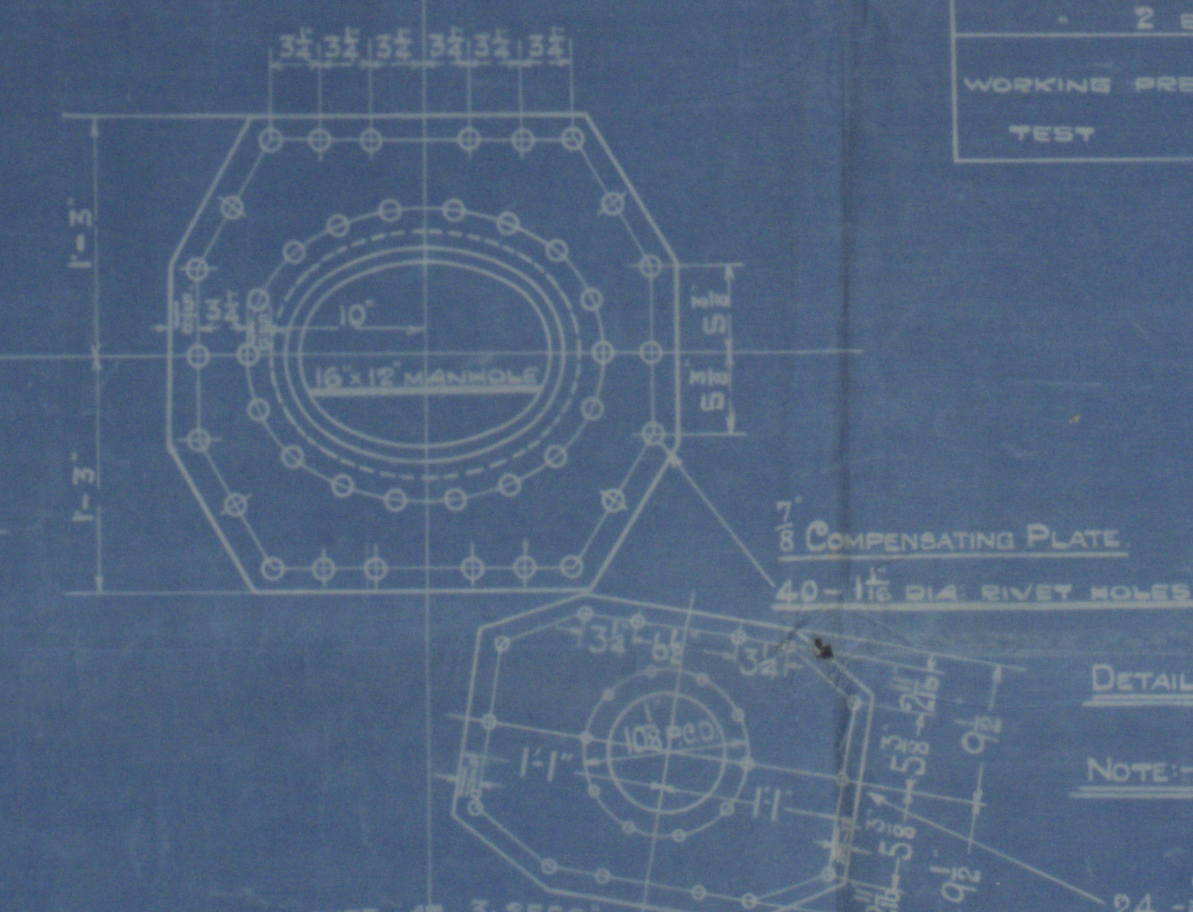


HEATING SURFACE		
174 TUBES 3" EXT. DIA. x 7'-10" S.T.P.	=	1070.6
FURNACES	=	110
SOON CHAMBERS	=	130
BACK TUBE PLATE	=	30
FRONT	=	18
TOTAL 1 BOILER	=	1358
2 BOILERS	=	2716

WORKING PRESSURE = 150 LBS/SQ. IN.
TEST = 275 LBS/SQ. IN. LLOYDS SURVEY

Key sketch showing position of manhole doors on boiler tops and compensating plates.

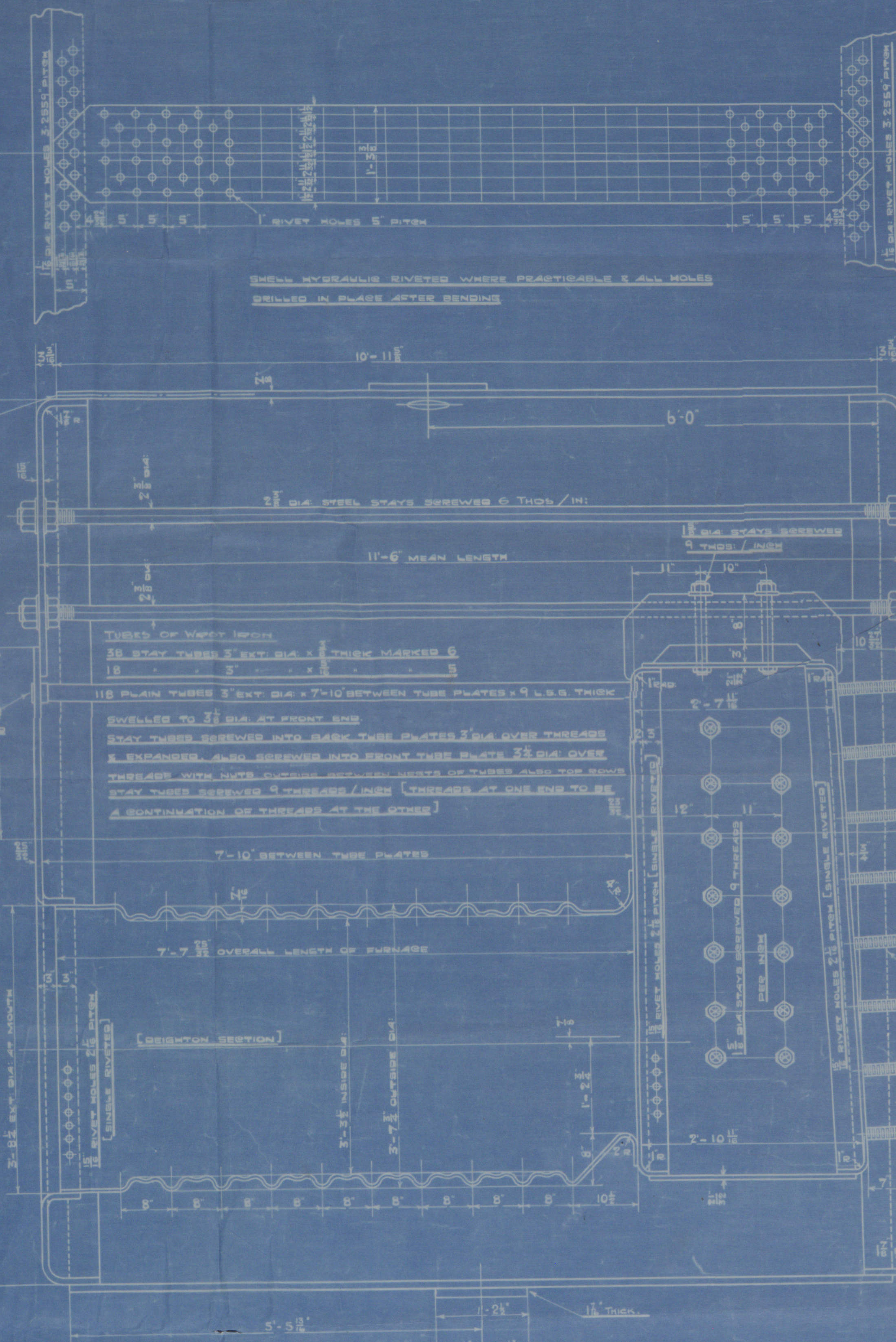


NOTE: STEEL PLATE CUT OUT OF FRONT TUBE PLATE IN WAY OF FURNACES TO BE USED.

24-3/8 DIA. RIVETS, FLUSH RIVETED ON OUTSIDE RIVET HOLES 3/8 DIA. COMPENSATING PLATE 3/8 TH.

MEAN CIRCUMFERENCE 436.289
124 PITCHES AT 3.5559

PLAIN TUBES BUTTERED
1/2 LARGER AT FRONT END



W.P. OF SHELL = $\frac{[28-2] \times 28 \times 80}{2.75 \times 128} = 153.5 \text{ LBS}$

OUTER BUTT STRAPS = 5/16 THICK
INNER = 1/2

SHELL RIVETING

DOUBLE BUTT STRAPS
SHELL PLATE 3/8 THICK, INNER BUTT STRAPS 1/2 THICK, OUTER BUTT STRAPS 5/16 THICK
RIVET HOLES 1/2 DIA. GREATEST PITCH = 5
PLATE SECTION = 31.47
RIVET SECTION = 31.47
TENSILE STRENGTH OF SHELL PLATE & BUTT STRAPS 26 TO 30 TONS/SQ. IN.
FURNACES 26 TO 30 TONS/SQ. IN.
SOON CHAMBERS 26 TO 30 TONS/SQ. IN.
OTHER PLATES 26 TO 30 TONS/SQ. IN.
STEAM SPACE & MANHOLE STAYS 26 TO 30 TONS/SQ. IN.

ALL SOON CHAMBER SKEWERED STAYS OF SPECIAL WOOD IRON SKEWERED 9 THREADS / IN. & NUTTED WHERE SHOWN WITH NUTS AT EACH END.

SOME CHAMBER STAYS MARKED THUS ARE 1/2 DIA. NUTS 1 DEEP
1/2 DIA. NUTS 1 DEEP
1/2 DIA. NUTS 1 DEEP
1/2 DIA. NUTS 1 DEEP

SOON CHAMBER SKEWERED STAYS TESTED IRON

NOTE: FITTER ON MANHOLE STAYS ONLY
STAYS IN MIDDLE OF BOILER TO BE RIVETED OVER INSIDE SOON CHAMBERS & TO PROJECT 1/2 IN. ON EACH OF SIDES & BE SAWED

STAYS SKEWERED AT RIGHT ANGLES TO SOON CHAMBER SIDES

AUXILIARY BOILERS. [2-OFF]

SCALE: 1" = 1 FOOT

TO LLOYDS REQUIREMENTS

ALL STEEL EXCEPT WHERE OTHERWISE STATED

CHARGED TO
A.B.
935

ENG. NO. 969-70.

NO. 28974

1/11/77 601

R

Lloyds Register Foundation

Palmer 969170

WS
399 (Chas. Borden)

S.S. BRITISH LOYALTY

NEWCASTLE ON TYNE ★

969-

Report No. 82273.

~~S.S. "British Freedom"~~

~~NEWCASTLE ON TYNE.~~

~~Report No. 82866.~~

S.S. "British Ardour"

NEWCASTLE ON TYNE.

Report No.

DETAILS



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