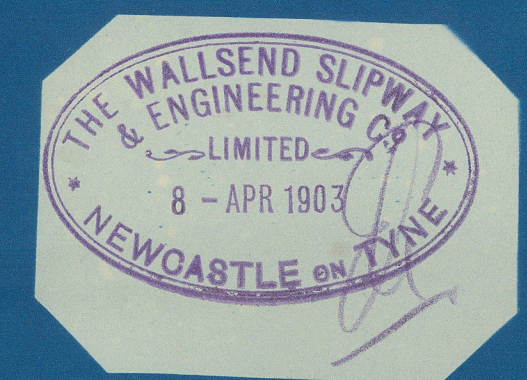


Mr. 03
17-4-03



BOILER CONTRACT N°580.

MESSRS. SIR W.G. ARMSTRONG & CO. S.S. N° 744

TO BE CONSTRUCTED TO PASS LLOYDS REQUIREMENTS.

3. OFF. THUS.

SCALE 1" = 1 FOOT.

APRIL 7TH 1903.

HEATING SURFACE	SQ. FT.
TUBES	1878
FURNACES	150
COMBUSTION CHAMBERS	221
TUBE PLATES	85

1. BOILER 23 3/4
3. BOILERS 700 2

WORKING PRESSURE 180 LBS. PER SQ. INCH.
TEST 360

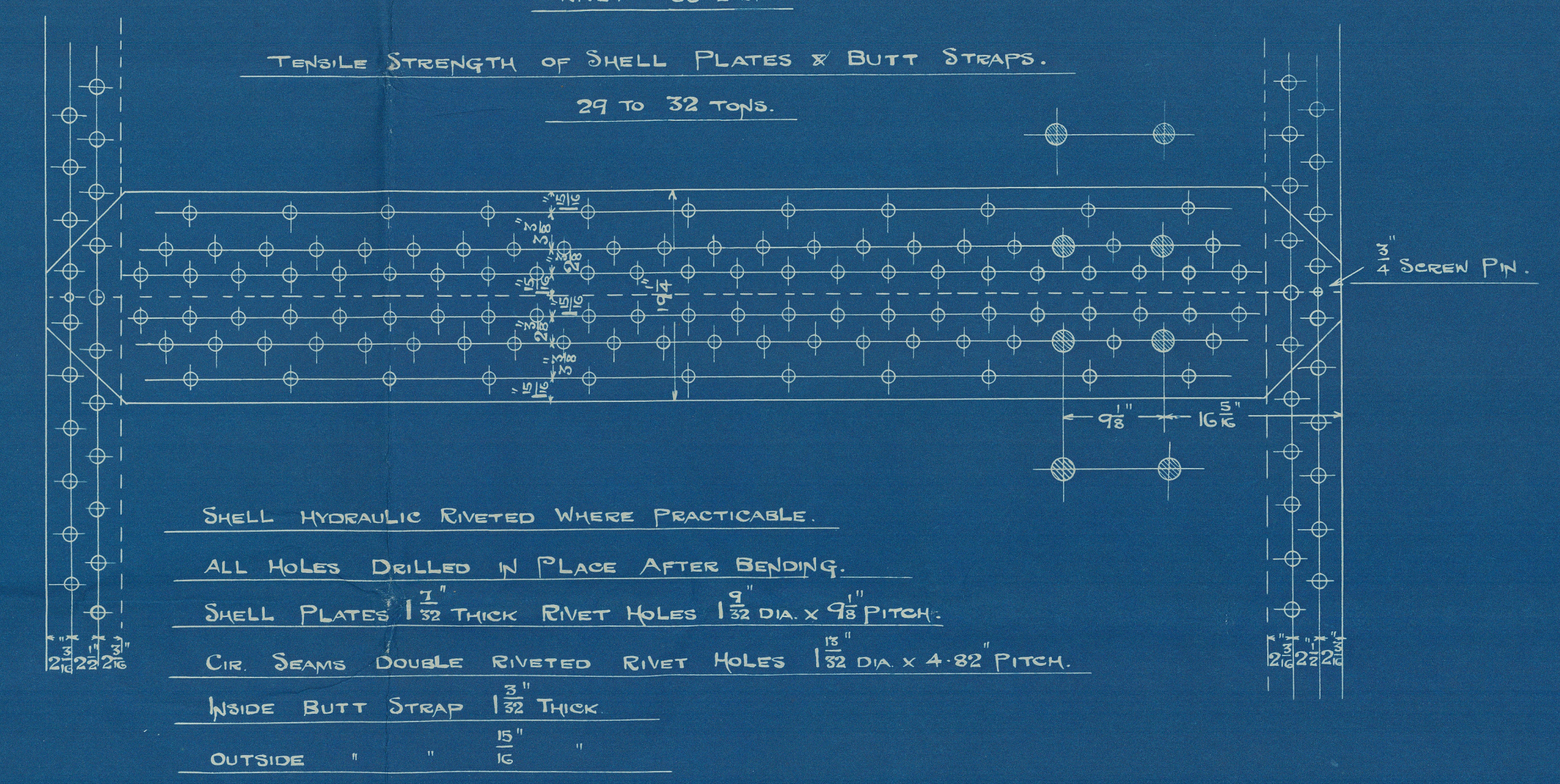
PLATES MANUFACTURED BY

PLATES STEEL.
RIVETS "
STAYS "
TUBES IRON.
SPARE GEAR
12. BOILER TUBES.
C. TUBE STOPPERS.

PLAN OF SHELL RIVETING.

PLATE 85-9%
RIVET 80-2%

TENSILE STRENGTH OF SHELL PLATES & BUTT STRAPS.
29 TO 32 TONS.



SHELL HYDRAULIC RIVETED WHERE PRACTICABLE.

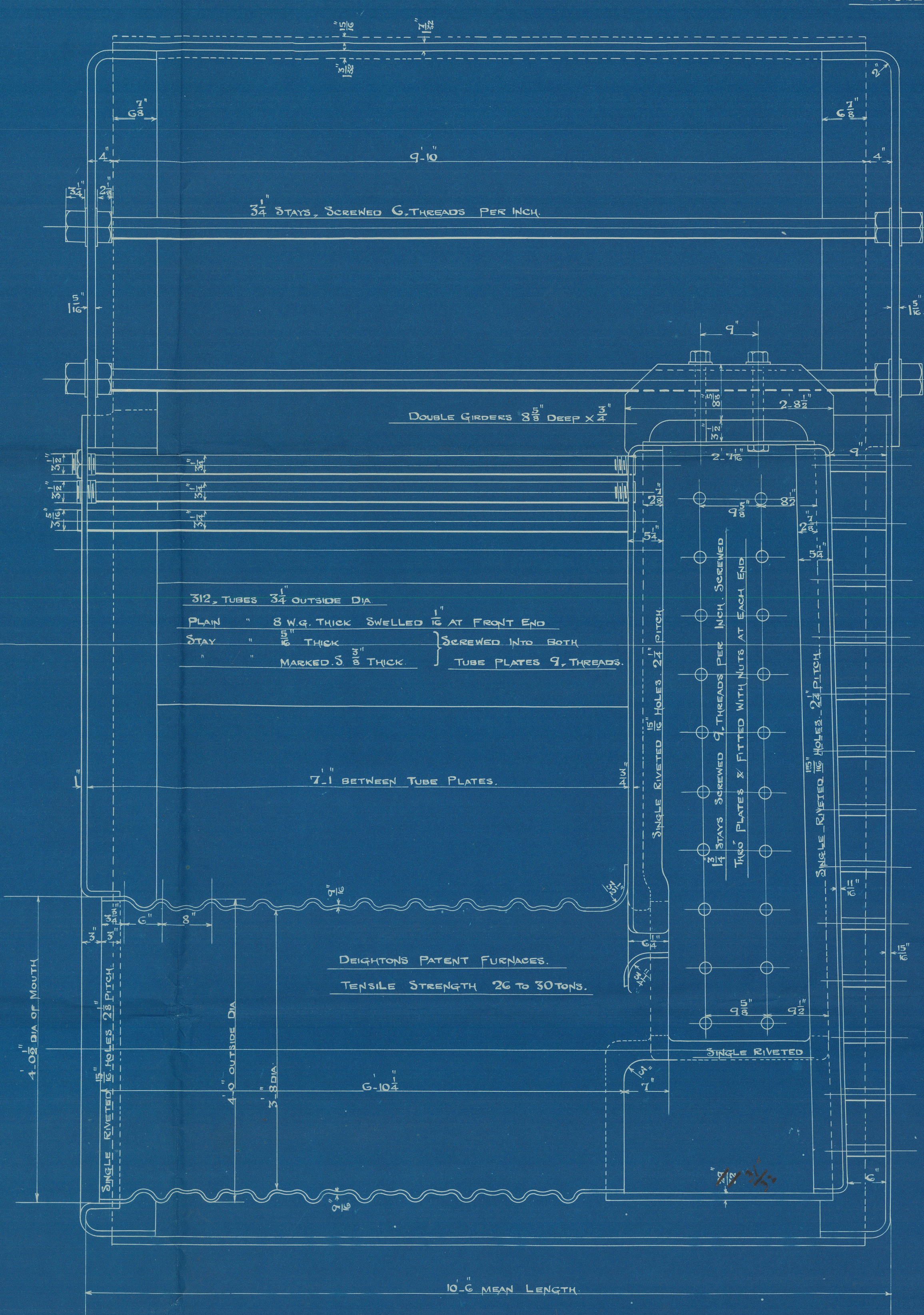
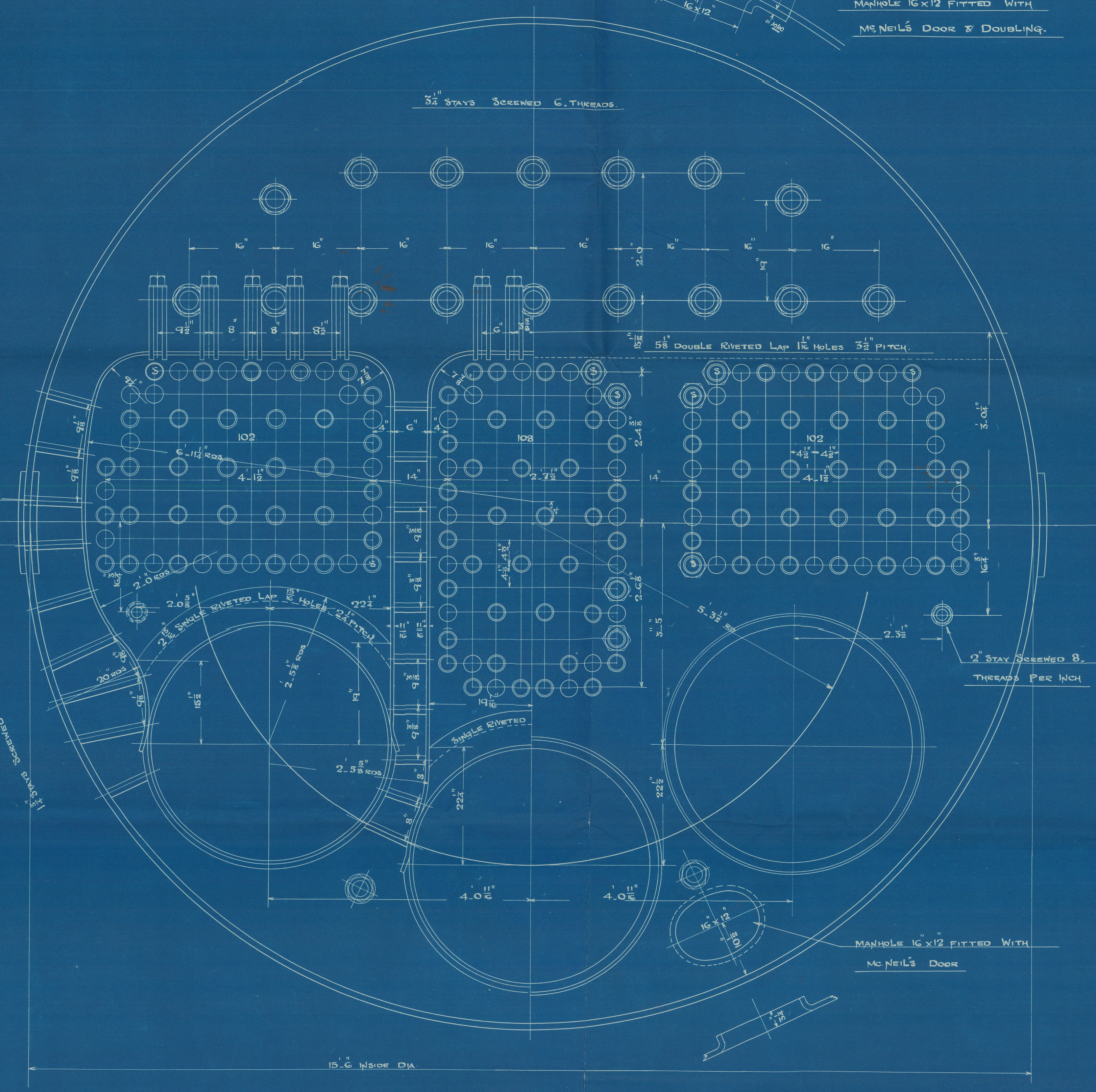
ALL HOLES DRILLED IN PLACE AFTER BENDING.

SHELL PLATES 1 1/2" THICK RIVET HOLES 1 3/8" DIA X 9 1/2" PITCH.

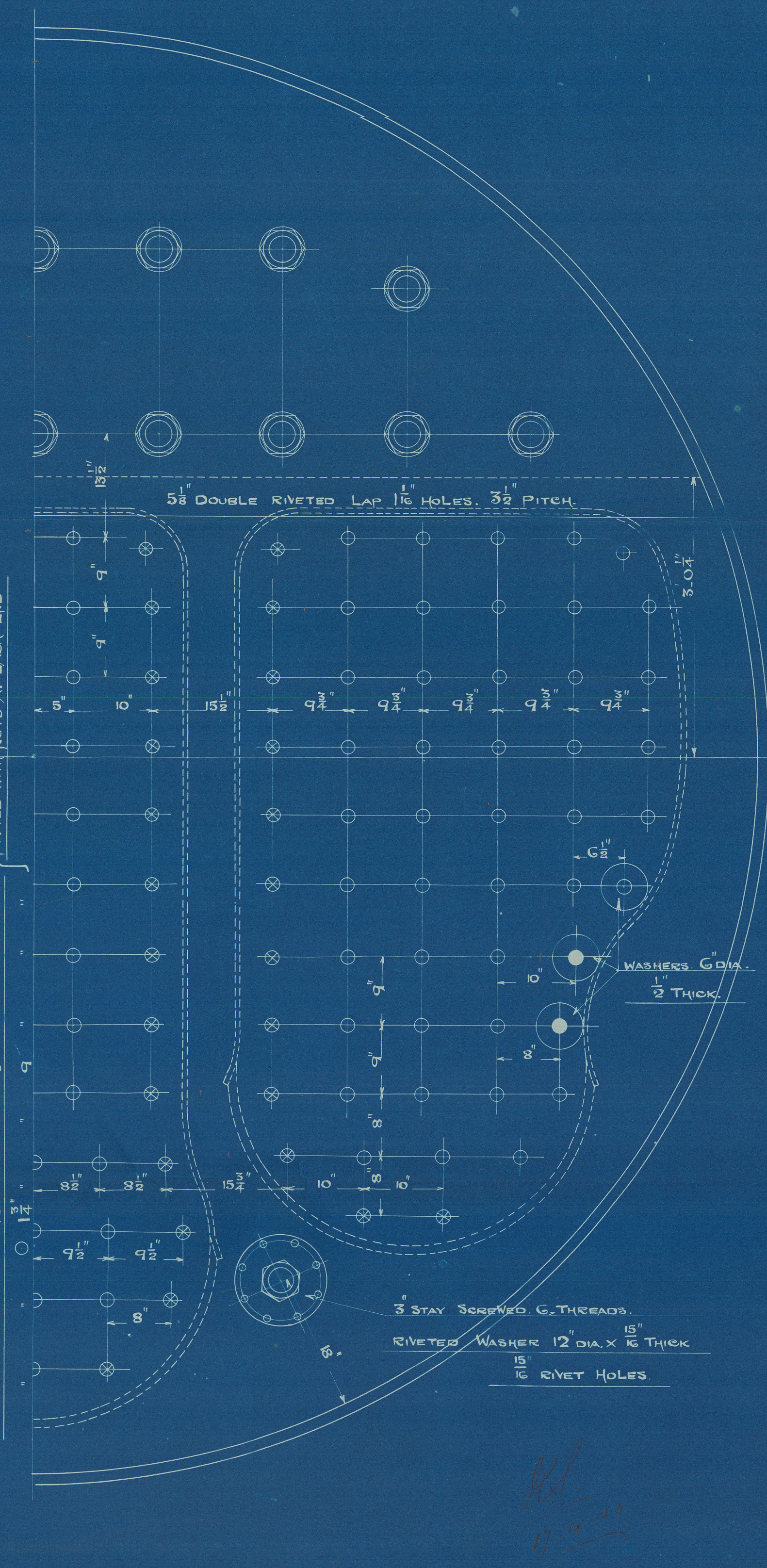
CIR. SEAMS DOUBLE RIVETED RIVET HOLES 1 3/8" DIA X 4-8 1/2" PITCH.

INSIDE BUTT STRAP 1 3/8" THICK
OUTSIDE 1 1/2" "

MANHOLE 16 X 12 FITTED WITH
MC NEIL'S DOOR & DOUBLING.



STAYS MARKED ● 2 DIA. SCREENED 8. THREADS PER INCH.



Walsend Shipway

ct 580 for

Armstrong Whitworth & Co
8/s 744

35 E
180 W.P.

No 6620
Lloyds List
360 lbs
14/7/03 G.A.H.



Maloppo
J.P. *Lady Hathema*

Newcastle Report

N^o *46392*

RETAIN
LR

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Lloyd's Register
Foundation
W763-0075