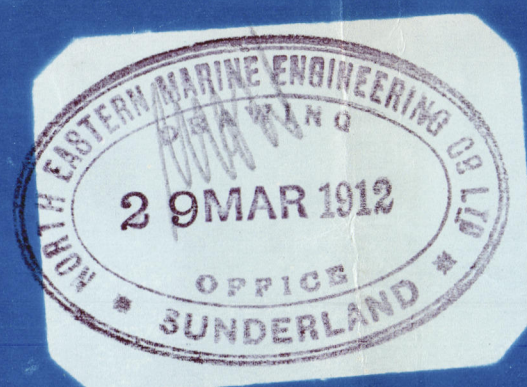


SUNDERLAND ENGINE WORKS

BOILER

TRACING 3204 SCALE. INCH TO A FOOT SCHEDULE

WRITTEN DIMENSIONS ONLY TO BE TAKEN



RIVET HOLES $1\frac{3}{32}$ DIA

PLATE $1\frac{1}{16}$ THICK
RIVET HOLES $1\frac{3}{32}$ DIA
PITCH = $9\frac{5}{16}$

PLATE SECTION = $86\frac{2}{3}$
RIVET " = $86\frac{7}{8}$

RIVET HOLES $1\frac{3}{32}$ DIA

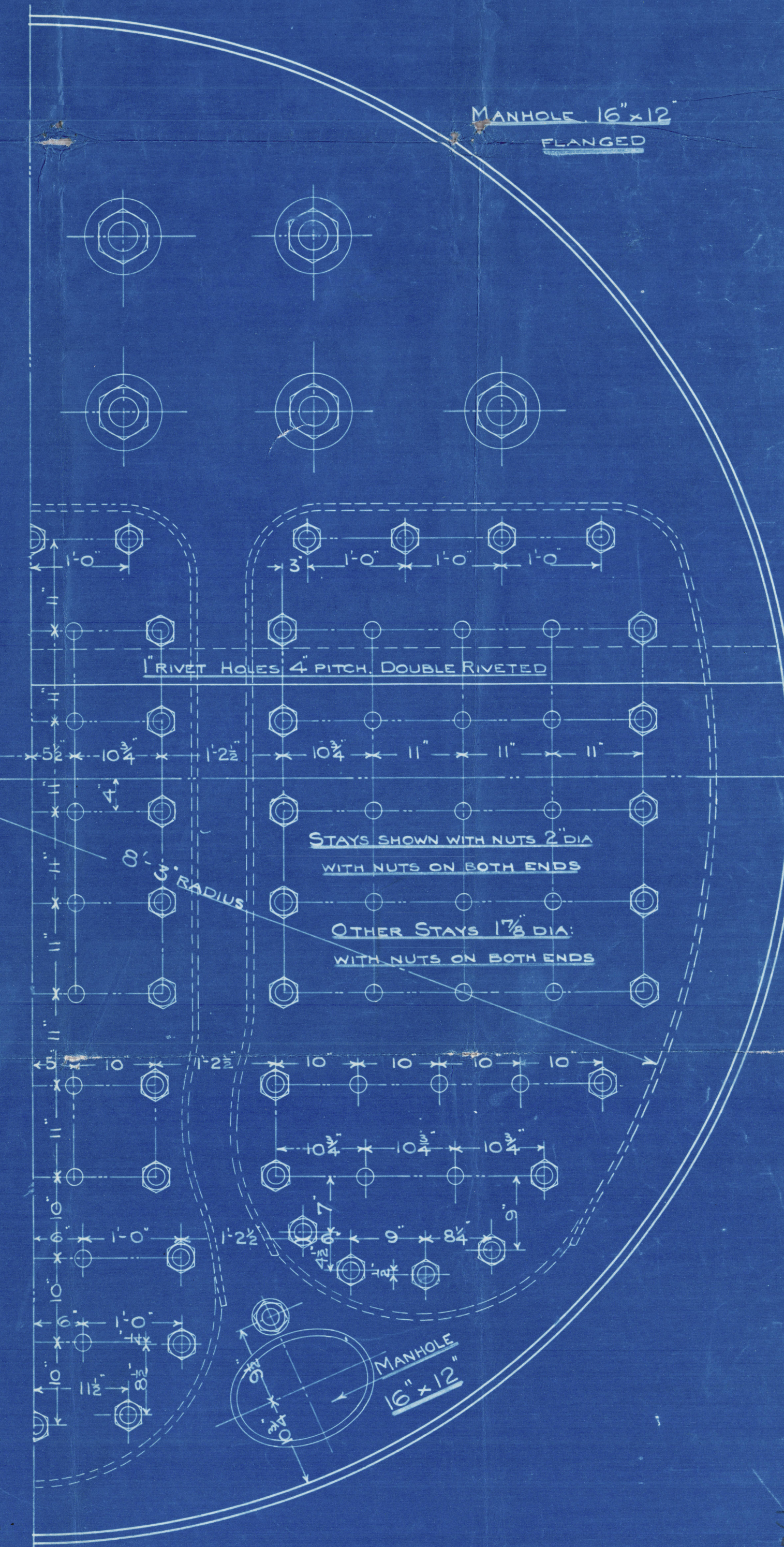
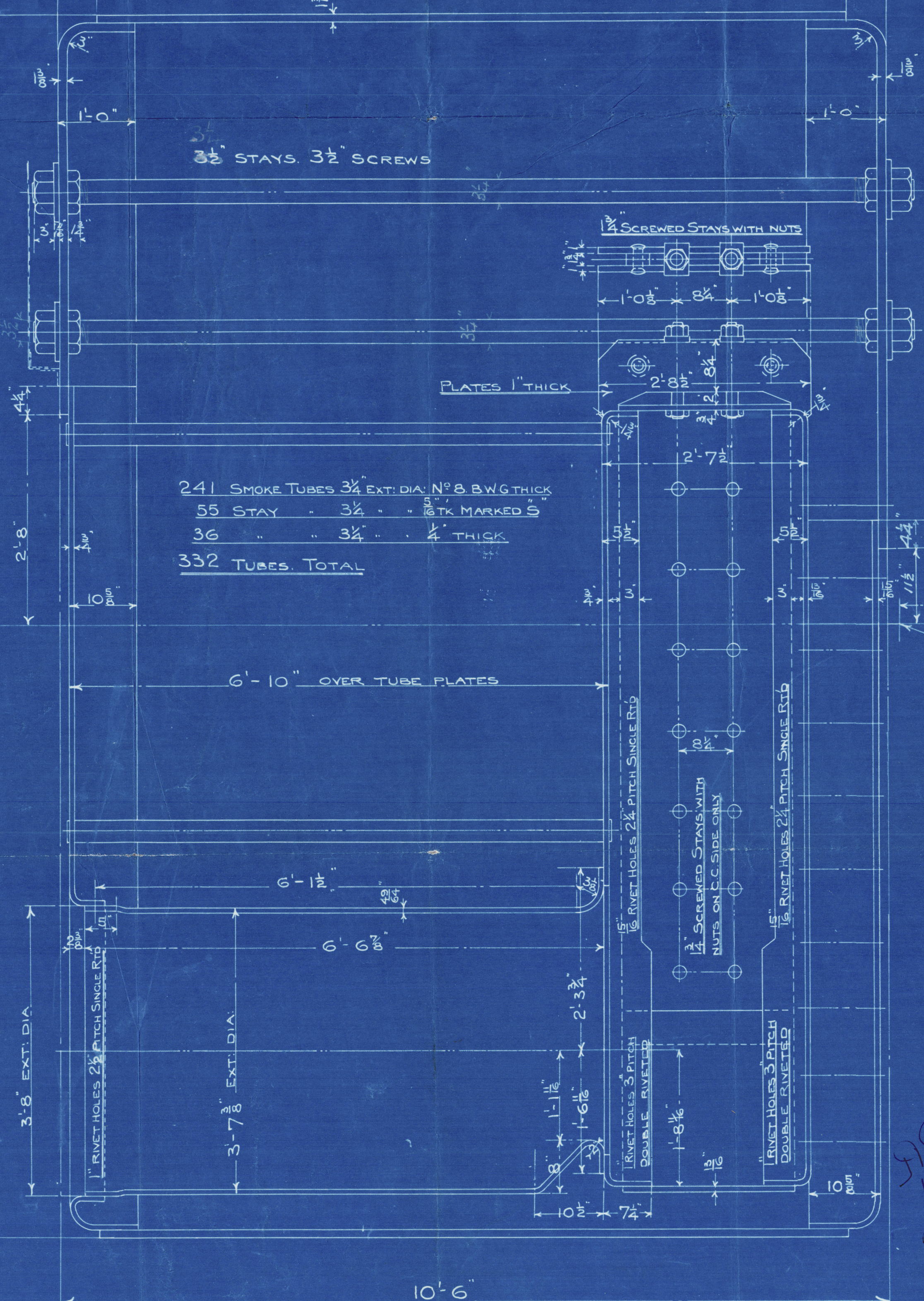
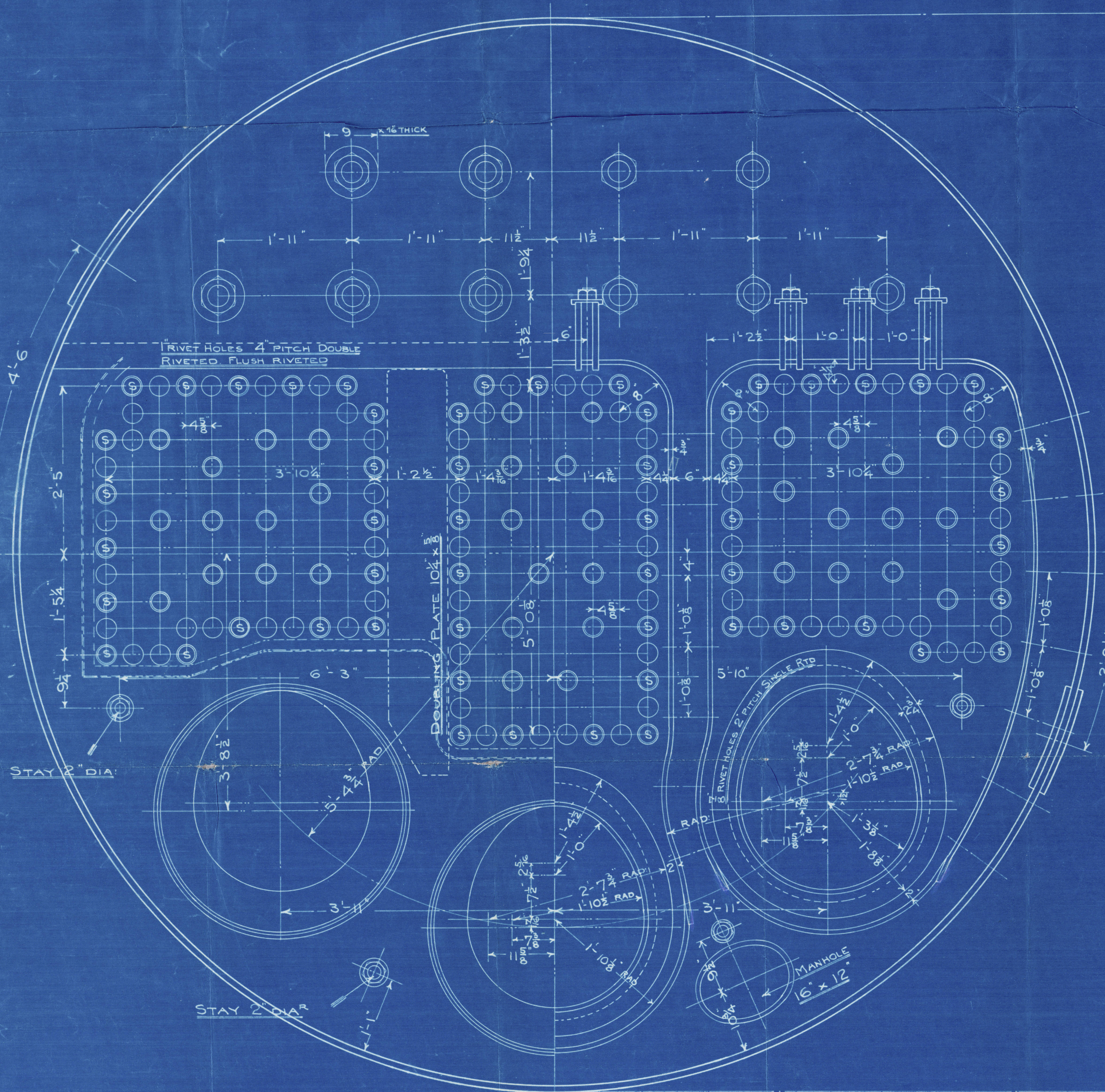
BUTT STRAPS
INSIDE $1\frac{1}{16}$ TK
OUTSIDE $1\frac{1}{16}$ TK

ALL RIVETS TO BE PUT
IN FRONT END OF BOILER

EVERY ALTERNATE RIVET TO BE LEFT OUT OF
INSIDE ROW FOR $\frac{2}{3}$ CIRCUM. - TOP OF BOILER -
& ALL RIVETS TO BE PUT IN FOR $\frac{2}{3}$ CIRCUM. AT
BOTTOM - AT BACK END OF BOILER -

TO PASS LLOYDS SURVEY		
SHELL =	22.58 (15-2) 86.2	180.1 LBS PER SQ IN
WORKING PRESSURE	180	
TEST	360	
HEATING SURFACE ON TUBES	1930 SQ FT	
" " OTHER PARTS	470 "	
" " TOTAL	2400 "	
EX: FRONT TUBE PLATE	2346 "	
EFFECTIVE AREA OF STAYS		
$3\frac{1}{4}$ STAY TUBES $\frac{1}{16}$ TK 9 THREADS PER IN	1.64 SQ IN	
" " " " " " " "	2.17 "	
$3\frac{1}{2}$ MAIN STAYS 6 " " " "	8.48 "	
2 " SCREWED " " " "	2.51 "	
$1\frac{1}{8}$ " " " " " "	2.79 "	
$1\frac{1}{2}$ " " " " " "	2.43 "	
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 "	

1/4/12



DRAWN BY J.A.S 1-10-09
CHECKED BY E.G
TRACING No. 3204

CONTRACT 1917. 1 OFF
CONTRACT 2083. 1 OFF
CONTRACT 2083. 1 OFF

WES-0061

N.E.M.E.C^o

C. No 2083.

M. B₂R 1 OFF.

No 3050
LLOYD'S TEST.
360 LBS.
2-10-1912 L.C.D.



J. CROWN & Sons. LD
148 $\frac{3}{4}$.

(DUPLICATE S.S. SKIPJACK.)

$\frac{1}{2}$ Wear

Sld. Rpt. No 25479



Lloyd's Register
Foundation
W658-0061