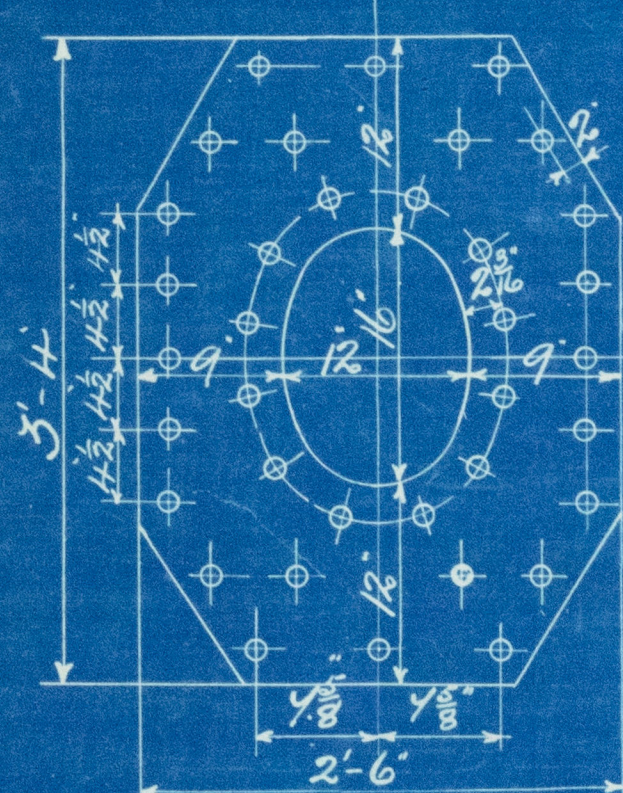


DIA. OF BOILER 12'-6" inside
 LENGTH OF BOILER 10'-2" inside
 NUMBER OF TUBES 162
 LENGTH OF TUBES 6'-6" between plates
 DIA. OF TUBES 3 1/2" AREA THRO TUBES 8.3 sq ft.
 HEATING SURFACE ON TUBES 964 sq ft.
 TOTAL HEATING SURFACE 1230 sq ft.
 FIRE BAR SURFACE 5 ft bars 35 sq ft.
 DIA. OF SAFETY VALVES 2 1/2"
 CUBIC FEET OF STEAM SPACE 266.
 WORKING PRESSURE 180 lbs. LLOYDS

Doubling plate 1 1/2" thick.
 Rivets 1 1/2" Notes 1 1/8" dia.
 Fitted outside shell with flange
 axis longitudinally.

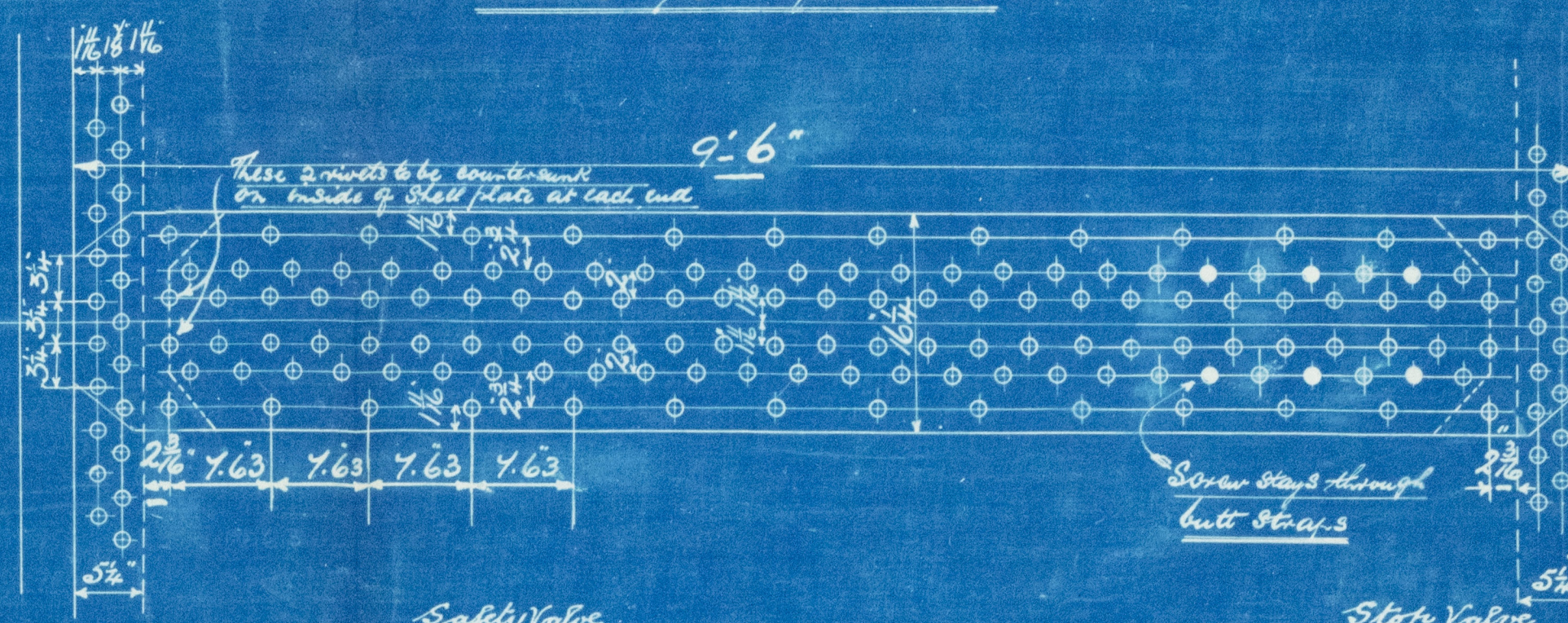


Note:
 Stays on handle doors are not
 to project through nuts, when nuts
 are tightened up.

Manhole doubling
 Safety Valve
 Safety Valve blocks are
 placed on Centre Line of boiler

17/10/10

Circumferential Seams 3 1/2" pitch.
 % plate 65.4
 % rivets 50.
 Longitudinal Seams 4.63" pitch.
 % plate 85.2
 % rivets 94.0
 All rivets in shell 1 1/2" dia. Notes 1 1/8" dia.
 Double butt stays inside 7" dia. Outside 1 1/2" dia.
 Minimum Tensile Strength shell plate & butt stays
 28 tons per square inch.

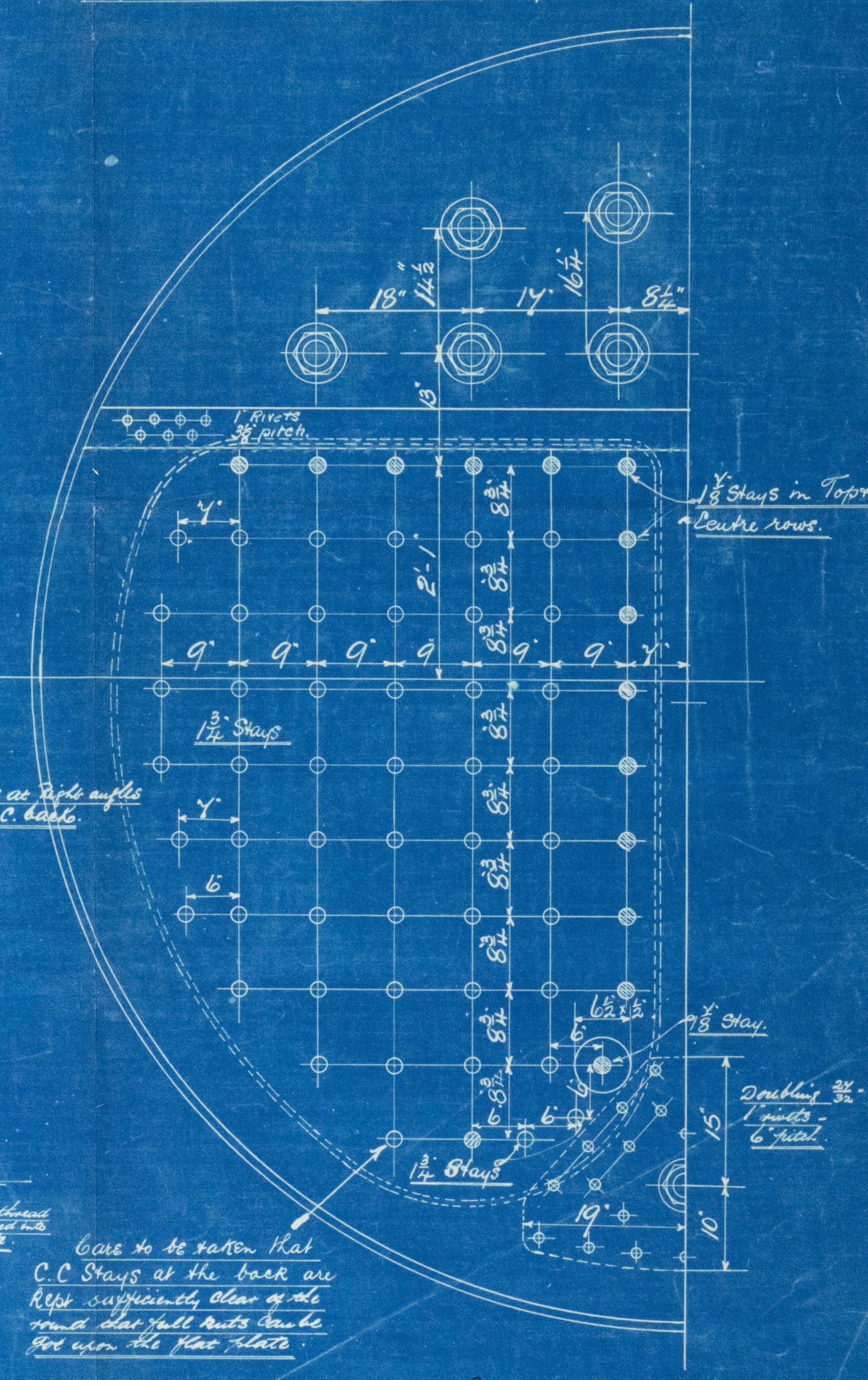
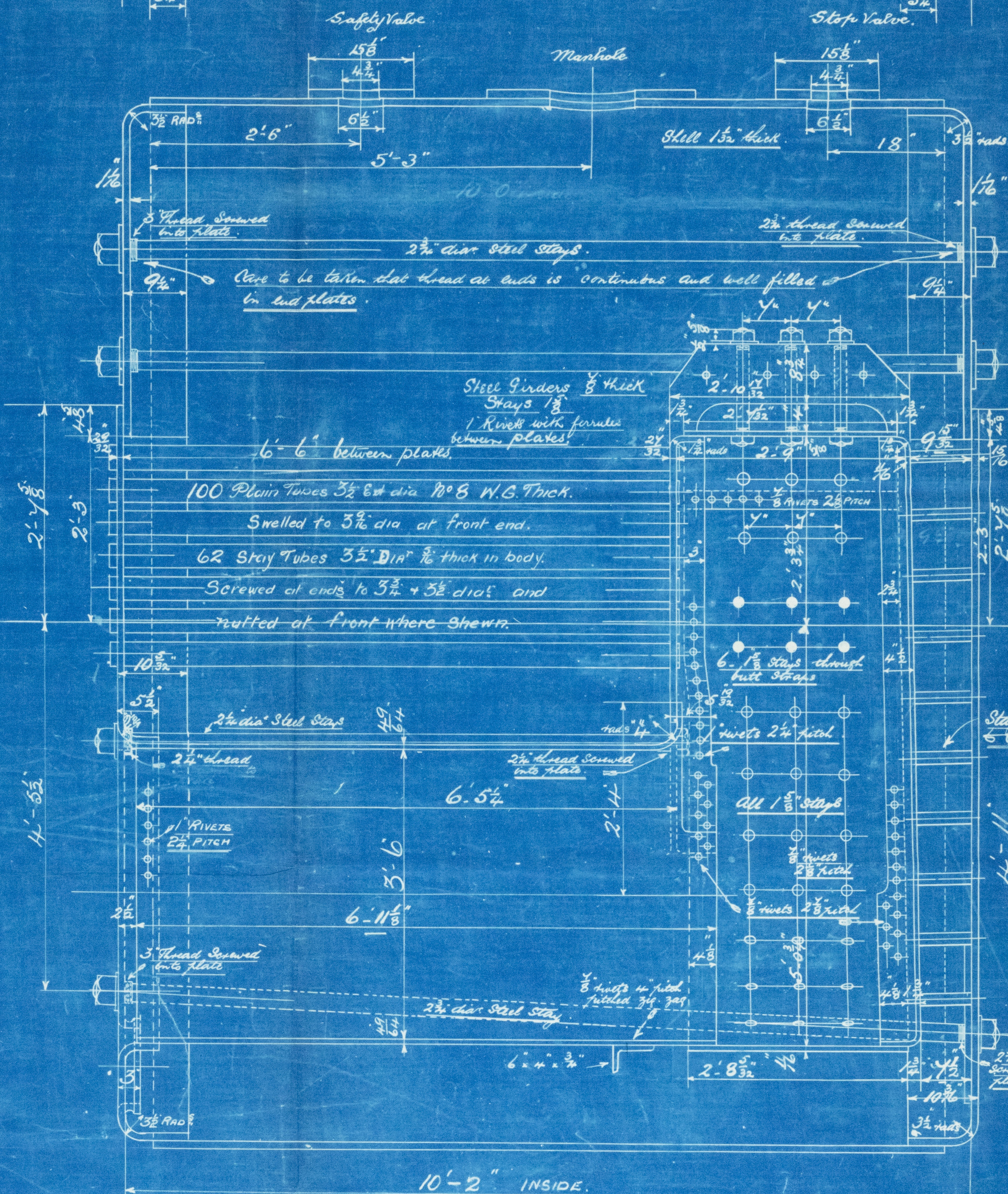


Note: The plates with stays of steel by the Seaming Machine process,
 all rivet holes drilled through the boiler: none in shell
 after the plates are bent.
 All flanged plates to be annealed after the plates are bent.
 Stays are not to be welded. Tubes are of iron.
 The Tensile Strength of the shell plates to be between 28
 and 32 tons per square inch.
 The combustion chamber stays are screwed into both plates
 and fitted with a nut at each end. Washers on outside
 of shell only. None inside C.C.

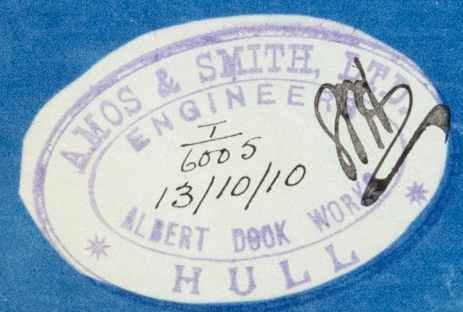
Particulars of Stayings

Stay.	Area	No. of threads per inch	Eff. area at bottom of thread
Steam space stays.	2 1/2"	6.	5.055 sq in.
Tube plate	2 1/2"	8.	3.43 sq in.
Bottom stays.	2 1/2"	6.	5.055 sq in.
Stay tubes	3 1/2"	9	2.364 "
C.C. Stays.	1 1/2"	10	1.46 "
	1 1/2"	10	2.066 "
	1 1/2"	10	2.394 "

R



2 STEEL BOILERS N^{OS} 1911, 12



TITLE Blue Boilers
 FOR WHOM DRAWN E. Dean
 DATE 13/10/10
 ORDER 100
 IF MADE
 SCALE 1" = 1 foot

10239.

From AMOS & SMITH, Ltd., HULL.

Enclosure for

Messrs

Lloyds. Surveyors

Hull.

0154 2/2

Amos. SMITH'S

BOILER. No. 1911-12

W.P. = 180 lbs



4/5 Orcales Hull Rte 2. 23875
- Lacerta - - - 23897

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