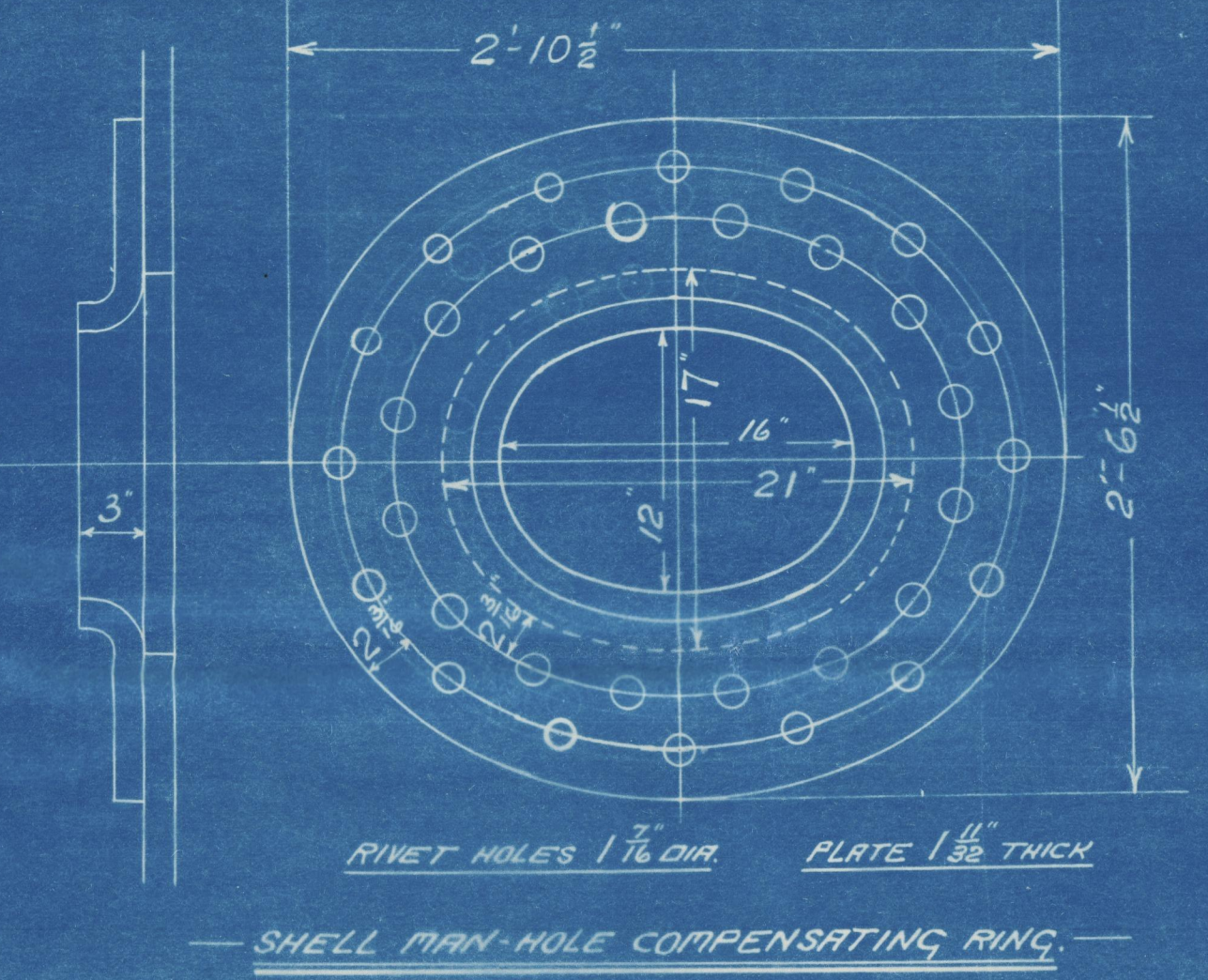
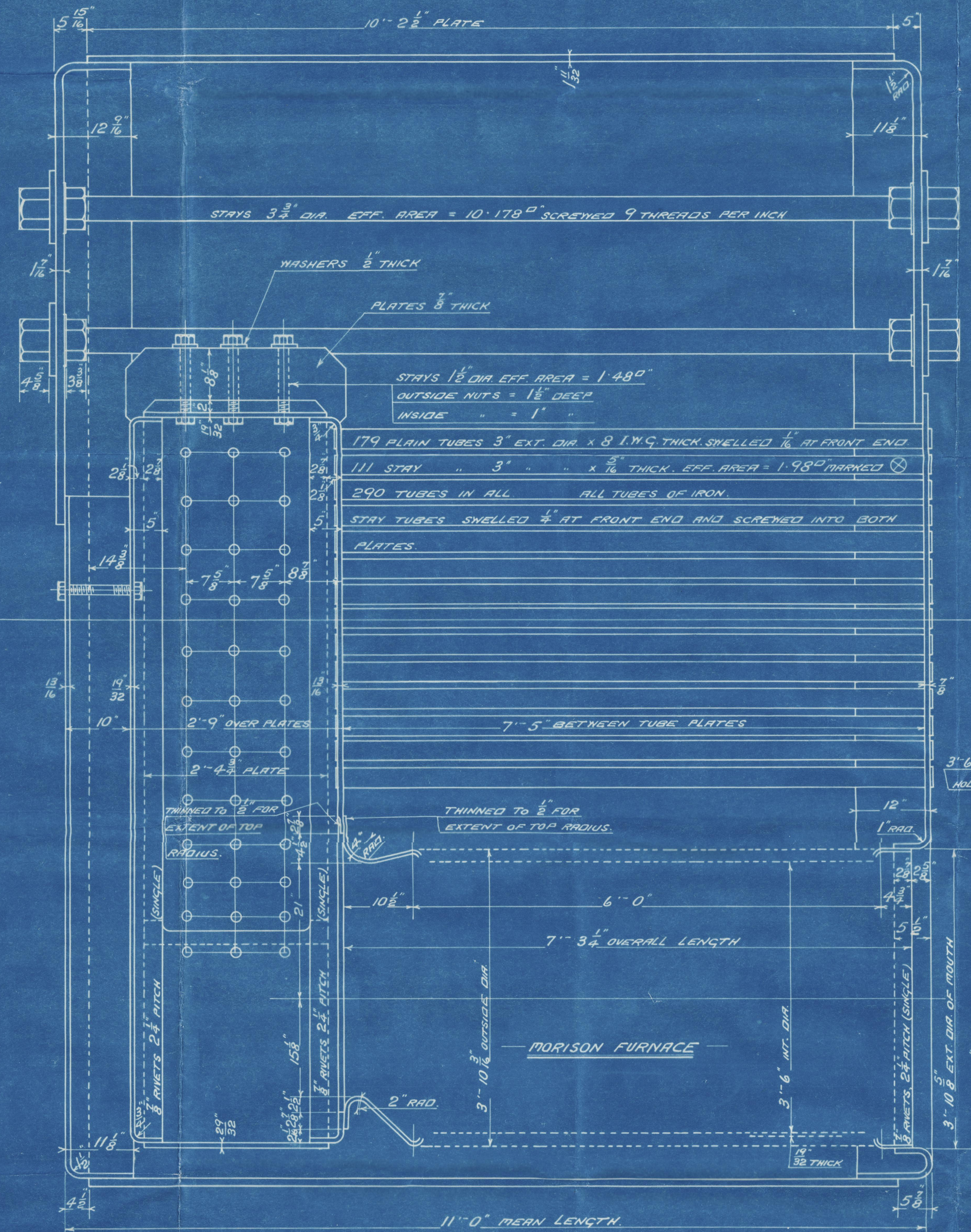





<u>SURFACES</u>		
TUBES		1690 ft.
FIREBOXES		263 "
FURNACES		143 "
TOTAL HEATING SURFACE		2096 "
GRATE AREA		57.75 "
TUBE " "		10.44 "
WATER " "		140 "
STEAM SPACE		405 ft. ³
RATIO GRATE AREA TO HEATING SURFACE		1 : 36.3 "
" " " " " TUBE " "		1 : 29.2 "
" " " " " AREA		5 : 53.1 "
" " " " " WATER " "		1 : 2.42 "
" " " " " STEAM SPACE		1 : 7 "
LENGTH OF FIREBARS		5'-6 "
% BOILER ABOVE FIREBOX		31.2 "
WEIGHT OF WATER		TONS 82 - 2 "



<u>LIMITS OF TENSILE STRENGTH.</u>	
SHELL, BUTTSTRAPS	28 " 32 TONS
CORR. RING & GIRDERS	
OTHER PLATES	26 " 30 "
FURNACES	26 " 30 "
MAIN STRAYS	28 " 32 "
SCREWED STRAYS	27 " 30 $\frac{1}{2}$ "
RIVET BARS	26 " 30 "



— WORKING PRESSURE 185 LBS PER SQ. INCH. —
— TO PASS BOARD OF TRADE & LLOYD'S SURVEYS. —
— SCALES, 1", 1 1/2" & 3" = ONE FOOT. —

TOP SIDES & BACK $1\frac{1}{2}$ " DIA. EFF. AREA = $1.490"$ MARGES 
BACK (OUTER ROWS) $1\frac{1}{2}$ " " " = $2.07"$ " " 
" (TOP CORNERS) $2"$ " " = $2.75"$ " " 
ALL STAYS SCREWED THIRD BOTH PLATES & NUT FITTED AT EACH
END EXCEPT WHERE OTHERWISE STATED ON DRAWING.
ALL $1\frac{1}{2}$ & $1\frac{3}{4}$ NUTS 1" DEEP EXCEPT ON GIRDER TOPS.
ALL 2" NUTS $1\frac{1}{2}$ " DEEP.

David Rowan &c

Q^e 490/1

Amended Plan.

St. "Helga"

GLASGOW R.H. No. 26752.

Wm "MUIRCU"

W996-0035



© 2020

Lloyd's Register
Foundation

From DAVID ROWAN & CO., GLASGOW.

ENCLOSURE

FOR

Messrs Lloyd's Surrogates
Foundation

W996-0035 (1/2)