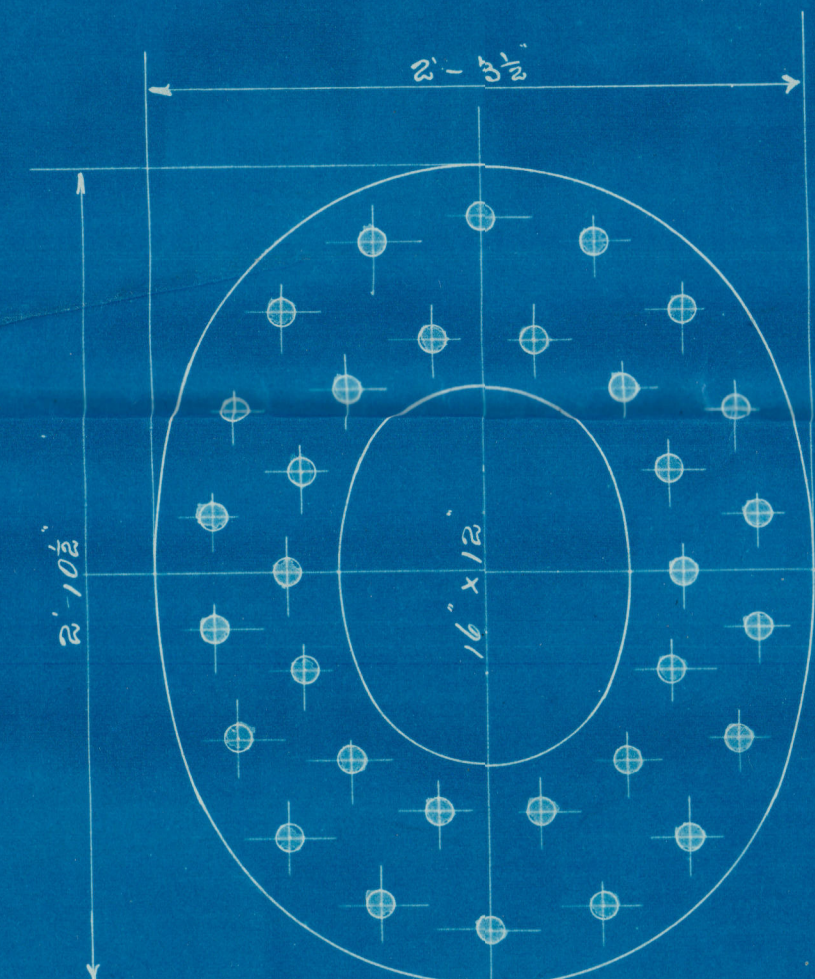
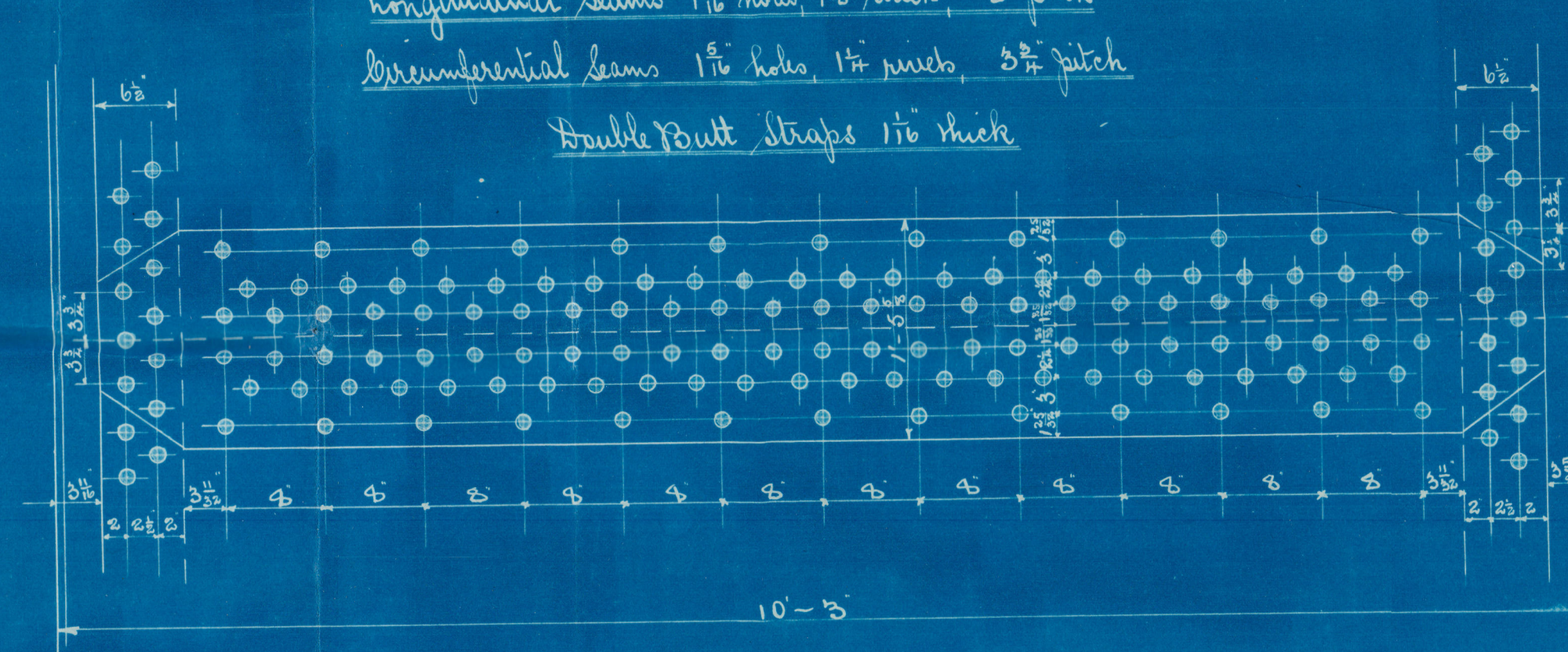


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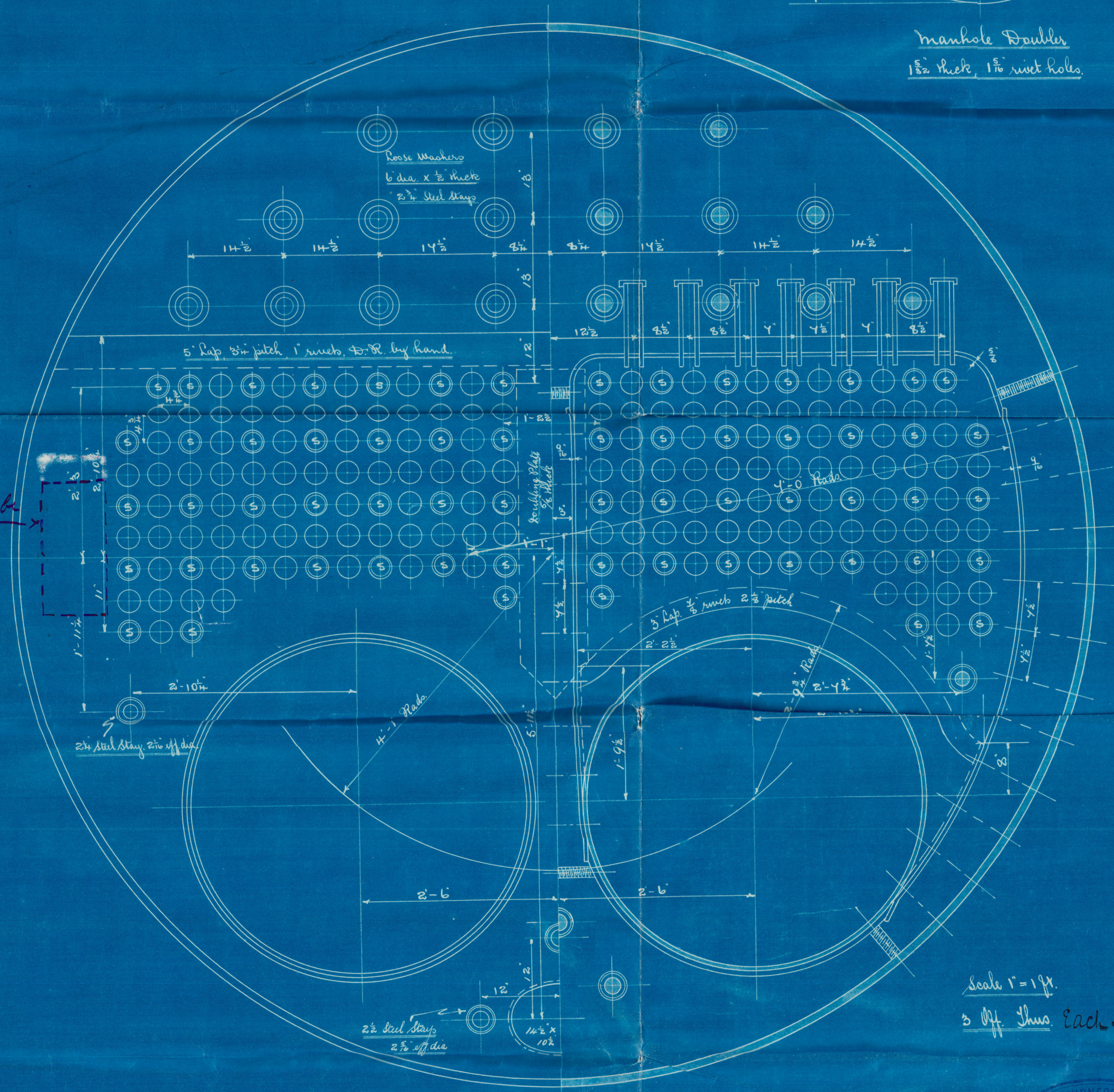
Manhole Doubler
 1 1/2 inch thick, 1 1/2 inch rivet holes

Longitudinal beams 1 1/2 inch holes, 1 1/2 inch pitch
 Circumferential beams 1 1/2 inch holes, 1 1/2 inch pitch
 Double Butt Straps 1 1/2 inch thick

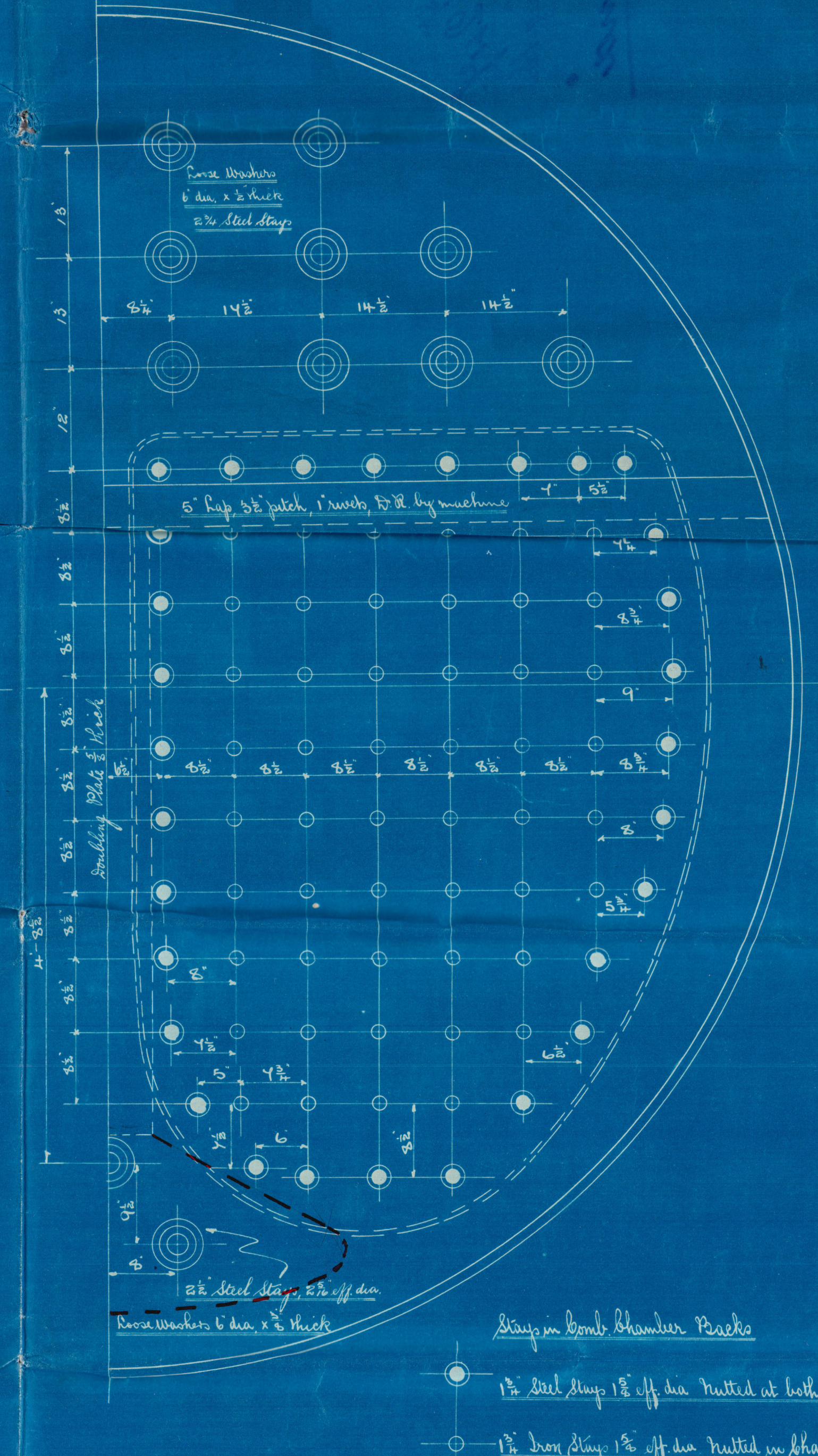
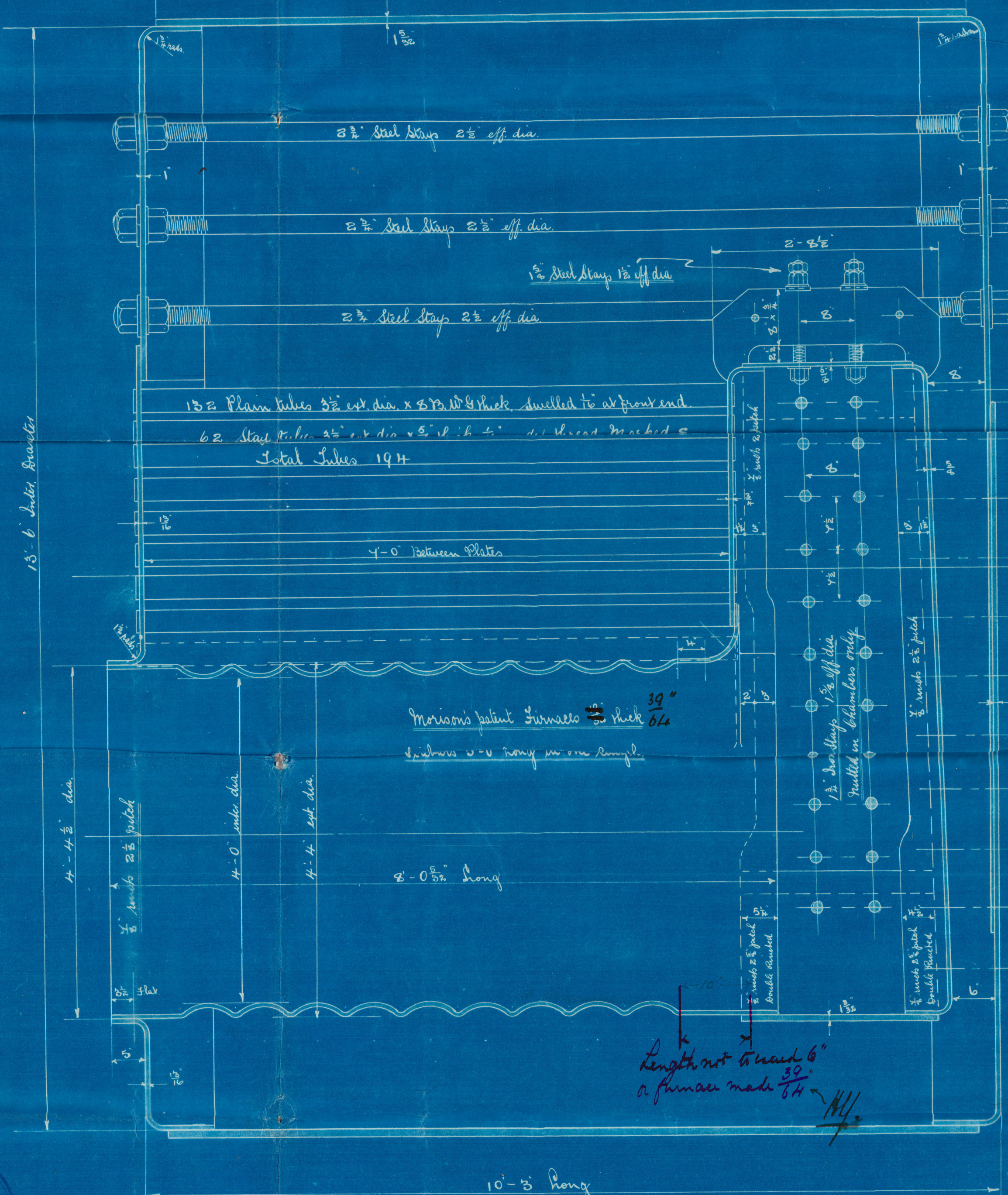


Thickness of Plate	
Shell	1 1/2"
Lap of Ends	1"
Bottom of Front	1 1/2"
Bottom of Back	1 1/2"
Summers	1 1/2"
Comb. Chamber Laps	1 1/2"
Backs	1 1/2"
Subs	1 1/2"
Bottoms	1 1/2"
Back Tube Plate	1 1/2"
Butt Straps	1 1/2"

Heating Surface	
Tubes	1244.4
Comb. Chambers	164.4
Summers	91.5
Tube Plate (Front)	20
Total	1524.2
3 Boilers	4572.6
Grate Surface	0
1 Boiler	40
3 Boilers	120



Scale 1" = 1 1/4"
 3 Off. Lines Each 1/4"



To comply requirements for 120 lbs working pressure
 Inside strength of shell plates & longitudinal straps to be not less than 2.4 tons tensile

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STEEL BOILER No 146. 153.

30.9.98

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HPL389-0100

10/10/98

Steel Main Boilers.
for Furness Withy & Co. 245^{sp}
Sp. Verona

Furness Westgarth's No 146.
13' 6" dia x 10' 3" long.
Working press = 180 lbs

Also.
Furness Withy's 244^{sp}.
Furness Westgarth's Eng. 153.
Sp. Boliviana

Hpl 11227

HPL389-0104



Lloyds.

No 146 Blr

Recd 7 Oct 98



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