

MANHOLE COMP. PLATE 5/8" THICK.  
M. MEIL'S DOOR  
RIVET HOLES 1 3/16"  
SCALE 1 1/2" = 1 FOOT.

19/9/08  
LONDON

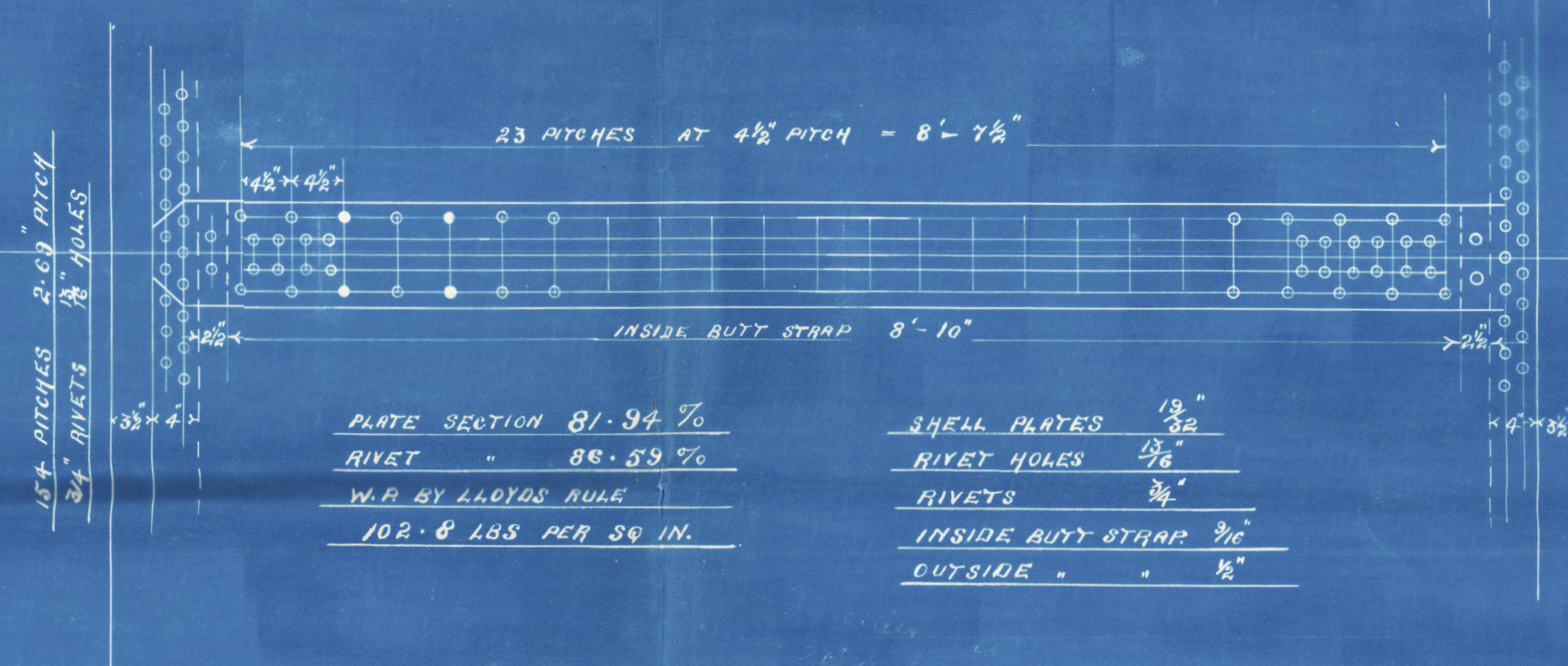
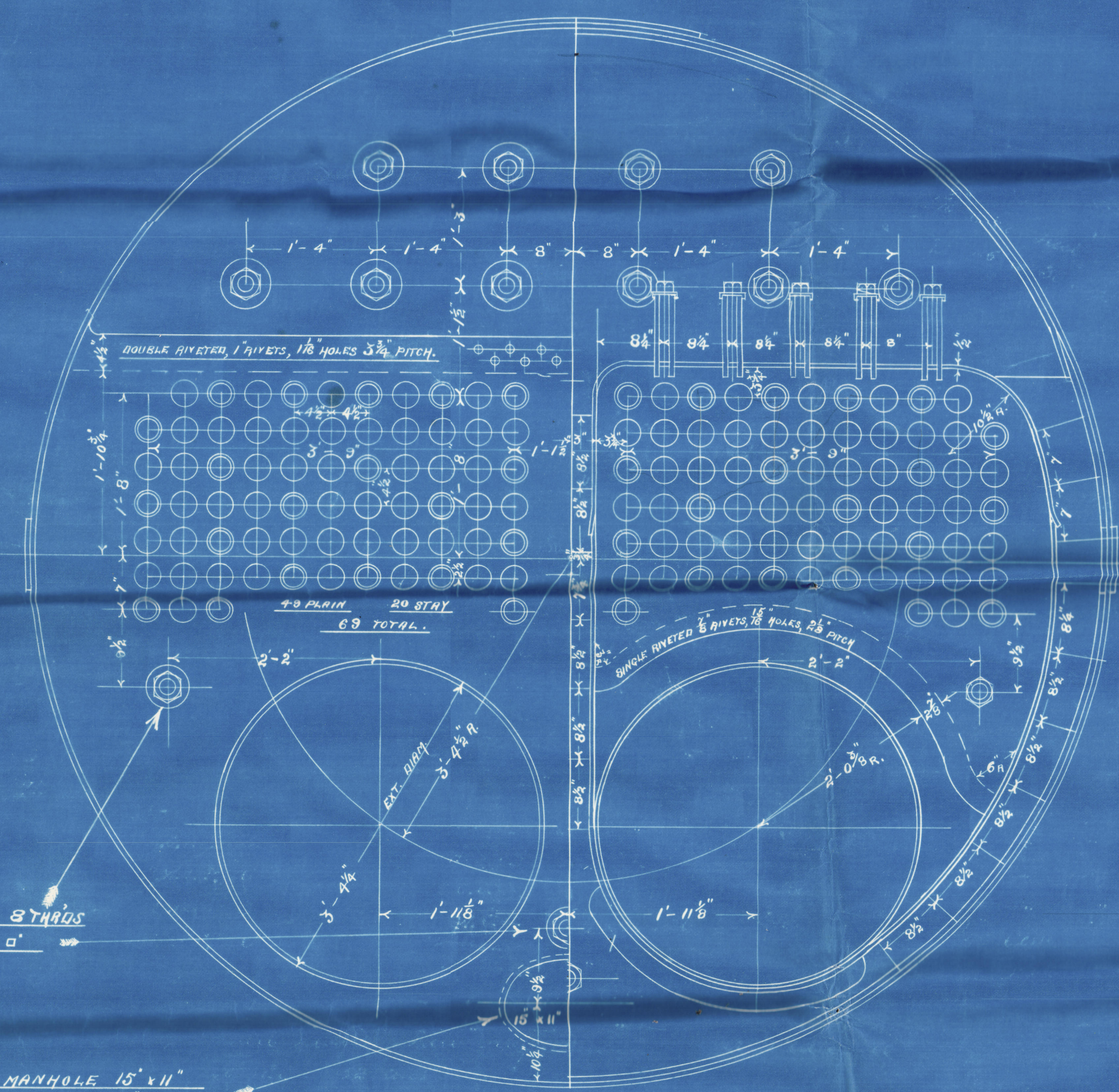
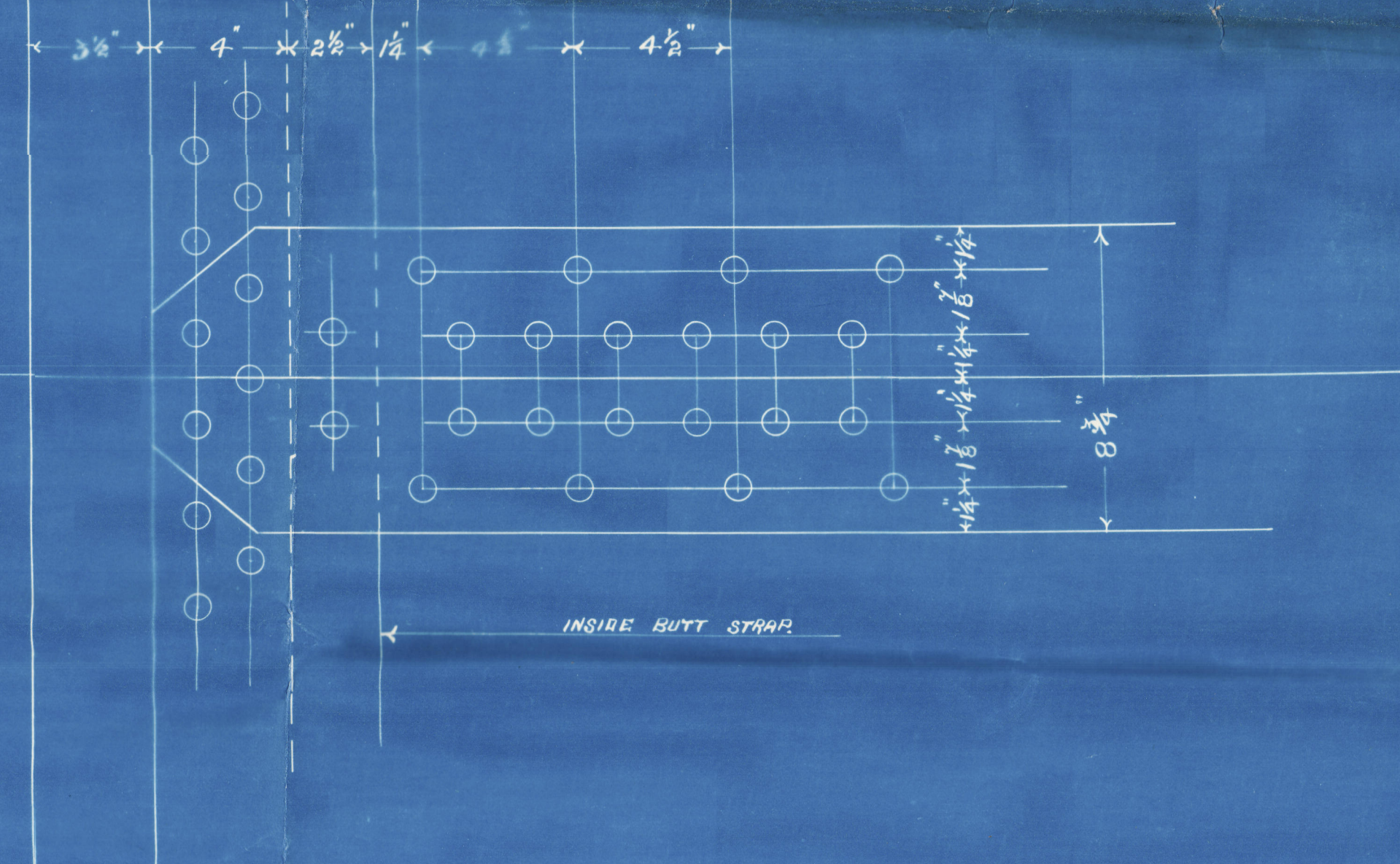
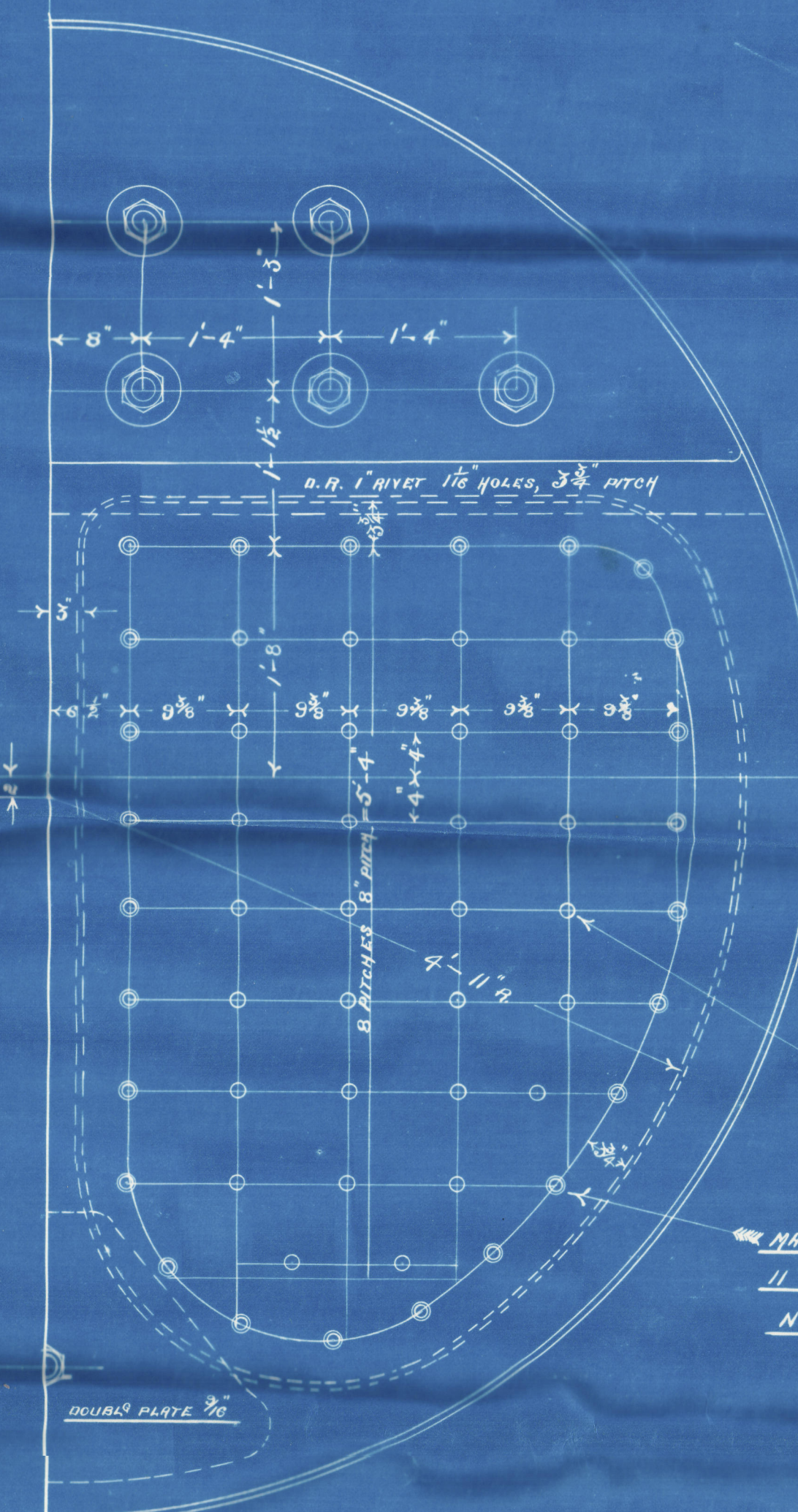
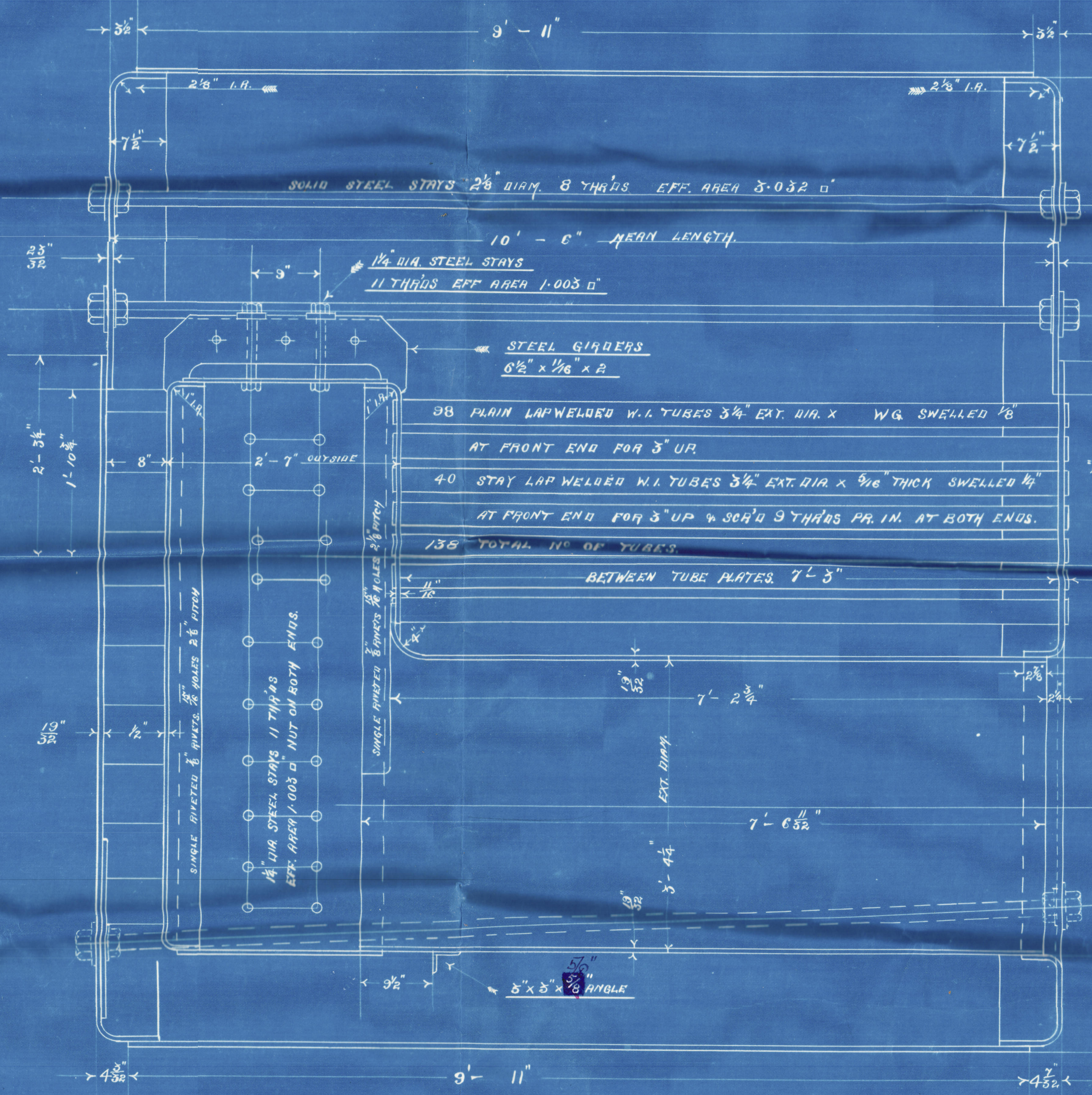


PLATE SECTION 81.94 %  
RIVET " 86.59 %  
W.R. BY LLOYD'S RULE  
102.6 LBS PER SQ IN.  
SHELL PLATES 13/32"  
RIVET HOLES 5/16"  
RIVETS 3/4"  
INSIDE BUTT STRAP 3/16"  
OUTSIDE " 1/2"



MANHOLE 15" x 11"  
FLANGE 2 1/4" DEEP



1 1/2" DIA STEEL STAYS THUS  
11 THOUS EFF AREA 1.003 D  
NUT ON BOTH ENDS.  
MARGINAL STEEL STAYS 1 1/2" DIA. THUS  
11 THOUS EFF AREA 1.504 D  
NUT ON BOTH ENDS.

LONGT. SEAM DOUBLE RIVETED DOUBLE BUTT STRAP	
CIN " " " LAP	
PLATE SECTION 81.94 %	
RIVET " 86.59 %	
WORKING PRESSURE 100 LBS D	
TEST " 200 " "	
ALL HOLES DRILLED IN PLACE PLATES THEN TAKEN APART AND BURRS REMOVED.	

HEATING & GRATE SURFACE	
HEATING SURFACE OF TUBES	852.4
" " " C. CHAMBERS	207
" " " FURNACES	74
" " " ONE BOILER	1133
GRATE " " " "	35.75
RATIO GRATE TO HEATING.	1:31.7
FIRE BRICKS 5'-6" IN 2 LENGTHS	

THICKNESSES	
SHELL	13/32"
INSIDE BUTT STRAP	3/8"
OUTSIDE " "	1/2"
TOP ENDS	3/8"
BACK BOTTOM	13/32"
FRONT TUBE PLATE	3/8"
BACK " "	11/16"
O.C. BACK	1/2"
" TOP & SIDES	1/2"
" GUARDERS	6 1/2" x 16" x 2
FURNACE	13/32"
MANHOLE COMP. PLATE	13/32"

TENSILE STRENGTH.	
SHELL PLATES	28 TO 32 TONS
BUTT STRAPS	" " " "
GUARDER PLATES	" " " "
MANHOLE COMP. PLATE	" " " "
OTHER PLATES	26 " 30 "
SOLID STAYS	28 " 32 "
SCREW " "	26 " 30 "
FURNACE	" " " "
RIVET BAGS	" " " "

JOHN, G. KINCAID & CO. LTD.  
ENGINEERS & SHIPBUILDERS  
GREENOCK.  
\* 16: SEPT. 1908. \*

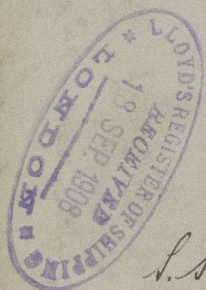
18. 17/11/08  
19/9/08

**MARINE BOILER N° 363 (DONKEY)**  
1 OFF  
TO LLOYD'S SURVEY FOR A WORKING PRESSURE OF 100 LBS PER SQ INCH.  
11'-0" MEAN DIAM. x 10'-0" MEAN LENGTH.  
SCALE 1" = 1 FOOT. 15th SEPT. 1908.



Plan of Donkey boiler  
by J. G. Kincaid & Co  
for Russell No. 594

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S.S. 'Bright Wings'

Greenock Report No. 15578

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W702 - 0011  
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