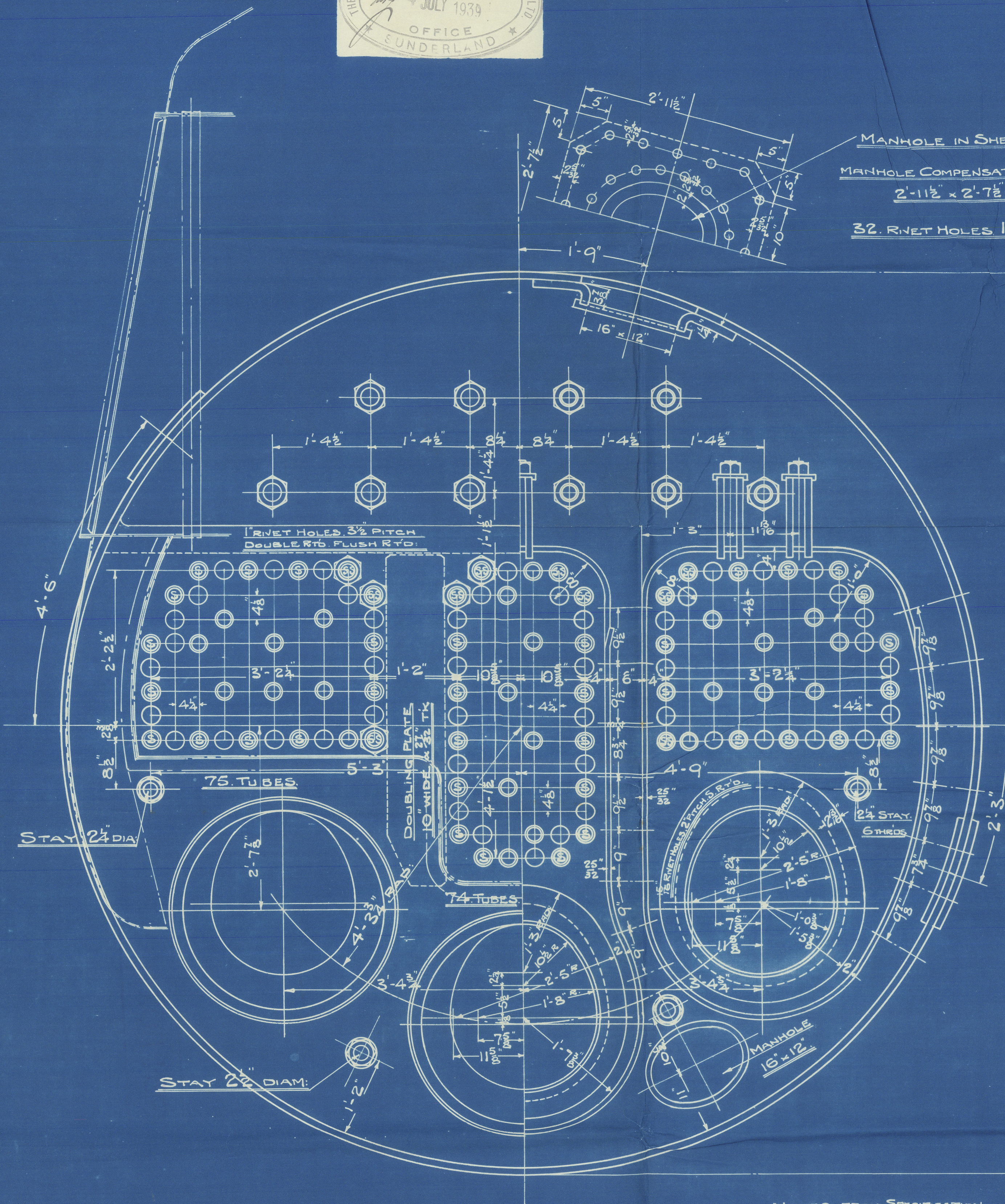


# BOILER.

WRITTEN DIMENSIONS ONLY TO BE TAKEN

[illegible]

BUTT STRAPS { OUTSIDE STRAP  $\frac{15}{16}$ " THICK.  
                          INSIDE STRAP  $1\frac{1}{16}$ " THICK

PADS FITTED ON SHELL FOR MAIN STOP & SAFETY VALVES

2 $\frac{5}{8}$ " DIA: STAYS. 3" SCREWS.

154	SMOKE TUBES, 3" EXT. DIA. 8 W.G.T. TO BE SHELLED 3" AT FRONT END.
10	STAY " 3" " " 7/16 THICK, MARKED "SS" (WITH NOT.)
36	" " 3" " " 3/8 THICK, MARKED "S."
24	" " 3" " " 5/16 THICK, MARKED "O."
224	TUBES TOTAL.

- 7' - 10 1/2" OVER TUBE PLATES

NOTE: END OF TUBES IN SMOKE BOX TO BE KEPT  
 $\frac{3}{4}$  LONG FOR DRIVING UP & STAY TUBES TO BE  
CAREFULLY SCREWED THRO' BOTH TUBE PLATES  
EXPANDED & BEADED OVER AT BACK ENDS IN COM. CHAM.

### FURNACE OF DEIGHTON SECTION

FIRE-BARS.  
GRATE AREA.  
SAFETY VALVES.

11'-6'

TOP MANHOLE IN SHELL 16" x 12".  
MANHOLE COMPENSATION. 2'-11 1/2" x 2'-7 1/2" x 14"  
FOR POSITION SEE SMALL SKETCH.

Screwed Stays  
OF TESTED WROUGHT IRON.

Screwed Stays MARKED "Ø . 2½" DIAM:  
" " " " Ø . 2½" " "  
" " " " Ø . 2" " "

WITH NUTS ON BOTH ENDS.

TO PASS LLOYD'S SURVEY.		
SHELL.	$29 \frac{3}{4} \times 2 \frac{1}{2} \times 16$ $275 \times 151.55125$	= 220.9 LBS PER SQ.
WORKING PRESSURE		= 220. " " "
TEST		= 380. " " "
HEATING SURFACE ON TUBES.		1340 SQ FEET
" " OTHER PARTS.		370 " " "
" " TOTAL.		1710 " " "
EX: FRONT TUBE PLATE.		1682 " " "
EFFECTIVE AREA OF STAYS.		
3" STAY TUBES $\frac{7}{8}$ " T. THREADS PER INCH		286.561 INCHES.
3" " $\frac{3}{4}$ " "		243. " " "
3" " $\frac{5}{8}$ " "		198. " " "
2 $\frac{3}{4}$ " MAIN STAYS. .6.		541 " " "
2 $\frac{1}{2}$ " " .6.		411 " " "
2 $\frac{1}{2}$ " " .6.		326 " " "
3 $\frac{3}{4}$ " S.D. BLOWER TUBE $\frac{3}{8}$ " T.		314 " " "
2 $\frac{3}{4}$ " SCREWED STAYS .9.		349 " " "
2 $\frac{1}{2}$ " " .9.		309 " " "
2" " .9.		271 " " "
ALL PLATES, RIVETS & MAIN STAYS. STEEL		
SCREENED STAYS OF TESTED WROTH IRON.		
TUBES. OF LAP WELDED WROUGHT IRON.		
HOLES TO BE DRILLED IN PLACE AFTER BENDING		
TENSILE STRENGTH OF SHELL PLATES. 29 TO 33 TONS		
" " " BUTT STRAP "		29 TO 33 " " "
" " " GIRDER "		29 TO 33 " " "
" " " OTHER "		26 TO 30 " " "
" " " MAIN STAYS. 28 TO 32 "		28 TO 32 " " "
" " " SCREENED "		21 $\frac{1}{2}$ TONS (MINIMUM)

NOTES FROM SPECIFICATION:

FURNACES TO BE  $\frac{1}{16}$ " THICKER THAN REQUIRED BY LLOYD'S RULES.

ALL SCREWED STAYS TO BE OF WROUGHT IRON, & TO BE  $\frac{1}{8}$ " LARGER IN DIA. THAN REQUIRED BY LLOYD'S RULES.

**DRAWING N° 10641.**

**CONTRACT 2952. LOFE(AUXILIARY).**  
**CONTRACT 2953. LOFE(AUXILIARY).**

Lloyd's Register  
Foundation  
W43-0019



"Harpagus"



Sld 32855

The R. C. Dandridge Co.

Cor. 2953

Auxiliary Boiler

Bartram 282/3

25

GEN. BOX NO 125

"Harpagus"

SUNDERLAND RPT. NO. 32905

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