

SUNDERLAND ENGINE WORKS

BOILER

TRACING 3275A SCALE 1 INCH TO A FOOT SCHEDULE L

WRITTEN DIMENSIONS ONLY TO BE TAKEN



RIVET HOLES 1/2" DIA.

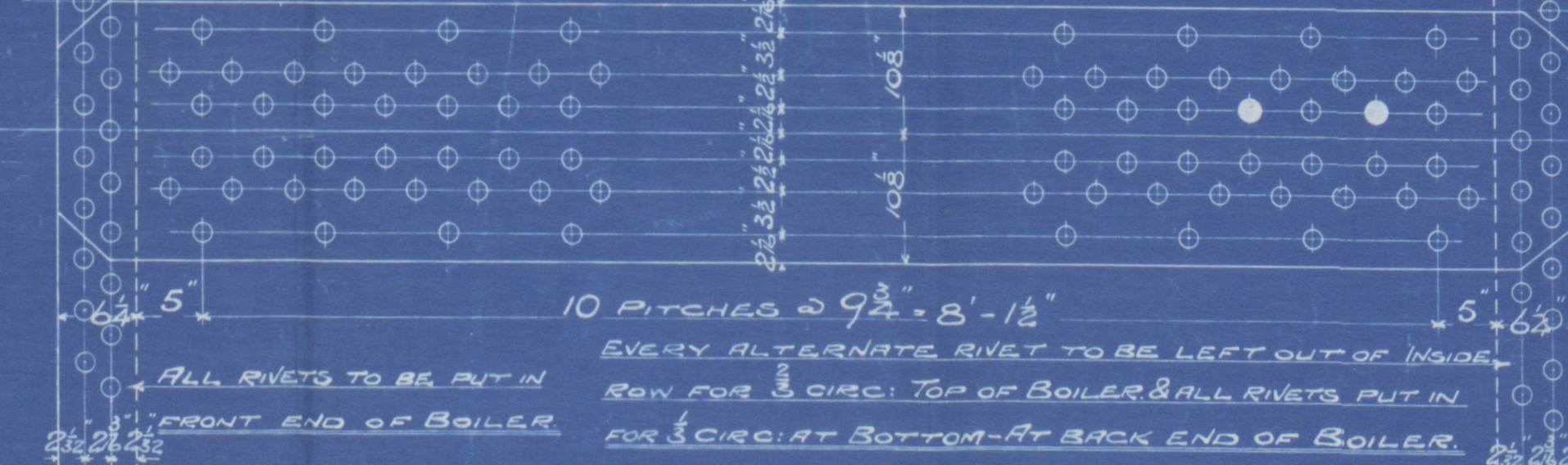
PLATE 1 1/2" THICK
RIVET HOLES 1/2" DIA.
PITCH 9"

PLATE SECTION = 86.21%
RIVET " = 88.62%

28/12/14

TO PASS LLOYD'S SURVEY		
SHELL 22 1/2" x 57 1/2" (195-2136 21)	=	181 LBS PER SQ.
WORKING PRESSURE	180 "	" "
TEST	360 "	" "
HEATING SURFACE ON TUBES	2133 SQ. FT.	
" " OTHER PARTS	568 "	
TOTAL	2701 "	
EX. FRONT TUBE PLATE	2651 "	
EFFECTIVE AREA OF STAYS		
3 1/2" STAY TUBES 1/2" TH. Q. THREADS PER IN.	2.17 SQ. IN.	
3 1/2" " " 1/2" " " " " " "	1.64 " "	
3 1/2" MAIN STAYS	6 " "	9.62 " "
2 1/2" " " " " " " " "	4.11 " "	
2 1/2" SCREWED " " " " " " " "	3.58 " "	
2 1/2" " " " " " " " "	3.17 " "	
2 " " " " " " " "	2.79 " "	
ALL PLATES, RIVETS & STEAM SPACE STAYS - STEEL		
ALL OTHER STAYS & TUBES - WROUGHT IRON		
HOLES TO BE DRILLED IN PLACE AFTER BENDING		
TENSILE STRENGTH OF SHELL PLATES 29 1/2 TO 33 TONS PER SQ. IN.		
" GIRDER	28 " 32 "	
" " STEEL MAIN STAYS 28 " 32 "		

BUTT STRAPS
INSIDE 1 1/2" THICK
OUTSIDE 1 1/2" THICK



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N.E.M.E.C. LD C No 2224

MAIN BOILERS. 2 OFF.

W. P. 180 LBS D".

RETAIN

No. 3393
LLOYD'S TEST
360 lbs.
22317 CC



"Bapelcastle"

SUNDERLAND RPT. No. 27088

R. THOMPSON & SONS 291 3/4

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NOW
VINRIVER
W409 - 0154
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