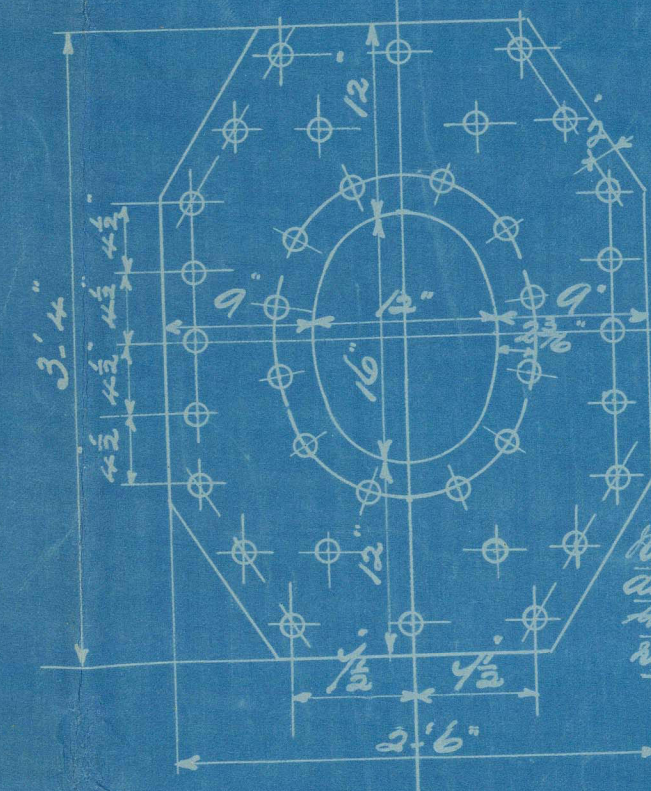


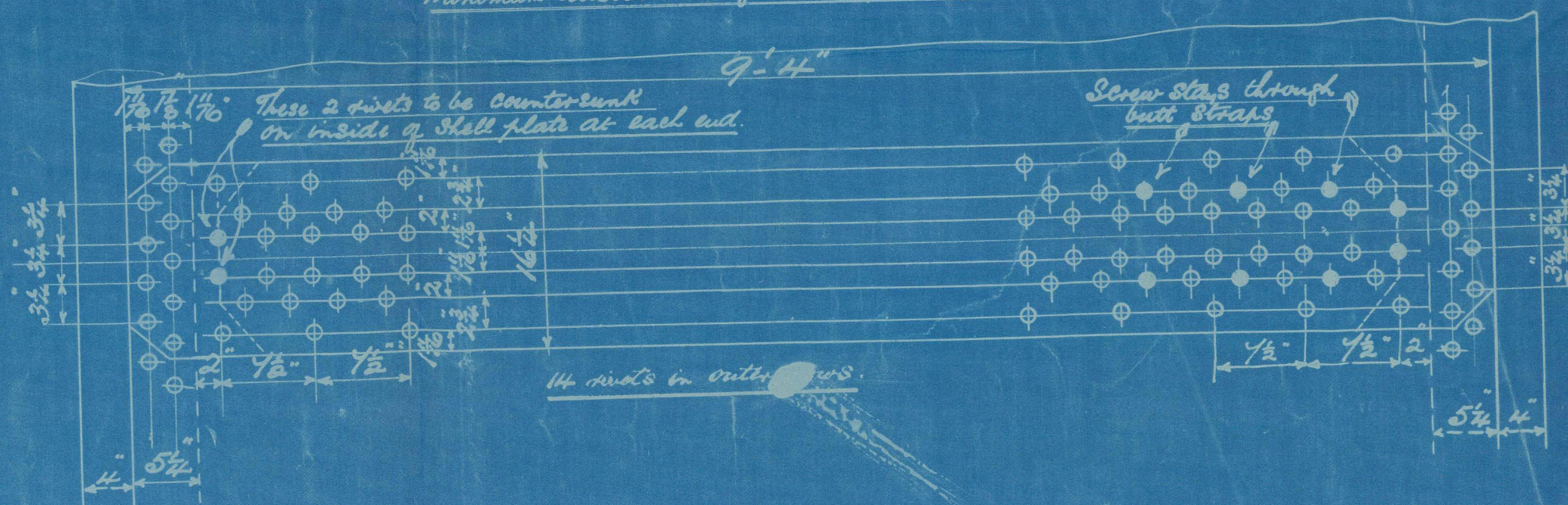
DIA. OF BOILER 12' 0" inside
 LENGTH OF DO 10' 0" inside
 NUMBER OF TUBES 158
 LENGTH OF D 6' 4 1/2" between plates
 DIA. OF D 3 1/2" AREA THRO TUBES 8.1 sq ft.
 HEATING SURFACE IN TUBES 920 sq ft
 TOTAL HEATING SURFACE 1164 sq ft
 FIRE BAR SURFACE 576 bars 34 sq ft
 DIA. OF SAF VALVES 2 1/2"
 CUBIC FEET OF STEAM SPACE 220 cu ft
 WORKING PRESSURE 180 lbs LLOYDS

Doubling plate 1" thick
 Rivets 1 1/2" Holes 1 3/4"
 Fitted outside shell and shorter axis longitudinally.



Note: Stays on manhole
 doors are not to project
 through holes when
 doors are tripped up.

Circumferential Seams 3/4" pitch
 7/8 plate 65.4
 7/8 rivet 55
 Longitudinal Seams 1/2" pitch
 7/8 plate 88
 7/8 rivet 98.5
 Double butt straps 1" thick
 All rivets in shell 1 1/2" dia. Holes 1 3/4" dia.
 Minimum tensile strength shell plates 28 tons.



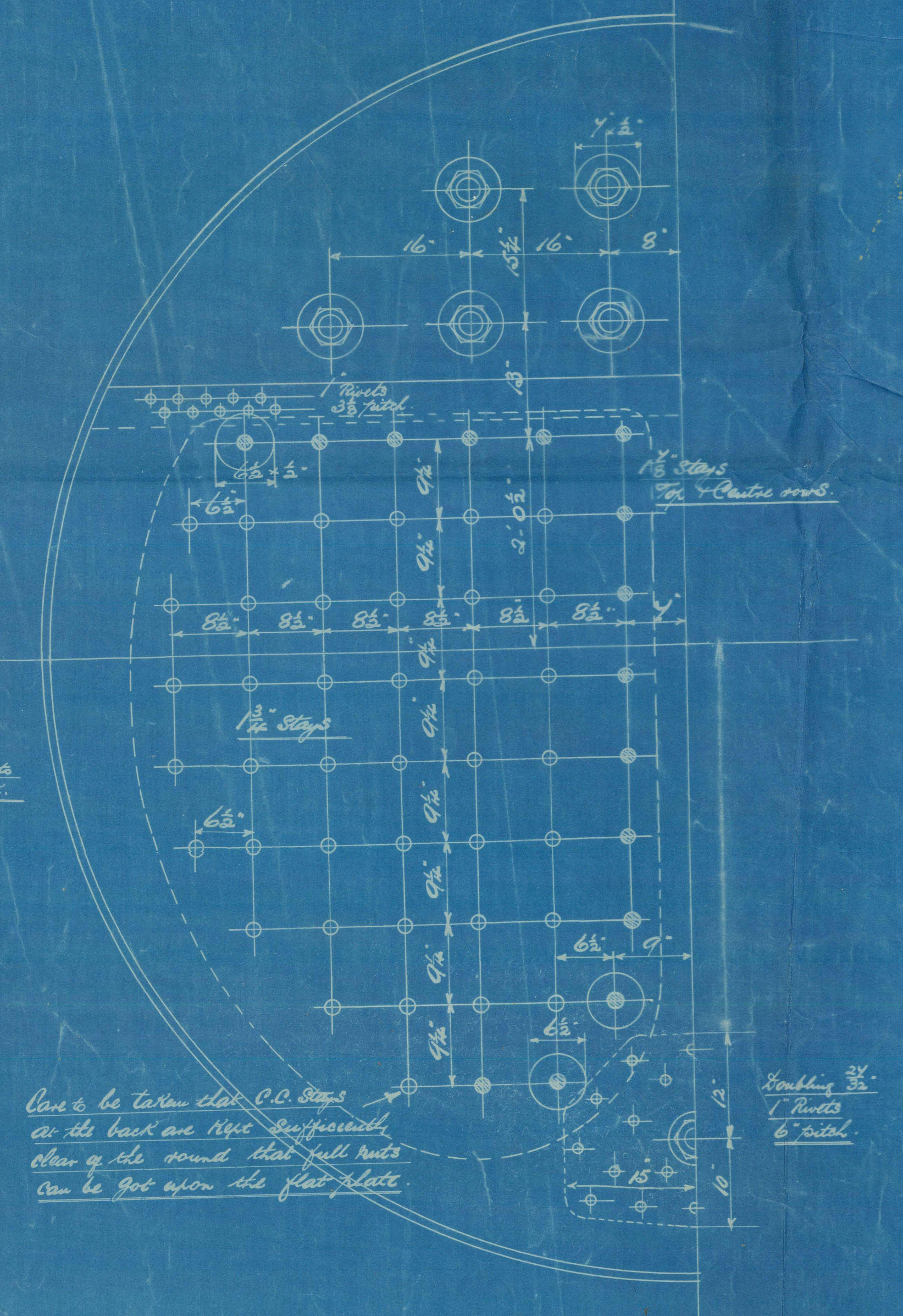
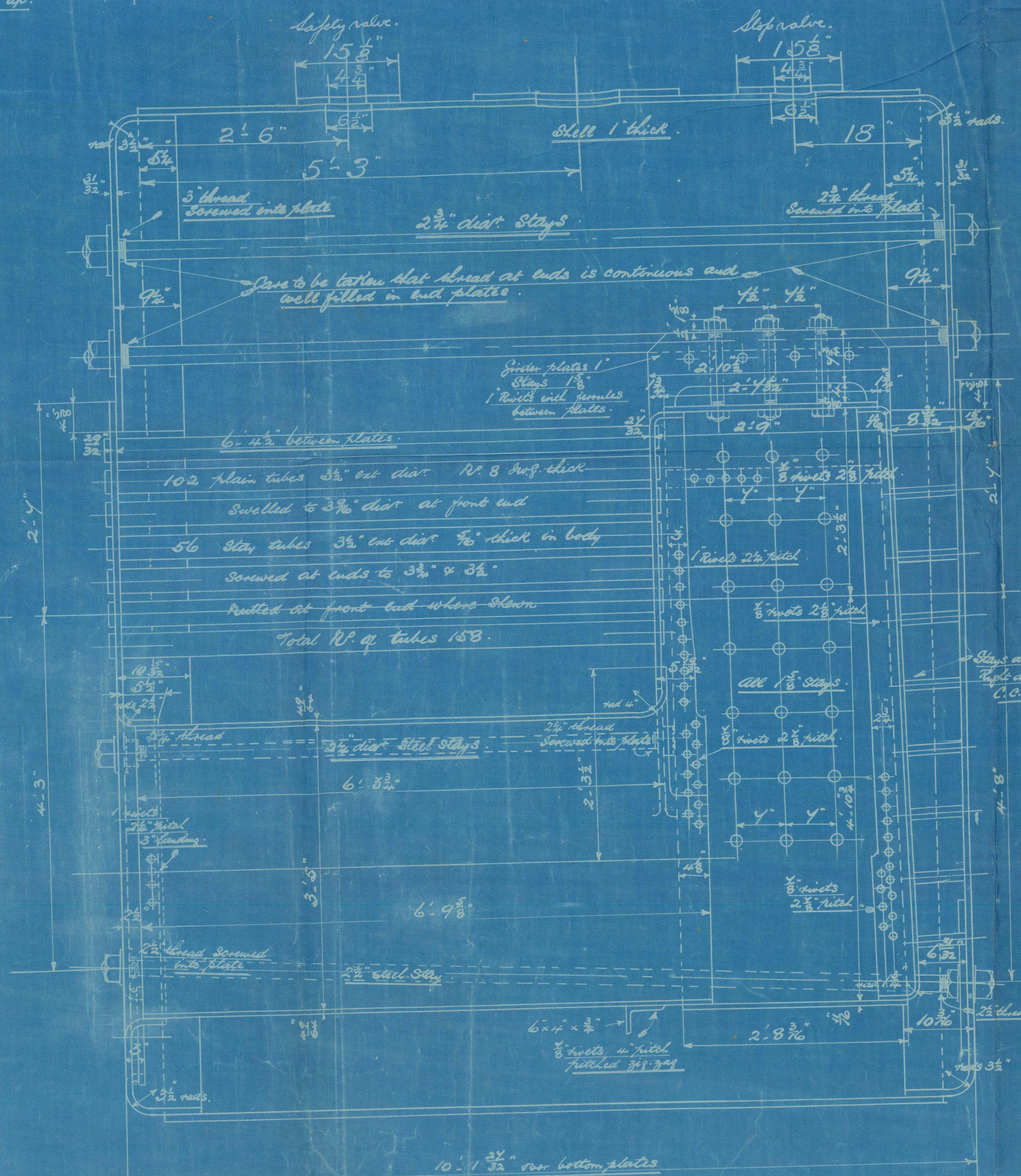
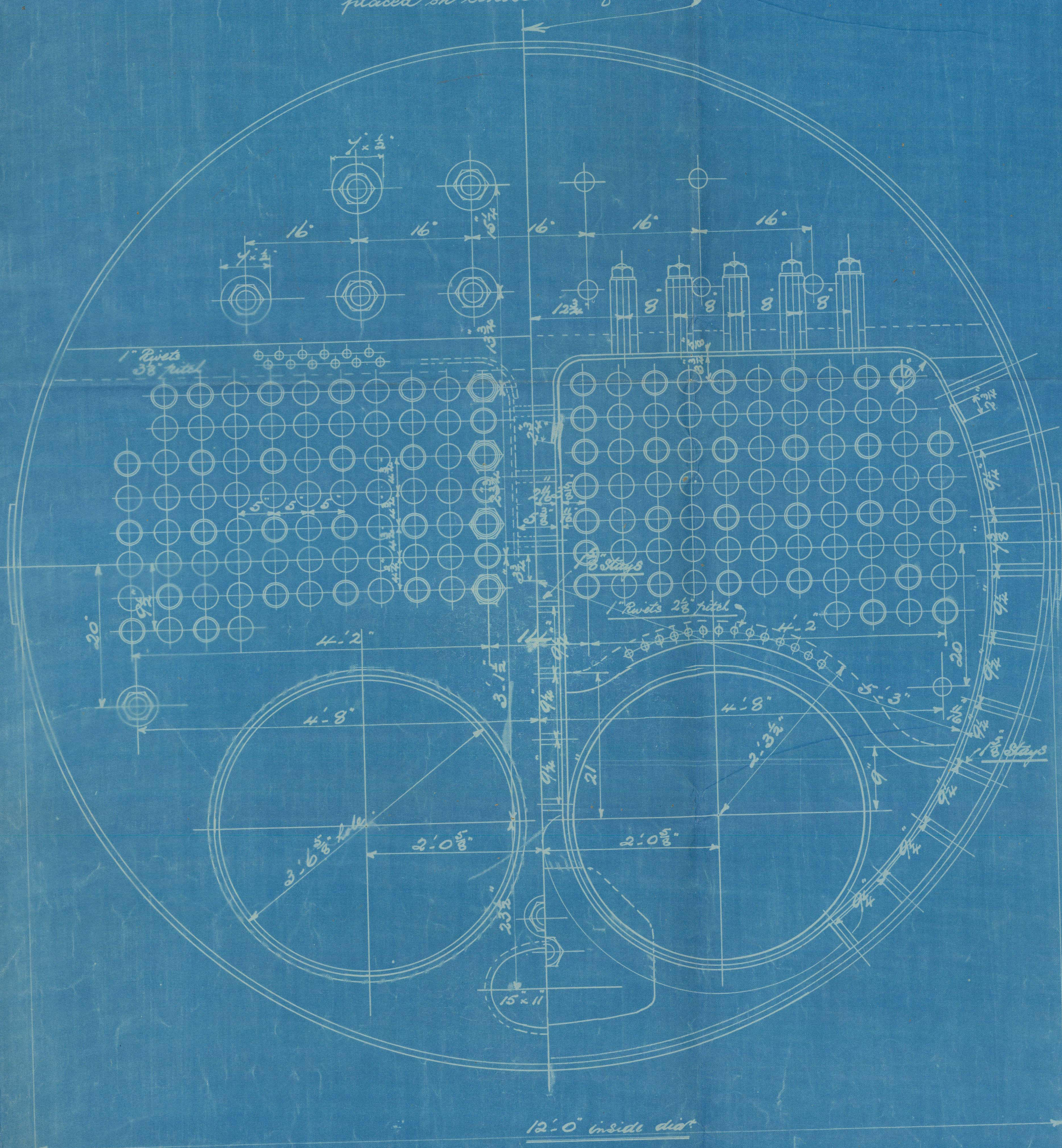
Note:
 The plates rivets & stays of steel by the Siemens-Martin process.
 All rivets holes drilled throughout the boiler, also in shell after
 the plates are bent.
 All flanged plates to be annealed after the plates are bent.
 Stays are not to be welded. Tubes are of iron.
 The tensile strength of the shell plates to be between 28 & 32 tons
 per sq inch.
 The combustion chamber stays are screwed into head plates & fitted
 with a nut at each end. Washers on outside of shell only
 none inside C.A.

Particulars of Staying.

Stays	Dia.	No. of Stays	Sq. area at bottom of shell
Steam space stays	2 1/2"	6	5.055 sq in.
Tube plate	2 1/2"	8	3.43 "
Bottom stay	2 1/2"	6	4.108 "
Stay tubes	3 1/2"	9	2.364 "
C.A. stays	1 1/2"	10	1.46 "
" "	1 1/2"	10	2.056 "
" "	1 1/2"	10	2.397 "

R.

Manhole doubling, Safety Valve
 and Saf. Valve Blocks, all
 placed on centre line of Boiler.



Care to be taken that C.A. stays
 at the back are kept sufficiently
 clear of the round that full nuts
 can be got upon the flat plate.

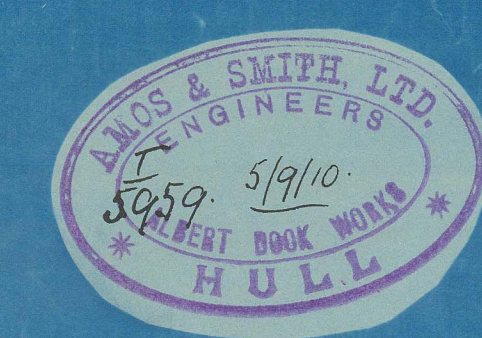
Doubling 3/4"
 1 Rivet
 6" pitch.

AMOS & SMITH
 ENGINEERS
 LLOYD DOCKWORKS
 HULL

STEEL BOILER

N^o 1899

Duplicate of boiler approved 7/9/09



5/9/10
 1899
 1899

TITLE Steel Boiler
 FOR WHOM
 DATE Sept. 14. 1909
 OR BY N. 1412
 IF MADE
 SCALE 1" = 1' 0"

10251

W31-0090 C111

W731-0090 (112)

From AMOS & SMITH, HULL.

Enclosure for

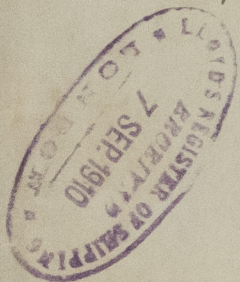
Messrs Lloyds Surveyors
Hull

AMOS + SMITHS

BOILER N° 1899

WP = 180 lbs

s/s 'Yesso'
Hull Report No. 23512



RETAIN



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W731-0090 (212)