

Trenco 818 Soundside Rd Edenton, NC 27932

Re: MASTER A&G/Hampton/Lot3/NewHorizons/Fayettevil

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: E14172743 thru E14172759

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



March 12,2020

# 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.



L					36-0-0						
I					36-0-0						1
ate Offsets (X,Y)	[29:0-5-0,0-4-8], [35:0-5-0,0	)-4-8]									
DADING (psf) CLL 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC	0.07	DEFL. Vert(LL)	in -0.00	(loc) 22	l/defl n/r	L/d 120	PLATES MT20	<b>GRIP</b> 244/190
DL 10.0 LL 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.03 0.15	Vert(CT) Horz(CT)	-0.00 0.01	22 22	n/r n/a	120 n/a	Waisht 044 k	FT 200/
JL 10.0		2014	Maun							Weight. 241 lb	FT = 20.76
JMBER- DP CHORD 2x4 SF	P No.2				BRACING- TOP CHOF	D	Structu	ral wood	sheathing di	rectly applied or 6-0-0 c	oc purlins.

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BOT CHORD

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

REACTIONS. All bearings 36-0-0.

Max Horz 2=-177(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 35, 36, 37, 38, 39, 31, 30, 29, 28, 27, 26, 25, 40, 24.22

Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 35, 36, 37, 38, 39, 31, 30, 29, 28, 27, 26, 25.40.24.22

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

TOP CHORD 11-12=-110/288, 12-13=-110/288

#### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 2-0-0 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) 2, 33, 34, 35, 36, 37, 38, 39, 31, 30, 29, 28, 27, 26, 25, 40, 24, 22.



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only design parameters and READ NOTES ON TIPS ON MICLODED MITER REPERIENCE PAGE mit-14/3 at 900, 1002/015 BEPORE 052. Design valid for use only with MITeR works 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, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932



BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

WEBS	2x4 SP No.3
REACTIONS.	(size) 2=0-5-8, 8=0-3-8 Max Horz 2=-177(LC 13)
	Max Uplift 2=-416(LC 12), 8=-416(LC 13) Max Grav 2=1493(LC 1), 8=1493(LC 1)
FORCES. (Ib	) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2930/1294, 3-4=-2552/1114, 4-5=-2561/1259, 5-6=-2561/1259, 6-7=-2552/1114, 7-8=-2930/1293
BOT CHORD	2-11=-1063/2635 10-11=-503/1692 8-10=-1067/2635

- WEBS
  - 5-10=-435/1011, 6-10=-334/307, 7-10=-397/345, 5-11=-435/1011, 4-11=-334/307, 3-11=-397/345

## NOTES-

LUMBER-

TOP CHORD

BOT CHORD

2x4 SP No.2

2x6 SP No.2

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* 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.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=416.8=416.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

# WHATH CAD CAROL RTH 0 VIIIIIIIIIIII dimension of the SEAL 036322 Α. GI minum March 12,2020

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 **ANS/TPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





12-00         12-00 <th< th=""><th></th><th>12 0 0</th><th></th><th>24-0-0</th><th></th><th></th><th>30-0-0</th><th></th></th<>		12 0 0		24-0-0			30-0-0	
Plate Offsets (X,Y)         [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [10:0-5-0,0-4-8], [13:0-5-0,0-4-8]           LOADING (psf) TCLL 20.0 TCL 10.0 ECLL 0.0 *         SPACING- Plate Grip DOL 1.15 Rep Stress Incr         CSI. TC 0.91 WB 0.63         DEFL. Net(LL) -0.18 11-12 >999 360         MT20         244/190           BCDL 10.0 ECLL 0.0 *         Lumber DOL Rep Stress Incr         NO         WB 0.63         Vert(CT) -0.56 11-12 >774 240         Wind(LL) 0.18 12 >999 360         WT20         244/190           LUMBER- TOP CHORD 2x4 SP No.1 *Except* 1-3,7-9: 2x4 SP No.2         Structural wood sheathing directly applied or 7-9-4 oc bracing.         Weight: 221 lb         FT = 2           BOT CHORD 2x6 SP No.1         Except* 14-15: 2x4 SP No.2         Structural wood sheathing directly applied or 7-9-4 oc bracing.         WEBS         1 Row at midpt         14-15           WEBS         2x4 SP No.3         Except* 14-15: 2x4 SP No.2         WEBS         1 Row at midpt         14-15           REACTIONS.         (size) 2=0-5-8, 8=0-3-8 Max Horz 2=-1799(LC 13) Max Uplift 2=-368(LC 12), 8=-368(LC 13) Max Grav 2=1779(LC 1), 8=-3763/1145, 5-6=-3163/1145, 5-6=-3163/1145, 6-7=-3163/1145,	12-0-0			12-0-0	I	12-0-0		
LOADING (psf) TCLL         SPACING- 2.3-0 TCLL         2.3-0 Plate Grip DOL         CSI. 1.15         DEFL.         in         (loc)         //deft         L/d         PLATES         GRIP MT20           TCLL         20.0 TCDL         10.0         Lumber DOL         1.15         BC         0.74         Vert(LL)         -0.18         11-12         >774         240           BCLL         0.0 *         Rep Stress Incr         NO         WB         0.63         Wind(LL)         0.18         12         >999         240         Weight: 221 lb         FT = 2           LUMBER- TOP CHORD         2x4 SP No.1 *Except*         1-3,7-9: 2x4 SP No.2         BRACING- 1-3,7-9: 2x4 SP No.1         Structural wood sheathing directly applied or 7-9-4 oc bracing.         Weight: 221 lb         FT = 2           BOT CHORD         2x4 SP No.1 *Except* 14-15: 2x4 SP No.2         NO         BRACING- BOT CHORD         Structural wood sheathing directly applied or 7-9-4 oc bracing.         WEBS         1 Row at midpt         14-15           WEBS         224 SP No.2         Secold 13) Max Horz 2=-199(LC 13) Max Grav 2=1779(LC 1), 8=-368(LC 13) Max Grav 2=1779(LC 1), 8=-368(LC 13) Max Grav 2=1779(LC 1), 8=-368(LC 12), 8=-368(J1145, 5-6=-3163/1145, 6-7=-3147/978, 7-8=-3564/1187, 3-4=-3147/978, 4-5=-3163/1145, 5-6=-3163/1145, 6-7=-3147/978, 7-8=-3564/1187         Verture         Verture         Verture         Verture	te Offsets (X,Y) [3:	8:0-3-0,0-3-0], [7:0-3-0,0-3-0], [10:0-5-0	,0-4-8], [13:0-5-0,0-4-8]					
LUMBER- TOP CHORD         2x4 SP No.1 *Except* 1-3,7-9: 2x4 SP No.2         BRACING- TOP CHORD           BOT CHORD         2x6 SP No.1         TOP CHORD         Structural wood sheathing directly applied or 2-3-11 oc purlins BOT CHORD           WEBS         2x4 SP No.3 *Except* 14-15: 2x4 SP No.2         BOT CHORD         WEBS         1 Row at midpt         14-15           REACTIONS.         (size)         2=0-5-8, 8=0-3-8 Max Horz         WEBS         1 Row at midpt         14-15           WEBS         2x4 SP No.2         WEBS         1 Row at midpt         14-15           FORCES.         (lb) - Max. Comp./Lax. Ten All forces 250 (lb) or less except when shown.         7-8=-3564/1187, 3-4=-3147/978, 4-5=-3163/1145, 5-6=-3163/1145, 6-7=-3147/978, 7-8=-3564/1187	ADING (psf) LL 20.0 DL 10.0 LL 0.0 * DL 10.0	SPACING-2-3-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2015/TPI2014	<b>CSI.</b> TC 0.91 BC 0.74 WB 0.63 Matrix-MS	DEFL. ir Vert(LL) -0.18 Vert(CT) -0.56 Horz(CT) 0.08 Wind(LL) 0.18	n (loc) l/defl 3 11-12 >999 3 11-12 >774 3 8 n/a 3 12 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 221 lb	<b>GRIP</b> 244/190 FT = 20%
REACTIONS.       (size)       2=0-5-8, 8=0-3-8 Max Horz       2=-199(LC 13) Max Uplift         Max Uplift       2=-368(LC 12), 8=-368(LC 13) Max Grav       2=1779(LC 1), 8=1779(LC 1)         FORCES.       (lb) - Max. Comp./Max. Ten All forces       250 (lb) or less except when shown.         TOP CHORD       2-3=-3564/1187, 3-4=-3147/978, 4-5=-3163/1145, 5-6=-3163/1145, 6-7=-3147/978, 7-8=-3664/1187	LUMBER- TOP CHORD     2x4 SP No.1 *Except* 1-3,7-9: 2x4 SP No.2     BRACING- TOP CHORD       BOT CHORD     2x6 SP No.1       WEBS     2x4 SP No.3 *Except* 14-15: 2x4 SP No.2							
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-3564/1187, 3-4=-3147/978, 4-5=-3163/1145, 5-6=-3163/1145, 6-7=-3147/978, 7-8=-3564/1187         7-8=-3564/1187       3-4=-3147/978, 4-5=-3163/1145, 5-6=-3163/1145, 6-7=-3147/978, 7-8=-3564/1187	REACTIONS. (size) 2=0-5-8, 8=0-3-8 Max Horz 2=-199(LC 13) Max Uplift 2=-368(LC 12), 8=-368(LC 13) Max Grav 2=1779(LC 1), 8=1779(LC 1)							
BOT CHORD 2-13=-952/3209, 12-13=-379/2091, 11-12=-379/2091, 10-11=-379/2091, 8-10=-956/3209 WEBS 5-15=-367/1281, 10-15=-386/1252, 6-10=-388/353, 7-10=-430/400, 13-14=-385/1252,								

24 0 0

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

1000

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 200.0lb AC unit load placed on the bottom chord, 18-0-0 from left end, supported at two points, 5-0-0 apart.

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 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) except (jt=lb) 2=368, 8=368.



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A MiTek Affiliate 818 Soundside Road Edenton, NC 27932



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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 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) 2, 20, 15, 12 except (jt=lb) 19=122, 21=202, 16=120, 14=195.



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#### Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	A&G/Hampton/Lot3/NewHorizons/Fayettevil	
						E14172747
MASTER	B02	Common Girder	1	2		
				2	Job Reference (optional)	
Builders FirstSource (Alberm	arle), Albemarle, NC - 28	001,	8.2	240 s Feb	7 2020 MiTek Industries, Inc. Wed Mar 11 18:05:57 202	0 Page 2

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LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 16=-1473(B) 17=-1473(B) 18=-1473(B) 19=-1473(B) 20=-1757(B) 21=-1757(B) 22=-1757(B) 23=-1757(B)

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BOT CHORD

except end verticals.

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

2x4 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 WEBS

REACTIONS. (size) 5=5-0-0, 2=5-0-0, 6=5-0-0

Max Horz 2=76(LC 9)

Max Uplift 5=-17(LC 8), 2=-83(LC 8), 6=-93(LC 12) Max Grav 5=51(LC 1), 2=155(LC 1), 6=235(LC 1)

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

#### NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Gable requires continuous bottom chord bearing. 4) Gable studs spaced at 2-0-0 oc.

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) 5, 2, 6.



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Plate Offsets (X,Y)	[4:Edge,0-1-14]							
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Bas Chrose Jack	<b>CSI.</b> TC 0.21 BC 0.21	DEFL. Vert(LL) 0. Vert(CT) -0.	in (loc 03 4- 02 4-	c) l/defl 7 >999 7 >999	L/d 240 240	PLATES MT20	<b>GRIP</b> 244/190
BCDL 10.0	Code IRC2015/TPI2014	MB 0.00 Matrix-AS	Horz(CT) -0	00	2 n/a	n/a	Weight: 22 lb	FT = 20%
LUMBER-			BRACING-					

TOP CHORD

BOT CHORD

#### LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 WEBS

REACTIONS. (size) 2=0-3-8, 4=0-1-8

> Max Horz 2=78(LC 8) Max Uplift 2=-174(LC 8), 4=-134(LC 8)

> Max Grav 2=251(LC 1), 4=189(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=174, 4=134,
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only design parameters and READ NOTES ON TIPS ON MICLODED MITER REFERENCE PAGE mit-14/3 at building component, not besign valid for use only with MITeK exconnectors. 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, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





Plate Offsets (X,Y)	[6:Edge.0-1-14]

	[				
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.14 BC 0.06 WB 0.07 Matrix-S	DEFL.         in         (loc)           Vert(LL)         -0.00         1           Vert(CT)         0.00         1           Horz(CT)         -0.00         6	l/defl L/d n/r 120 n/r 120 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 38 lb         FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF WEBS 2x4 SF OTHERS 2x4 SF	P No.2 P No.2 P No.3 P No.3		BRACING- TOP CHORD Structura except ei BOT CHORD Rigid ceil	al wood sheathing dir nd verticals. ling directly applied c	ectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.

## REACTIONS. All bearings 8-0-0.

(lb) - Max Horz 2=117(LC 11)

Max Upliff All upliff 100 lb or less at joint(s) 6, 2, 7 except 8=-125(LC 12) Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=314(LC 1)

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

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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) 6, 2, 7 except (jt=lb) 8=125.



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Plate Offsets (X,Y)	[2:0-3-6,0-0-1]	1	
LOADING         (psf)           TCLL         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 0.28 BC 0.24 WB 0.15 Matrix-AS	DEFL.         in         (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         0.08         5-8         >999         240         MT20         244/190           Vert(CT)         -0.06         5-8         >999         240         MT20         244/190           Horz(CT)         -0.00         2         n/a         n/a         Weight: 41 lb         FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x6 SI	P No.2		BRACING-           TOP CHORD         Structural wood sheathing directly applied, except end verticals.           BOT CHORD         Rigid ceiling directly applied.

 BOT CHORD
 2x6 SP No.2

 WEBS
 2x6 SP No.2 \*Except\*

 3-5: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 5=0-1-8 Max Horz 2=116(LC 8) Max Uplift 2=-244(LC 8), 5=-217(LC 8) Max Grav 2=366(LC 1), 5=308(LC 1)

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

 TOP CHORD
 2-3=-446/493

 BOT CHORD
 2-5=-575/418

 WEBS
 3-5=-394/493

NOTES-

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) \* 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.

4) 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.

5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=244, 5=217.

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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			20-8-0	
OADING         (psf)           TCLL         20.0           TCDL         10.0           TCLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Bop Strass Lagr VES	CSI. TC 0.06 BC 0.02	DEFL.         in         (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.00         12         n/r         120         MT20         244/190           Vert(CT)         -0.00         13         n/r         120         MT20         244/190	
3CDL 10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 117 lb FT = 2	:0%
	No 2		BRACING-	

BOT CHORD

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

	274 01 110.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

REACTIONS. All bearings 20-8-0.

- (lb) Max Horz 2=106(LC 12)
  - Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 17, 16, 15, 23, 14, 12
  - Max Grav All reactions 250 lb or less at joint(s) 2, 18, 20, 21, 22, 17, 16, 15, 23, 14, 12

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 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) 2, 20, 21, 22, 17, 16. 15. 23. 14. 12.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12.



818 Soundside Road Edenton, NC 27932

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6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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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, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=272, 6=271.



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MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=237, 6=236.









- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Gable requires continuous bottom chord bearing.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 7 and 195 lb uplift at joint 6.

C Voundation MALLIN HILL SEAL 036322 GI "minimi March 12,2020

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BRACING-

TOP CHORD

BOT CHORD

#### LUMBER-

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

REACTIONS. All bearings 9-9-3.

(lb) - Max Horz 1=-111(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 7=-140(LC 12), 6=-138(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=272(LC 19), 6=270(LC 20)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Gable requires continuous bottom chord bearing.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 7 and 138 lb uplift at joint 6.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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TOP CHORD

BOT CHORD

#### LUMBER-

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

2x4 SP No.3 OTHERS

REACTIONS. (size) 1=7-5-13, 3=7-5-13, 4=7-5-13 Max Horz 1=83(LC 9) Max Uplift 1=-45(LC 12), 3=-56(LC 13), 4=-38(LC 12) Max Grav 1=136(LC 1), 3=136(LC 1), 4=261(LC 1)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Gable requires continuous bottom chord bearing.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 56 lb uplift at joint 3 and 38 lb uplift at joint 4.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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#### LUMBER-

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

b.2 b.2 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-3-13 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-3-3, 3=5-3-3, 4=5-3-3 Max Horz 1=56(LC 11) Max Uplift 1=-38(LC 12), 3=-45(LC 13), 4=-10(LC 12) Max Grav 1=99(LC 1), 3=99(LC 1), 4=158(LC 1)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Gable requires continuous bottom chord bearing.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1, 45 lb uplift at joint 3 and 10 lb uplift at joint 4.



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