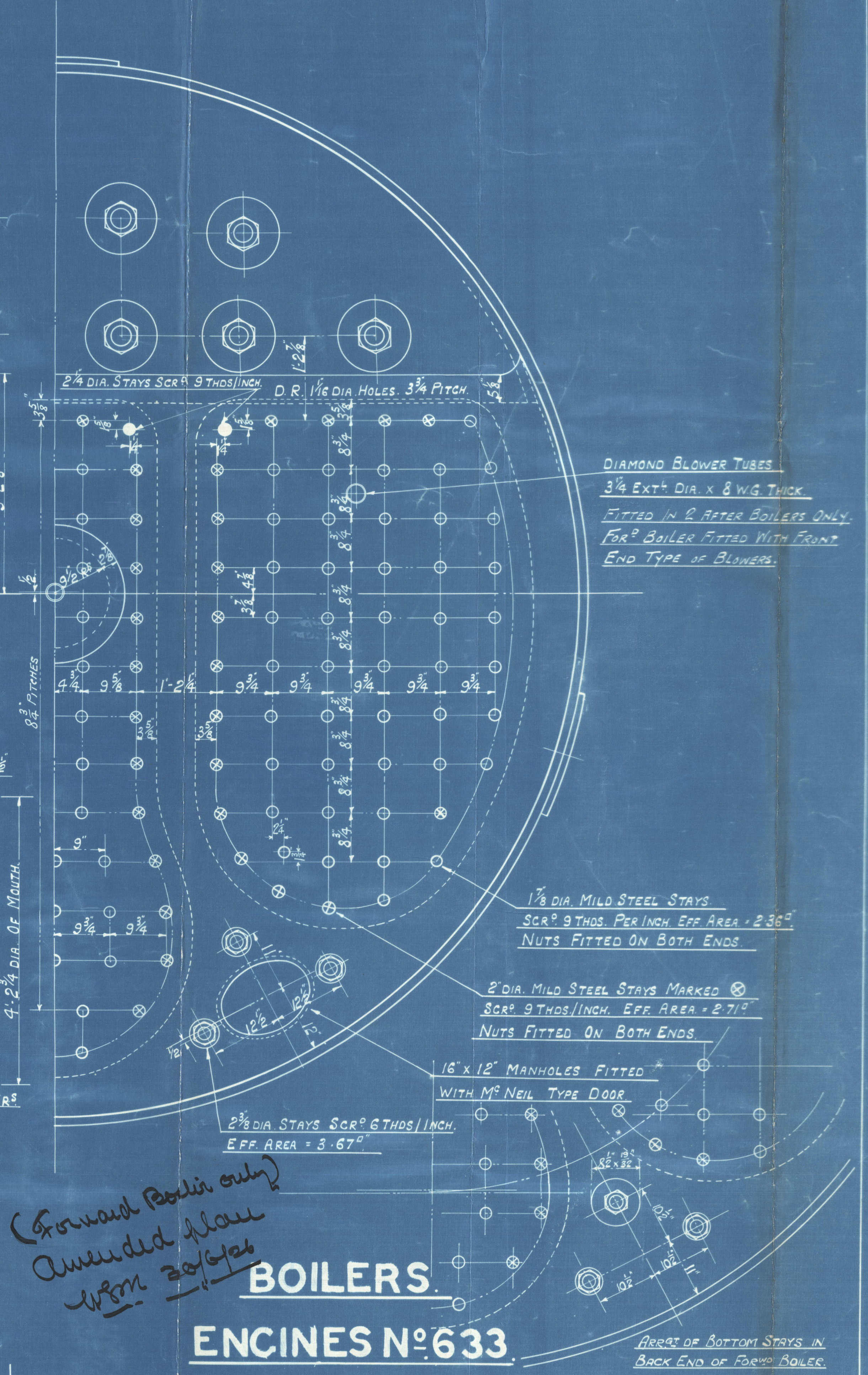
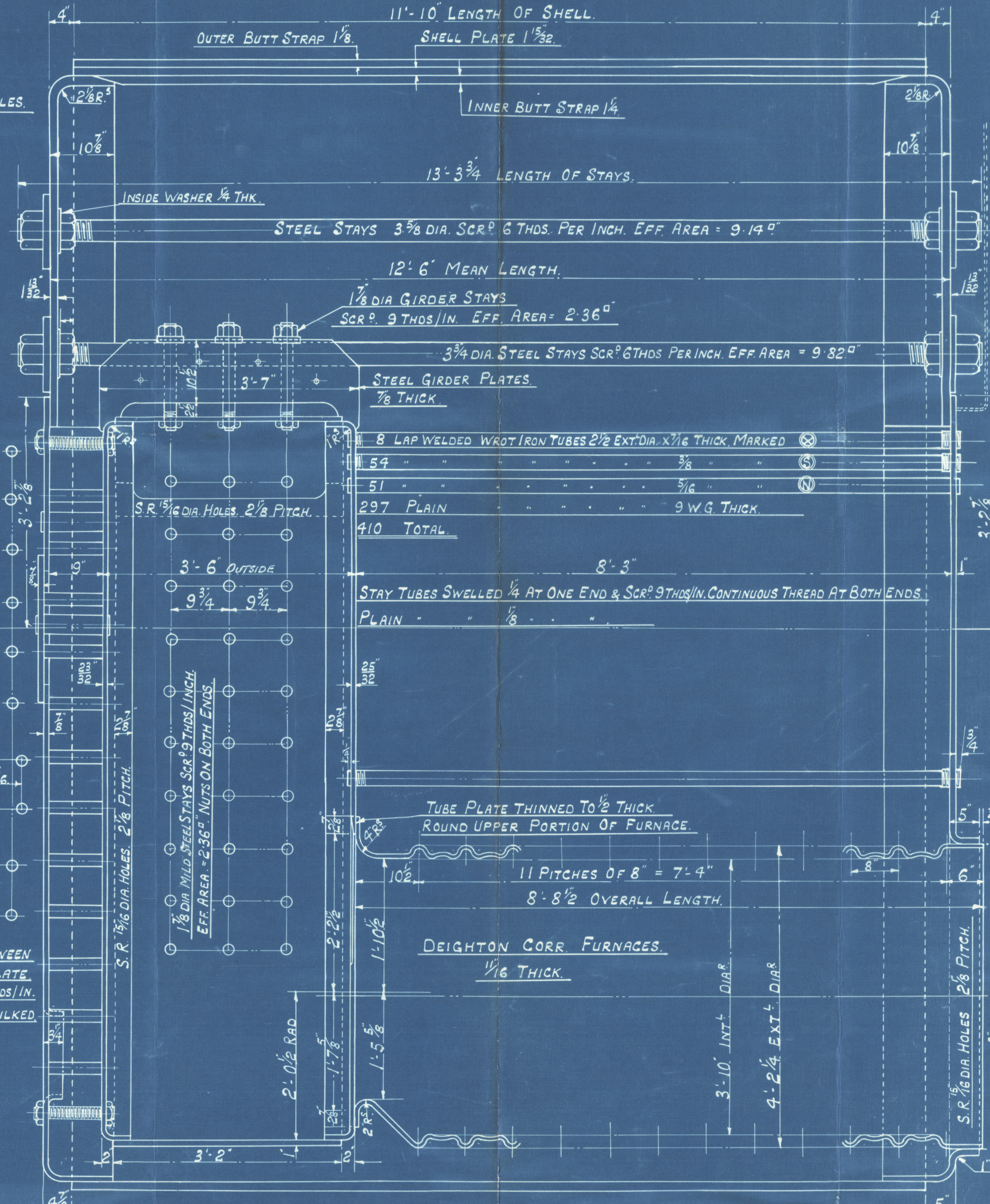
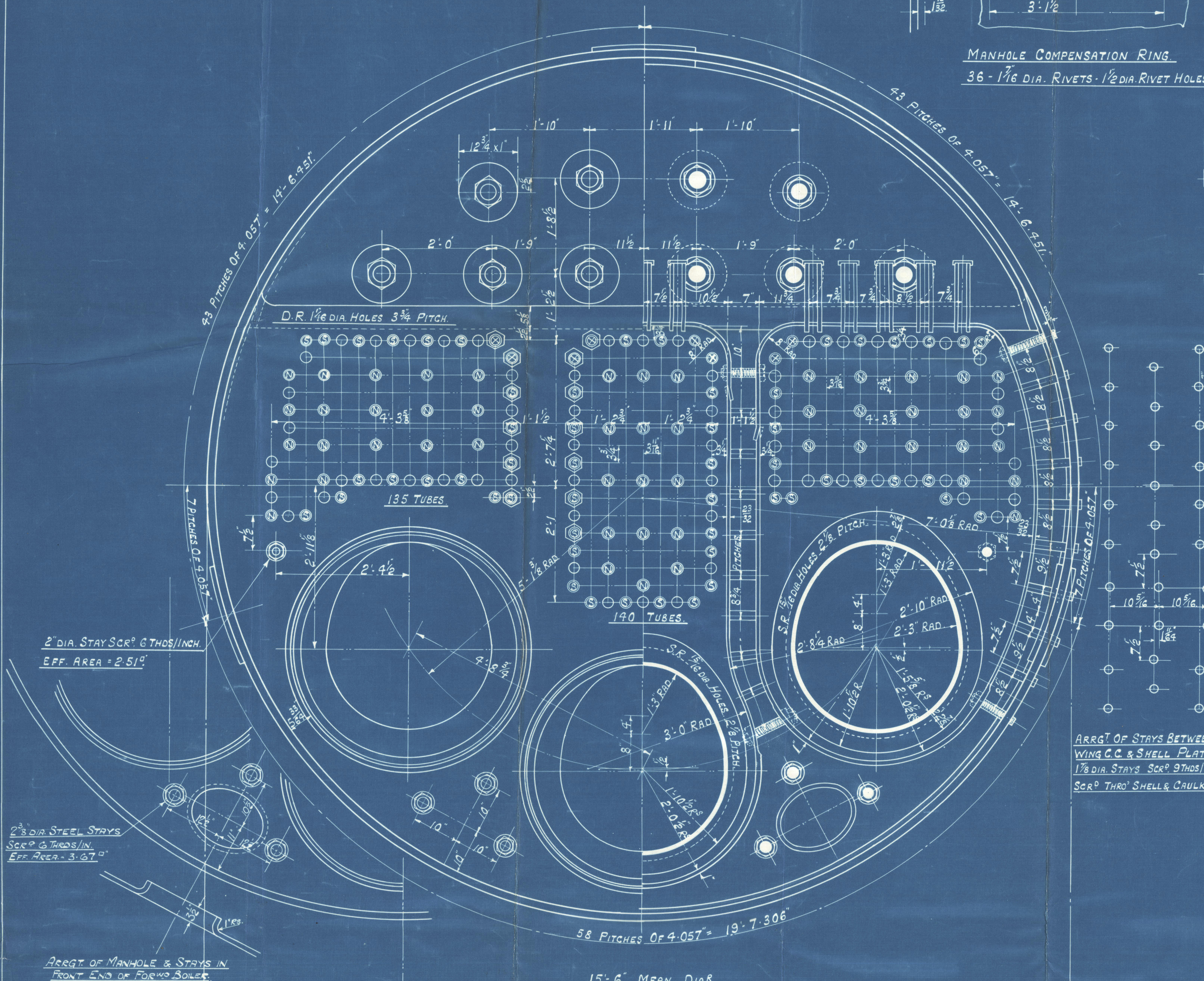


MANHOLE COMPENSATION RING.  
36 - 1 1/8 DIA. RIVETS - 1/2 DIA RIVET HOLES.



ALL PLATES, STAYS & RIVETS OF SIEMENS-MARTIN MILD STEEL.  
TUBES - LAPWELDED WROG IRON.  
LONG<sup>t</sup> JOINTS: DOUBLE BUTT STRAPS TREBLE RIVETED.  
CIRC<sup>t</sup> " " DOUBLE RIVETED LAP.  
WORKING PRESSURE = 210 LBS PER SQ. INCH.  
TEST " " = 365 LBS " " " "

ALL HOLES TO BE DRILLED AFTER PLATES ARE BENT & FITTED  
TOGETHER, THEN PLATES TAKEN APART & BURRS REMOVED.  
RIVETING TO BE DONE BY HYDRAULIC PRESSURE WHERE PRACTICABLE.  
ALL SEAMS TO BE CAREFULLY CAULKED BOTH INSIDE & OUTSIDE.  
NOTE: COMB<sup>d</sup> CHB<sup>d</sup> STAYS ARE 1/8 LARGER IN DIA<sup>r</sup> THAN SURVEY SOCIETIES REQUIREMENTS.

BOTTOM ROW OF STEAM SPACE STAYS 3/8 " " " " " "

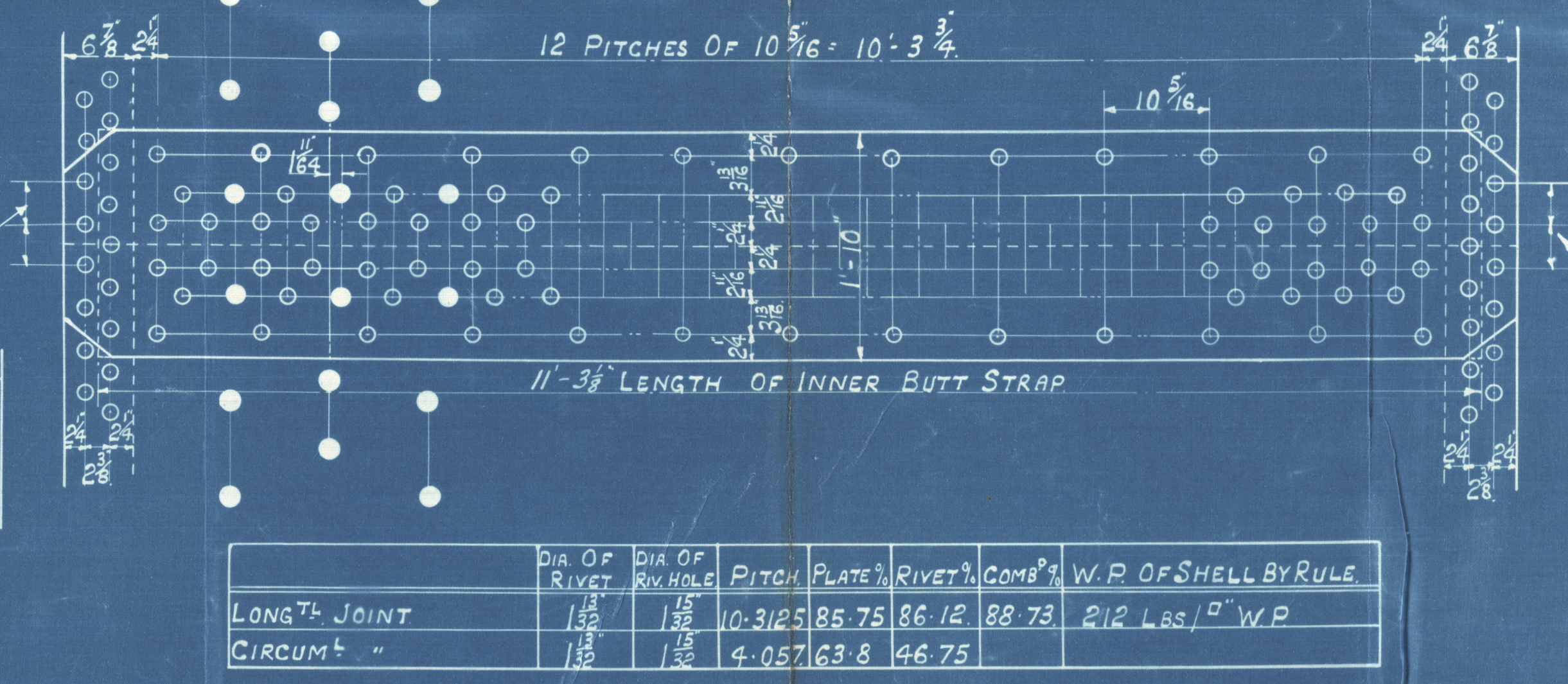
ALL MATERIAL OF BRITISH MANUFACTURE.

STRENGTH OF MATERIALS

	THICK <sup>ss</sup>	TENSILE STRENGTH
SHELL PLATES	1 1/2	28-32 TONS/IN <sup>2</sup>
INNER BUTT STRAPS	1 1/4	" "
OUTER " "	1 1/8	" "
GIRDER PLATES	3/8	" "
TOP END PLATES	1 3/4	26-30
FRONT BOTTOM END PLATE	1	" "
BACK " "	3/8	" "
" TUBE PLATE	25 3/4	" "
C.C. BACKS	1 1/2	" "
FURNACES	1 1/8	" "
MANHOLE COMPENSATION PLATE	1 1/2	" "
WRAPPER PLATES	5/8, 1, 1 1/2	" "
STEAM & WATER SPACE STAYS	STEEL	28-32 TONS/IN <sup>2</sup>
RIVETS		26-30 " "

HEATING SURFACE	SQ. FEET
410 TUBES 2 1/2 EXT <sup>d</sup> DIA. =	2214
FURNACES =	204
COMBUSTION CHAMBERS =	306
TOTAL FOR ONE BOILER =	2724
" " 3 BOILERS =	8172
LENGTH OF FIREGRATE =	5'-0"
GRATE AREA IN ONE BOILER =	57.5
" " 3 BOILERS =	172.5
RATIO H.S. : G.A. =	47.4 : 1
AREA THROUGH TUBES PER BOILER =	9.87
SIZE OF SAFETY VALVES 3 1/2 (DOUBLE SPRING)	

TO BURN COAL OR OIL IN CONJUNCTION WITH HOWDEN'S FORCED DRAUGHT.  
SPARE GEAR: 30 PLAIN & 6 STAY TUBES.



	DIA OF RIVET	DIA OF RIV HOLE	PITCH	PLATE 1/4 RIVET 1/4 COMP <sup>d</sup>	W.P. OF SHELL BY RULE
LONG <sup>t</sup> JOINT	1 1/2	1 3/8	10-3 1/2	85.75 86.12 88.73	212 LBS/IN <sup>2</sup> W.P.
CIRCUM <sup>t</sup> " "	1 1/2	1 3/8	4-057 63.8	46.75	

APPROVED BY BRITISH CORPORATION 15-5-26  
" " Lloyds 20-5-26

(Forward Boiler only)  
Amended plan  
WGM 20/6/26

BOILERS  
ENGINES NO. 633

15'-6" MEAN DIA. X 12'-6" MEAN LENGTH X 210 LBS/IN<sup>2</sup> W.P.

3-0FF AS DRAWN

TO PASS LLOYDS & BRITISH CORPORATION TESTS & REQUIREMENTS.

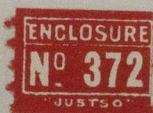
SCALE: 1" = 1 FOOT

13<sup>TH</sup> MAY, 1926

DRC. NO. 4452

JOHN G. KINCAID & CO. LTD.  
(DRAWING OFFICE)  
29 JUN 1926  
ENGINEERS & BOILERMAKERS,  
GREENOCK.





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