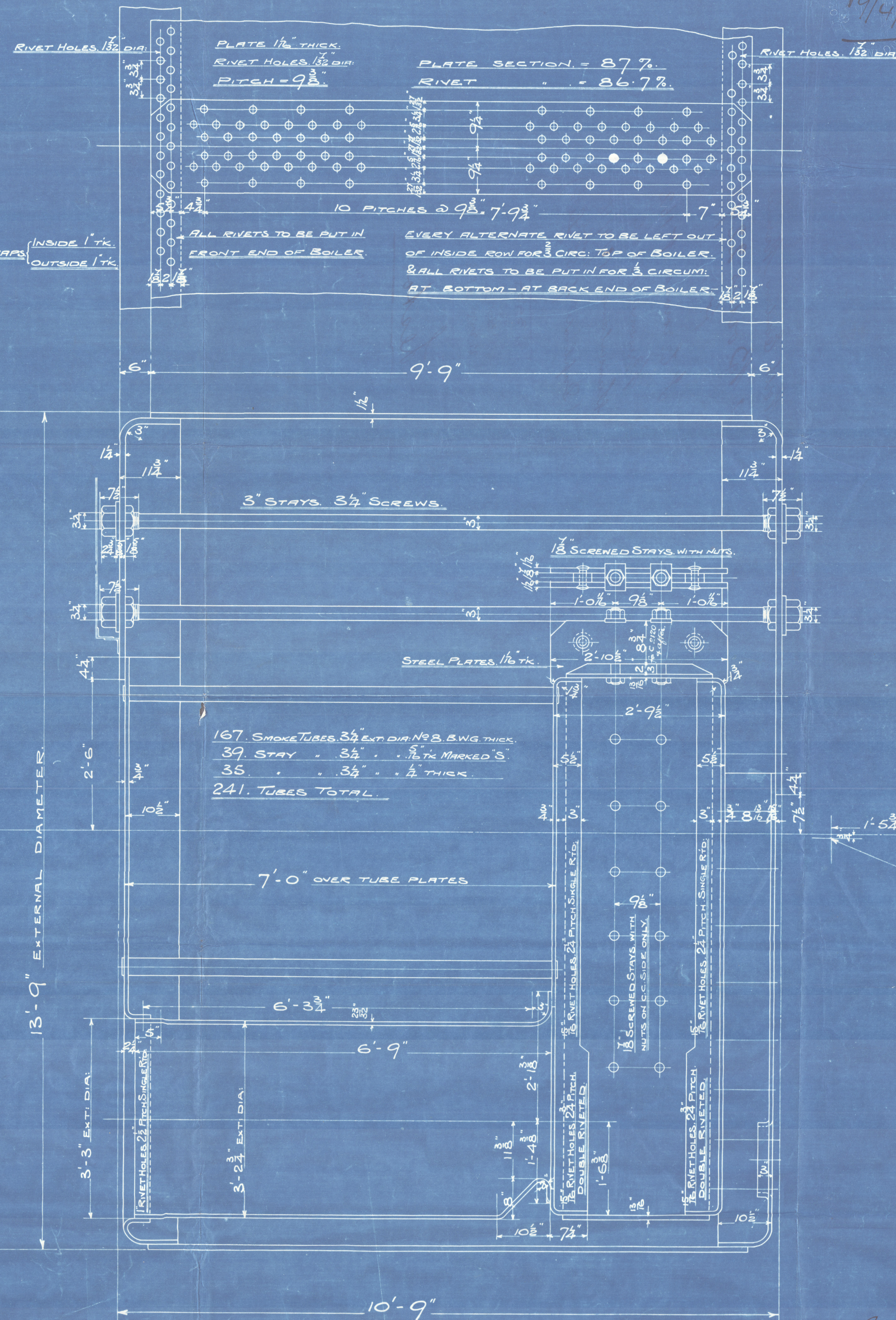
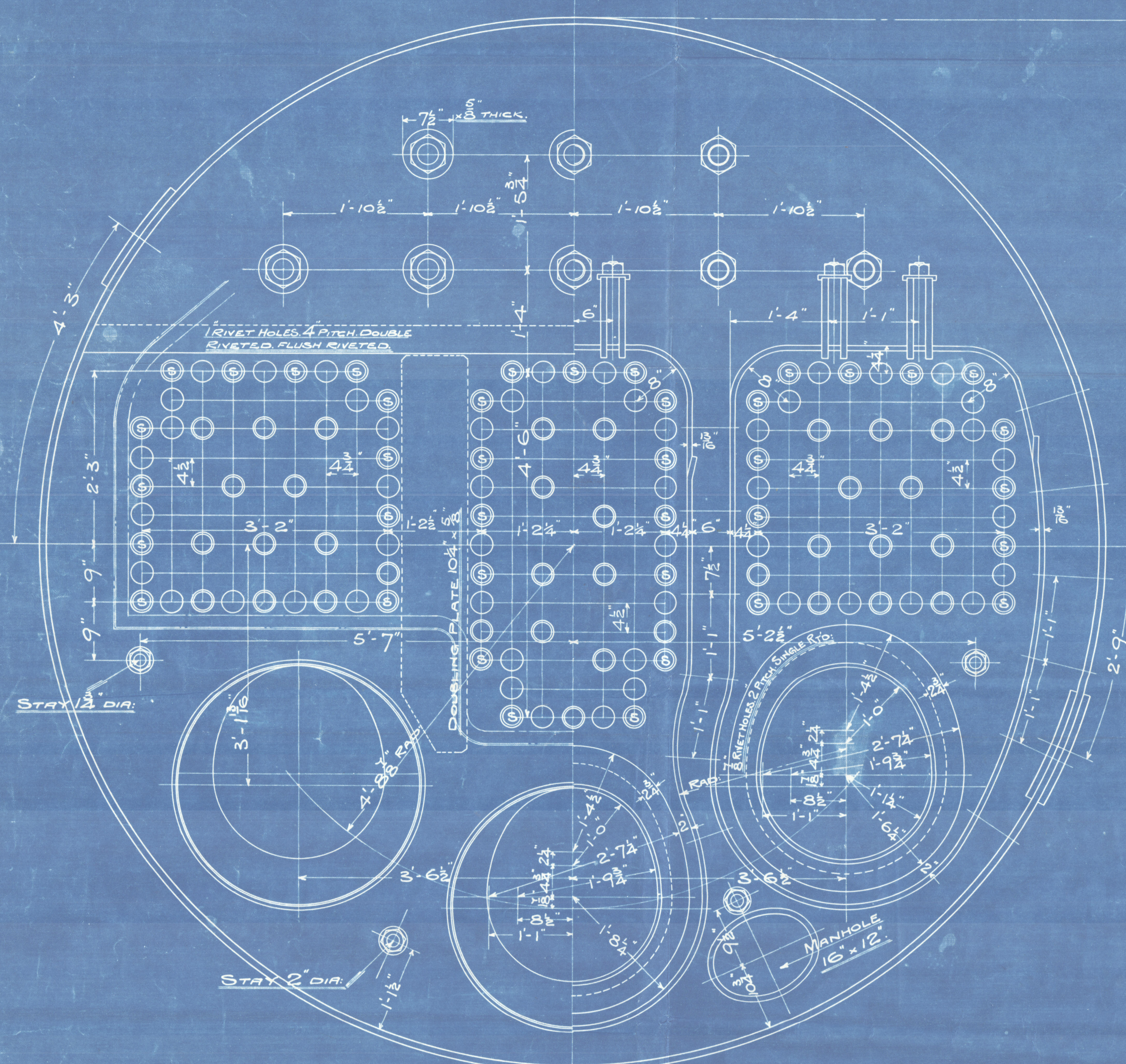
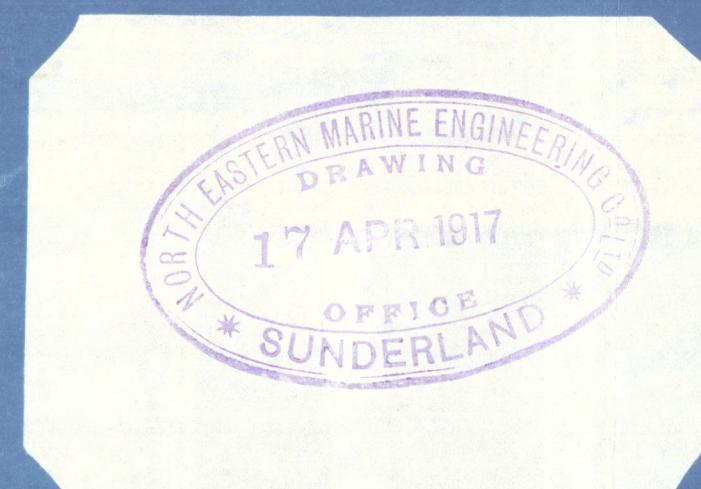


SUNDERLAND ENGINE WORKS

BOILER

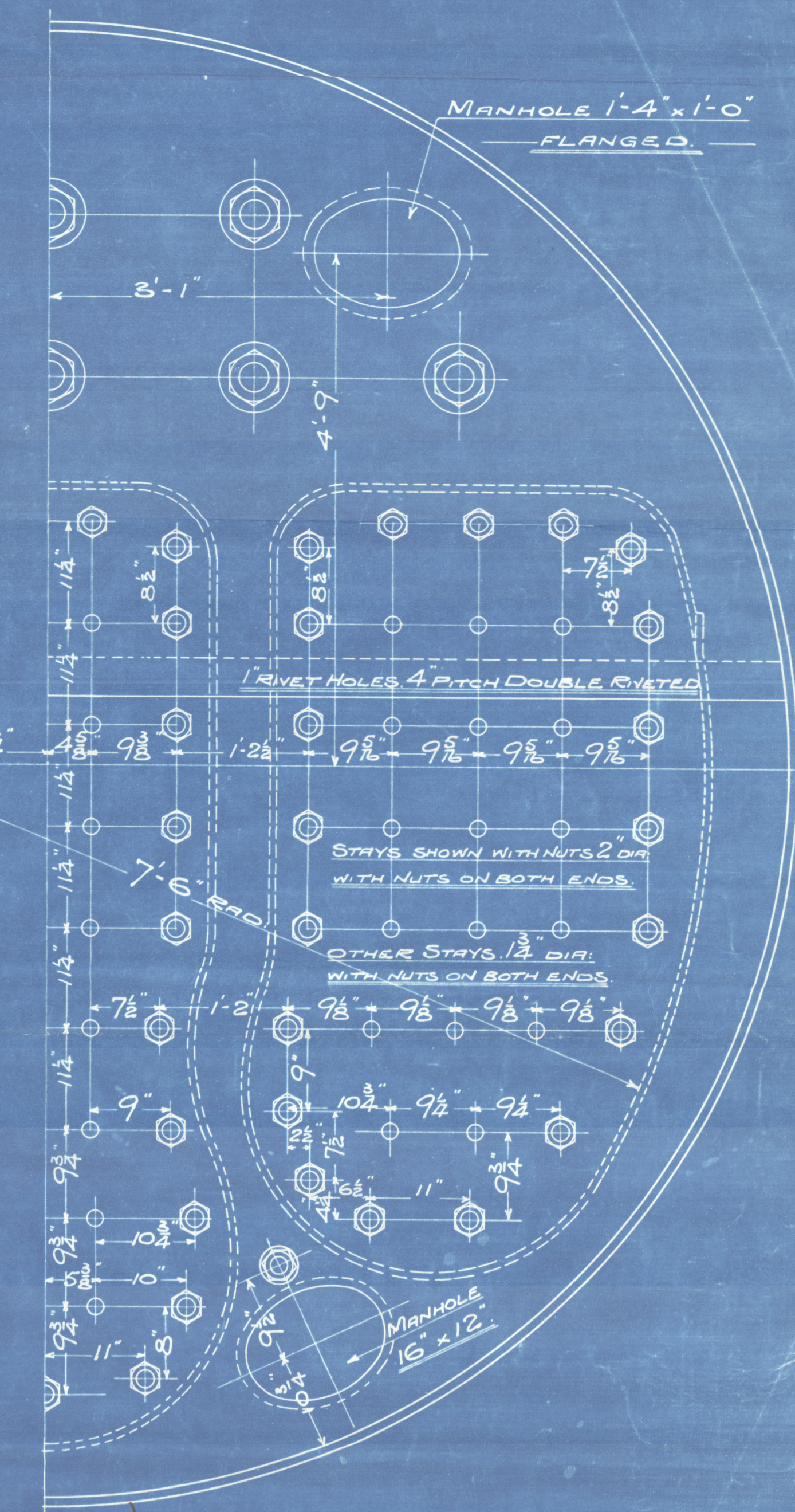
TRACING 4190 SCALE: 1 INCH TO A FOOT SCHEDULE 'L'

WRITTEN DIMENSIONS ONLY TO BE TAKEN



19/4/17

TO PASS LLOYD'S SURVEY.		
SHELL	22.58 (17-2) 86.7	180 LBS PER SQ
WORKING PRESSURE		180
TEST		360
HEATING SURFACE ON TUBES		1432 SQ. FT.
" " OTHER PARTS		370
" " TOTAL		1802
Ex: FRONT TUBE PLATE		1767
EFFECTIVE AREA OF STAYS		
3 1/2" STAY TUBES 1/2" THICK PER INCH		2.17 SQ. INCHES
3 1/2" " 1/4" " "		1.64
3" MAIN STAYS 6		7.06
2" " 6		2.51
2" SCREWED 11		2.79
1 1/2" " 11		2.43
1 1/4" " 11		2.1
ALL PLATES RIVETS & STAYS - STEEL -		
TUBES - WROUGHT IRON -		
HOLES TO BE DRILLED IN PLACE AFTER BENDING.		
TENSILE STRENGTH OF SHELL PLATES, NOT LESS THAN 28 TONS		
" " GIRDER		28
" " MAIN STAYS		28



J.A.S.
11.7.12

19.4.17

CONTRACT 2235. 2 OFF.
CONTRACT 2077. 2 OFF.
CONTRACT 2298. 2 OFF.
CONTRACT 2121. 2 OFF.

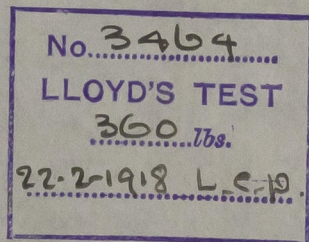
North Eastern Marine
2 Boilers 2298
for

J. Crowns #162

Pressure 180 lbs

Sunderland 18/4/17

(Duplicate of ^{Austin's} S.S. "Lesto")



Lesto

SUNDERLAND RPT. No 27209



002157-02164-0228



Lloyd's Register
Foundation