

4/5/08

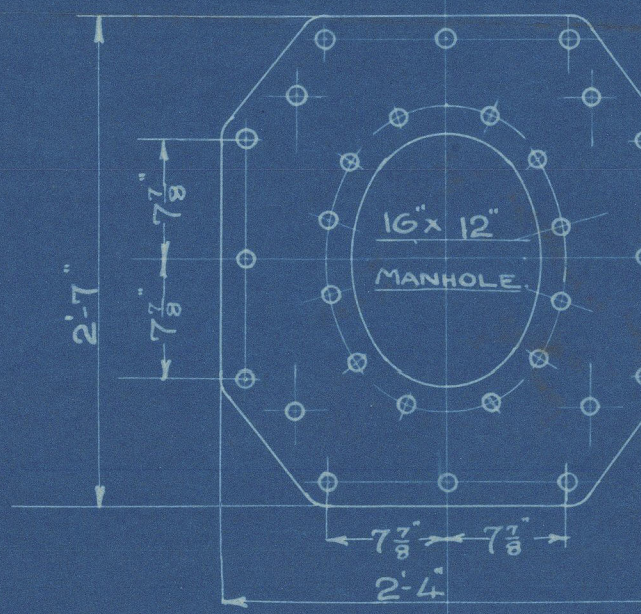
N^o 550 3 STEEL BOILERS

WORKING PRESSURE 180 LBS PER SQ IN LLOYDS
TEST PRESSURE 360 " " " " " "
SCALE 1 INCH = 1 FOOT.

PLAN OF SHELL RIVETING
1/8" HOLES 7 1/2" PITCH

PERCENTAGE OF PLATE 85.7% PERCENTAGE OF RIVETS 85.8% LLOYDS.

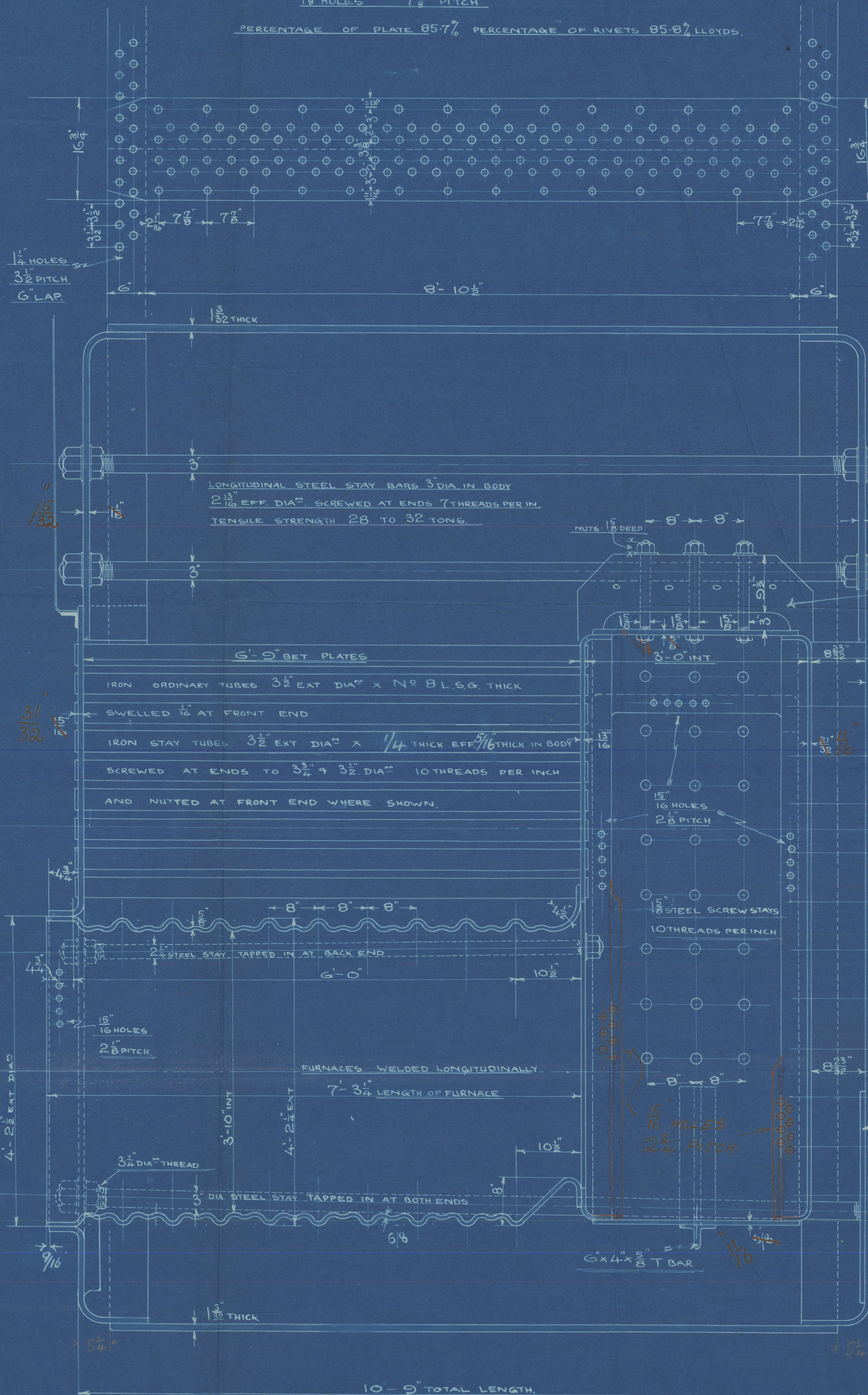
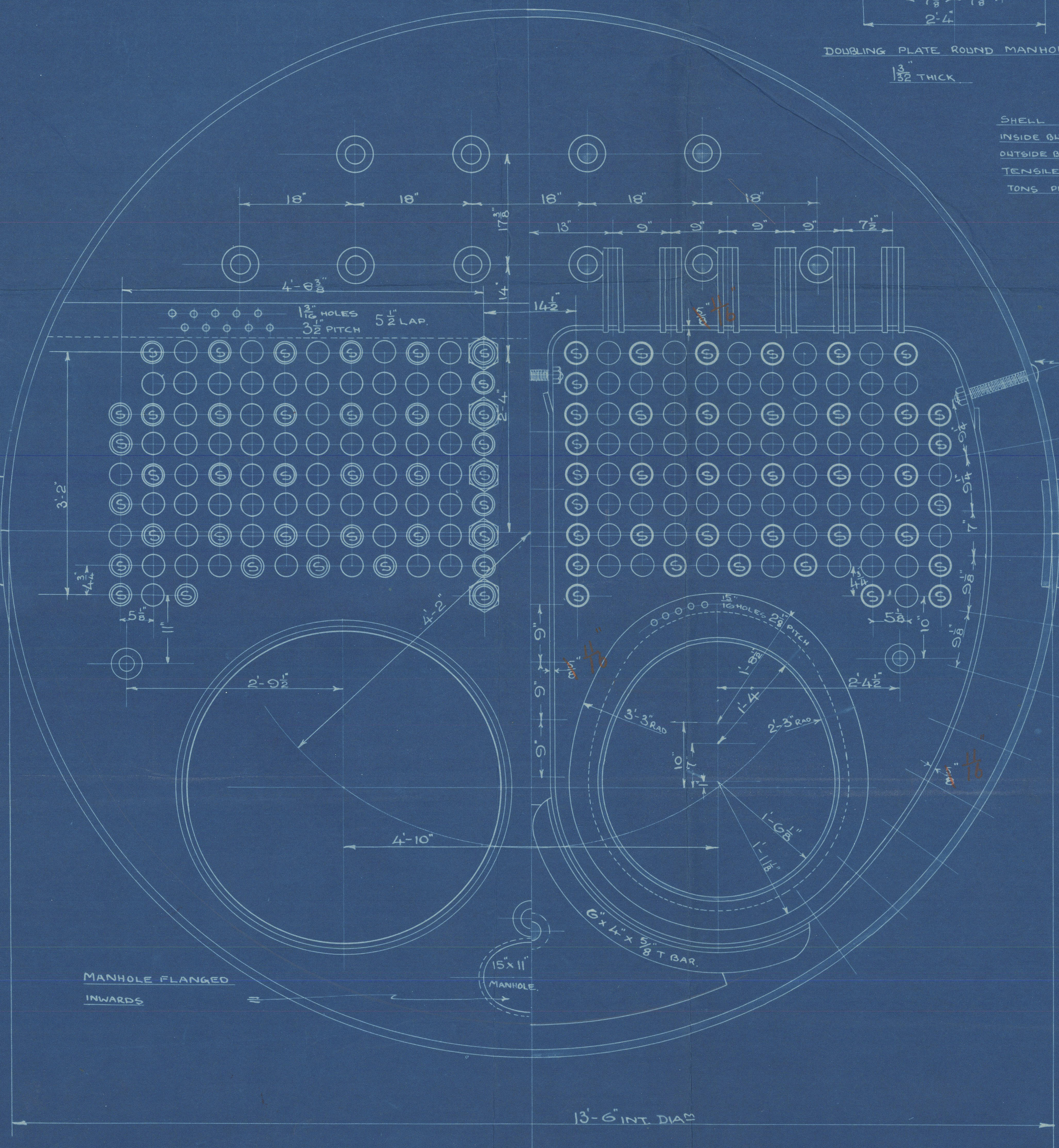
NOTE. ALL PLATES, STAYS AND RIVETS TO BE OF SIEMENS MARTIN STEEL.
ALL RIVET HOLES TO BE DRILLED IN PLACE AFTER THE PLATES ARE BENT.
ALL FLANGED PLATES TO BE ANNEALED AFTER FLANGING. THE SCREW STAYS
ARE 1 1/2", 1 3/4" & 1 1/2" DIA EFF. SCREWED INTO BOTH PLATES AND NUTTED AT BOTH
ENDS EXCEPT ON OUTSIDE OF SHELL WHERE THE ENDS ARE RIVETED OVER AS
SHOWN. ALL SCREW STAYS SCREWED 10 THS PER INCH. THE TUBES ARE OF IRON.
THE ORDINARY TUBES ARE 3 1/2" EXT DIA" X N^o 8 L.S.G. THICK. SWELLED AT
FRONT END. THE STAY TUBES ARE 2 3/4" INT. DIA" X 1/4" THICK EFF.
SCREWED AT ENDS TO 3 3/4" & 3 1/2" DIA" 10 THS PER INCH.
A MANHOLE IN SHELL 16" X 12" WITH SHORTER AXIS LONGITUDINALLY AND
A DOUBLING PLATE 2'-7" X 2'-4" X 1/32" THICK FITTED ROUND IT.



ALL 1 1/2" RIVET HOLES.
INNER ROW COUNTERSUNK.

DOUBLING PLATE ROUND MANHOLE
1/32" THICK

SHELL 1/32" THICK
INSIDE OUTSTRAIPS 1/32" THICK
OUTSIDE OUTSTRAIPS 1/16" THICK
TENSILE STRENGTH 28 TO 32
TONS PER SQ INCH



DOUBLE STEEL BARS
3/4" X 1/2" THICK
RIVETED TOGETHER

1 1/2" DIA" STEEL SCREW
STAYS SHOWN THUS

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1 1/2" DIA" STEEL SCREW
STAYS SHOWN THUS

ALL SCREW STAYS
SCREWED 10 THS PER INCH

INSIDE DOUBLING PLATE
3/4" THICK
RIVETED ON WITH 1" RIVETS
1 1/2" HOLES

DIMENSIONS

	1 BOILER	3 BOILERS
LENGTH OF FIRE BARS	5'-6"	5'-6"
AREA OF FIRE GRATE	4.75 sq	125.25 sq
DIAM OF TUBES OUTSIDE	3 1/2"	3 1/2"
LENGTH OF TUBES BET PLATES	6'-5"	6'-5"
N ^o OF TUBES	196	588
AREA THROUGH TUBES	9.7 sq	29.1 sq
SURFACE OF TUBES	1212 sq	3636 sq
TOTAL HEATING SURFACE	1530 sq	4590 sq
WORKING PRESSURE	180 LBS	180 LBS

7644.13
1.5.08

Lloyds

N^o 550



Lloyds Register
W369-0104

35

Messrs Charles G.

Boilers No 550

Port Centre.

No 1679

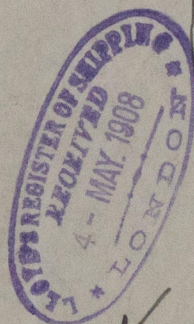
Lloyds Test

360 lbs

J.B

9.10.08

Star



No 1680.

Lloyds Test

360 lbs

J.B

13.10.08

3/8 Kilnsea
Hull Rpt No 20,656

PET AM

W869-0104



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Lloyd's Register
Foundation