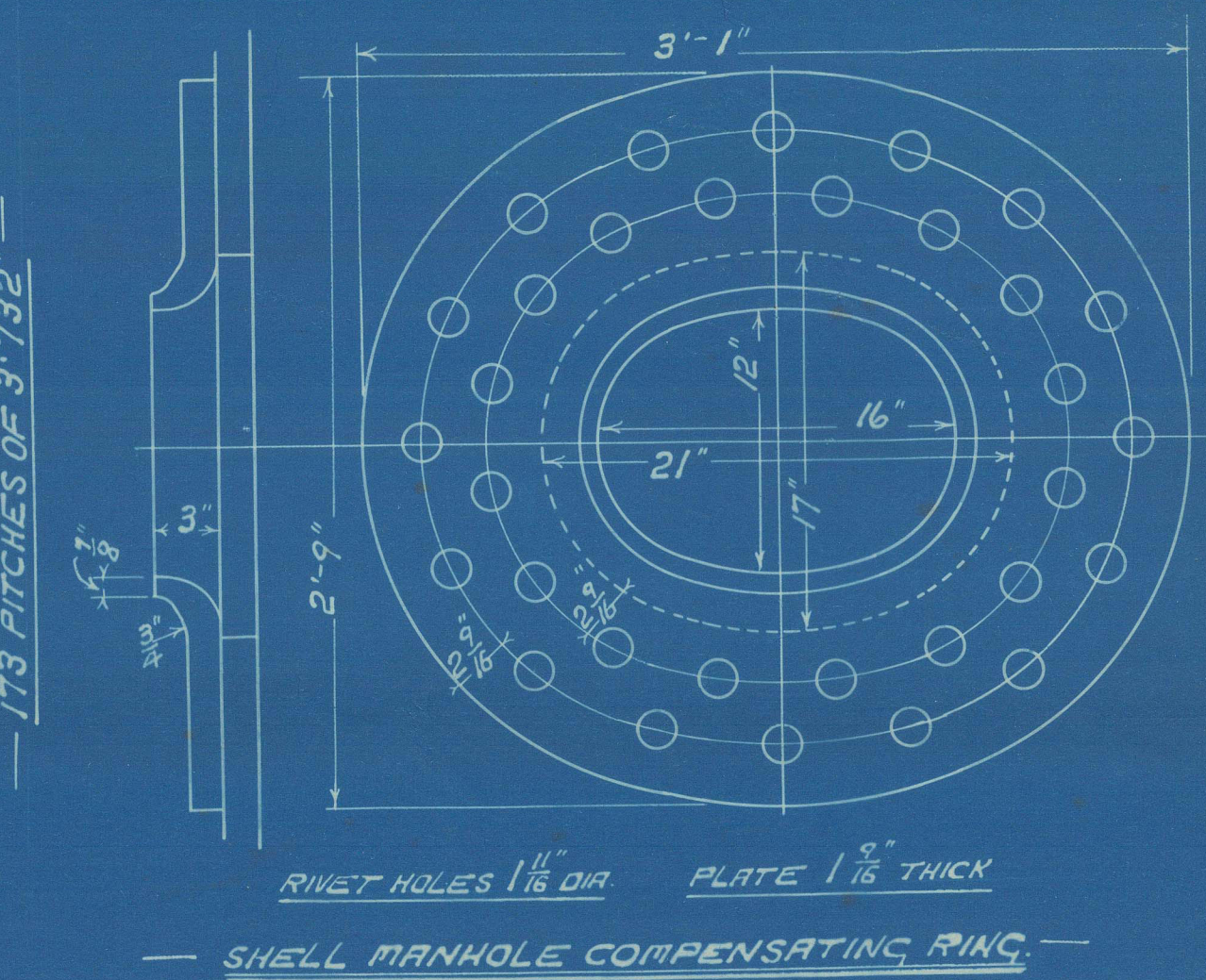
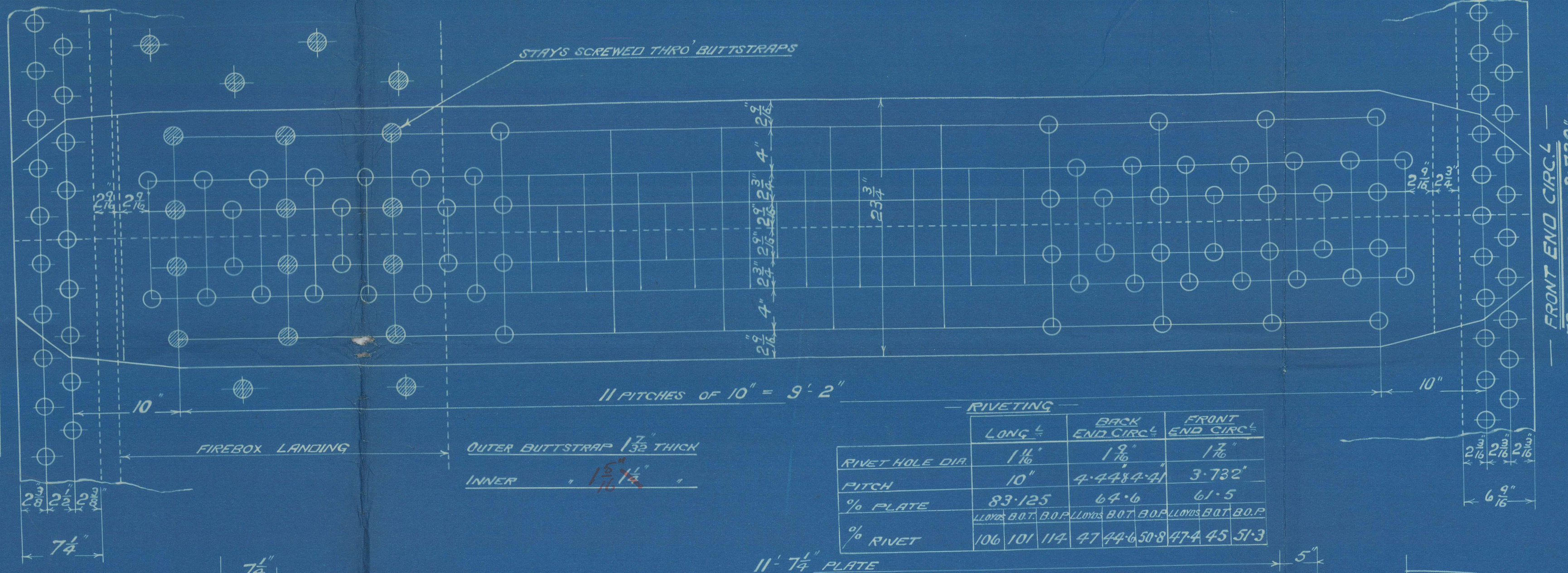


SURFACES	ONE BOILER	2 BOILERS
TUBES	2890 #	5780 #
FIREBOX TOP & SIDES	246 "	492 "
" BACK	101 "	202 "
" TUBE PLATE	70 "	140 "
FURNACES	203 "	406 "
TOTAL HEATING SURFACE	3510 #	7020 #
GRATE AREA (BARS)		
TUBE AREA	12.17 "	
WATER AREA	187 "	
STEAM SPACE	621 #	
GRATE AREA: HEATING SURFACE		
" TUBE		
" WATER		
" STEAM SPACE		
% BOILER ABOVE FIREBOX	32.4	
WEIGHT OF WATER	37 TONS	

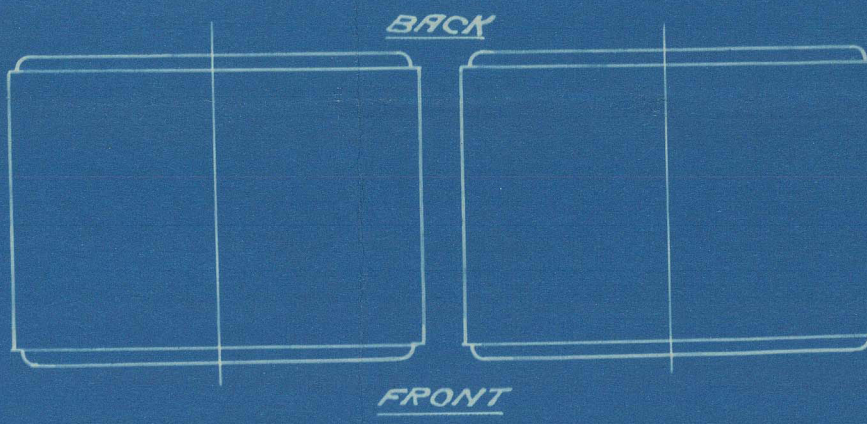
15/12/19

BACK END CIRC.

88 PITCHES OF 4.41" & 58 PITCHES OF 4.44"

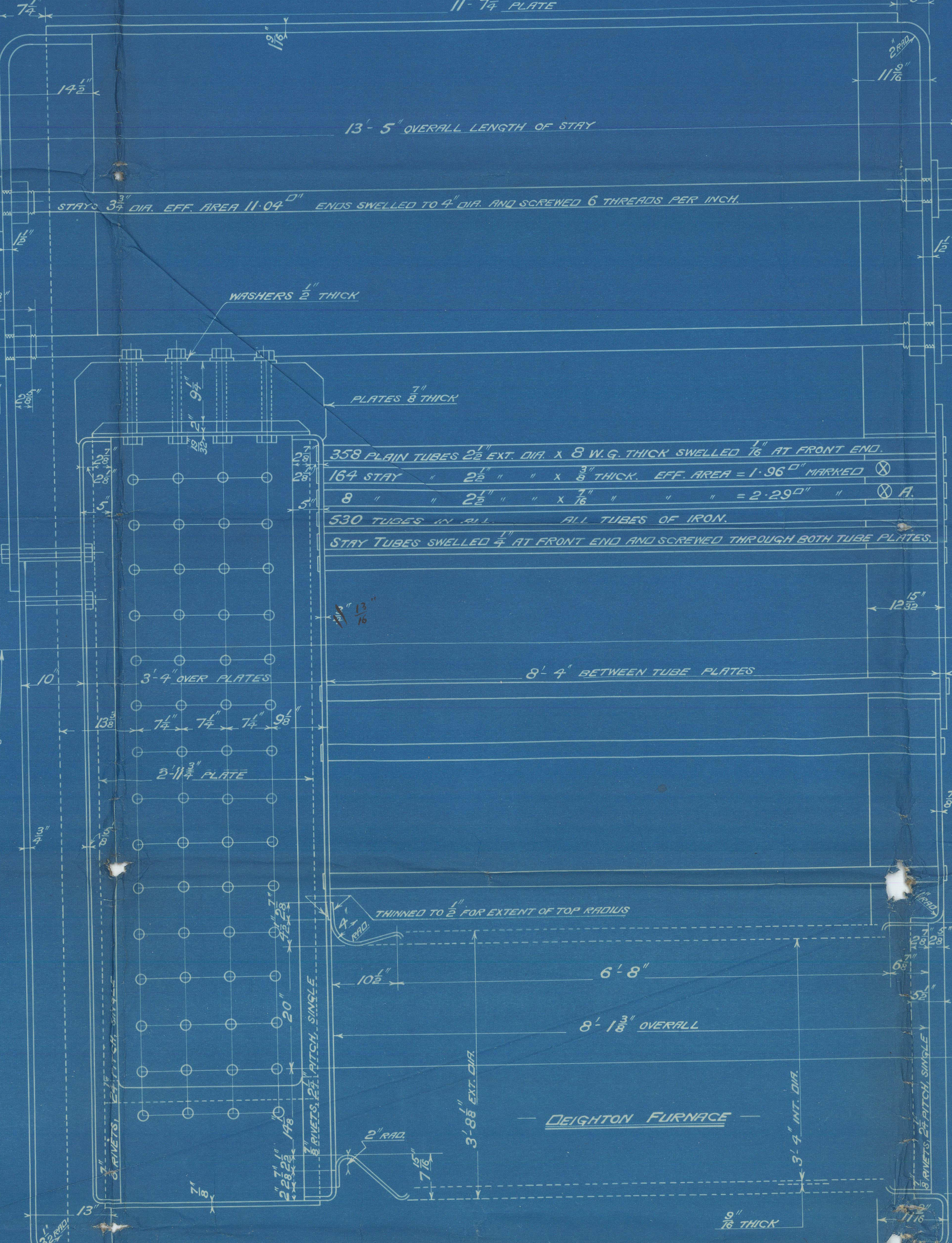


LIMITS OF TENSILE STRENGTH	
SHELL BUTTSTAYS & CIRCLES	28.45 TO 31.7 TONS
OTHER PLATES	25.5 " 29 "
FURNACES	26 " 29 "
MAIN STAYS	25.5 " 29 "
SCREWED STAYS	25.5 " 29 "
RIVET BARS	25.5 " 29 "



POSITION OF MANHOLES

ALL PLATES & RIVETS OF SIEMENS-MARTIN STEEL  
ALL RIVET HOLES DRILLED IN PLACE  
MAIN STAYS SWELED AT ENDS BY HYDRAULIC PRESSURE  
AND ANNEALED.



STAY 2 1/2" DIA.  
EFF. AREA = 3.570"  
RIVETS SWELED TO 2 1/2"  
A SCREWED 6 THRS. PER INCH  
OUTSIDE NUT 2 1/2" DEEP  
INSIDE " 1 1/2"

STAY 2 1/2" DIA.  
EFF. AREA = 4.50"  
RIVETS SWELED TO 2 1/2"  
A SCREWED 6 THRS. PER INCH  
OUTSIDE NUT 2 1/2" DEEP  
INSIDE " 1 1/2"

3 1/2" x 12" MANHOLES AT BACK  
- ITS NEIL DOORS -

17'-0" INT. DIA.

12'-10 1/2" OVERALL LENGTH OF MANHOLE STAY

8'-8 3/4"

12'-11" OVERALL LENGTH OF STAY

8'-8 3/4"

12'-10 1/2" OVERALL LENGTH OF MANHOLE STAY

8'-8 3/4"

12'-11" OVERALL LENGTH OF STAY

8'-8 3/4"

12'-10 1/2" OVERALL LENGTH OF MANHOLE STAY

8'-8 3/4"

12' 6" MEAN LENGTH

MAIN BOILER

2 OFF

CON<sup>T</sup> N<sup>O</sup> 523

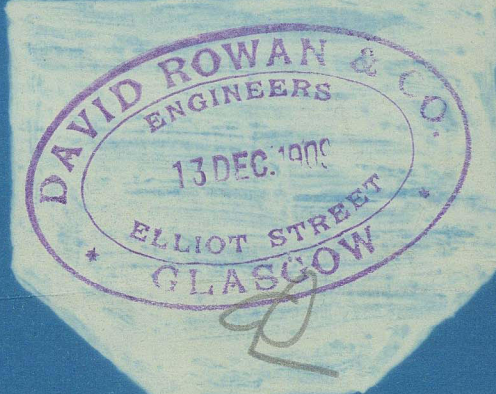
WORKING PRESSURE = 150 LBS PER SQ. INCH.

TO PASS LLOYD'S, BOARD OF TRADE & HAMBURG BOARD OF POLICE UP TO TEST POINT.

SCALES, 1" & 1/2" = ONE FOOT.

ALL STAYS SCREWED THRO' BOTH PLATES AND NUT FITTED AT EACH END  
EXCEPT WHERE OTHERWISE STATED ON DRAWING.  
ALL 1 1/2" & 1 3/4" NUTS 1" DEEP EXCEPT ON CIRCLES WHERE THE OUTSIDE NUTS ARE 1 1/2" DEEP  
ALL 2" NUTS 1 1/2" DEEP

O.T. 12479



MAIN BOILER

11 DEC 1909

ELIOT STEVEN

GLASGOW

11 DEC 1909

11 DEC 1909

11 DEC 1909

11 DEC 1909

11 DEC 1909

11 DEC 1909

11 DEC 1909

11 DEC 1909

11 DEC 1909

11 DEC 1909

11 DEC 1909

11 DEC 1909

11 DEC 1909



INSIDE " 1  $\frac{3}{4}$  "

FROM DAVID ROWAN & CO., GLASGOW.  
ENCLOSURE

FOR

Lloyds Survey

W1339-0194  $\frac{3}{2}$

END PLATE

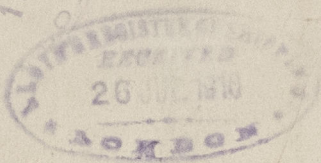
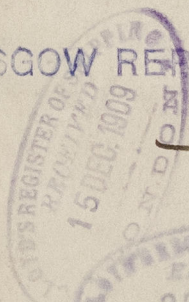
David Rowan & Co.

Main Boilers No 523.

$\frac{1}{2}$  Den of Glamis

GLASGOW REPORT No.

29131



RETAIN



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Foundation

W1339-0194