

RE: J0621-4088 Lot 12 Pendegraft Rd. Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0621-4088 Lot/Block: Address: City:

Model: Subdivision: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf Design Program: MiTek 20/20 8.3 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 13 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E15207762	A1	6/29/2021
2	E15207763	A2	6/29/2021
3	E15207764	A2-P	6/29/2021
4	E15207765	A3	6/29/2021
5	E15207766	A4	6/29/2021
6	E15207767	B1	6/29/2021
7	E15207768	B2	6/29/2021
8	E15207769	G01	6/29/2021
9	E15207770	G02	6/29/2021
10	E15207771	M01	6/29/2021
11	E15207772	M02	6/29/2021
12	E15207773	P1	6/29/2021
13	E15207774	P2	6/29/2021

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Galinski, John

My license renewal date for the state of North Carolina is December 31, 2021

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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	
			36-0-0	
Plate Offsets (X,Y)	[7:0-1-14,0-0-0], [8:0-4-0,Edge], [8:0-0-0),0-1-12], [16:0-4-0,Edge],	[16:0-0-0,0-1-12], [17:0-1-14,0-0-0], [31:0-4-0,0-4-8]	, [36:0-4-0,0-4-8]
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 JBC2015/TPI2014	CSI. TC 0.06 BC 0.02 WB 0.13 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 22 n/r 120 Vert(CT) -0.00 22 n/r 120 Horz(CT) 0.01 22 n/a n/a	PLATES GRIP MT20 244/190 Weight: 244 lb ET = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF OTHERS 2x4 SF	P No.1 P No.1 P No.2		BRACING- TOP CHORD Structural wood sheathing of BOT CHORD Rigid ceiling directly applied	directly applied or 6-0-0 oc purlins.
REACTIONS All b	earings 36-0-0			

All bearings 36-0-0.

(lb) - Max Horz 2=-159(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 33, 34, 35, 36, 37, 38, 39, 40, 31, 30, 29, 28, 27, 26, 25, 24

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 32, 33, 34, 35, 36, 37, 38, 39, 40, 31, 30, 29, 28, 27, 26, 25, 24

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

TOP CHORD 10-11=-85/252, 11-12=-101/296, 12-13=-101/296, 13-14=-85/253

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 18-0-0, Corner(3) 18-0-0 to 22-4-13, Exterior(2) 22-4-13 to 36-10-8 zone; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 33, 34, 35, 36, 37, 38, 39, 40, 31, 30, 29, 28, 27, 26, 25, 24.



December 14,2020





L		12-1-3		1	23-10-13					36-0-0	I
		12-1-3			11-9-11					12-1-3	1
Plate Offsets ((X,Y) [10:0-3-0,0-2-4], [12:0-3-0	0,0-2-4]								
LOADING (ps TCLL 20 TCDL 10 BCLL 0 BCDL 10	osf) 0.0 0.0 0.0 * 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.35 BC 0.75 WB 0.24 Matrix-S	DEFI Vert(Vert(Horz Wind	L) -0.2 CT) -0.5 CT) 0.0 LL) 0.0	in (loc) 2 10-12 5 10-12 8 8 17 2-12	l/defl >999 >780 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 248 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS	2x6 SP 2x6 SP 2x4 SP 10-12: 2	No.1 No.1 No.2 *Except* 2x6 SP No.1			BRAI TOP BOT	ing- Chord Chord	Struct Rigid	ural wood ceiling dir	l sheathing d ectly applied	lirectly applied or 4-1-3 o or 10-0-0 oc bracing.	oc purlins.
REACTIONS.	. (size) Max Ho Max Up Max Gra) 2=0-5-8, 8=0-5-8 orz 2=-93(LC 13) olift 2=-2(LC 12), 8=-2(LC av 2=1577(LC 1), 8=157	C 13) 77(LC 1)								
FORCES. (II TOP CHORD BOT CHORD WEBS	lb) - Max. C 2-3=-3 2-12=- 5-10=0	Comp./Max. Ten All for 3053/329, 3-5=-2733/293 -205/2722, 10-12=-21/18 0/993, 7-10=-518/317, 5-	rces 250 (lb) or 3, 5-7=-2733/29 332, 8-10=-206/ -12=0/993, 3-12	less except when sh 3, 7-8=-3053/329 2722 2=-518/317	own.						
NOTES- 1) Unbalanced 2) Wind: ASCI	ed roof live CE 7-10; Vu	loads have been conside ult=130mph (3-second gu	ered for this des ust) Vasd=103n	sign. nph; TCDL=6.0psf; B	3CDL=6.0psf; h=	5ft; Cat. I	; Exp C; I	Enclosed	;		

MWFRS (envelope) and C-C Exterior(2) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 18-0-0, Exterior(2) 18-0-0 to 22-4-13, Interior(1) 22-4-13 to 36-8-5 zone;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, 3-0-0 apart.

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) 2, 8.



December 14,2020

818 Soundside Road Edenton, NC 27932



	12-1-3	1	23-10-13		36-0-0					
	12-1-3		11-9-11				12-1-3			
Plate Offsets (X,Y)	[10:0-3-0,0-2-4], [12:0-3-0,0-2-4]									
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-1-8 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.43 BC 0.86 WB 0.26 Matrix-S	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0. Wind(LL) 0.	in (loc) 23 10-12 57 10-12 08 8 08 2-12	l/defl >999 >750 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 248 lb	GRIP 244/190 FT = 20%		
LUMBER- TOP CHORD 2x6 \$ BOT CHORD 2x6 \$ WEBS 2x4 \$ 10-12	SP No.1 SP No.1 SP No.2 *Except* 2: 2x6 SP No.1		BRACING- TOP CHORD BOT CHORD	Structu Rigid c	iral wood eiling dire	sheathing dir ctly applied o	rectly applied or 3-11-4 or 10-0-0 oc bracing.	oc purlins.		
REACTIONS. (s Max Max Max	ize) 2=0-5-8, 8=0-5-8 Horz 2=-99(LC 17) Uplift 2=-9(LC 12), 8=-9(LC 13) Grav 2=1669(LC 1), 8=1669(LC 1)									
FORCES.(lb) - MaTOP CHORD2-3BOT CHORD2-1WEBS5-1	x. Comp./Max. Ten All forces 250 (lb) o =-3227/366, 3-5=-2886/329, 5-7=-2886/3 2=-233/2877, 10-12=-33/1935, 8-10=-234 0=0/1047, 7-10=-552/336, 5-12=0/1047, 3	r less except when shown. 29, 7-8=-3227/366 //2877 3-12=-552/336								
NOTES- 1) Unbalanced roof li 2) Wind: ASCE 7-10:	ve loads have been considered for this de Vult=130mph (3-second aust) Vasd=103	esign. mph: TCDL=6.0psf: BCDL=6	.0psf: h=15ft: Cat.	II: Exd C: E	nclosed:					

MWFRS (envelope) and C-C Exterior(2) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 18-0-0, Exterior(2) 18-0-0 to 22-4-13, Interior(1) 22-4-13 to 36-8-5 zone;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, 3-0-0 apart.

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) 2, 8.



December 14,2020







	12-1-3 12-1-3		23-10-13 11-9-11				<u>36-0-0</u> 12-1-3				
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 0.39 BC 0.62 WB 0.23 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.33 -0.46 0.07 0.07	(loc) 9-11 9-11 8 11	l/defl >999 >929 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 220 lb	GRIP 244/190 FT = 20%		
LUMBER-	· · · · · · · · · · · · · · · · · · ·	ł	BRACING-					1			

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 WFBS

REACTIONS. (size) 2=0-5-8, 8=Mechanical Max Horz 2=95(LC 16)

Max Uplift 2=-102(LC 12), 8=-90(LC 13)

Max Grav 2=1483(LC 1), 8=1427(LC 1)

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

2-3=-2795/606, 3-5=-2523/575, 5-7=-2541/593, 7-8=-2823/631 TOP CHORD

BOT CHORD 2-11=-464/2490 9-11=-207/1686 8-9=-470/2523

WEBS 5-9=-120/956, 7-9=-556/311, 5-11=-115/931, 3-11=-534/302

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 18-0-0, Exterior(2) 18-0-0 to 22-4-13, Interior(1) 22-4-13 to 35-11-0 zone;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 30.0psf 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) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=102.



Structural wood sheathing directly applied or 4-1-11 oc purlins.

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

December 14,2020





L			36-0-0		
I			36-0-0		
Plate Offsets (X,Y)	[7:0-1-14,0-0-0], [8:0-4-0, Edge], [8:0-0-0),0-1-12], [16:0-4-0,Edge],	[16:0-0-0,0-1-12], [17:0-	1-14,0-0-0], [30:0-4-0,0-4-2	8], [35:0-4-0,0-4-8]
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) -0.00	1 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	1 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01	22 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 243 lb FT = 20%
LUMBER-			BRACING-		
TOP CHORD 2x4 SF	9 No.1		TOP CHORD	Structural wood sheathing	directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SF	9 No.1		BOT CHORD	Rigid ceiling directly appli	ed or 10-0-0 oc bracing.
OTHERS 2x4 SF	° No.2				
REACTIONS. All be	earings 36-0-0.				

(lb) - Max Horz 2=161(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 32, 33, 34, 35, 36, 37, 38, 39, 30, 29, 28, 27, 26, 25, 24, 23

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 31, 32, 33, 34, 35, 36, 37, 38, 39, 30, 29, 28, 27, 26, 25, 24, 23

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

TOP CHORD 10-11=-84/251, 11-12=-101/295, 12-13=-101/298, 13-14=-84/255

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 18-0-0, Corner(3) 18-0-0 to 22-4-13, Exterior(2) 22-4-13 to 36-0-0 zone; 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 32, 33, 34, 35, 36, 37, 38, 39, 30, 29, 28, 27, 26, 25, 24, 23.

SEAL 28677

December 14,2020





- (Ib) Max Horz 2=-171(LC
 - Max Horz 2=-171(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 16, 15, 14, 12
 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 17, 16, 15, 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-8-11 to 3-7-12, Exterior(2) 3-7-12 to 8-9-12, Corner(3) 8-9-12 to 13-2-9, Exterior(2) 13-2-9 to 18-4-3 zone; 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 16, 15, 14, 12.



December 14,2020





TRENCE AMITEK ATT 818 Soundside Road

Edenton, NC 27932

	Job	Truss	Truss Type	Qty	Ply	Lot 12 Pendegraft Rd.
						E15207768
	J0621-4088	B2	Common Girder	1	2	
						Job Reference (optional)
Ì	Comtech. Inc. Favettev	ille. NC - 28314.		8	.330 s Oct	7 2020 MiTek Industries, Inc. Mon Dec 14 10:48:10 2020 Page 2

ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-g?nqvsIgJXm5y8XfeGIKjDct9m8aQ6hvG14zOZy940p

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1407(B) 6=-1407(B) 8=-1407(B) 9=-1407(B) 10=-1407(B) 11=-1407(B) 12=-1407(B) 13=-1407(B)





I.			20-8-0	I
Plate Offsets (X,Y)	[18:0-4-0,0-4-8]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNO	CSI. TC 0.05 BC 0.02 WB 0.04	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 12 n/r 120 Vert(CT) -0.00 12 n/r 120 Horz(CT) 0.00 12 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 117 lb FT = 20%
LUMBER-	. No 1		BRACING-	ctly applied or 6-0-0 oc purlins

BOT CHORD

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

2x6 SP No.1 BOT CHORD OTHERS 2x4 SP No.2

REACTIONS. All bearings 20-8-0.

(lb) -Max Horz 2=94(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 19, 20, 21, 22, 17, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 12, 2, 18, 19, 20, 21, 22, 17, 16, 15, 14

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 10-4-0, Exterior(2) 10-4-0 to 16-4-0, Interior(1) 16-4-0 to 21-6-8 zone; 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.
- 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 with a clearance greater than 6-0-0 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) 12, 2, 19, 20, 21, 22, 17, 16, 15, 14.



December 14,2020





F		10-4-0						20-8-0		
Plate Offsets (X	(,Y) [6:0-4-0,0-3-4]	10 + 0						10 4 0		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0) SPACING- Plate Grip DOL Lumber DOL Code IRC2015/TF	2-0-0 CSI. 1.15 TC 1.15 BC YES WB Pl2014 Matri	0.62 0.79 0.11 ix-S	DEFL. Vert(LL) -(Vert(CT) -(Horz(CT) (Wind(LL) (in 0.19 0.40 0.03 0.06	(loc) 2-6 2-6 4 2-6	l/defl >999 >606 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 94 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS	2x6 SP No.1 2x4 SP No.1 2x4 SP No.2	-	BRACING- TOP CHORD BOT CHORD	 	Structur Rigid ce	al wood seiling dire	sheathing dire	ectly applied or 5-4-1 10-0-0 oc bracing.	2 oc purlins.	
REACTIONS.	(size) 4=0-5-8, 2=0-5-8 Max Horz 2=-55(LC 13)									

Max Holz 2=33(LC 13) Max Uplift 4=-63(LC 13), 2=-63(LC 12) Max Grav 4=864(LC 1), 2=864(LC 1)

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

TOP CHORD 2-3=-1216/288, 3-4=-1216/288

BOT CHORD 2-6=-140/1030, 4-6=-140/1030

WEBS 3-6=0/468

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 10-4-0, Exterior(2) 10-4-0 to 14-8-13, Interior(1) 14-8-13 to 21-4-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 with a clearance greater than 6-0-0 between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



December 14,2020

ENGINEERING BY EREPACED A MITEK Affiliate 818 Soundside Road Edenton, NC 27932





December 14,2020





		L				5-0	-0						
						5-0	-0						
Plate Of	fsets (X,Y)	[3:0-1-15,0-1-8]											
													-
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	2-4	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	912014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 18 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=47(LC 8) Max Uplift 2=-54(LC 8), 4=-25(LC 12) Max Grav 2=256(LC 1), 4=181(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-10-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 with a clearance greater than 6-0-0 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.
- 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) 2, 4.



Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

December 14,2020





	i.				8-0-0						I.
					8-0-0						
Plate Offsets (X,Y)	[2:0-3-4,Edge], [4:0-1-15,0-	1-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.16	6	>562	360	MT20	244/190
ICDL 10.0 BCLL 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.44 0.04	Vert(CT) Horz(CT)	-0.33 -0.00	6 5	>280 n/a	240 n/a		
BCDL 10.0	Code IRC2015/TPI2	2014	Matrix-	S	Wind(LL)	0.26	6	>354	240	Weight: 30 lb	FT = 20%
LUMBER-	·				BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 1 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP No.2 WFBS OTHERS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 5=0-1-8 Max Horz 2=97(LC 8) Max Uplift 2=-103(LC 8), 5=-99(LC 12)

Max Grav 2=341(LC 1), 5=306(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-4-8 to 4-0-0, Exterior(2) 4-0-0 to 7-10-1 zone;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 studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=103.



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

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

December 14,2020





		1				8-0-0						1
		Γ				8-0-0						
Plate Off	fsets (X,Y)	[2:0-3-4,Edge], [3:0-1-15	,0-1-8]									
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.15	2-4	>624	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.30	2-4	>312	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-P	Wind(LL)	0.32	2-4	>285	240	Weight: 27 lb	FT = 20%
				1		DR AOINO					1	

LUMBER-

 TOP CHORD
 2x4 SP No.1

 BOT CHORD
 2x4 SP 2400F 2.0E

 WEBS
 2x4 SP No.2

BRACING-TOP CHORD

TOP CHORDStructural wood sheathing directly applied or 2-2-0 oc purlins.BOT CHORDRigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=68(LC 8) Max Uplift 2=-130(LC 8), 4=-126(LC 8) Max Grav 2=341(LC 1), 4=306(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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-4-8 to 4-0-5, Interior(1) 4-0-5 to 7-10-1 zone; porch left 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 with a clearance greater than 6-0-0 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=130, 4=126.



December 14,2020

ENGINEERING BY A MITEK Atfiliate 818 Soundside Road Edenton, NC 27932

