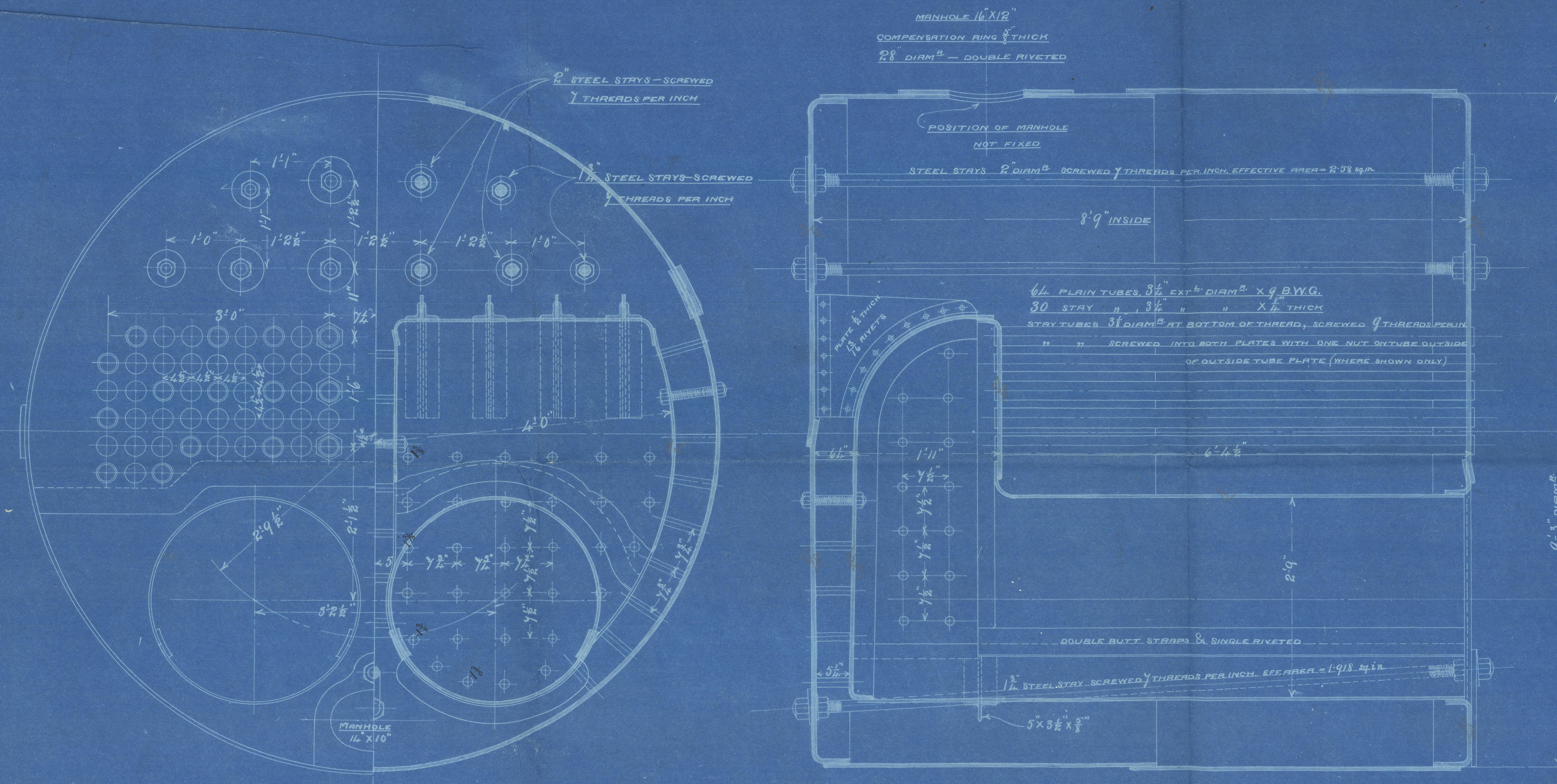


Lat 6:2:93



WORKING PRESSURE	LLOYD'S
PLATE SECTION	$\frac{5.75 - .9375}{3.75} = 75\%$
RIVET "	$\frac{2 \times .69 \times 1.75 \times 85}{3.75 \times .625} = 84\%$
CIRCUMFERENTIAL SHELL	$\frac{20 \times (10-2) \times 75}{111} = 108 \text{ lbs.}$
END UPPER PLATES	$\frac{18.5 \times 1.2^2}{14.5^2} = 126.8 "$
" " " STAYS	$\frac{2.33 \times 9000}{14.5^2} = 110.4 "$
OUTER TUBE "	$\frac{130 \times 1.2^2}{14.5^2} = 102.7 "$
STAY TUBES	$\frac{7.66 - .3937500}{(11.75 \times 10) - (2.25 \times 8.25)} = 131.2 "$
COMB ² CHAMBER, BACKS & SIDES	$\frac{120 \times 7.3^2}{7.75^2} = 112.3 "$
" " STAYS (ORDINARY)	$\frac{.98 \times 5000}{7.75 \times 7.5} = 134.8 "$
" " " [BACK MARGINAL]	$\frac{1.25 \times 8000}{7.5 \times 10} = 133.3 "$
FURNACES	$\frac{32600 \times .5^2}{6.3 \times 8.4} = 104.5 "$
" COMPRESSION	$\frac{8000 \times .5^2}{3.4} = 117.6 "$

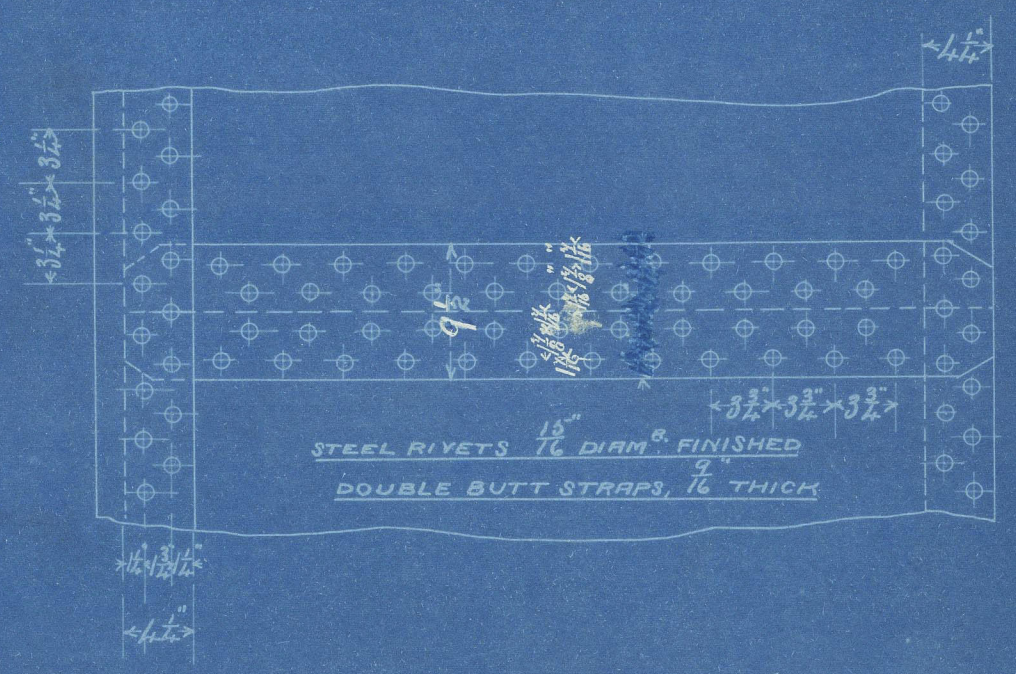
THICKNESS OF PLATING	
CIRCUMFERENTIAL SHELL	STEEL 5/8" THICK
STAYS FOR "	" 3/16 "
END UPPER PLATES	" 3/4 "
BACK LOWER "	" 5/8 "
FRONT "	" 5/8 "
INNER TUBE PLATE	" 5/8 "
FIREBOX SIDES & BACKS	" 5/2 "
FURNACES	" 1/2 "

FIREBOX STAYS OF STEEL, SCREWED 10 THREADS PER INCH

ALL ARE 1 1/4" DIAM² EXCEPT BACK MARGINAL ROWS WHICH ARE TO BE 1 1/8" DIAM²

EFFECTIVE AREA OF 1 1/4" STAYS = 98 sq. in.

" " 1 1/8" " = 125 " "



—BOILER NO 3/93—

SCALE 1" = 1 FOOT

DIAMETER=9'3". LENGTH=8'9". WORKING PRESSURE=100 LBS PER SQ. IN.

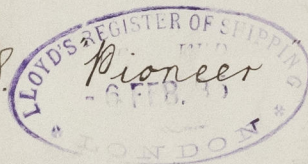


ASME-9055

^{abn}
Main Boiler Tracing
Messrs Hall Russell & Co.

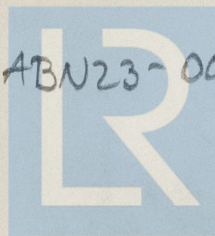
S. S. No. 3/93

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Lloyd's Register
Foundation