

# STEEL AUXILIARY BOILER No 614.

WORKING PRESSURE = 220 LBS. LLOYDS.

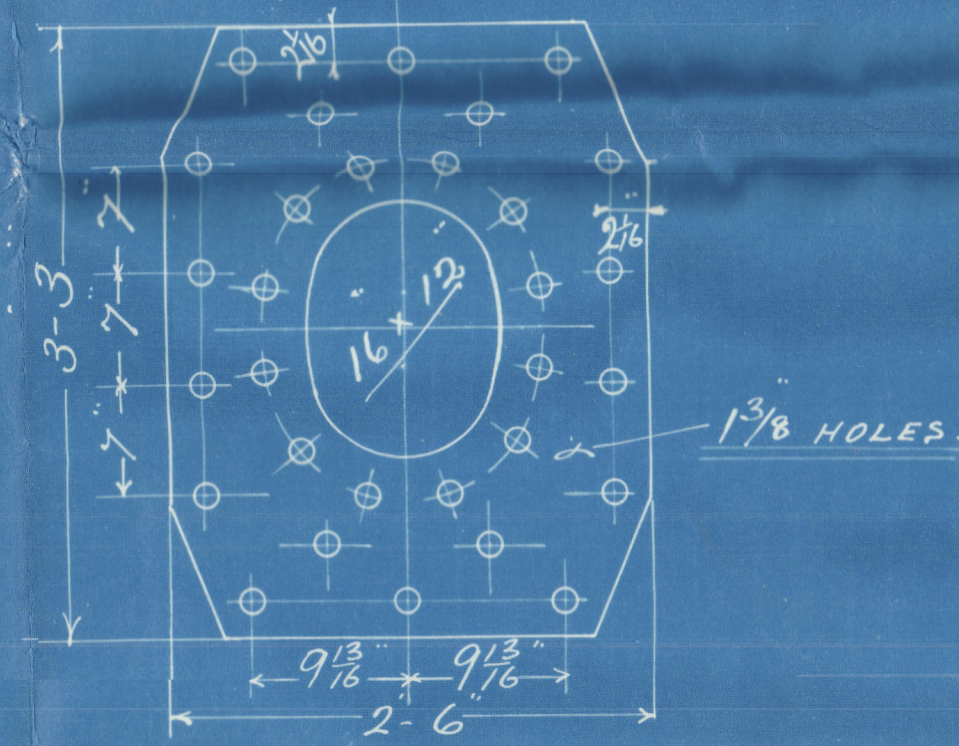
TEST PRESSURE = 440 LBS.

SCALE 1 INCH = 1 FOOT.

19/3/15

**NOTE!**  
ALL PLATES, STAYS & RIVETS TO BE OF SIEMENS MARTIN STEEL. ALL HOLES TO BE DRILLED IN PLACE AFTER THE PLATES ARE BENT. ALL FLANGED PLATES TO BE ANNEALED AFTER FLANGING. THE SCREW STAYS ARE 1 7/8", 1 3/4" & 1 1/2" EFFECTIVE DIAM. & SCREWED INTO BOTH PLATES & NUTTED AS SHOWN. (SCREWED 10 THREADS PER INCH.)  
A MANHOLE IN SHELL WITH SHORTER AXIS LONGITUDINALLY AND A DOUBLING PLATE 3' 3" x 2' 6" x 1 1/8" THICK FITTED ROUND IT.

DOUBLING PLATE ROUND MANHOLE  
1 1/8" THICK. 30-34 TONS.



SHELL 1 1/8" THICK.  
INSIDE BUTT STRAPS 1 1/8"  
OUTSIDE BUTT STRAPS 1 1/8"

TENSILE: 30 TO 34 TONS.

PLAN OF SHELL RIVETING.

1 3/8" HOLES, 9 1/16" PITCH.

PLATE = 85.9%. RIVETS = 85.8%.

RIVETING AT A.

1 3/8" HOLES,  
3 3/4" PITCH.

RIVETING AT B.

12 PITCHES OF 9 1/16" = 9' 9 3/4"  
10' 1 7/8" INSIDE BUTT STRAP  
10' 5"

RIVETING  
AT A.

1 3/8" HOLES,  
3 3/4" PITCH.

RIVETING  
AT B.

2" STEEL SCREW STAYS NUTTED AT BOTH ENDS  
SHOWN THUS:—  
1 3/8" STEEL SCREW STAYS NUTTED AT BOTH ENDS  
SHOWN THUS:—  
1 1/4" STEEL SCREW STAYS NUTTED AT BOTH ENDS  
SHOWN THUS:—  
1 1/2" STEEL SCREW STAYS NUTTED ON INSIDE AND  
CAULKED ON OUTSIDE SHOWN THUS:—

ALL SCREWED 10 THREADS PER INCH.

LONGITUDINAL STAY BARS 7.23 SQ INCHES  
EFFECTIVE AREA, SCREWED 6 THREADS PER INCH.  
TENSILE STRENGTH 28 TO 32 TONS PER SQ INCH.  
NUTS 1 1/2" DEEP.

BRIDGE STEEL FINDER  
10 1/2" x 7/8" RIVETED TOGETHER.

8' 4" BETWEEN PLATES.

208 IRON ORDINARY TUBES 2 1/2" EXT DIAM x 16' 9" L.S.G. THICK.

SWELLED 1/2" AT FRONT END.

81 IRON STAY TUBES MARKED S. 3 1/8" THICK IN BODY, 1/4" EFFECTIVE.

41 IRON STAY TUBES MARKED N. 3/8" THICK IN BODY, 5/16" EFFECTIVE.

STAY TUBES SCREWED AT ENDS TO 2 3/4" x 2 1/2" DIAM x 10 THREADS PER INCH.

INTS TO BE FITTED ON FRONT END WHERE SHOWN.

TOTAL NUMBER OF TUBES = 330.

1/8" THICK.

HOLES, 2 1/2" PITCH.

DEIGHTON SECTION STEEL FURNACES.

2 1/2" STEEL STAY 2 3/8" EFFECTIVE DIAM. TAPPED IN AT BACK END.

2 1/2" STEEL STAYS 1 1/2" EFFECTIVE DIAM. TAPPED IN AT BACK END.

STAYS 28 TO 32 TONS PER SQ INCH.

1/8" THICK.

3' 10 1/2" EXT DIAM.

12' 5" TOTAL LENGTH.

1 3/8" HOLES, 3 3/4" PITCH, 5 1/2" LAP.

1 1/2" STEEL SCREW STAYS  
10 THREADS PER INCH

1" HOLES, 2 1/2" PITCH.

2' 10 1/2" INT.

8' 8"

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Lloyd's Register

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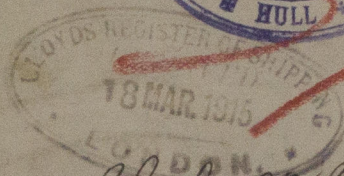


EARLES Co. L<sup>d</sup>

N<sup>o</sup> 614.

WP = 220 lbs.

AUXILIARY BOILER.



$\frac{1}{5}$  Elmleaf Hull Rpt No 29850

2 copies.

Departing	
Date Received	22 MAR 1915
Date Replied	
Initials	



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Foundation

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