

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 29640-29640A 68 PRINCE PLACE - ROOF

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I49579367 thru I49579400

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



January 7,2022

# Sevier, Scott

**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			57-9-0					
			57-9-0					
Plate Offsets (X,Y)	[8:0-2-10,Edge], [12:0-3-0,0-3-8], [27:0	-3-0,0-3-8]						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr VES	CSI. TC 0.14 BC 0.05 WB 0.14	<b>DEFL.</b> in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	n (loc) 1 1 38	l/defl n/r n/r	L/d 120 120	PLATES MT20	<b>GRIP</b> 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	1012(01) 0.0	00	n/a	n/a	Weight: 630 lb	FT = 20%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF	P No.2 P No.2	1	BRACING- TOP CHORD	Structu except	iral wood end vertio	sheathing dir cals, and 2-0-	ectly applied or 6-0-0 o 0 oc purlins (6-0-0 ma	oc purlins, x.): 12-27.
WEBS 2x4 SF OTHERS 2x4 SF WEDGE	<sup>D</sup> No.3 <sup>D</sup> No.3		BOT CHORD WEBS	Rigid c 1 Row	eiling dire at midpt	ctly applied c 2 13 2	or 10-0-0 oc bracing. 0-54, 18-56, 17-57, 16 3-61, 11-62, 10-64, 21 4-50, 25-49, 26-48, 28	-58, 15-59, 14-60, -53, 22-52, 23-51, -47, 29-45

## REACTIONS. All bearings 57-9-0.

- (lb) Max Horz 2=228(LC 9)
  - Max Uplift All uplift 100 lb or less at joint(s) 38, 54, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 53, 52, 51, 50, 49, 45, 44, 43, 42, 41, 40 except 2=-147(LC 10), 70=-129(LC 12), 39=-174(LC 13)
  - Max Grav All reactions 250 lb or less at joint(s) 38, 2, 54, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 70, 53, 52, 51, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-294/239

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-5 to 4-10-8, Exterior(2) 4-10-8 to 16-3-0, Corner(3) 16-3-0 to 22-0-5, Exterior(2) 22-0-5 to 41-9-0, Corner(3) 41-9-0 to 47-6-5, Exterior(2) 47-6-5 to 57-7-4 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) 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 54, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 53, 52, 51, 50, 49, 45, 44, 43, 42, 41, 40 except (jt=lb) 2=147, 70=129, 39=174.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







	<b>8-1</b> -	-9	16-3-0		24-9-9		33-2-7	I	41-9-0	0	49-10-4	57-	9-0
	8-1-	-9	8-1-7	1	8-6-9	1	8-4-13	I	8-6-9		8-1-4	7-10	)-12
Plate Offse	ets (X,Y)	[2:Edge,0-3	3-9], [5:0-5-12,0-4-0],	[9:0-5-12,0	)-4-0], [12	:0-6-2,0-2-8]							
LOADING TCLL TCDL BCLL BCDL	(psf) 20.0 10.0 0.0 * 10.0	SPA Plat Lum Rep Cod	CING- 2-0-0 e Grip DOL 1.15 ber DOL 1.15 Stress Incr YES e IRC2015/TPI2014		<b>CSI.</b> TC BC WB Matrix	0.54 0.90 0.65 (-MS	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in -0.16 -0.28 0.09	(loc) 19-20 19-20 13	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 462 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 *Except* 5-19,6-17,9-17: 2x4 SP No.2 or 2x4 SPF No.2, 12-13: 2x6 SP No.2 WEDGE Left: 2x6 SP No.2					BRACING- TOP CHOR BOT CHOR WEBS	D D	Structu except Rigid c 6-0-0 c 1 Row	aral wood end vertio ceiling dire oc bracing at midpt	sheathing direct cals, and 2-0-0 c ctly applied or 1 : 14-16,13-14. 3-20	ly applied or 3-6-12 co purlins (4-5-4 ma: 0-0-0 oc bracing, E I, 6-19, 6-17, 8-17, 9	oc purlins, x.): 5-9. Except: 9-16, 11-14		
REACTIO	NS. (size Max H Max U Max G	e) 2=0-3- lorz 2=231 lplift 2=-5(L brav 2=213	8, 14=0-3-8, 13=Mecl (LC 11) C 12), 13=-66(LC 13) 1(LC 2), 14=2537(LC	nanical 2), 13=292	(LC 20)								
FORCES. TOP CHO	(lb) - Max. RD 2-3=- 9-11=	Comp./Max 3121/152, 3 =-1668/210	k. Ten All forces 250 3-5=-2624/219, 5-6=-:	) (lb) or less 2385/243, 6	s except v 6-8=-2101	when shown. 1/243, 8-9=-2 <sup>-</sup>	101/243,						
BOT CHO WEBS	3OT CHORD         2-22=-121/2486, 20-22=-121/2486, 19-20=-105/2094, 17-19=-121/2385, 16-17=-12/1271           NEBS         3-22=0/270, 3-20=-614/188, 5-20=-4/676, 5-19=-187/596, 6-19=-314/250, 6-17=-503/49, 8-17=-542/170, 9-17=-134/1419, 9-16=-668/137, 11-16=-69/1535, 11-14=-2196/149												
NOTES- 1) Unbalar	nced roof live	e loads have	e been considered for	this design	1. ICDI 6.0								

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-5 to 5-0-0, Interior(1) 5-0-0 to 16-3-0, Exterior(2) 16-3-0 to 24-5-0, Interior(1) 24-5-0 to 41-9-0, Exterior(2) 41-9-0 to 49-10-4, Interior(1) 49-10-4 to 57-6-4 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 4x6 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, with BCDL = 10.0psf.

- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







8-	1-9 16-3-0	24-9-9	31-0-0	41-9-0	49-10-	-4 57-9-0		
8-	1-9 8-1-7	8-6-9	6-2-7	10-9-0	' 8-1-4	7-10-1	2 '	
Plate Offsets (X,Y)	[5:0-5-12,0-4-0], [13:0-6-2,0-2-8]							
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 IRC2015/TPI2014	<b>CSI.</b> TC 0.56 BC 0.94 WB 0.94 Matrix-MS	DEFL. Vert(LL Vert(CT Horz(C Attic	in (loc) -0.16 22-23 ) -0.31 22-23 ) 0.09 14 -0.11 14-15	I/defl L/d >999 240 >999 180 n/a n/a 822 360	PLATES MT20 Weight: 495 lb	<b>GRIP</b> 197/144 FT = 20%	
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF WEBS 2x4 SF 5-22,6 13-14: WEDGE Left: 2x6 SP No.2	P No.2 P No.2 P No.3 *Except* -20,9-20,9-17: 2x4 SP No.2 or 2x4 SPF 2x6 SP No.2	BRACIN TOP CH BOT CH WEBS	IG- ORD Structu except ORD Rigid c 1 Row	aral wood sheathing di end verticals, and 2-0 eiling directly applied at midpt	rectly applied or 3-5-8 of -0 oc purlins (4-3-0 ma or 2-2-0 oc bracing. 3-23, 6-22, 6-20, 8-20, 7	oc purlins, x.): 5-10. 12-15, 9-17		
REACTIONS. (size) 2=0-3-8, 15=0-3-8, 14=Mechanical Max Horz 2=231(LC 11) Max Uplift 14=-42(LC 13) Max Grav 2=2197(LC 2), 15=2877(LC 2), 14=604(LC 21)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-3227/57, 3-5=-2740/115, 5-6=-2517/118, 6-8=-2394/75, 8-9=-2394/75, 9-10=-1429/83, 10-12=-1870/70, 12-13=-315/141, 13-14=-336/85         BOT CHORD       2-25=-42/2573, 22-23=-18/2190, 20-22=0/2517, 17-20=0/1975         WEBS       3-25=0/259, 3-23=-602/196, 5-23=-118/656, 6-22=-402/162, 6-20=-285/138, 8-20=-300/86, 10-17=0/665, 12-17=0/1579, 12-15=-2435/0, 9-20=0/1014, 9-17=-1329/125								
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-10; M gable end zone and 41-9-0, Exterior(2) 4 exposed; C-C for me 3) 200.0lb AC unit load 4) Provide adequate d 5) All plates are 4x4 M 6) This truss has been will fit between the f 8) Ceiling dead load (5 9) Bottom chord live lo 10) Refer to girder(s) f 11) Provide mechanic 12) Graphical purlin re 13) ATTIC SPACE SH	e loads have been considered for this de /ult=115mph Vasd=91mph; TCDL=6.0p: C-C Exterior(2) -0-9-5 to 5-0-0, Interior( 1-9-0 to 49-10-4, Interior(1) 49-10-4 to 5 mbers and forces & MWFRS for reaction d placed on the bottom chord, 36-3-10 fr rainage to prevent water ponding. T20 unless otherwise indicated. designed for a 10.0 psf bottom chord liv n designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on pottom chord and any other members, w .0 psf) on member(s). 10-12, 12-13 ad (40.0 psf) and additional bottom chor or truss to truss connections. al connection (by others) of truss to bear presentation does not depict the size or OWN IS DESIGNED AS UNINHABITAE	sign. f; BCDL=6.0psf; h=25ft 1) 5-0-0 to 16-3-0, Exter 57-6-4 zone; cantilever lk ns shown; Lumber DOL om left end, supported a e load nonconcurrent w the bottom chord in all a ith BCDL = 10.0psf. d dead load (0.0 psf) ap ing plate capable of with the orientation of the pu LE.	t; Cat. II; Exp B; I rior(2) 16-3-0 to eft and right exp =1.60 plate grip at two points, 5-0 with any other live areas where a re- oplied only to roo hstanding 100 lb urlin along the top	Enclosed; MWFRS 24-5-0, Interior(1) osed ; end vertical DOL=1.60 -0 apart. loads. tangle 3-6-0 tall b m. 14-15 uplift at joint(s) 14 o and/or bottom ch	(envelope) 24-5-0 to left and right y 2-0-0 wide ord.	SE/ 0449	AROLINI SIGNINA AL 925 SEVININA ary 7,2022	





- will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 14, 2.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



818 Soundside Road Edenton, NC 27932





0- <u>1-8 6-0-15</u>	12-1-12 16-3-0	24-9-9	33-2-7	41-9-0	49-10-4	58-0-0	
0-1-8 5-11-7 Plate Offsets (X Y)	<u> </u>	8-6-9 -dae 0-3-91	8-4-13	8-6-9	8-1-4	8-1-12	
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 0.48 BC 0.79 WB 0.83 Matrix-MS	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0.	in (loc) l/defl 15 16-17 >999 27 16-17 >999 09 13 n/a	L/d PL 240 M 180 n/a W	<b>_ATES GRIP</b> T20 197/144	
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF WEBS 2x4 SF 6-19,7- WEDGE Loft: 2x4 SP No 2, Bio	P No.2 P No.2 P No.3 *Except* 17,10-17: 2x4 SP No.2 or 2x4 SPF No.2	BRACING- TOP CHORD BOT CHORD	Structural wood s except 2-0-0 oc purlins (4 Rigid ceiling direc 6-0-0 oc bracing:	heathing directly app 4-10-4 max.): 6-10. tly applied or 10-0-0 20-22.	lied or 3-10-8 oc purlins, oc bracing, Except:		
Left: 2x4 SP No.3, Right: 2x6 SP No.2       WEBS       1 Row at midpt       6-20, 7-19, 5-22, 9-17, 11-16         REACTIONS.       (size)       22=0-3-8, 13=0-3-8, 2=0-3-0 Max Horz       22=17(LC 9) Max Uplift 13=-10(LC 13), 2=-15(LC 12) Max Grav       22=2491(LC 2), 13=1912(LC 2), 2=528(LC 23)         FORCES.       (lb) - Max, Comp./Max, Ten, - All forces 250 (lb) or less except when shown.							
TOP CHORD 2-3=-	524/70, 5-6=-861/191, 6-7=-1623/219, 7	7-9=-1990/224, 9-10=-199	00/224,				

10-11=-2316/206, 11-13=-2828/142 BOT CHORD 2-23=-117/399, 22-23=-117/399, 19-20=-86/702, 17-19=-77/1623, 16-17=0/1837, 14-16=-31/2246, 13-14=-31/2246 WEBS 3-22=-453/128, 6-19=-92/1632, 5-20=0/1542, 6-20=-1138/74, 7-19=-1037/178, 7-17=-28/624, 10-16=-4/687, 5-22=-2104/89, 9-17=-534/170, 10-17=-175/406, 11-16=-633/186, 11-14=0/281

### NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-5 to 5-0-5, Interior(1) 5-0-5 to 16-3-0, Exterior(2) 16-3-0 to 24-5-7, Interior(1) 24-5-7 to 41-9-0, Exterior(2) 41-9-0 to 49-10-4, Interior(1) 49-10-4 to 58-0-0 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) Provide adequate drainage to prevent water ponding.

4) All plates are 4x6 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.

\* 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 6) will fit 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) 13, 2.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.











0- <u>1-8 6-0-15</u>	12-1-12 16-3-0	24-9-9	33-2-7	41-9-0	49-10-4	58-0-0
0-1-8 5-11-7	6-0-13 4-1-4	8-6-9	8-4-13	8-6-9	8-1-4	8-1-12
Plate Offsets (X,Y)	[6:0-5-12,0-4-0], [10:0-5-12,0-4-0], [12	3:Edge,0-3-9]				
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 0.49 BC 0.80 WB 0.83 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl 0.15 17-18 >999 0.27 17-18 >999 0.09 13 n/a	L/d P 240 M 180 n/a W	LATES GRIP T20 197/144 /eight: 485 lb FT = 20%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x6 SP WEBS 2x4 SP 0-20,7- WEDGE Left: 2x4 SP N⋅3 , Rig	No.2 No.2 No.3 *Except* 18,10-18: 2x4 SP No.2 or 2x4 SPF N ht: 2x6 SP No.2	0.2	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood s except 2-0-0 oc purlins ( Rigid ceiling dire 6-0-0 oc bracing: 1 Row at midpt	sheathing directly app (4-10-5 max.): 6-10. ctly applied or 10-0-0 : 21-23. 6-21, 7-20	Diled or 3-10-6 oc purlins, oc bracing, Except: 0, 5-23, 9-18, 11-17
REACTIONS. (size Max H Max U Max G	e) 23=0-3-8, 13=0-3-8, 2=0-3-0 orz 2=-221(LC 10) plift 13=-22(LC 13), 2=-17(LC 12) rav 23=2492(LC 2), 13=1951(LC 2),	2=528(LC 23)				
FORCES (lb) - Max	Comp /Max Ten - All forces 250 (lb)	or less except when sho	wn			

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-523/74, 5-6=-860/193, 6-7=-1622/221, 7-9=-1989/225, 9-10=-1989/225, 10-11=-2315/205, 11-13=-2826/139 BOT CHORD 2-24=-114/402, 23-24=-114/402, 20-21=-83/710, 18-20=-74/1622, 17-18=0/1836, 15-17=-22/2243, 13-15=-22/2243 WEBS 3-23=-453/128, 6-20=-91/1632, 5-21=0/1542, 6-21=-1139/72, 7-20=-1037/178, 7-18=-26/624, 10-17=-4/686, 5-23=-2104/83, 9-18=-534/170, 10-18=-175/406, 11-17=-631/186, 11-15=0/281

### NOTES-

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-5 to 5-0-5, Interior(1) 5-0-5 to 16-3-0, Exterior(2) 16-3-0 to 24-5-7, Interior(1) 24-5-7 to 41-9-0, Exterior(2) 41-9-0 to 49-10-4, Interior(1) 49-10-4 to 58-9-5 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) Provide adequate drainage to prevent water ponding.

- 4) All plates are 4x6 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.

\* 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 6) will fit 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) 13, 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







			58-0-0		
1			58-0-0		1
Plate Offsets (X,Y)	[12:0-3-0,0-3-8], [26:0-3-0,0-3-8], [44:0-	-3-0,0-1-4], [52:0-2-0,0-2-0]	, [60:0-2-0,0-2-0]		
LOADING (psf) TCLL 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	CSI. TC 0.05 BC 0.03 WB 0.12	DEFL.         in           Vert(LL)         0.00           Vert(CT)         0.00           Horz(CT)         0.01	i (loc) l/defl L/d 35 n/r 120 35 n/r 120 35 n/a n/a	PLATES         GRIP           MT20         244/190
BCDL 10.0	Code IRC2015/1PI2014	Matrix-S			Weight: 633 lb $FI = 20\%$
LUMBER-			BRACING-		
TOP CHORD 2x6 BOT CHORD 2x6	SP No.2 SP No.2		TOP CHORD	Structural wood sheathing d 2-0-0 oc purlins (6-0-0 max.)	irectly applied or 6-0-0 oc purlins, except ): 12-26.
OTHERS 2x4	SP No.3		BOT CHORD	Rigid ceiling directly applied	or 10-0-0 oc bracing.
WEDGE Left: 2x4 SP No.3 , F	Right: 2x4 SP No.3		WEBS	1 Row at midpt	26-45, 25-46, 24-47, 23-48, 22-49, 21-50, 20-51, 18-53, 17-54, 16-55, 15-56, 14-57,
	boorings 57 10 9				13-58, 11-59, 10-61, 9-62, 27-44, 28-42

## (lb) - Max Horz 2=-221(LC 10)

2-3=-268/210

Max Holz 2=-221(LC 10) Max Uplift All uplift 100 lb or less at joint(s) 2, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 61, 62, 63, 64, 65, 66, 67, 44, 42, 41, 40, 39, 38, 37, 35

Max Grav All reactions 250 lb or less at joint(s) 2, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 61, 62, 63, 64, 65, 66, 67, 44, 42, 41, 40, 39, 38, 37, 35

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

## NOTES-

TOP CHORD

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

2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-5 to 5-0-5, Exterior(2) 5-0-5 to 16-3-0, Corner(3) 16-3-0 to 22-0-10, Exterior(2) 22-0-10 to 41-9-0, Corner(3) 41-9-0 to 47-9-0, Exterior(2) 47-9-0 to 58-9-5 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 61, 62, 63, 64, 65, 66, 67, 44, 42, 41, 40, 39, 38, 37, 35.
- 10) Non Standard bearing condition. Review required.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



818 Soundside Road Edenton, NC 27932



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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-4-4, Exterior(2) 2-4-4 to 10-0-0, Corner(3) 10-0-0 to 13-0-0, Exterior(2) 13-0-0 to 20-10-8 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.

All plates are 1.5x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

7) Gable studs spaced at 2-0-0 oc.

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

9) \* 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 22, 16

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 22, 16 except (jt=lb) 21=102, 23=171, 17=103, 15=169.



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A MiTek Affilia 818 Soundside Road Edenton, NC 27932











January 7,2022



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	68 PRINCE PLACE - ROOF	
						149579377
29640-29640A	C1E	GABLE	1	1		
					Job Reference (optional)	
84 Components (Dunn),	Dunn, NC - 28334,			8.530 s De	c 6 2021 MiTek Industries, Inc. Thu Jan 6 13:35:11 2022	Page 2

ID:wl88M6Te4AKsZPQ32HGjMByhydU-B8K9XgwsXHW3?cSHpLlQaWlfbxrTXsXqwRWoNezy3IE

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-5=-60, 5-6=-60, 6-8=-60, 9-19=-20 Concentrated Loads (lb)

Vert: 41=-203 42=-203 43=-203 44=-203 46=-205





818 Soundside Road Edenton, NC 27932



	0-2-14 0-2-14		<u> </u>							
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Des Cirace Lear NO	<b>CSI.</b> TC 0.59 BC 0.75	DEFL. in Vert(LL) -0.23 Vert(CT) -0.46	(loc) 6-7 6-7	l/defl >423 >207	L/d 240 180	PLATES MT20	<b>GRIP</b> 244/190		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Horz(CT) -0.40	4	n/a	n/a	Weight: 35 lb	FT = 20%		

TOP CHORD2x4 SP DSSBOT CHORD2x4 SP No.1WEBS2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 7=0-4-4, 4=Mechanical, 6=Mechanical

Max Horz 7=76(LC 5) Max Uplift 7=-68(LC 4), 4=-59(LC 8)

Max Grav 7=428(LC 1), 4=248(LC 1), 6=187(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-341/118

#### NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4.

6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

(7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 10 lb down and 12 lb up at 2-9-8, 10 lb down and 12 lb up at 2-9-8, and 33 lb down and 44 lb up at 5-7-7, and 33 lb down and 44 lb up at 5-7-7 on top chord, and 0 lb down and 1 lb up at 2-9-8, 0 lb down and 1 lb up at 2-9-8, and 18 lb down at 5-7-7, and 18 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 5-7=-20 Concentrated Loads (lb) Vert: 3=-26(F=-13, B=-13) 9=2(F=1, B=1) 10=-27(F=-13, B=-13)



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TRENCO AMITER Affiliate 818 Soundside Road

Edenton, NC 27932



Plate Offsets (X,Y)	[4:0-6-4,0-2-0], [5:0-7-0,0-1-12], [13:0-3	-0,0-4-0]						
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2015/TPI2014	<b>CSI.</b> TC 0.69 BC 0.72 WB 0.67 Matrix-MS	DEFL. ii Vert(LL) -0.08 Vert(CT) -0.11 Horz(CT) 0.01	n (loc) l/defl L/d 3 11-13 >999 240 1 11-13 >999 180 1 8 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 535 lb         FT = 20%			
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF WEBS 2x4 SF 4-11: 2	2 No.2 or 2x4 SPF No.2 2 No.2 2 No.3 *Except* x4 SP No.2 or 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing except end verticals, and 2 Rigid ceiling directly applie 6-0-0 oc bracing: 10-11. 1 Row at midot	J directly applied or 6-0-0 oc purlins, 2-0-0 oc purlins (10-0-0 max.): 4-5. ed or 10-0-0 oc bracing, Except: 4-11			
REACTIONS. (size Max H Max U Max G	a) 15=0-3-8, 11=0-3-8, 8=0-3-8 orz 15=257(LC 33) plift 15=-309(LC 8), 11=-548(LC 8), 8=- rav 15=1912(LC 40), 11=4701(LC 2), 8	173(LC 9) =1176(LC 20)						
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       1-3=-2092/349, 3-4=-1330/247, 6-7=-689/136, 1-15=-1602/266, 7-8=-842/131         BOT CHORD       14-15=-314/545, 13-14=-380/1672, 11-13=-220/1006, 9-10=-69/464         WEBS       3-14=-179/907, 3-13=-992/358, 4-13=-356/2312, 4-11=-2232/333, 5-11=-1016/218, 5-10=-224/589, 6-10=-860/257, 6-9=-132/799, 1-14=-148/1199, 7-9=-57/540								
<ul> <li>NOTES-</li> <li>1) 2-ply truss to be con Top chords connect Bottom chords conn Webs connected as</li> <li>2) All loads are considd ply connections haw</li> <li>3) Unbalanced roof live</li> <li>4) Wind: ASCE 7-10; V gable end zone; can</li> <li>5) Provide adequate di</li> <li>6) This truss has been</li> <li>7) * This truss has been</li> <li>7) * This truss has been</li> <li>8) Provide mechanical 15=309, 11=548, 8=</li> <li>9) Graphical purlin reputation</li> </ul>	nected together with 10d (0.131"x3") na ed as follows: 2x4 - 1 row at 0-9-0 oc. ected as follows: 2x6 - 2 rows staggered follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, except i e been provided to distribute only loads loads have been considered for this de fult=115mph Vasd=91mph; TCDL=6.0ps tillever left and right exposed ; end vertice ainage to prevent water ponding. designed for a 10.0 psf bottom chord livn n designed for a live load of 20.0psf on to ottom chord and any other members, w connection (by others) of truss to bearin 173. resentation does not depict the size or the	ails as follows: d at 0-9-0 oc. f noted as front (F) or bac noted as (F) or (B), unles: sign. sf; BCDL=6.0psf; h=25ft; 0 cal left and right exposed; the bottom chord in all are ith BCDL = 10.0psf. ng plate capable of withsta ne orientation of the purlin	k (B) face in the LOAD ( s otherwise indicated. Cat. II; Exp B; Enclosed; Lumber DOL=1.60 plate n any other live loads. eas where a rectangle 3- anding 100 lb uplift at joi along the top and/or bo	CASE(S) section. Ply to MWFRS (envelope) e grip DOL=1.60 -6-0 tall by 2-0-0 wide nt(s) except (jt=lb) ottom chord.	SEAL 044925 MGINEER.HEAL			

### Continued on page 2

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ENGINEERING BY A MITCH Affiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	68 PRINCE PLACE - ROOF	
					4	49579380
29640-29640A	D1G	Common Girder	1	2		
				<b>_</b>	Job Reference (optional)	
84 Components (Dunn),	Dunn, NC - 28334,			8.530 s De	ec 6 2021 MiTek Industries, Inc. Thu Jan 6 13:35:16 2022 P	age 2
		ID:wl8	8M6Te4AKs	ZPQ32HG	jMByhydU-X672aN ?Lp9L5NKEcuLbHZ?WkyZrC7TZ4jEZ2sz	zy3l9

### NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 267 lb down and 86 lb up at 2-0-12, 267 lb down and 86 lb up at 4-0-12, 267 lb down and 86 lb up at 10-0-12, 537 lb down and 62 lb up at 12-0-12, 508 lb down and 62 lb up at 14-0-12, 507 lb down and 62 lb up at 14-0-12, 507 lb down and 62 lb up at 16-0-12, 500 lb down and 62 lb up at 18-0-12, 267 lb down and 62 lb up at 10-0-12, 267 lb down and 62 lb up at 22-0-12, 267 lb down and 62 lb up at 22-0-12, 267 lb down and 62 lb up at 22-0-12, 267 lb down and 62 lb up at 22-0-12, 267 lb down and 62 lb up at 22-0-12, 267 lb down and 62 lb up at 20-0-12, 267 lb down and 62 lb up at 22-0-12, 267 lb down and 62 lb up at 20-0-12, 267 lb down and 62 lb up at 22-0-12, 267 lb down and 62 lb up at 20-0-12, 267 lb down and 62 lb up at 20-0-12, 267 lb down and 62 lb up at 20-0-12, 267 lb down and 62 lb up at 20-0-12, 267 lb down and 79

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-60, 5-7=-60, 8-15=-20

Concentrated Loads (lb)

Vert: 11=-285(B) 16=-267(B) 17=-267(B) 18=-267(B) 19=-267(B) 21=-267(B) 22=-285(B) 23=-285(B) 24=-285(B) 26=-285(B) 27=-267(B) 28=-267(B) 29=-328(B) 30=-328(B) 31=-328(B) 31=-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 0.42 BC 0.30 WB 0.00 Matrix-MR	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.04         4-5         >999         240           Vert(CT)         -0.08         4-5         >845         180           Horz(CT)         0.00         4         n/a         n/a	PLATES         GRIP           MT20         197/144           Weight: 23 lb         FT = 20%
			<b>DDACING</b>	

LUMBER-BRACING-TOP CHORD2x4 SP No.2 or 2x4 SPF No.2TOP CHORDStructural wood sheathing directly applied or 6-0-0 oc purlins,<br/>except end verticals.WEBS2x4 SP No.3BOT CHORDBOT CHORDRigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-0, 4=0-1-8 Max Horz 5=80(LC 9)

Max Uplift 5=-43(LC 8), 4=-24(LC 12)

Max Grav 5=295(LC 1), 4=223(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-252/121

NOTES-

1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-10-4 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

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) 5, 4.







10.0

BCDL

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 WEBS
 2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 14 lb

FT = 20%

REACTIONS. (size) 5=0-3-0, 3=Mechanical, 4=Mechanical Max Horz 5=46(LC 8)

Max Uplift 5=-33(LC 8), 3=-34(LC 12)

Max Grav 5=218(LC 1), 3=98(LC 1), 4=69(LC 3)

Code IRC2015/TPI2014

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

### NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MR

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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.





		0-2-8	1-10-13					
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	<b>CSI.</b> TC 0.07 BC 0.03	<b>DEFL.</b> in Vert(LL) -0.00 Vert(CT) -0.00	(loc) 5 5	l/defl >999 >999	L/d 240 180	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.00 Matrix-MR	Horz(CT) 0.00	3	n/a	n/a	Weight: 8 lb	FT = 20%

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 WEBS
 2x4 SP No.3

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-0 Max Horz 5=26(LC 8)

Max Uplift 3=-16(LC 12), 5=-34(LC 8)

Max Grav 3=38(LC 1), 4=31(LC 3), 5=149(LC 1)

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

#### NOTES-

 Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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

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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.







	<u> </u>			
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) -0.05 4-5 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.12 4-5 >599 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03 3 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR		Weight: 20 lb FT = 20%

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 WEBS
 2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 5=0-3-0, 3=Mechanical, 4=Mechanical Max Horz 5=67(LC 8) Max Uplift 5=-35(LC 8), 3=-53(LC 12) Max Grav 5=298(LC 1), 3=157(LC 1), 4=109(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-252/115

#### NOTES-

Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 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
 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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.







	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	тс	0.75	Vert(LL)	-0.10	6-7	>843	240	MT20	197/144
FCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.23	6-7	>359	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-MR						Weight: 32 lb	FT = 20%

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 WEBS
 2x4 SP No.3

 
 BRACING 

 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-3-8, 7=0-3-0 Max Horz 7=118(LC 5) Max Uplift 7=-42(LC 4) Max Grav 5=383(LC 3), 7=358(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-264/74

#### NOTES-

Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2--60, 2-3=-60, 3-4=-60, 5-7=-20 Concentrated Loads (lb) Vert: 8−-129(B)



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x Uplift All uplift 100 lb or less at joint(s) 15, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16 except 1=-102(I 10)

Max Grav All reactions 250 lb or less at joint(s) 1, 15, 2, 21, 22, 23, 24, 25, 14, 26, 20, 19, 18, 17, 16

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 12-9-0, Exterior(2) 12-9-0 to 15-9-0, Interior(1) 15-9-0 to 25-2-5 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.

All plates are 1.5x4 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) 15, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16 except (jt=lb) 1=102.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 system. See **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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10.0

BCDL

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 OTHERS
 2x4 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.

Weight: 37 lb

FT = 20%

REACTIONS. All bearings 8-11-10. (lb) - Max Horz 1=-68(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 10, 8

Code IRC2015/TPI2014

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-3 to 3-3-3, Interior(1) 3-3-3 to 4-5-13, Exterior(2) 4-5-13 to 7-5-13, Interior(1) 7-5-13 to 8-8-7 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

Matrix-P

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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.

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

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6, 10, 8.
 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.









Plate Offsets (X,Y)	[2:0-2-1,0-1-0], [4:0-2-1,0-1-0]		
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 0.15 WB 0.04 Matrix-P	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         0.01         5         n/r         120           Vert(CT)         0.01         5         n/r         120           Horz(CT)         0.00         4         n/a         n/a           Weight:         33 lb         FT = 20%
LUMBER- TOP CHORD 2x4 S	P No.2 or 2x4 SPF No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

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

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 OTHERS
 2x4 SP No.3

**REACTIONS.** (size) 2=7-8-7, 4=7-8-7, 6=7-8-7

Max Horz 2=-68(LC 10) Max Uplift 2=-24(LC 12), 4=-33(LC 13)

Max Grav 2=200(LC 1), 4=200(LC 1), 6=260(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-3 to 3-3-3, Interior(1) 3-3-3 to 4-5-13, Exterior(2) 4-5-13 to 7-5-13, Interior(1) 7-5-13 to 8-8-7 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) 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) 2, 4.

7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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LUI	<b>NBE</b>	R-

10.0

BCDL

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 OTHERS
 2x4 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.

Weight: 37 lb

FT = 20%

REACTIONS. All bearings 8-11-10. (lb) - Max Horz 1=-68(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 10, 8

Code IRC2015/TPI2014

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-3 to 3-3-3, Interior(1) 3-3-3 to 4-5-13, Exterior(2) 4-5-13 to 7-5-13, Interior(1) 7-5-13 to 8-8-7 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

Matrix-P

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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6, 10, 8.
 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







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, with BCDL = 10.0psf.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 17 except (jt=lb) 18=110, 19=111, 13=108, 12=112.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.









Edenton, NC 27932

January 7,2022









TRENGINEERING BY A MITEK Affiliate 818 Soundside Road

Edenton, NC 27932





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Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-109(LC 12), 6=-109(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=306(LC 19), 6=306(LC 20)

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-1-8, Exterior(2) 6-1-8 to 9-1-8, Interior(1) 9-1-8 to 11-10-2 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) 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=109, 6=109.







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

REACTIONS. (size) 1=8-11-15, 3=8-11-15, 4=8-11-15 Max Horz 1=-66(LC 8) Max Uplift 1=-20(LC 13), 3=-28(LC 13) Max Grav 1=187(LC 1), 3=187(LC 1), 4=285(LC 1)

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-6-4, Exterior(2) 4-6-4 to 7-6-4, Interior(1) 7-6-4 to 8-7-12 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

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, 3.







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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 1=5-9-9, 3=5-9-9, 4=5-9-9 Max Horz 1=-41(LC 8) Max Uplift 1=-12(LC 13), 3=-17(LC 13) Max Grav 1=115(LC 1), 3=115(LC 1), 4=174(LC 1)

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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) 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, 3.





	51-11								$\neg$		
LOADING (psf) TCLL 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC	0.36	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.28 0.00	Vert(CT) Horz(CT)	n/a 0.00	- 4	n/a n/a	999 n/a		
BCDL 10.0	Code IRC2015/1	PI2014	Matri	x-R						Weight: 18 lb	FT = 20%
					5540000						

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

2x4 SP No.3

BRACING-TOP CHORD

Structural wood sheathing directly applied or 5-1-11 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 1=5-0-15, 4=5-0-15 (size) Max Horz 1=63(LC 9) Max Uplift 1=-11(LC 8), 4=-21(LC 12) Max Grav 1=162(LC 1), 4=162(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-11-5 to 3-7-3, Interior(1) 3-7-3 to 4-11-15 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) Gable requires continuous bottom chord bearing.
- 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.





