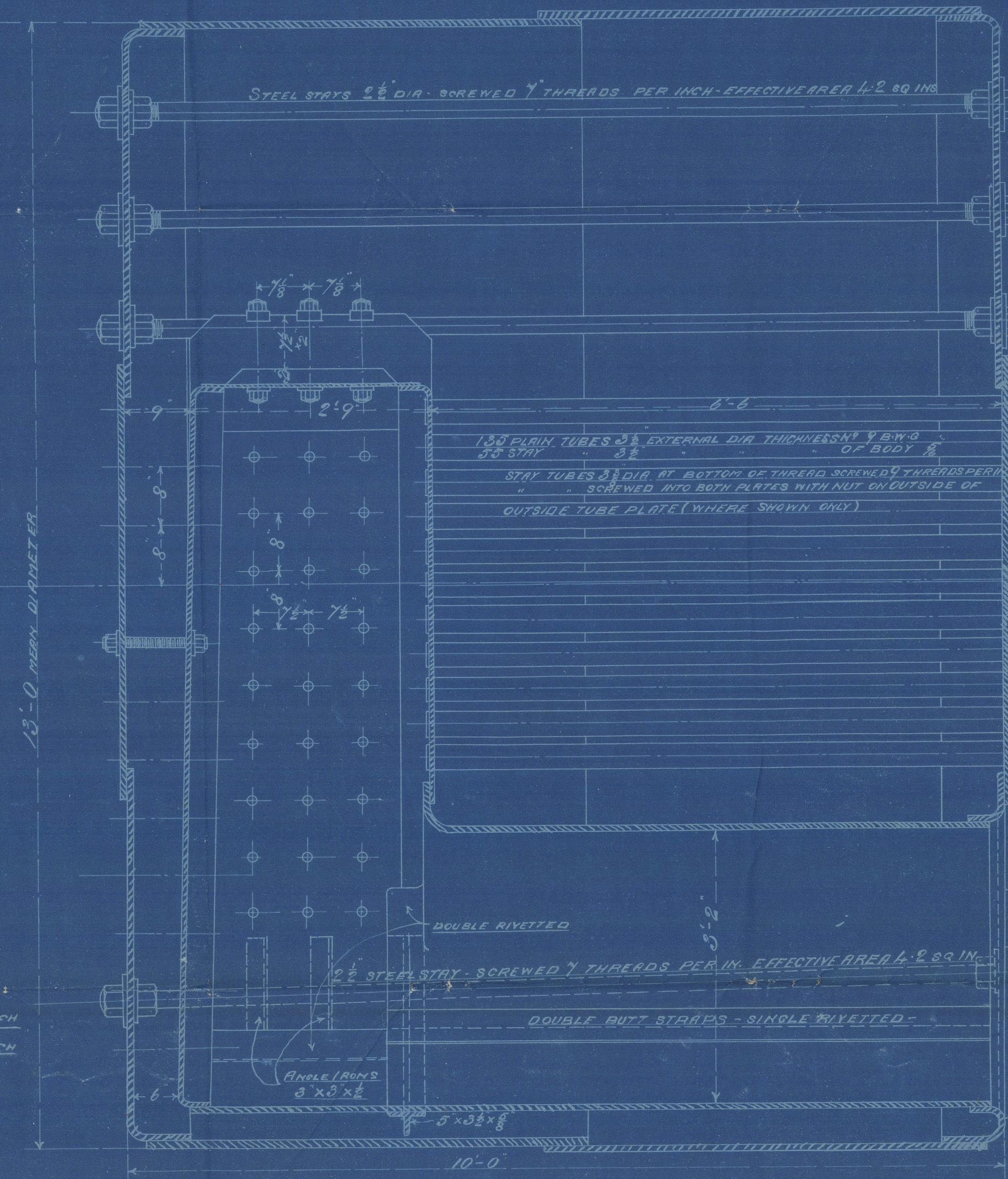


BOILER N° 3-98 S. S. "CLENCELDER"

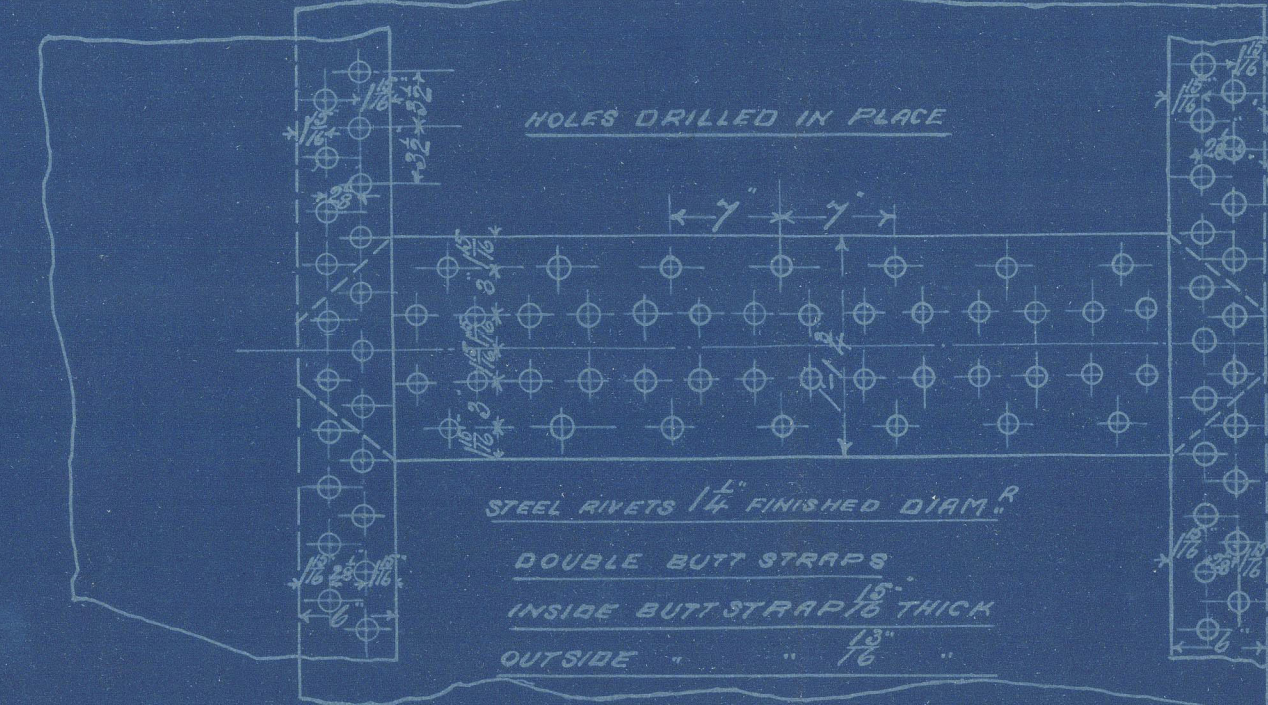
SCALE 1/4" TO ONE FOOT

DIAMETER - 13'-0" LENGTH - 10'-0" WORKING PRESSURE 14.0 LBS PER SQ. IN.

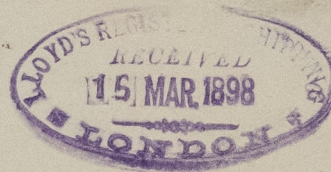


THICKNESS OF PLATING	
CIRCUMFERENTIAL SHELL STEEL	1/8" THICK
STAYS FOR D°	INSIDE 1/8" OUTSIDE 1/8"
END UPPER PLATES	1/8"
BACK LOWER	1/8"
FRONT	1/8"
TUBE	1/8"
INNER	1/8"
FIREBOX BACKS	1/8"
SIDES	1/8"
TOPS	1/8"
GIRDERS - IRON TWO	1/8"
FURNACES	STEEL 1/8"
SURFACES	
TUBES 1900	6'-6" = 1131.6 SQ. FT.
FURNACES	= 109.6 "
FIREBOXES	182.6 "
INNER TUBE PLATE	33 "
TOTAL	1456.8 SQ. FT.
GRATE SURFACE	50 BARS = 475 SQ. FT.

WORKING PRESSURE	LLOYD'S
PLATE SECTION	7/16" = 82.1%
RIYET	3/16" x 1/16" x 85 = 83.4%
CIRCUMFERENTIAL SHELL	216 (16.5) 85 = 140.6 LBS
END UPPER PLATES	185 x 14.2 = 14.1
STAYS	17 x 16 = 14.8
OUTER TUBE PLATE	150 x 14.2 = 14.4
STAY TUBES	(8.94 - 7.06) 7800 = 140.9
COMBUSTION CHAMBER TOPS	(2.25 x 14.2) = 14.0
SIDES	120 x 8.5 = 14.4
BACKS	120 x 8.5 = 14.4
STAYS (ORDINARY)	120 x 8.5 = 14.4
(MARGINAL)	120 x 8.5 = 14.4
GIRDER	120 x 8.5 = 14.4
TOP	120 x 8.5 = 14.4
FURNACES	120 x 8.5 = 14.4
COMPRESSION	120 x 8.5 = 14.4



16-98



Main Boiler
for the
S.S. Glen Gelder
Hall Russell
No $\frac{3}{98}$
Wⁿ Report no 6016



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Lloyd's Register
Foundation