

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J1123-6762 Lot 12 Heritage @ NC

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I62306477 thru I62306481

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

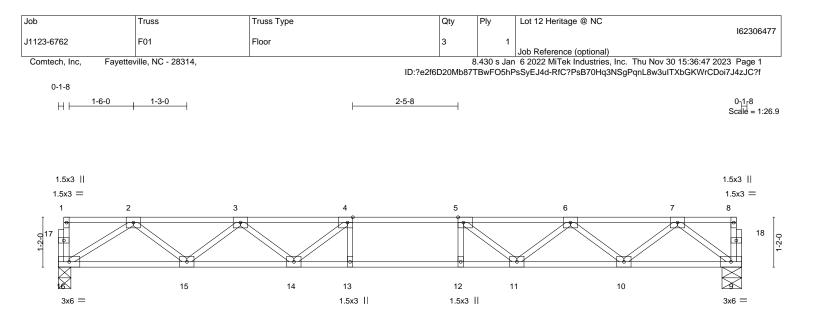
North Carolina COA: C-0844



December 4,2023

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



			<u>15-11-8</u> 15-11-8						
Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge]		101110						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING-1-7-3Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYES	CSI. TC 0.39 BC 0.73 WB 0.35	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.17 13-14 -0.23 13-14 0.04 9	l/defl >999 >828 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		0.01 0	1.04	11/04	Weight: 78 lb	FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)			TOP CHOP	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.					
	(size) 16=0-3-8, 9=0-5-8 ax Grav 16=686(LC 1), 9=686(LC 1)								
TOP CHORD 2 BOT CHORD 1	Max. Comp./Max. Ten All forces 250 (lb) o 3=-1532/0, 3-4=-2314/0, 4-5=-2565/0, 5-6= 5-16=0/987, 14-15=0/2049, 13-14=0/2565, -10=0/854	-2260/0, 6-7=-1424/0		5,					
	-16=-1169/0. 2-15=0/710. 3-15=-673/0. 3-1	4=0/403 7-9=-1070/0 7-1	0=0/741						

03, 7-9=-1070/0, 7-10=0/741, WEBS 6-10=-704/0, 6-11=0/432, 5-11=-547/0, 4-14=-500/0

NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

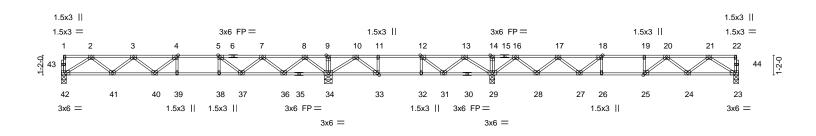
3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Job	Truss	Truss Type		Qty	Ply	Lot 12 Heritage @ NC	
14 400 0700	500	_		-		1623	06478
J1123-6762	F02	Floor		1	1	Job Reference (optional)	
Comtech, Inc, Fayett	eville, NC - 28314,					n 6 2022 MiTek Industries, Inc. Thu Nov 30 15:36:49 2023 Page	
			ID:?e2f6	D20Mb871	BwFO5hF	PsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC	?f
0-1-8							
<mark>1-6-0 1-3-0</mark>	2-4-4	1-6-0	2-5-0	1-0	6-0	2-4-12 1-6-00-1-8 Scale =	= 1:67.9



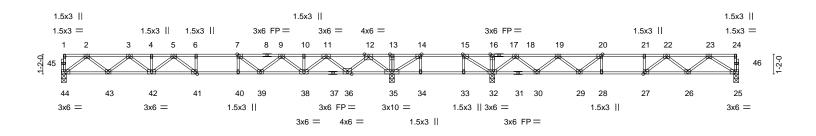
	<u>15-8-12</u> 15-8-12		25-4-12 9-8-0			<u>39-11-0</u> 14-6-4	
Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8	3,Edge], [18:0-1-8,Edge],		-8,Edge]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.45 BC 0.81 WB 0.40 Matrix-S	Vert(LL) -0.17	n (loc) l/de 7 39-40 >99 2 39-40 >83 4 23 n	99 480	PLATES MT20 Weight: 193 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- BRACING- TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc present end verticals. BOT CHORD 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.							oc purlins,
(lb) - Max FORCES. (lb) - Ma TOP CHORD 2-3 9-1 14-	bearings 0-3-8 except (jt=length) 34=0-5-8 Grav All reactions 250 lb or less at joint 29=1223(LC 4) x. Comp./Max. Ten All forces 250 (lb) or 3=-1354/0, 3-4=-1975/0, 4-5=-2074/0, 5-7= 0=0/1177, 10-11=-441/806, 11-12=-441/8 -16=0/1428, 16-17=-382/344, 17-18=-1277 -21=-1155/0	s) except 42=620(LC 3), less except when shown -1632/0, 7-8=-658/47, 8-9 06, 12-13=-213/859, 13-1	9=0/1176, 4=0/1428,	3(LC 5),			
BOT CHORD 41- 34- 28-							
WEBS 2-4 8-3 12-	2-507,000, 2-41=0/614, 3-41=-585/0, 3-4(36=0/849, 7-36=-809/0, 7-37=0/526, 5-37= 31=-417/0, 10-34=-650/0, 10-33=0/501, 2 25=-71/263, 16-29=-1133/0, 16-28=0/804	-660/0, 13-29=-789/0, 13- 1-23=-924/0, 21-24=0/488	-31=0/412, 8, 20-24=-437/0,				
 2) All plates are 3x4 3) Plates checked fo 4) Recommend 2x6 s Strongbacks to be 	live loads have been considered for this de MT20 unless otherwise indicated. r a plus or minus 1 degree rotation about i strongbacks, on edge, spaced at 10-0-0 o attached to walls at their outer ends or re	s center. c and fastened to each tru	uss with 3-10d (0.131" >	(3") nails.	4	NUMERTH C	AROLIN

5) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	Lot 12 Heritage @ NC	
			-		_	162306479
J1123-6762	F03	FLOOR	2		1	
					Job Reference (optional)	
Comtech, Inc,	Fayetteville, NC - 28314,			8.430 s .	lan 6 2022 MiTek Industries, Inc. T	Thu Nov 30 15:36:51 2023 Page 1
			ID:?e2f6D20N	1b87TBwFO5	hPsSyEJ4d-RfC?PsB70Hq3NSgPc	qnL8w3uITXbGKWrCDoi7J4zJC?f
0-1-8						
∦ <mark>1-3-0</mark>	2-4	1-4	1-6-0 2-5-0	- -6-0	2-4-12	<u>1-6-00</u> -1-8 Scale = 1:67.9

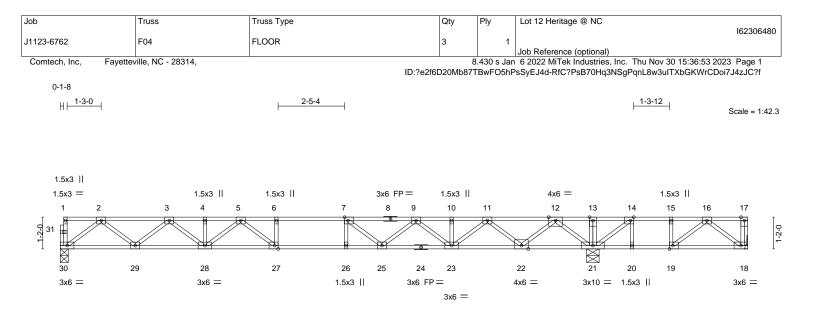


	<u>19-5-12</u> 19-5-12		25-4-12 5-11-0			<u>39-11-0</u> 14-6-4	
Plate Offsets (X,Y)	[7:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1	-8,Edge], [20:0-1-8,Edge]	, [27:0-1-8,Edge], [41:0-1	-8,Edge]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.65 BC 0.86 WB 0.55	DEFL. in Vert(LL) -0.26 Vert(CT) -0.35 Horz(CT) 0.05	41 ×	l/defl L/d >907 480 >663 360 n/a n/a	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 196 lb	FT = 20%F, 11%E
LUMBER- BRACING- TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 o BOT CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 o							oc purlins,
WEBS 2x4 SF	P No.3(flat)		BOT CHORD	Rigia cell	ling directly applied	or 6-0-0 oc bracing.	
FORCES. (lb) - Max. TOP CHORD 2-3= 9-10 14-1 20-2 BOT CHORD 43-4 36-3 30-3 25-2	 All reactions 250 lb or less at joint 4) Comp./Max. Ten All forces 250 (lb) or i-1593/0, 3-4=-2647/0, 4-5=-2647/0, 5-6==-1858/0, 10-11=-1858/0, 11-12=-365/24 5=0/1724, 15-16=0/1721, 16-18=0/1720 1=-1662/0, 21-22=-1662/0, 22-23=-1169 4=-0/947, 42-43=0/2214, 41-42=0/2948, s=-36/1203, 35-36=-827/0, 34-35=-1724 2=-889/0, 29-30=-411/1002, 28-29=0/16 6=0/788 	less except when shown -3103/0, 6-7=-3103/0, 7-5 37, 12-13=0/2038, 13-14= 18-19=-442/626, 19-20= /0 40-41=0/3103, 39-40=0/3 /0, 33-34=-1724/0, 32-33 62, 27-28=0/1662, 26-27=		_U 4), 25=	-554(LC		
12-3 7-39	=-1186/0, 2-43=0/841, 3-43=-809/0, 3-42 5=-1527/0, 12-36=0/1153, 11-36=-1122/ =-685/0, 14-35=-692/0, 15-32=-444/105, 0=-801/0, 19-29=0/519, 20-29=-660/0, 2	0, 11-38=0/869, 9-38=-73 18-32=-1160/0, 18-30=0	80/0, 9-39=0/535, /832,				
2) All plates are 3x4 M3) Plates checked for a4) Recommend 2x6 st	ve loads have been considered for this de IT20 unless otherwise indicated. a plus or minus 1 degree rotation about i rongbacks, on edge, spaced at 10-0-0 c attached to walls at their outer ends or re	ts center. c and fastened to each tr	uss with 3-10d (0.131" X	3") nails.	2	UNITH CAREES	AROLIN

5) CAUTION, Do not erect truss backwards.



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		<u>19-6-12</u> 19-6-12						<u>25-3-0</u> 5-8-4	
Plate Offsets (X,Y)	[7:0-1-8,Edge], [14:0-1-8,Edge], [19:0-							5-0-4	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.66 BC 0.83 WB 0.54	Vert(CT) -0	in 0.26 0.35 0.05	(loc) 27 27 21	l/defl >914 >663 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						Weight: 128 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 S 8-17: 3OT CHORD 2x4 S WEBS 2x4 S	BRACING- TOP CHORD BOT CHORD	e	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.						
Max	ze) 30=0-3-8, 18=Mechanical, 21=0-5- Uplift 18=-268(LC 3) Grav 30=758(LC 10), 18=164(LC 4), 21:								
FOP CHORD 2-3= 9-10	x. Comp./Max. Ten All forces 250 (lb) o =-1600/0, 3-4=-2661/0, 4-5=-2661/0, 5-6 D=-1859/0, 10-11=-1859/0, 11-12=-359/0 15=-41/996, 15-16=-41/996	-3125/0, 6-7=-3125/0, 7-9	=-2759/0,						
BOT CHORD 29-3	29-30=0/951, 28-29=0/2225, 27-28=0/2966, 26-27=0/3125, 25-26=0/3125, 23-25=0/2416,								
VEBS 2-30	-23=0/1196, 21-22=-606/0, 20-21=-996/41, 19-20=-996/41, 18-19=-378/144 30=-1191/0, 2-29=0/845, 3-29=-814/0, 3-28=0/557, 12-21=-1552/0, 12-22=-0/1143, -22=-1100/0, 11-23=0/856, 9-23=-717/0, 9-25=0/502, 7-25=-629/0, 5-28=-388/0, 27=-72/479, 16-18=-180/475, 14-21=-1261/0, 16-19=-789/0, 15-19=0/352								

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

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

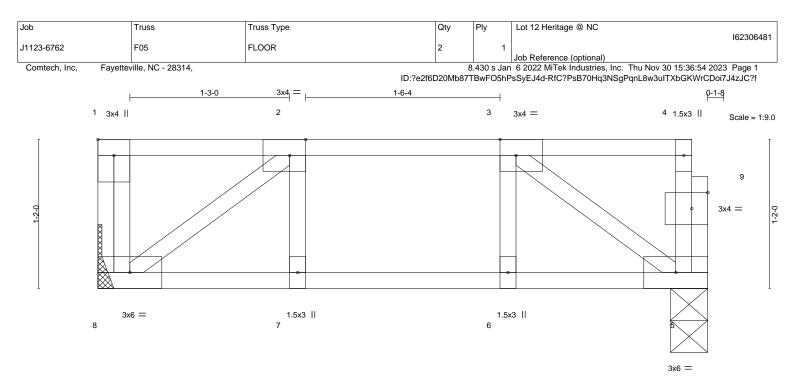
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 18.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

7) CAUTION, Do not erect truss backwards.



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⊢			4-9-4 4-9-4						———————————————————————————————————————
Plate Offsets (X,Y)	[1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,	Edge], [9:0-1-8,0-1-8]							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.10 BC 0.09 WB 0.07 Matrix-S	Vert(CT) -	in •0.01 •0.01 0.00	(loc) 7 7 5	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 27 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)			BRACING- TOP CHORD BOT CHORD	e	except	end verti	cals.	irectly applied or 4-9-4 or 10-0-0 oc bracing.	oc purlins,
REACTIONS. (siz Max G	e) 8=Mechanical, 5=0-3-8 Grav 8=249(LC 1), 5=242(LC 1)								

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-256/0

BOT CHORD 7-8=0/256, 6-7=0/256, 5-6=0/256

WEBS 3-5=-312/0, 2-8=-316/0

NOTES-

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

2) Plates checked for a plus or minus 1 degree rotation about its center.

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

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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Edenton, NC 27932

