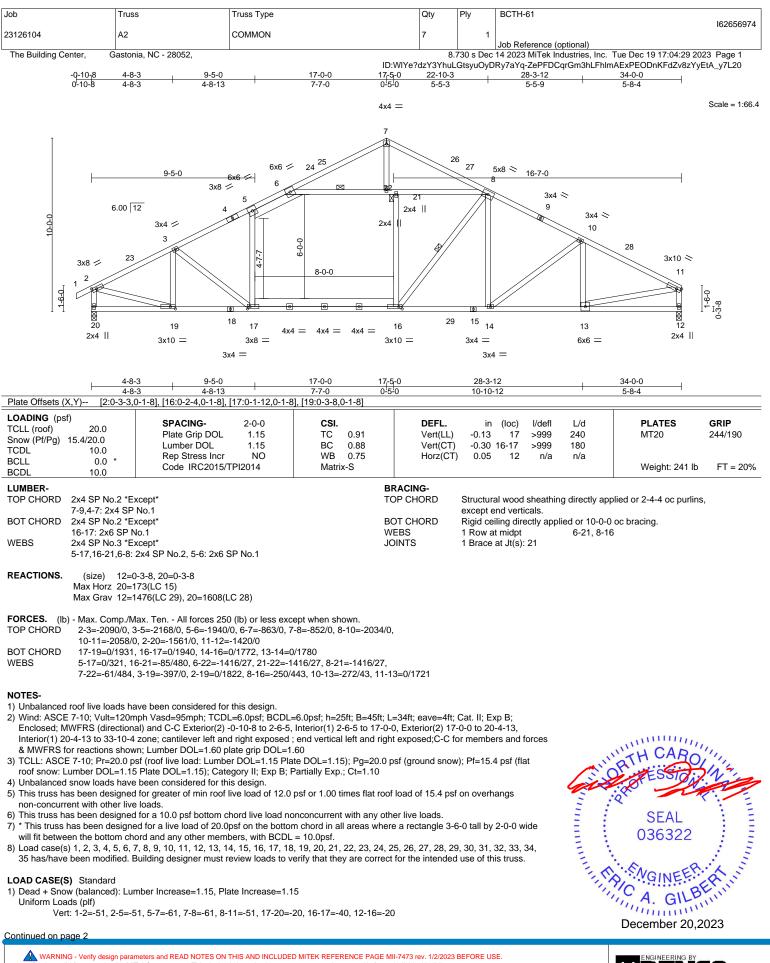
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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 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 7-10; 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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.



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A MiTek A 818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	BCTH-61		162656974
23126104	A2	COMMON	7	1	Job Reference (optional)	
The Building Center, 0	Gastonia, NC - 28052,	ID:W				ndustries, Inc. Tue Dec 1917 CqrGm3hLFhImAExPEODnKI	
Uniform Loads (plf) Vert: 1-2=-60, 3 3) Dead + 0.75 Roof Live (Uniform Loads (plf) Vert: 1-2=-50, 3 4) Dead + 0.75 Snow (bala Uniform Loads (plf) Vert: 1-2=-43, 3 5) Dead + 0.75 Snow (Unit Uniform Loads (plf) Vert: 1-2=-43, 3 6) Dead + 0.75 Snow (Unit Uniform Loads (plf) Vert: 1-2=-27, 7 7) Dead + Uninhabitable A Uniform Loads (plf)	nced): Lumber Increase=1.15 2-5=-60, 5-7=-70, 7-8=-70, 8- (balanced) + 0.75 Uninhab. A 2-5=-50, 5-7=-60, 7-8=-60, 8- anced) + 0.75 Uninhab. Attic 2-5=-43, 5-7=-53, 7-8=-53, 8- bal. Left) + 0.75 Uninhab. Attic 2-5=-43, 5-24=-53, 7-24=-72, bal. Right) + 0.75 Uninhab. Attic 2-5=-27, 5-7=-37, 7-27=-73, 8 uttic Without Storage: Lumber	5, Plate Increase=1.15 11=-60, 17-20=-20, 16-17=-40, 12-16=-20 ttic Storage: Lumber Increase=1.15, Plate I 11=-50, 17-20=-20, 16-17=-70, 16-29=-20, Storage: Lumber Increase=1.15, Plate Incre 11=-43, 17-20=-20, 16-17=-70, 16-29=-20, c Storage: Lumber Increase=1.15, Plate Inc 7-8=-37, 8-11=-27, 17-20=-20, 16-17=-70, tic Storage: Lumber Increase=1.15, Plate Inc 8-27=-53, 8-11=-43, 17-20=-20, 16-17=-70, Increase=1.25, Plate Increase=1.25	ncrease=1.1 14-29=-50, 1 ase=1.15 14-29=-50, 1 rease=1.15 16-29=-20, 1 ccrease=1.15	5 2-14=-20 2-14=-20 4-29=-50, 7	12-14=-20		FUZVOZ TYEIA_YTZU
8) Dead + 0.6 C-C Wind (f Uniform Loads (plf) Vert: 1-2=46, 2	Vert: 1-2=46, 2-23=24, 5-23=14, 5-7=4, 7-26=14, 8-26=4, 8-11=14, 17-20=-12, 16-17=-32, 12-16=-12						
Horz: 1-2=-58, 2-23=-36, 7-23=-26, 7-26=36, 11-26=26, 2-20=14, 11-12=26 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pf) Vert: 1-2=9, 2-5=14, 5-25=4, 7-25=14, 7-8=4, 8-28=14, 11-28=24, 17-20=-12, 16-17=-32, 12-16=-12 Horz: 1-2=-21, 2-25=-26, 7-25=-36, 7-28=26, 11-28=36, 2-20=-26, 11-12=-14 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60							
Horz: 1-2=-8,	2-7=13, 7-11=-13, 2-20=-17,						
Uniform Loads (plf) Vert: 1-2=-28		er Increase=1.60, Plate Increase=1.60 8-11=-33, 17-20=-20, 16-17=-40, 12-16=-20 1-12=17					
12) Dead + 0.6 MWFRS V Uniform Loads (plf) Vert: 1-2=12,	Vind (Pos. Internal) Left: Luml 2-5=-0, 5-7=-10, 7-8=-5, 8-11	ber Increase=1.60, Plate Increase=1.60 =5, 17-20=-12, 16-17=-32, 12-16=-12					
13) Dead + 0.6 MWFRS V Uniform Loads (plf) Vert: 1-2=1, 2	-5=5, 5-7=-5, 7-8=-10, 8-11=-	nber Increase=1.60, Plate Increase=1.60 -0, 17-20=-12, 16-17=-32, 12-16=-12					
14) Dead + 0.6 MWFRS V Uniform Loads (plf) Vert: 1-2=-23	Horz: 1-2=-13, 2-7=-17, 7-11=12, 2-20=-15, 11-12=-13 14) 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, 17-20=-20, 16-17=-40, 12-16=-20						
Horz: 1-2=3, 2-7=7, 7-11=8, 2-20=22, 11-12=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, 17-20=-20, 16-17=-40, 12-16=-20							
Horz: 1-2=-13, 2-7=-8, 7-11=-7, 2-20=-6, 11-12=-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, 17-20=-12, 16-17=-32, 12-16=-12							
 Hor: 1-2-23, 2-2-10, 37-2, 7-0-3, 0-11-13, 17-20-12, 10-17-32, 12-10-12 Hor: 1-2-37, 2-7=-25, 7-11=25, 2-20=-19, 11-12=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, 17-20=-12, 16-17=-32, 12-16=-12 Hor:: 1-2=-28, 2-7=-16, 7-11=16, 2-20=-19, 11-12=19 							
18) Dead + 0.6 MWFRS V Uniform Loads (plf) Vert: 1-2=-16	Vind (Neg. Internal) 1st Parall	el: Lumber Increase=1.60, Plate Increase= 8-11=-21, 17-20=-20, 16-17=-40, 12-16=-20					
 19) 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, 17-20=-20, 16-17=-40, 12-16=-20 Horz: 1-2=-4, 2-7=1, 7-11=-1, 2-20=-10, 11-12=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, 17-20=-20, 16-17=-40, 12-16=-20 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15							
Uniform Loads (plf) Vert: 1-2=-51, 2-5=-51, 5-24=-61, 7-24=-86, 7-8=-39, 8-11=-29, 17-20=-20, 16-17=-40, 12-16=-20 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)							
Vert: 1-2=-29	, 2-5=-29, 5-7=-39, 7-27=-87,	8-27=-61, 8-11=-51, 17-20=-20, 16-17=-40	, 12-16=-20				

Continued on page 3

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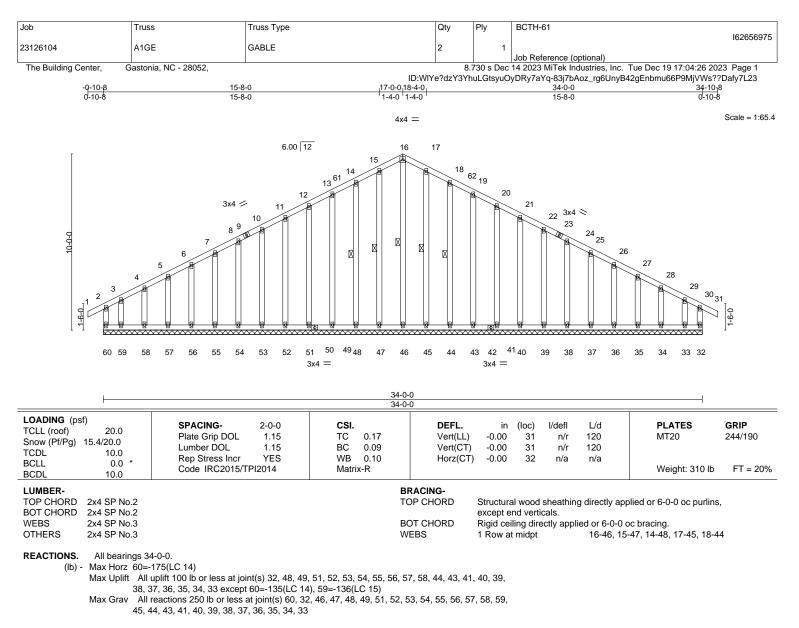


Job	Truss	Truss Type	Qty	Ply	BCTH-61	
23126104	A2	COMMON	7		1	162656974
13120104	~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~		(Job Reference	(optional)
The Building Center,	Gastonia, NC - 28052,					Industries, Inc. Tue Dec 19 17:04:29 2023 Page 3
			ID:WIYe?dzY3Yh	uLGtsyuO	yDRy7aYq-ZePFD	CqrGm3hLFhImAExPEODnKFdZv8zYyEtA_y7L20
LOAD CASE(S) Sta	andard					
		er Increase=1.25, Plate Increase=1.25				
Uniform Loads (
Vert: 1-	2=-20, 2-5=-20, 5-7=-30, 7	-8=-30, 8-11=-20, 17-20=-20, 16-17=-80, 1	6-29=-20, 14-29=-60,	, 12-14=-:	20	
		ttic Storage + 0.75(0.6 MWFRS Wind (Ne	g. Int) Left): Lumber Ir	ncrease=	1.60, Plate Increa	se=1.60
Uniform Loads (·					
	, , , ,	-8=-47, 8-11=-37, 17-20=-20, 16-17=-70, 1	16-29=-20, 14-29=-50,	, 12-14=-3	20	
	2=2, 2-7=6, 7-11=6, 2-20=	tic, 11-12=5 Mice Storage + 0.75(0.6 MWFRS Wind (Ne	a Int) Right): Lumber	Increase	-1.60 Plate Incre	2250-1.60
Uniform Loads (g. Int) Kight). Lumber	Increase	-1.00, 1 late incre	ase 1.00
,	,	-8=-59, 8-11=-49, 17-20=-20, 16-17=-70, 1	6-29=-20. 14-29=-50.	. 12-14=-:	20	
	2=-10, 2-7=-6, 7-11=-6, 2-		,	,		
26) Dead + 0.75 Sno	ow (bal.) + 0.75 Uninhab. A	Attic Storage + 0.75(0.6 MWFRS Wind (Ne	g. Int) 1st Parallel): Lu	umber Inc	rease=1.60, Plate	e Increase=1.60
Uniform Loads (/					
		-8=-54, 8-11=-44, 17-20=-20, 16-17=-70, 1	16-29=-20, 14-29=-50,	, 12-14=-	20	
	2=-3, 2-7=1, 7-11=-1, 2-20)=-8, 11-12=8 \ttic Storage + 0.75(0.6 MWFRS Wind (Ne	a Int) 2nd Parallol): I	umbor In	crosso-1.60 Plat	
Uniform Loads (and Storage + 0.75(0.6 MWFRS Wind (Ne	g. IIII) ZIIU Parallel). L	umberin	crease=1.00, Flat	e increase=1.60
(/	-8=-54, 8-11=-44, 17-20=-20, 16-17=-70, 1	16-29=-20 14-29=-50	12-14=-	20	
	2=-3, 2-7=1, 7-11=-1, 2-20			,		
28) Dead + 0.75 Ro	of Live (bal.) + 0.75 Uninha	b. Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) Left): Lumb	er Increa	se=1.60, Plate Inc	crease=1.60
Uniform Loads (·					
		-8=-54, 8-11=-44, 17-20=-20, 16-17=-70, 1	16-29=-20, 14-29=-50,	, 12-14=-:	20	
	2=2, 2-7=6, 7-11=6, 2-20=		(Nog Int) Dight): Lum	bor Inoro		noronon 1 60
Uniform Loads (. ,	b. Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) Right): Lun	iber incre	ase=1.60, Plate In	ncrease=1.60
,	,	-8=-66, 8-11=-56, 17-20=-20, 16-17=-70, 1	6-29=-20 14-29=-50	12-14=-	20	
	2=-10, 2-7=-6, 7-11=-6, 2-			,		
		b. Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) 1st Parallel): Lumbe	r Increase=1.60, F	Plate Increase=1.60
Uniform Loads (/					
		-8=-61, 8-11=-51, 17-20=-20, 16-17=-70, 1	6-29=-20, 14-29=-50,	, 12-14=-:	20	
	2=-3, 2-7=1, 7-11=-1, 2-20	-, -	(New Just) Oral Devalle	1).]		Dista increase 1.00
Uniform Loads ((/	b. Attic Storage + 0.75(0.6 MWFRS Wind	(Neg. Int) 2nd Paralle	i): Lumbe	er increase=1.60,	Plate Increase=1.60
		-8=-61, 8-11=-51, 17-20=-20, 16-17=-70, 1	6-29=-20 14-29=-50	12-14=-	20	
	2=-3, 2-7=1, 7-11=-1, 2-20		20 20, 11 20 00	,		
		er Increase=1.15, Plate Increase=1.15				
Uniform Loads (olf)					
		-8=-30, 8-11=-20, 17-20=-20, 16-17=-40, 1	2-16=-20			
/	()	er Increase=1.15, Plate Increase=1.15				
Uniform Loads (·	-8=-70, 8-11=-60, 17-20=-20, 16-17=-40, 1	12-1620			
		0.75 Uninhab. Attic Storage: Lumber Incre		ase=1.15	5	
Uniform Loads (()					
(/	-8=-30, 8-11=-20, 17-20=-20, 16-17=-70, 1	6-29=-20, 14-29=-50	, 12-14=-	20	
,	, ,	0.75 Uninhab. Attic Storage: Lumber Incre	ase=1.15, Plate Incre	ase=1.15	i	
Uniform Loads (,					
Vert 1-	2=-20, 2-5=-20, 5-7=-30. 7	-8=-60, 8-11=-50, 17-20=-20, 16-17=-70, 1	6-29=-20, 14-29=-50	, 12-14=-:	20	

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-60, 8-11=-50, 17-20=-20, 16-17=-70, 16-29=-20, 14-29=-50, 12-14=-20

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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) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

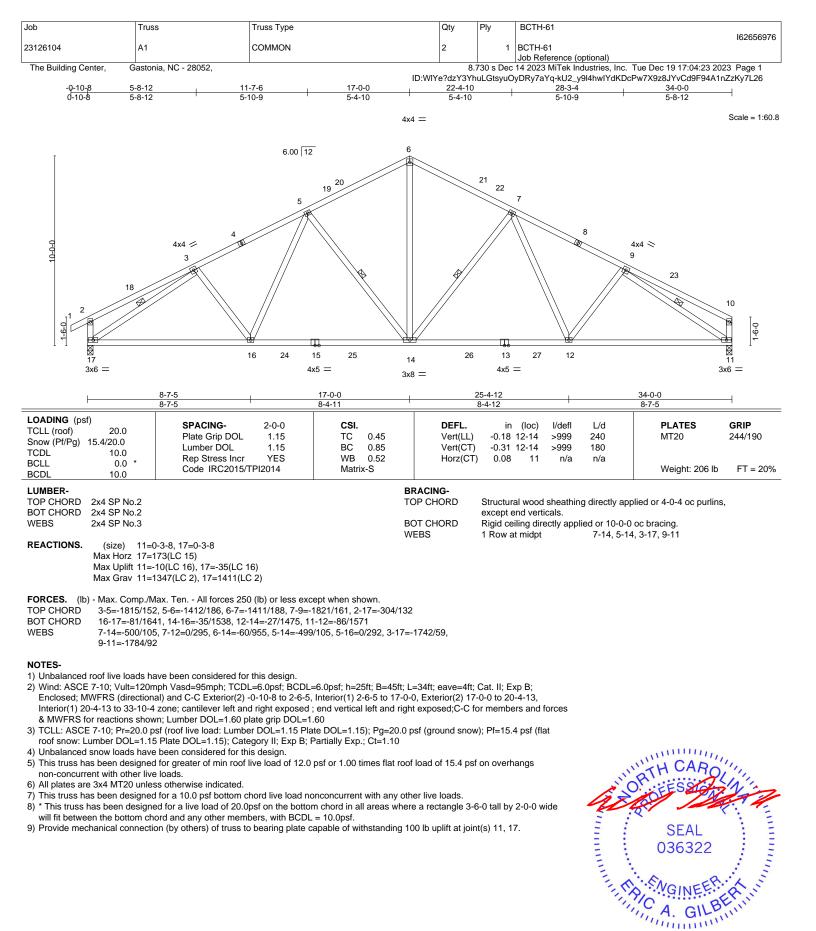
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

12) 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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A MiTek /

December 20,2023

