

20/1/30

SURFACES.	ONE BOILER.	2 BOILERS.
TUBES.	2515 SQ. FT.	5030. SQ. FT.
COMBUSTION CHAMBERS.	264 " "	528 " "
TUBE PLATES.	100 " "	200 " "
FURNACES.	166 " "	332 " "
TOTAL HEATING SURFACE.	3045 " "	6090 " "
GRATE AREA. (5-7 1/2 BARS).	615 " "	123 " "
STEAM SPACE.	520 CU. FT.	1040 CU. FT.
WEIGHT OF WATER.	30 TONS.	60 TONS.

LIMITS OF TENSILE STRENGTH & MATERIAL.		
SHELL, BUTT STRAPS & GIRDERS.	29 TO 33 TONS.	
OTHER PLATES.	26 TO 30 TONS.	SIEMENS-MARTIN
FURNACES.	26 " 30 "	STEEL.
MAIN STAYS.	28 " 32 "	
RIVET BARS.	26 " 30 "	

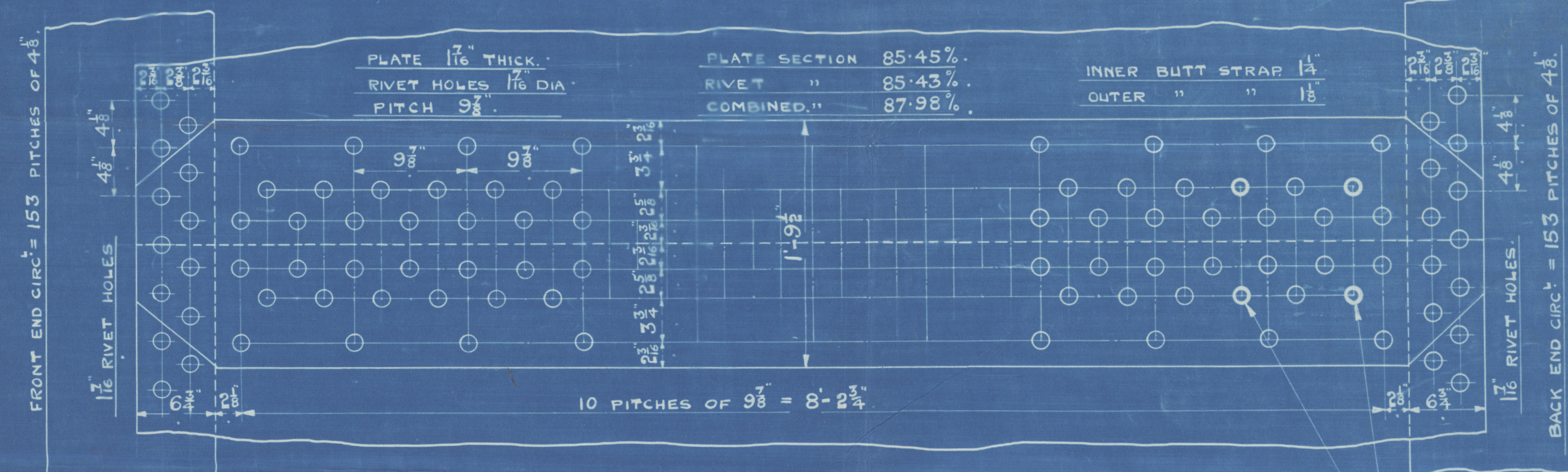
ALL RIVET HOLES DRILLED IN PLACE.

WORKING PRESSURE = 200 LBS. PER SQ. INCH.  
TEST " = 350 " " " "

TO PASS LLOYDS' SURVEY.

APPROVED BY LLOYDS 12/11/30.

MANHOLE COMPENSATING PLATE.  
PLATE % AT LONGITUDINAL EDGE - 85.45%.  
1 1/16" THICK .. 1 1/16" RIVET HOLES.

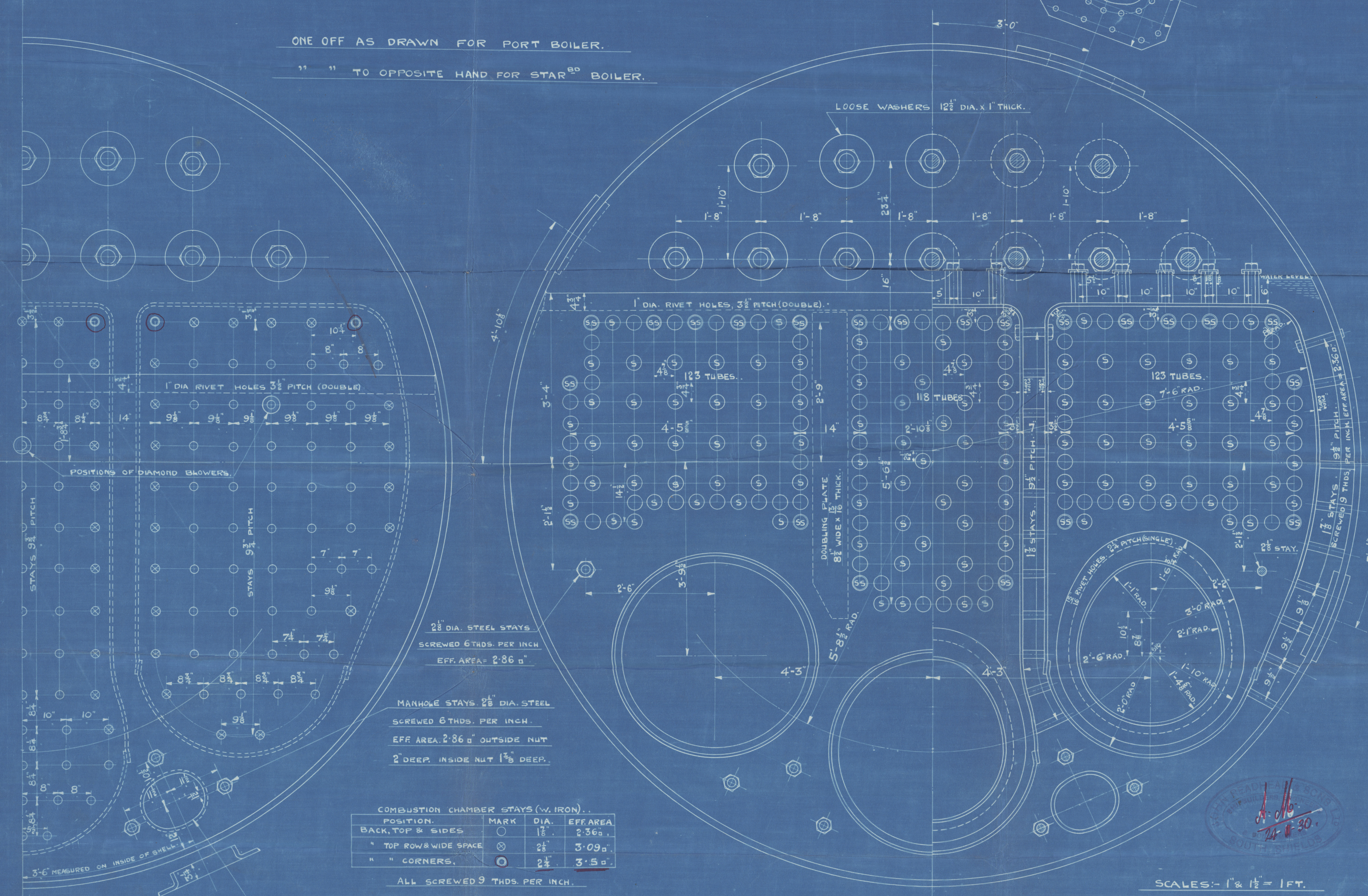


BUTT STRAPS SCARPHED TO CENTRE LINE OF INNER ROW OF RIVETS.

POSITION OF WING C.C. STAYS  
THRO BUTT STRAPS AS  
SHOWN THUS O

ONE OFF AS DRAWN FOR PORT BOILER.

" " TO OPPOSITE HAND FOR STAR BOILER.



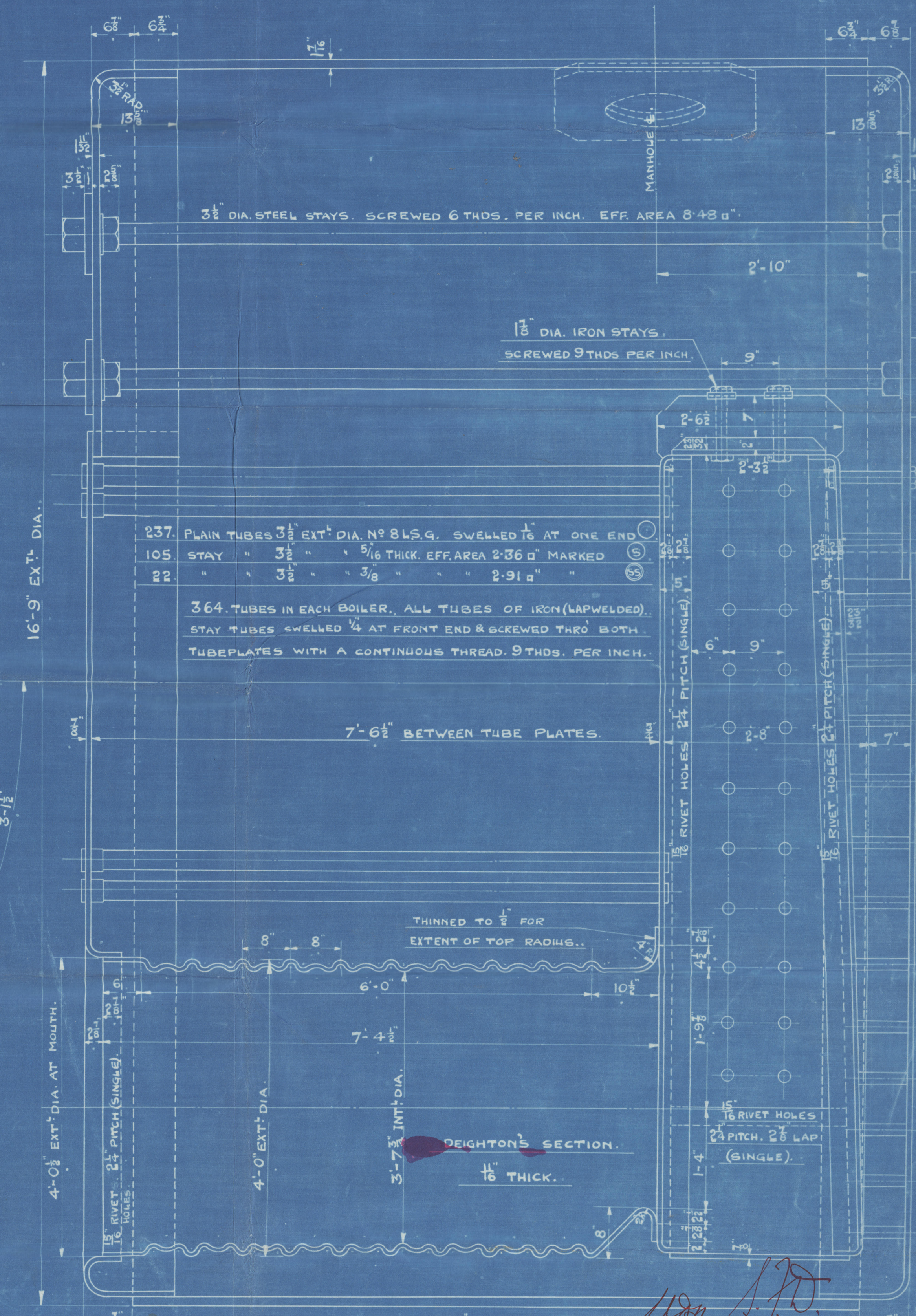
COMBUSTION CHAMBER STAYS (W. IRON).		
POSITION.	MARK	DIA.
BACK, TOP & SIDES	○	1 1/2"
" TOP ROW WIDE SPACE	⊗	2 1/2"
" " CORNERS.	⊙	2 1/4"

ALL SCREWED 9 THDS. PER INCH.

ALL COMBUSTION CHAMBER STAYS SCREWED THRO BOTH PLATES  
& NUTS FITTED AT EACH END, EXCEPT STAYS FROM WING  
FIREBOX TO SHELL WHICH PROJECT 3/8" & ARE CAULKED.  
NUTS FOR 1 1/2" STAYS 1" DEEP. NUTS FOR 2 1/2" & 2 1/4" STAYS 1 1/2" DEEP.

2-15" x 12" MANHOLES AT BACK  
PLATE FLANGED IN & EDGE  
FACED TO TAKE DOOR.

SCALE:- 1" & 1 1/2" = 1 FT.



237. PLAIN TUBES 3 1/2" EXT. DIA. NO 8 L.S.G. SWELLED 1/16" AT ONE END  
105 STAY " 3 1/2" " 5/16" THICK. EFF. AREA 2.36 sq. in. MARKED (S)  
22 " 3 1/2" " 3/8" " " 2.91 sq. in. (S)

364. TUBES IN EACH BOILER, ALL TUBES OF IRON (LAP WELDED).  
STAY TUBES SWELLED 1/4" AT FRONT END & SCREWED THRO BOTH  
TUBE PLATES WITH A CONTINUOUS THREAD. 9 THDS. PER INCH.

THINNED TO 1/2" FOR  
EXTENT OF TOP RADII.

DEIGHTON'S SECTION.  
1 1/16" THICK.

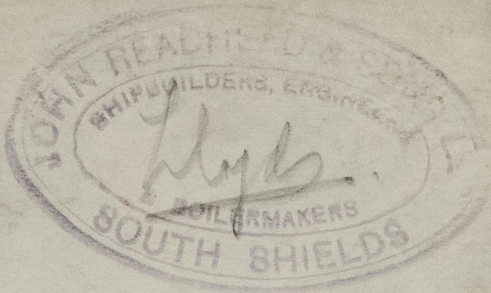
MAIN BOILERS.

ENGINE NO 502-503.

2 OFF FOR EACH NO

LLOYD'S REGISTER  
DWG. NO 4293.  
W1318-0192





J. READHEAD & SONS LTD.

MAIN BOILERS.

502-3.

✓ S.S. "HARPAGUS,"  
NEWCASTLE ON TYNE.

Report No. 8547

S.S. "HARPALYCE,"

NEWCASTLE ON TYNE.

Report No. 86279

SIZILIEN

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Foundation

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