

HORIZONTAL DONKEY BOILER

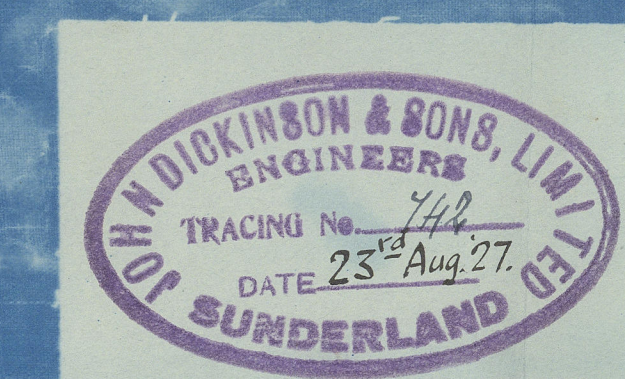
6 Lloyds requirements for a working pressure of 180 lbs per Sq. In. Test pressure 320 lbs per Sq. In.

All plates, rivets, stays & girders of steel

Tubes of wrought iron

SCALE: ONE INCH = ONE FOOT

AS

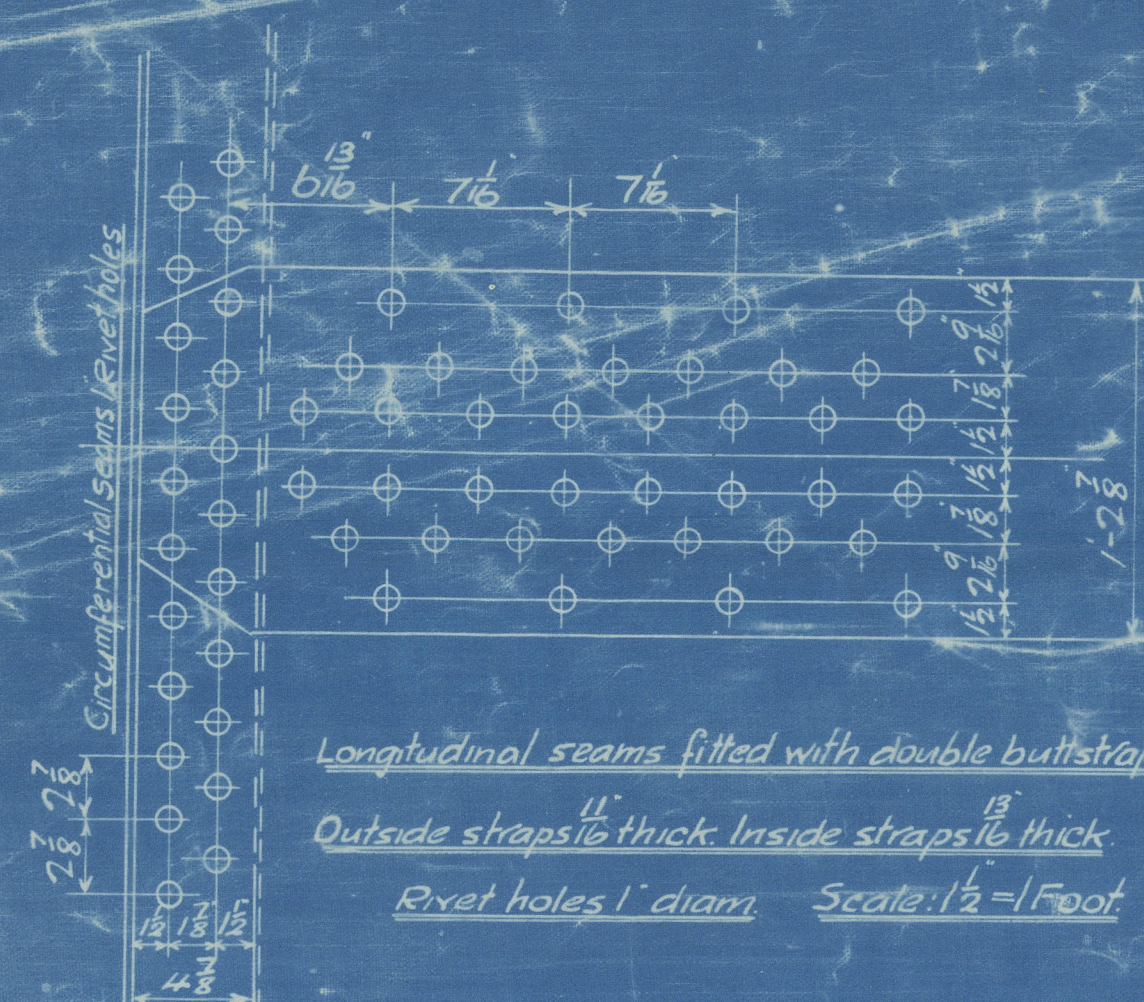


TENSILE STRENGTH

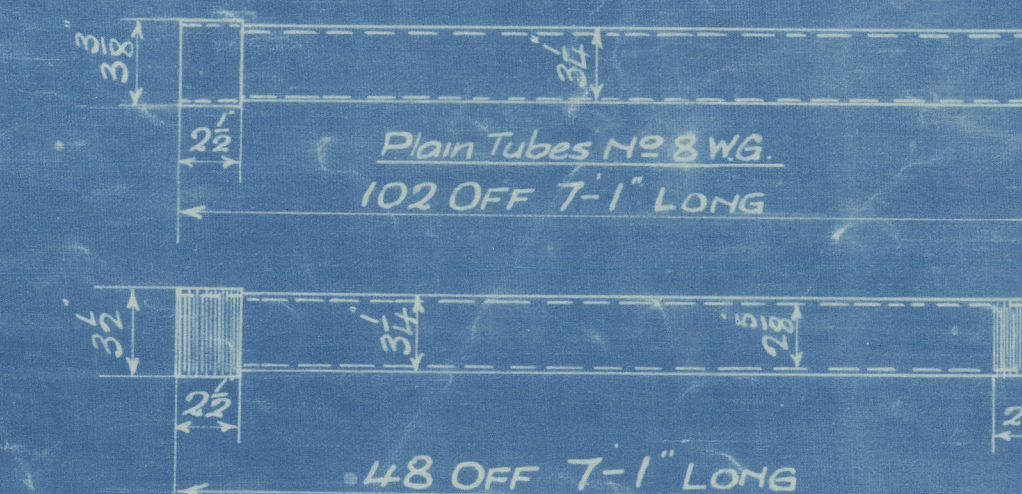
Plate	Tons per Sq. Inch
Shell plates, buttstraps	28 to 32
Manhole stiffening Rings	28 to 32
Comb. Chamber Girders	28 to 32
All other plates	26 to 30

RIVETING

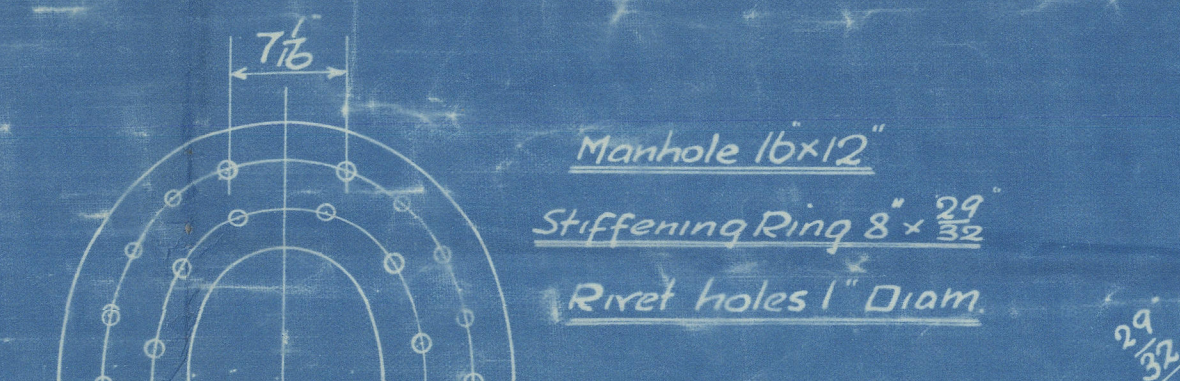
Position	Riveting	Diam. of rivet	Pitch	Lap
Comb. chamber longitudinal seams	Single	$\frac{1}{16}$	2 1/2	2 1/2
Comb. chamber & Furnace seams	Single	$\frac{1}{16}$	2 1/2	2 1/2



Stays	Temp. Stress Tons per Sq. In.	Diam.	Threads per inch	Eff. Diam.	Eff. Area	No. in Boiler
26	$\frac{1}{16}$	9	14	8.88	1.73	20
28	$\frac{1}{16}$	9	14	8.88	1.73	20
30	$\frac{1}{16}$	9	14	8.88	1.73	20
28	$\frac{1}{16}$	6	14	7.88	2.5	1
32	$\frac{1}{16}$	6	14	7.88	2.5	1



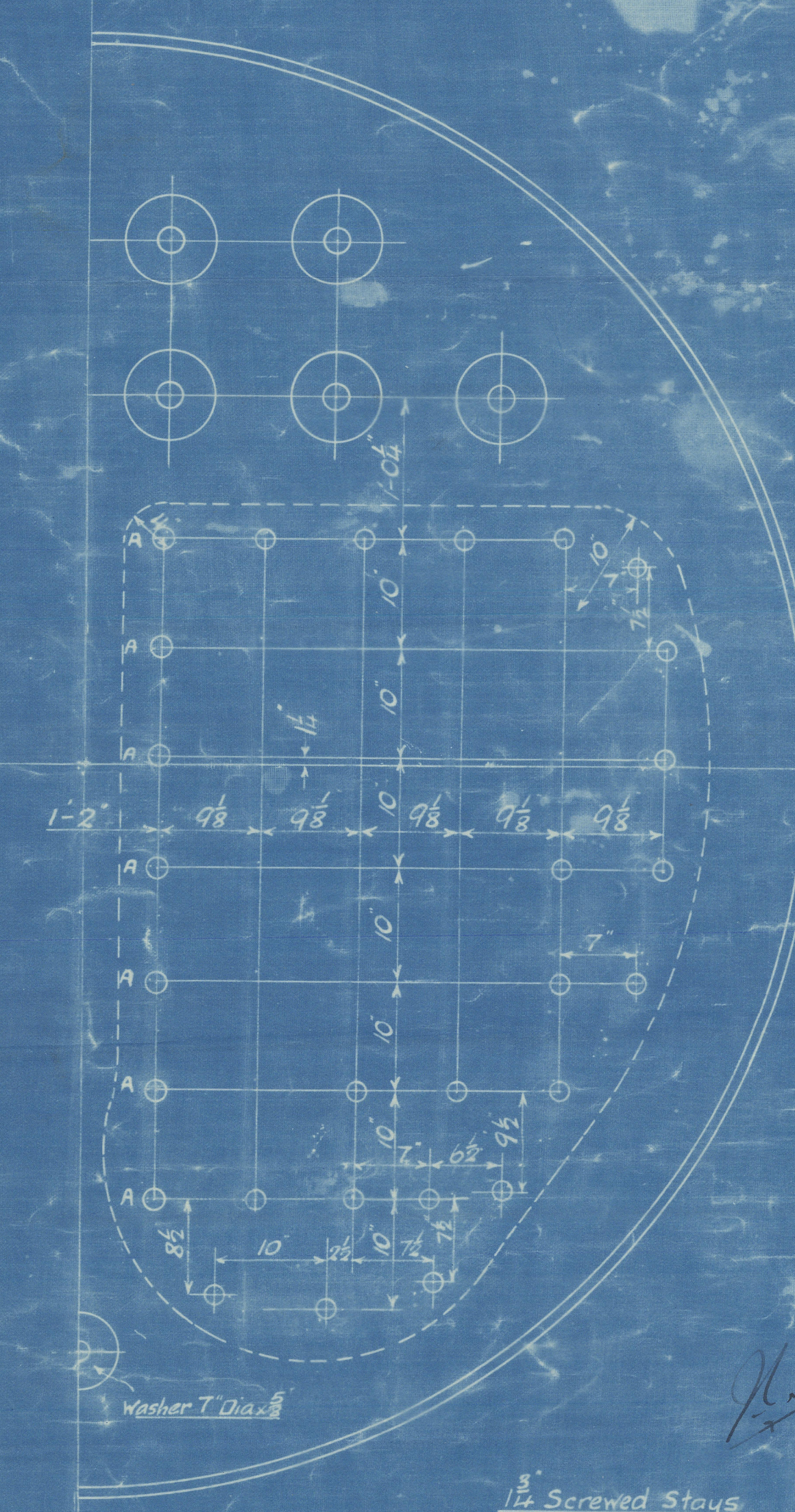
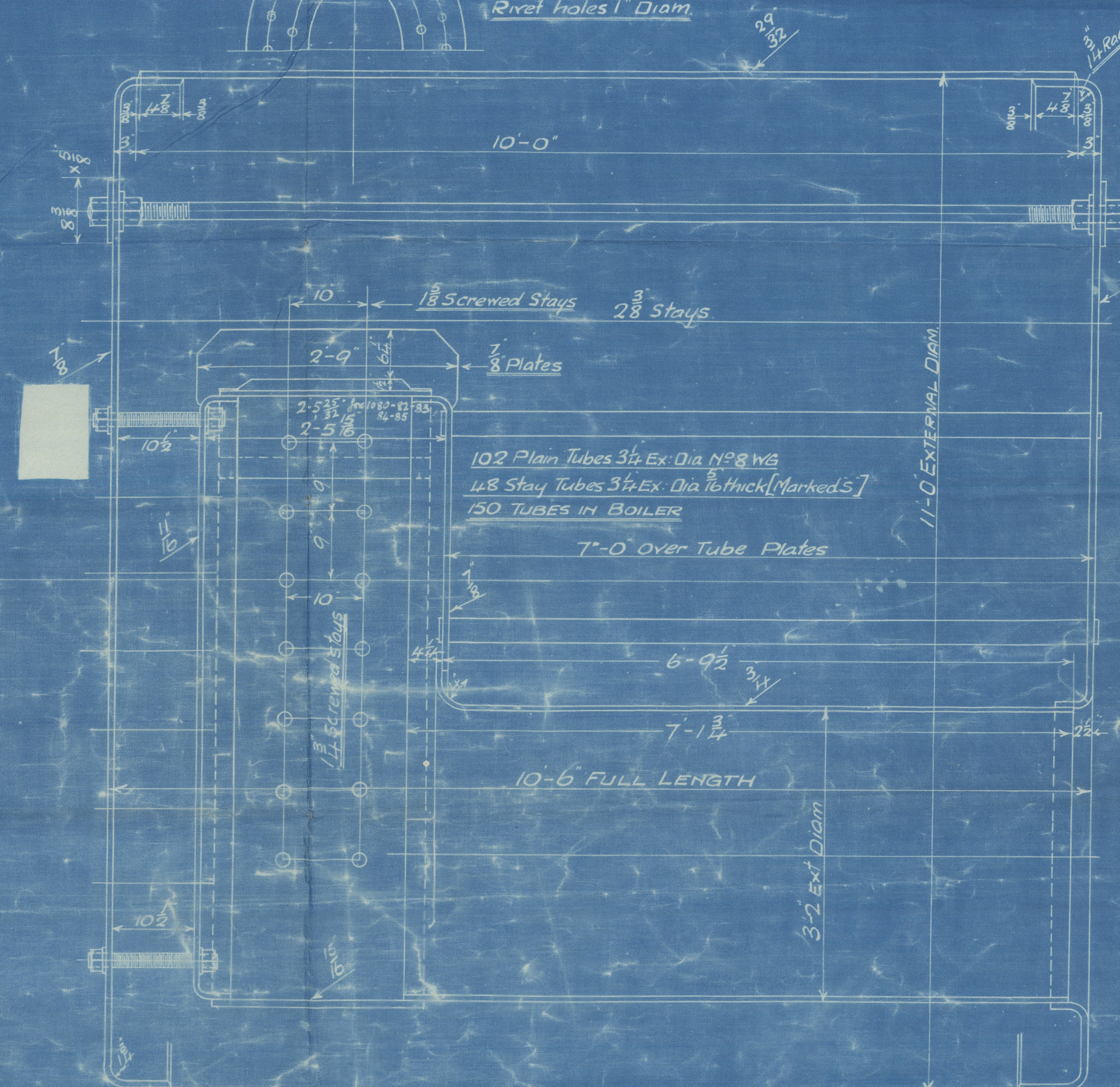
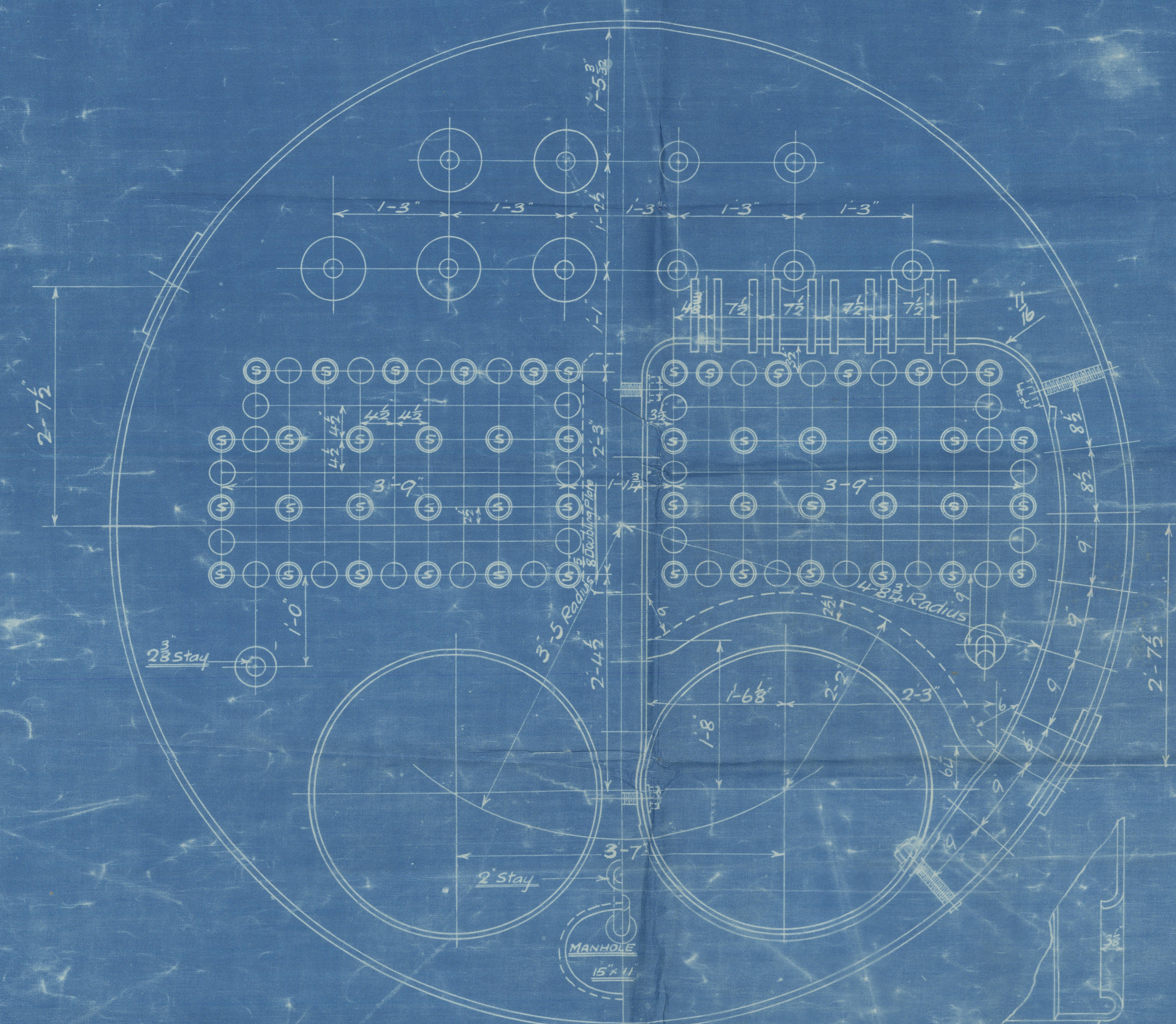
Stay Tubes 5/16 inch thick, screwed 9 threads per inch. Eff. Area 2.1737 sq. in.



Manhole 16x12"

Stiffening Ring 8" x 2 1/2"

Rivet holes 1" diam.



For position of gages on back & rolling stays see Arrangement of Mountings

3/16" Screwed Stays

3/16" Screwed Stays (Marked A)

NOTE: Stays between combustion chambers & marginal stays in backs screwed thro' both plates & not fitted to each end. Stays from combustion chambers to shell & remainder of stays in back to have not fitted on inner end only, & to project 3/16" thro' plate & to be caulked.

Nº 1095 ENG 891 Intended for J.L. Thompson's No. 560.

Total Heating Surface.
1071 Sq. feet

SUNDERLAND.

A. DICKINSON & SONS, LD.

DONKEY BOILER

No. 1095

INTENDED FOR

A. W. THOMPSON & SONS, LD.

S. S. No. 560

No. 3976
LLOYD'S TEST
320 lbs.
W.P. 180 LBS.
A.T.G. 21-1-28.

SUNDERLAND RPT. No. 29682

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Lloyd's Register
Foundation

W560-0115