

6:5:05

STEEL BOILER No 509 & 510

WORKING PRESSURE = 200 LBS (LLOYDS)

SCALE 1 INCH = 1 FOOT

DIMENSIONS

LENGTH OF FIRE MAPS	
AREA OF FIRE GRATE	
DIAM OF TUBES OUTSIDE	3 1/2
LENGTH OF TUBES over plates	6' 4"
Nº OF TUBES	175
AREA THROUGH TUBES	425.4
SURFACE OF TUBES	960.4
TOTAL HEATING SURFACE	1250.4
WORKING PRESSURE	200 LBS.

Note:
 All plates, stays and rivets to be of Siemens Martin Steel.
 All rivet holes throughout the boiler to be drilled in place
 after the plates are bent. The screw stays are 1 1/2", 1 3/8" & 1 1/2"
 effective diameter, screwed into both plates and nutted at each end
 screwed 10 threads per inch. The tubes are of iron the ordinary
 tubes are 3 1/2" ext. diam. & 1 1/2" B.S.S.G. thick. The stay tubes
 are 2 1/2" int. diam. & 3/8" thick effective, screwed at ends to 3 1/2" & 3 3/4" diam.
 A Manhole in shell 16" x 12" with shorter axis longitudinally
 and a doubling plate 3-4 x 2-6 x 1 3/8" thick fitted round it.

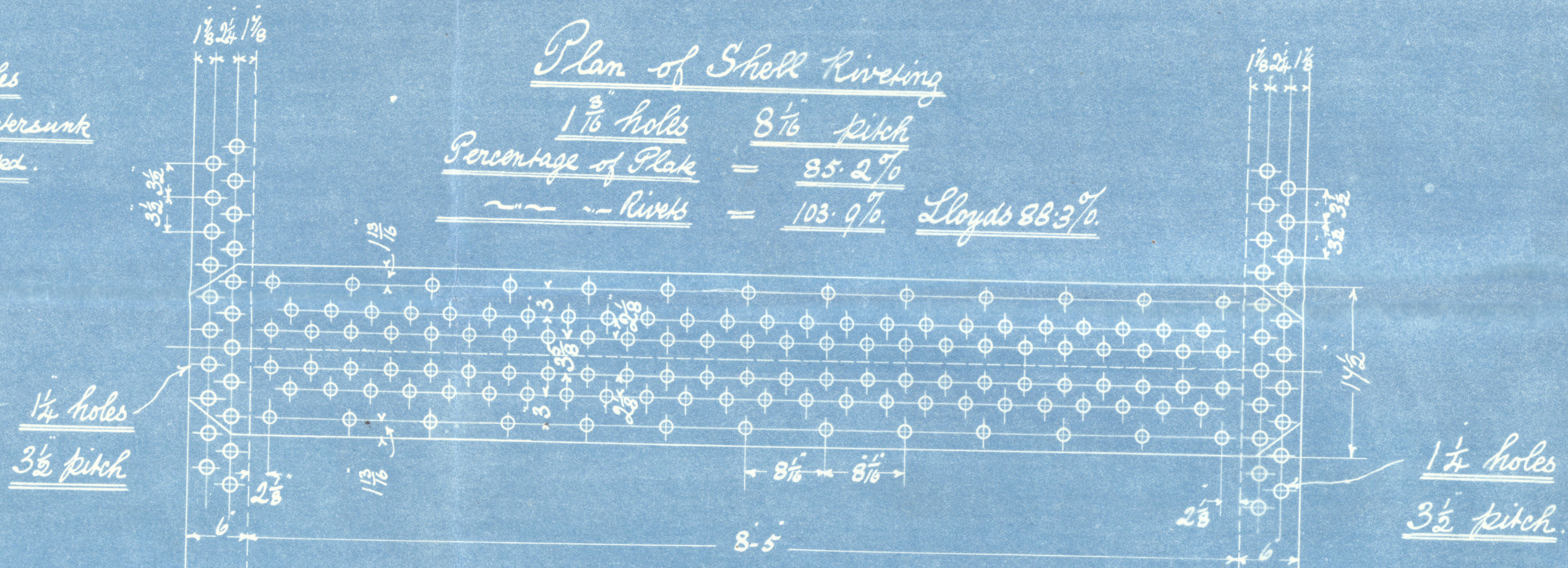
All plates & stay bars made by

Doubling plate round manhole



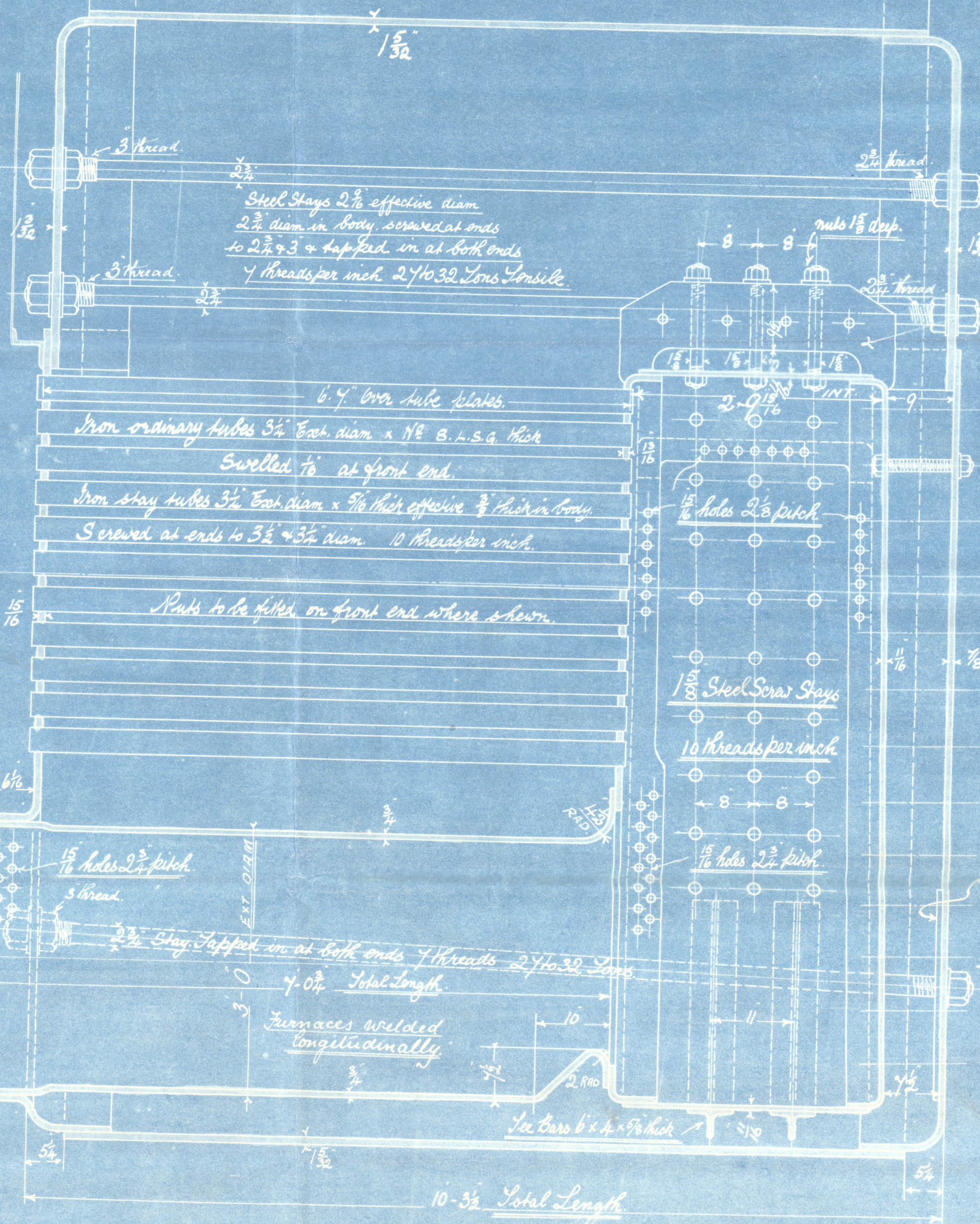
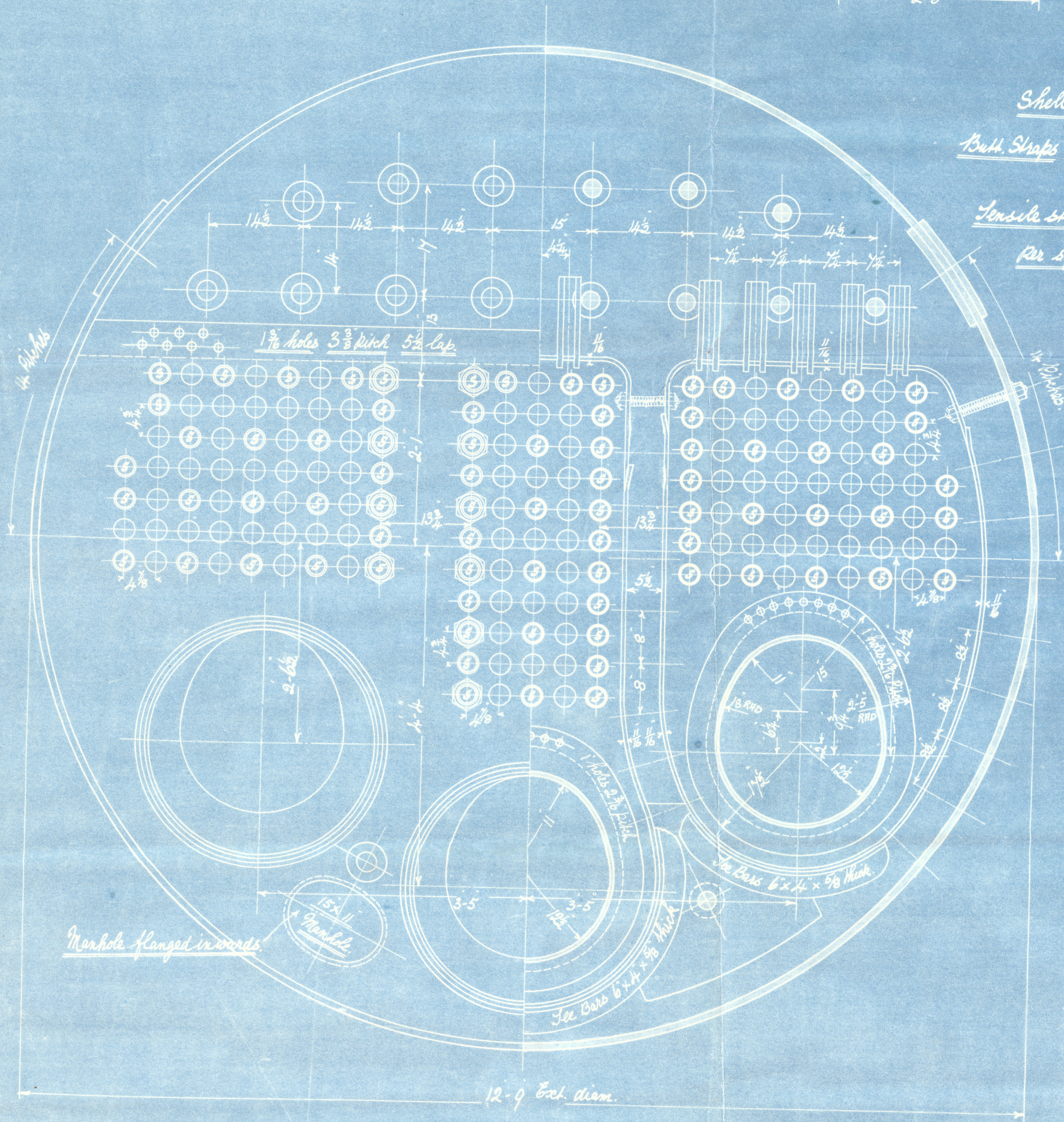
All 1 1/2" rivet holes
 inner row countersunk
 & flush riveted.

Plan of Shell Riveting
 1 1/2" holes 8 1/2" pitch
 Percentage of Plate = 85.2%
 Rivets = 103.9% Lloyds 88.3%

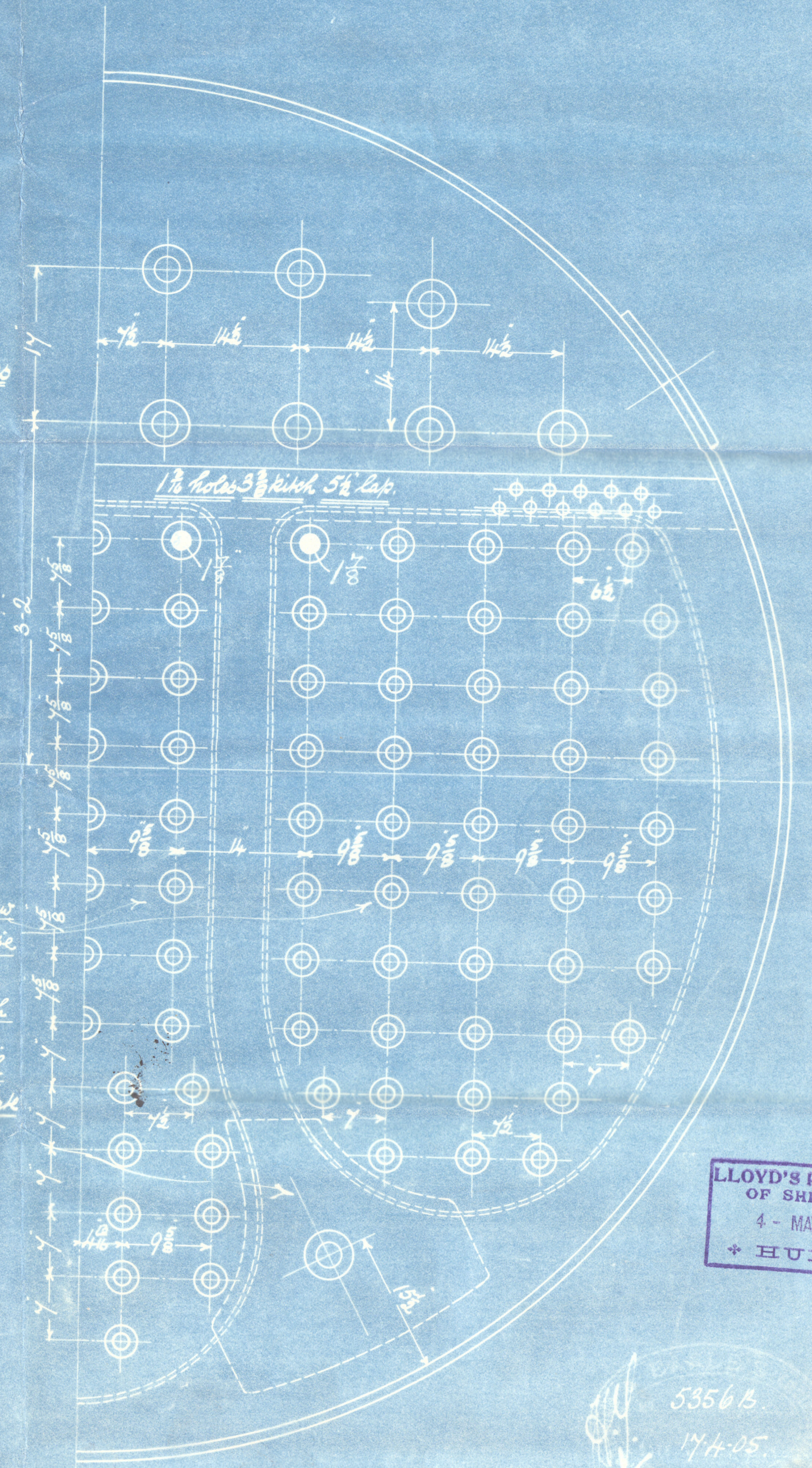


Shell 1 3/8" thick
 Built Stays Inside 1 1/2" x 1 3/8"
 Outside 1 1/2" x 1 1/8"

Tensile strength 28432 lbs
 Per square inch



All 1 1/2" Steel Screw
 Stay except those
 which are shown
 in section which
 are 1 1/8" diam.
 10 threads per inch
 inside doubling plate
 3/4" thick
 riveted on with
 1 1/2" rivets
 1 1/2" rivet holes.



LLOYD'S REGISTER
 OF SHIPPING.
 4 - MAY 1905
 + HULL +

EARLE'S ENGINEERING
 No. 5392.B
 DATE 3.5.05
 LLOYD'S REGISTER

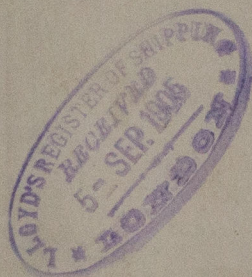
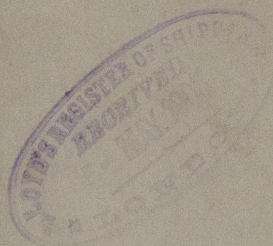
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 5.5.05
 8.5.05

No 509 & 510
 Lloyd's Register Foundation

Earle's Co. Ltd

- Blr. No. 509 + 10 -

200th



s/s Marshal Oyama Hull Rpt. No. 17282
- "Dauntless" " " "

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