

26. 10. 06



BOILER. ORDER No 182B

MESS<sup>RS</sup> SIR W.G. ARMSTRONG WHITWORTH & CO<sup>SD</sup> S.S. No 486

TO PASS LLOYD'S & HAMBURG LAW REQUIREMENTS

1. OFF THIS

SCALE 1" = 1 FT.

25.4 mm = 1 in

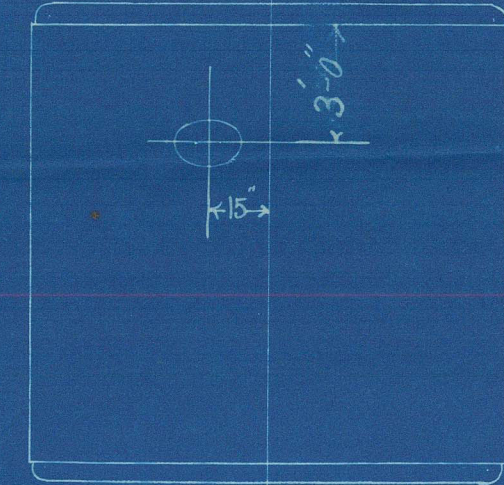
MATERIAL MANUFACTURED BY

PLATES STEEL

RIVETS "

STAYS "

TUBES IRON

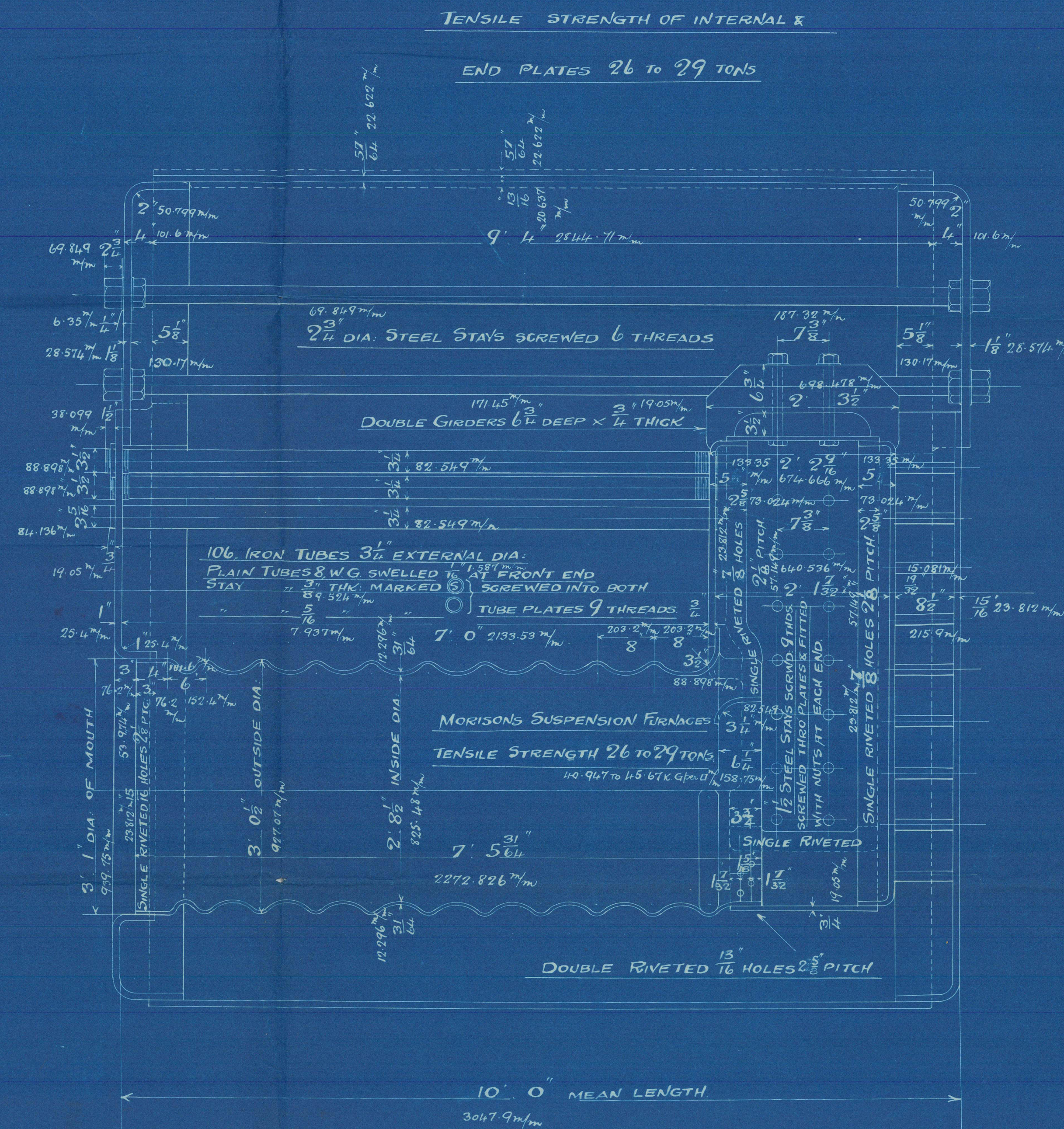
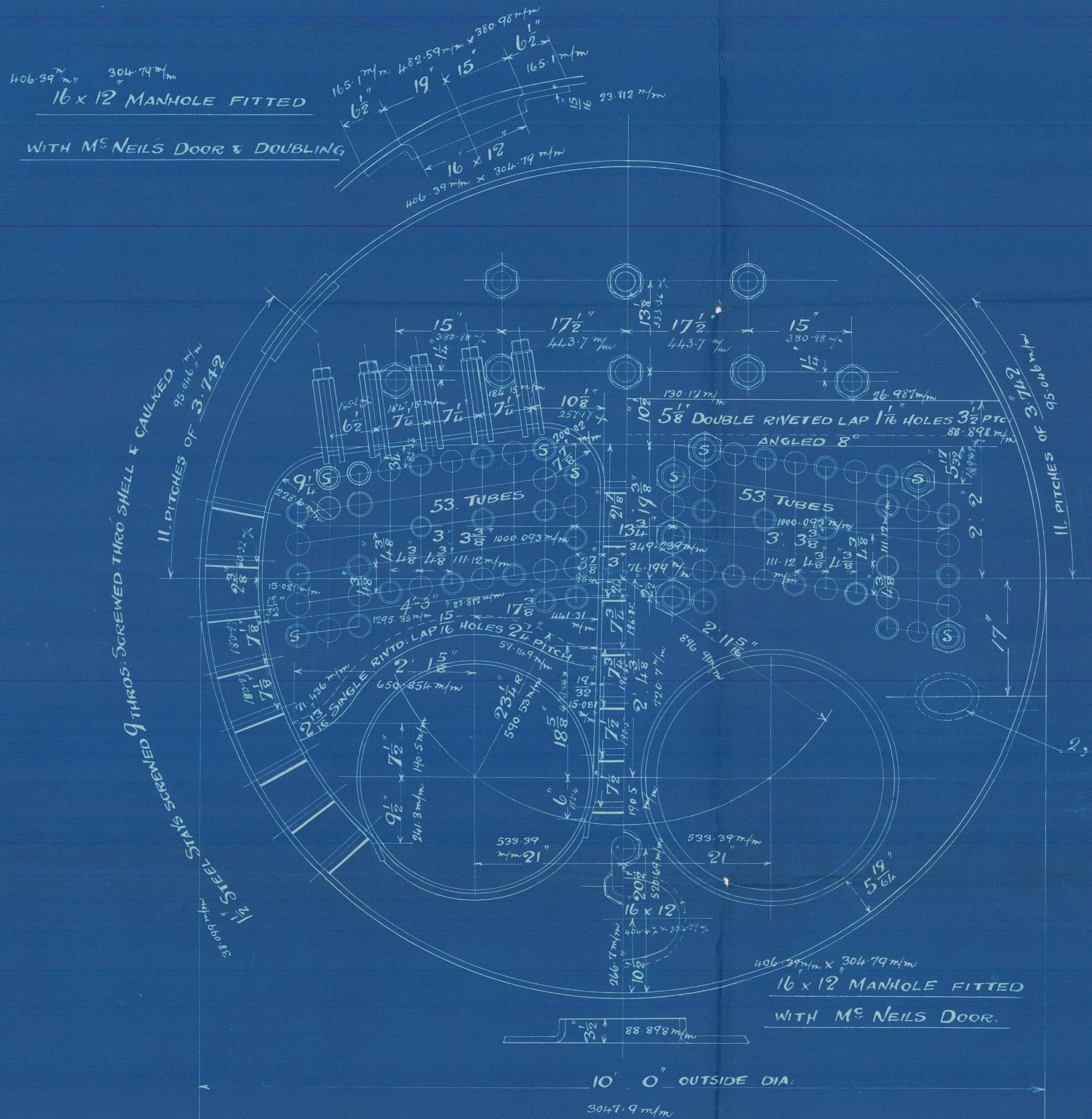


FRONT OF BOILER

HEATING SURFACE	SQ. FT.	SQ. METRES
TUBES	630	58.527
FURNACES	75	6.967
COMBUSTION CHAMBERS	86	7.989
TUBE PLATES	32	2.972
<b>TOTAL</b>	<b>823 SQ. FT.</b>	<b>76.455 SQ. METRES</b>

WORKING PRESSURE 180 LBS PER SQ. IN.

TEST 360 LBS PER SQ. IN.



PLAN OF SHELL RIVETING

STRENGTH OF JOINT

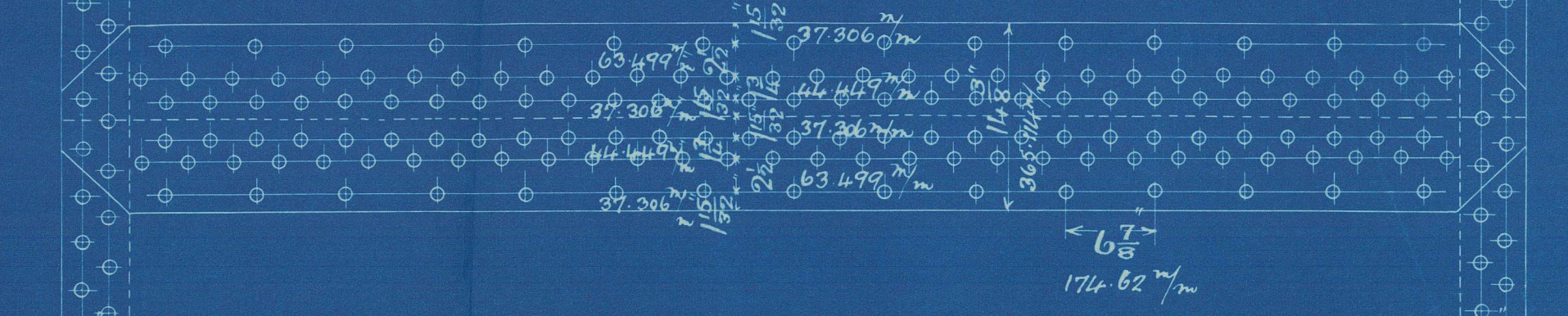
PLATE 86%

RIVET (B.O.T.) 86.6% 4.5 FACTOR USED

RIVET (LLOYD'S) 89.6%

RIVET (HAM. LAW) 104.8%

TENSILE STRENGTH OF SHELL PLATES & BUTT STRAPS 28 TO 32 TONS



SHELL HYDRAULIC RIVETED WHERE PRACTICABLE

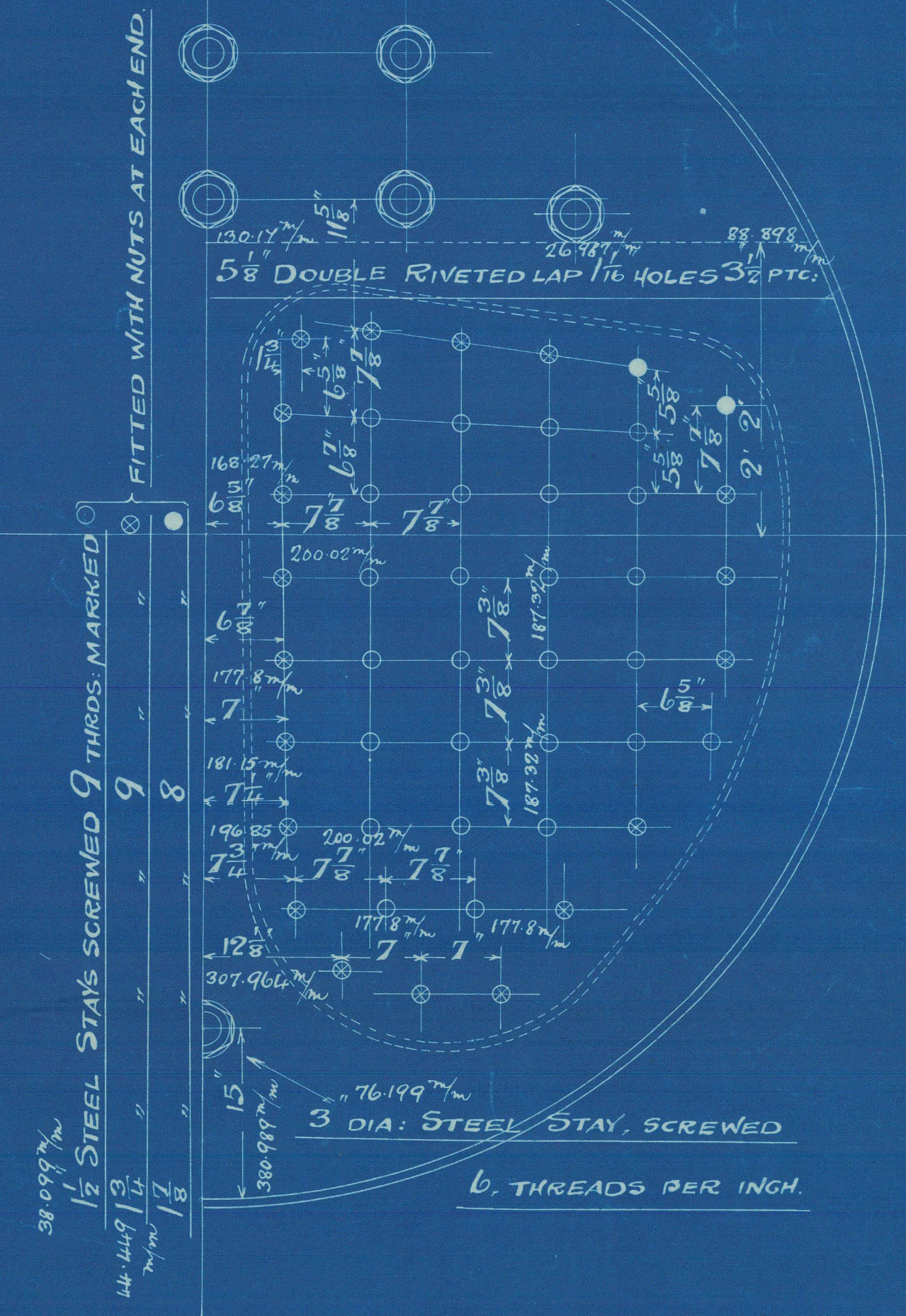
ALL HOLES DRILLED IN PLACE AFTER BENDING

SHELL PLATES 64 THK. RIVET HOLES 32 DIA. X 6 3/8 PITCH

CIRCUMFERENTIAL SEAMS DOUBLE RIVETED. RIVET HOLES 1 1/2 DIA. X 3 1/2 PITCH. 100 PITCHES IN CIRCUMFERENCE

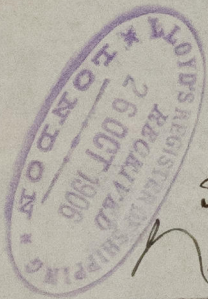
OUTSIDE BUTT STRAPS 64 THK.

INSIDE " " 16 "





Newcastle.  
Messrs The Wallsend Slipway & Eng. Co. Ltd.  
Donkey Boiler No. 182 B  
for  
Messrs. Sir W. G. Armstrong, Whitworth & Co's  
No. 186 ship.  
Working Pressure 180 lbs

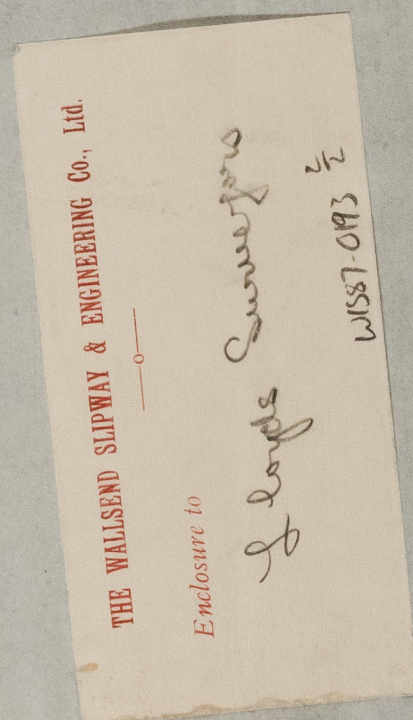


313 'Siska'  
Nwe. No. 52,390

7394  
360 lbs  
14/12/86  
J. J. J.

RETAIN

W1587-0193



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Foundation



Handwritten signature in purple ink over a faint circular stamp.

Handwritten in brown ink: 50:01 22. A faint circular stamp is visible behind the text.

Handwritten in purple ink: R I



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