

# NORTHUMBERLAND ENGINE WORKS

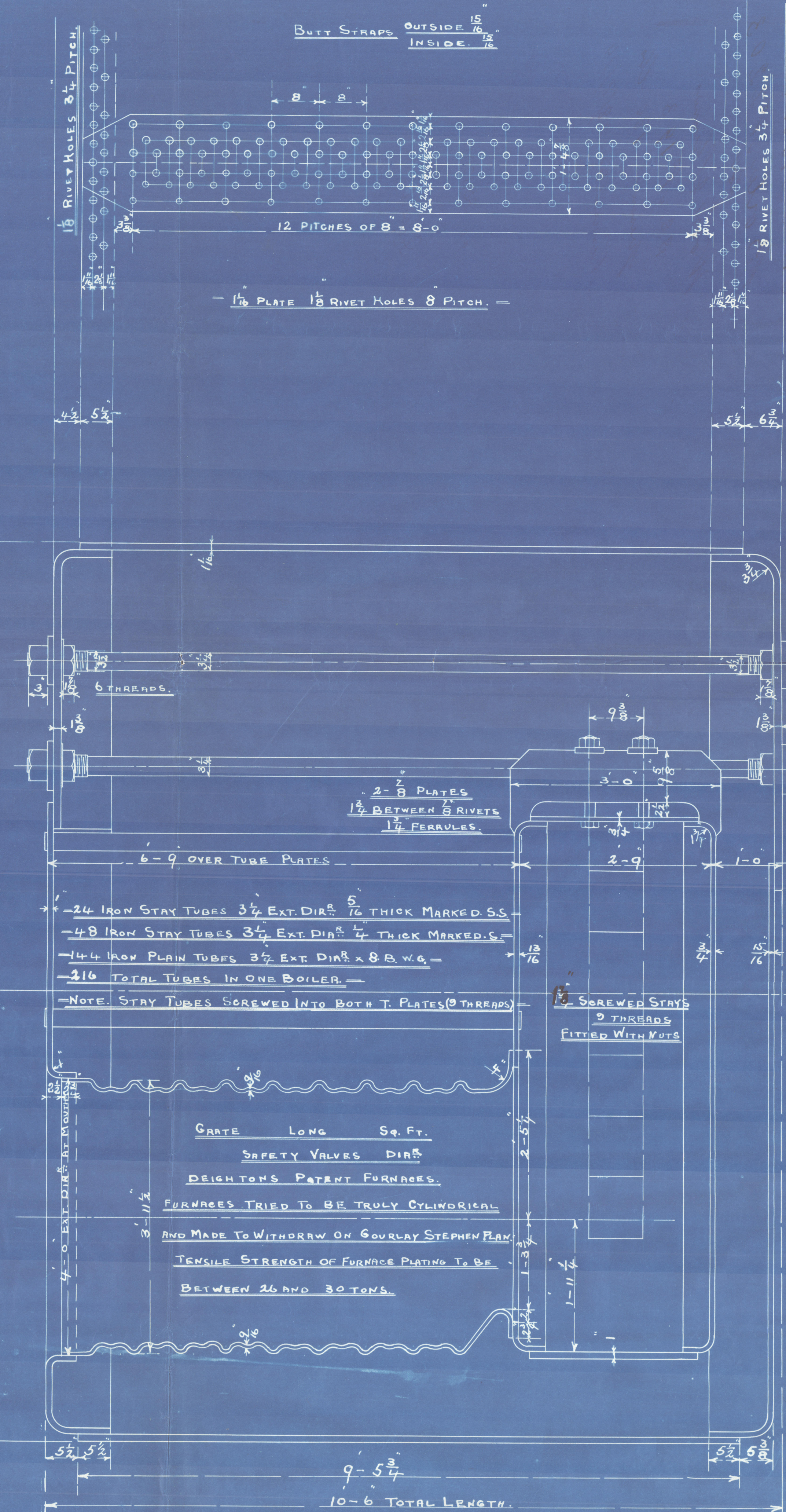
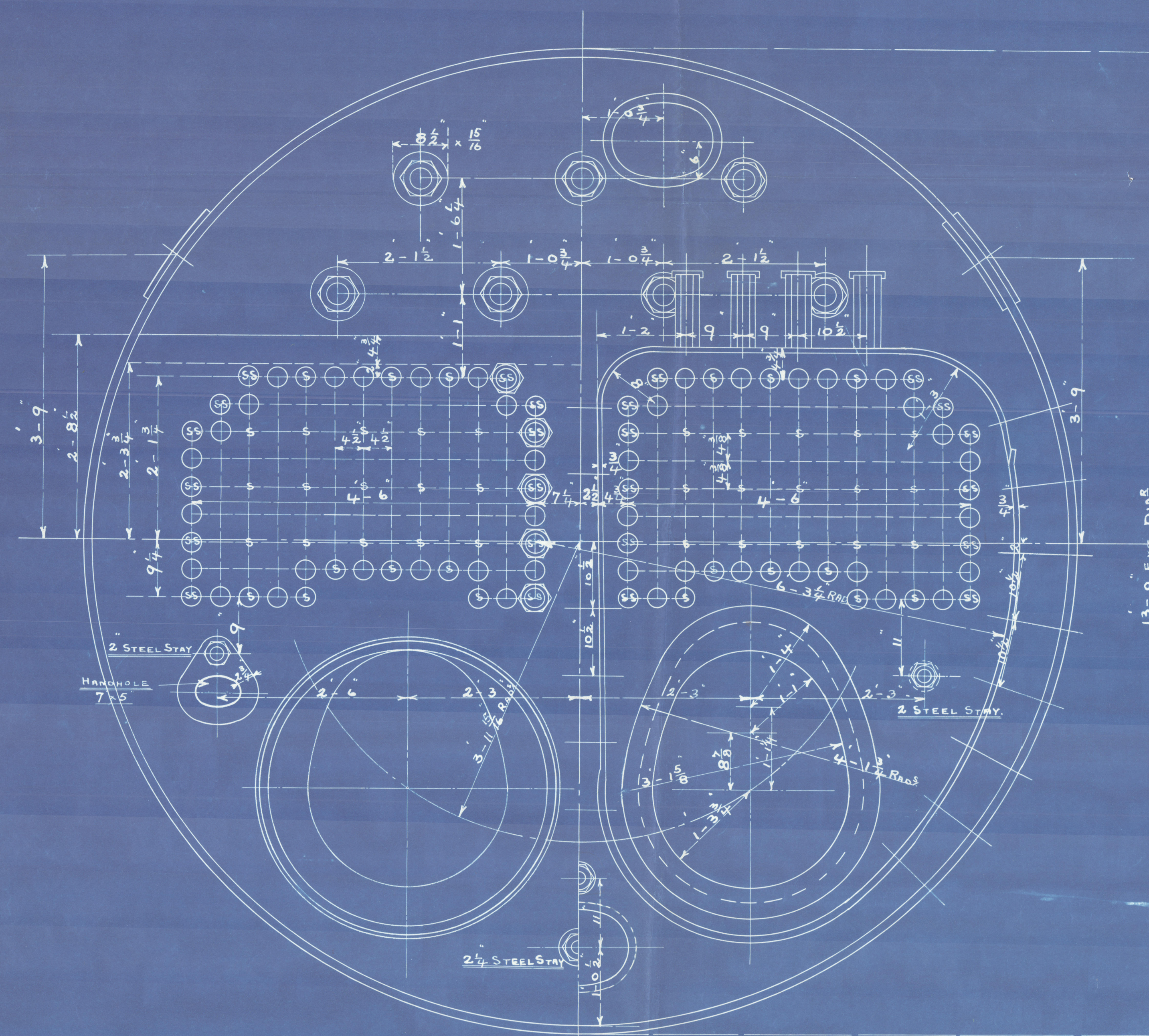
TRACING 582

STEAM BOILER

SCALE. INCH = ONE FOOT

DESCRIPTION	MINIMUM TENSILE STRENGTH	LETTER
2 SHELL PLATES	28 $\frac{3}{4}$ TONS	A, B
1 FRONT TOP	26	C
1 FRONT BOTTOM	26	D
1 BACK TOP	26	E
1 BACK BOTTOM	26	F
1 BACK T.P. CENTRE	26	G
2 BACK T.P. WINGS	26	H
1 C.C. WRAPPER CENTRE	26	J
2 C.C. WRAPPER WINGS	26	K
1 C.C. BACK CENTRE	26	L
2 C.C. BACK WINGS	26	M
16 GIRDER PLATES	26	N
2 SHELL BUTT STRAPS OUT	28 $\frac{3}{4}$	O
2 SHELL BUTT STRAPS IN	28 $\frac{3}{4}$	P
3 MANHOLE COVERS	28 $\frac{3}{4}$	Q
7 STEAM SPACE STAYS	28	
SCREWED STAYS	26	

3. H. A.  
26. 8/14

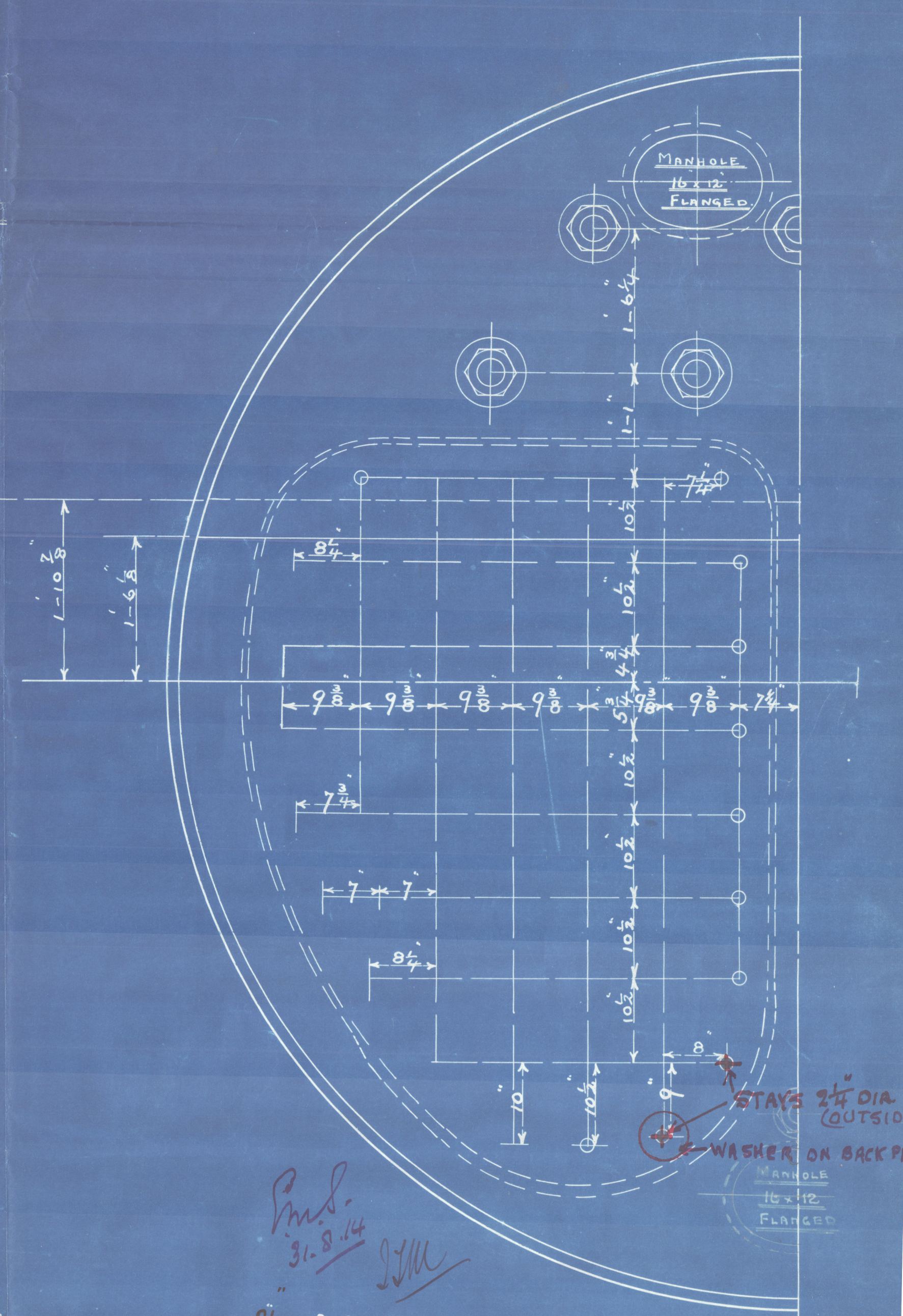


SURVEY TO LLOYDS, BUREAU VERITAS, AND FRENCH GOVERNMENT REQUIREMENTS.

HEATING SURFACE OVER TUBE PLATES = 1240 Sq. Ft.  
ELSEWHERE = 310 Sq. Ft.  
TOTAL = 1550 Sq. Ft. PER BOILER.

STEAM SPACE = CUB. FT.  
WORKING PRESSURE = 180 LBS.  
TEST PRESSURE = 360

NOTE: ALL PLATES STAYS 9/16 TO BE OF STEEL SMOKE TUBES OF IRON.  
TENSILE STRENGTH OF SHELL PLATES AND BUTT STRAPS TO BE NOT LESS THAN 28 $\frac{3}{4}$  TONS PER SQUARE INCH.  
ALL HOLES DRILLED IN PLACE AFTER PLATES ARE BENT.



STAYS MARKED THUS O 2 1/2 IN. (9 THREADS)

ALL OTHERS 1 1/2 DIA. (9 THREADS)

NOTE: ALL SCREW STAYS SCREWED INTO PLATE AND FITTED WITH NUTS.

1. THUS.  
1. OPPOSITE HAND.

CONTRACT 2203



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N. E. M. E. Co., LIMITED, WALLSEND.

ENCLOSURE

FOR

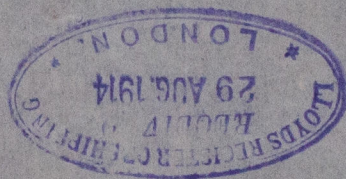
Messrs.

Lloyd's Register  
Foundation

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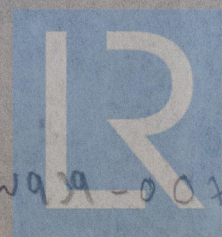


*A. E. Marine  
Boiler No 2203  
for  
Wood Skinners  
S.S. No 193  
pressure 180 lbs  
Newcastle 28/8/14*



*S.S. 'BOUCAU'*  
NEWCASTLE-ON-TYNE.

*Report No. 67622*



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