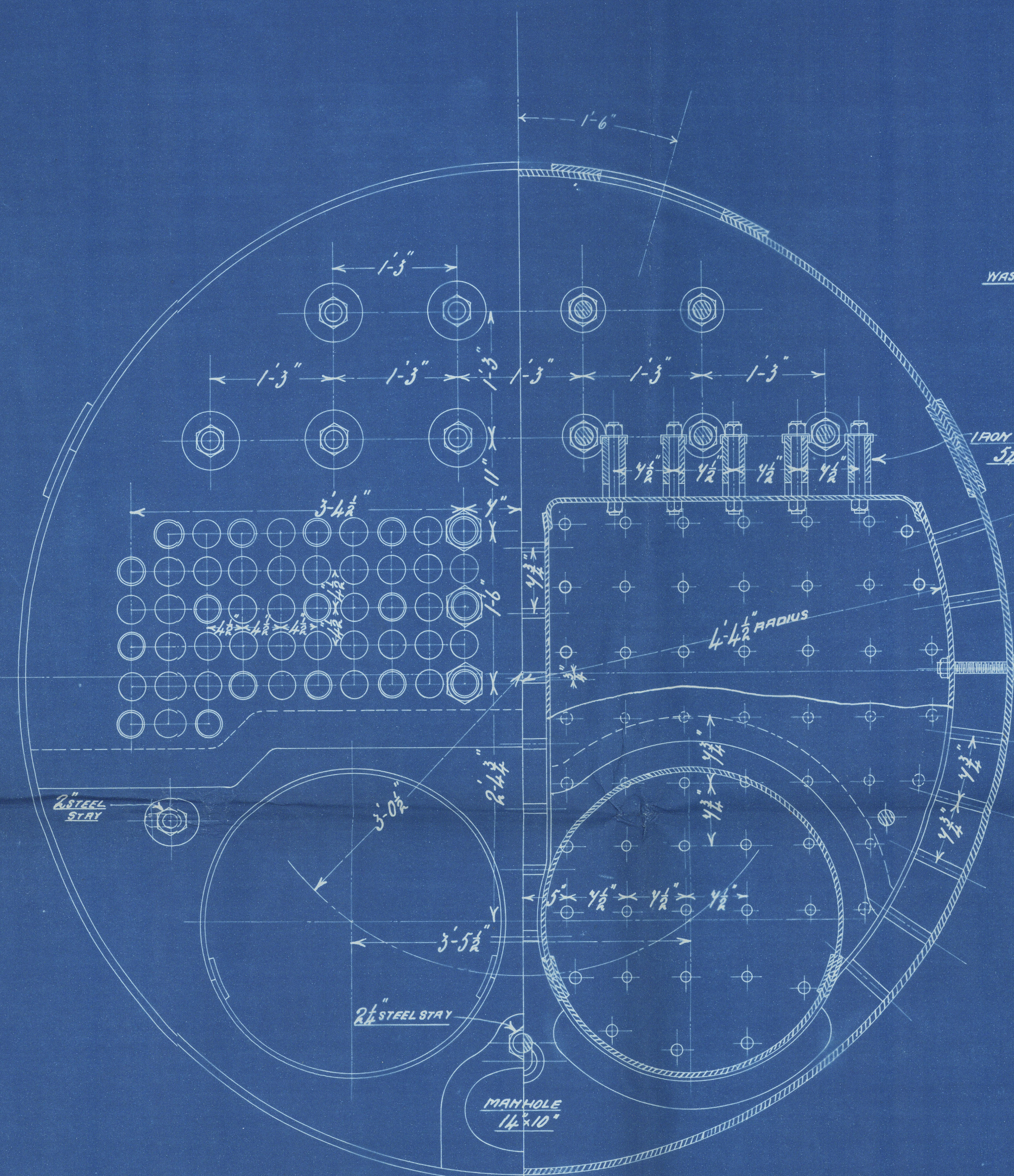
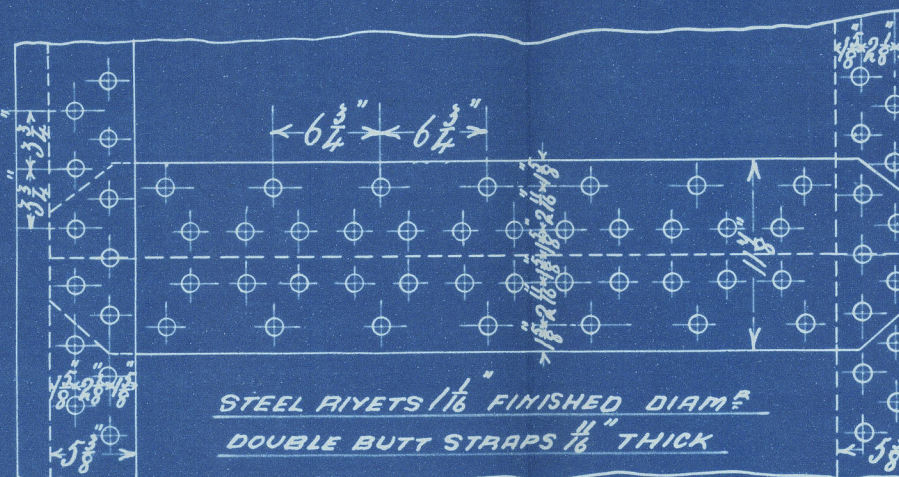
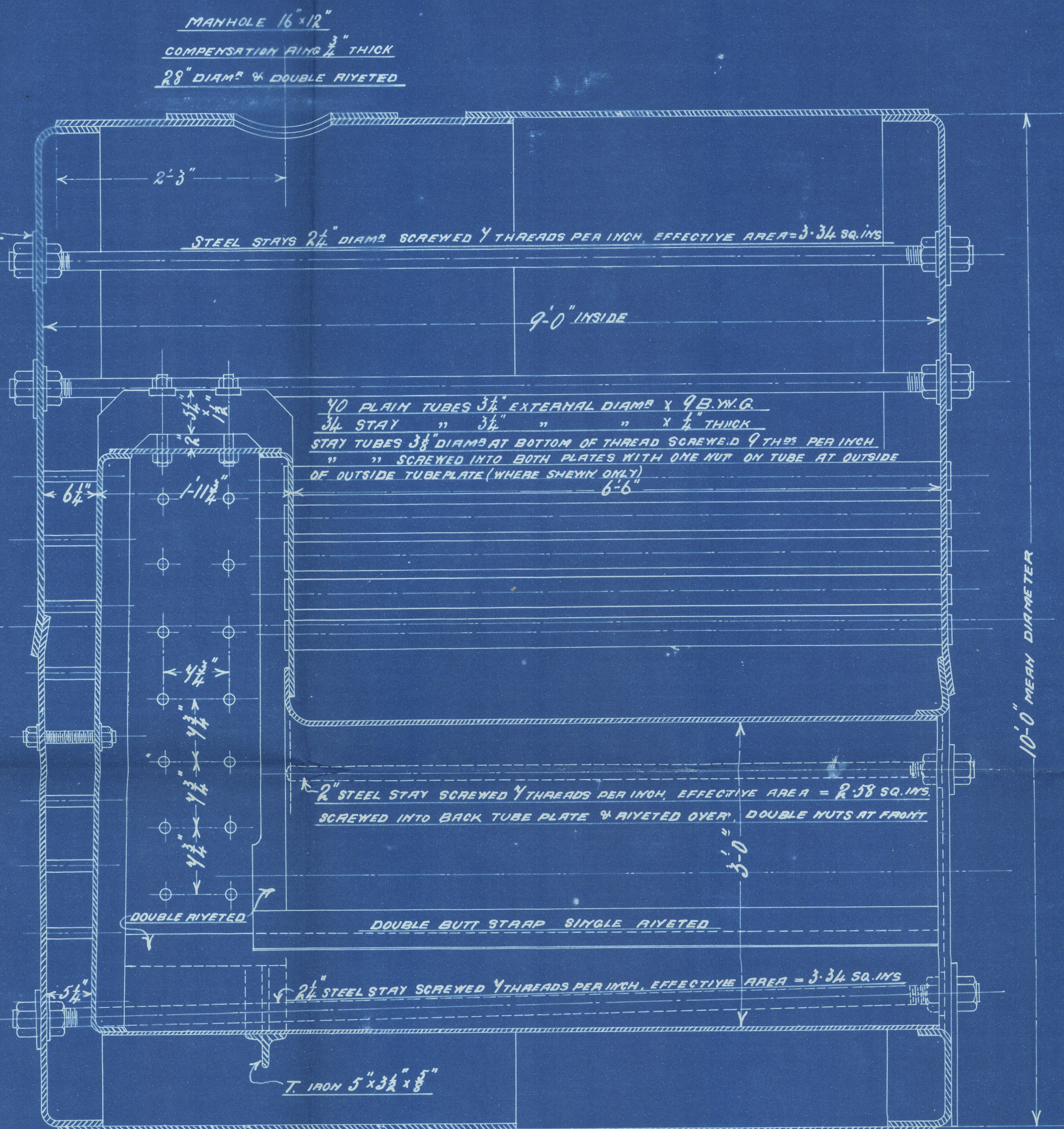


*This boiler is the same as No 294 (Wishaw) passed 30-5-1905*



FIREBOX STAYS OF STEEL, SCREWED 10 THREADS PER INCH.  
ALL ARE  $\frac{1}{4}$ " DIA EXCEPT BACK MARGINAL ROWS, WHICH  
ARE TO BE  $\frac{1}{8}$ " DIA.  
EFFECTIVE AREA OF  $\frac{1}{4}$ " STAYS = .98 SQ. IN.  
" " "  $\frac{1}{8}$ " " = 1.25 " "



# — BOILER N° 295-G —

SCALE 1 INCH TO ONE FOOT  
DIAMETER=10'-0" LENGTH=9'-0" WORKING PRESSURE=125 LBS PER SQ. IN.

— ONE OFF FOR EACH N° —

WORKING PRESSURE	LLOYD'S
PLATE SECTION	$\frac{6.45 \times 10685}{6.45} = 84.2\%$
RISET "	$\frac{3 \times 881 \times 1.45 \times 85}{6.45 \times 10685} = 85.2\%$
CIRCUMFERENTIAL SHELL	$\frac{80 \times (11-2) \times 84}{100} = 126 \text{ LBS}$
END UPPER PLATES	$\frac{185 \times 12.5^2}{100} = 128.4\%$
" " " STAYS	$\frac{3.34 \times 9000}{15.2} = 133\%$
OUTER TUBE PLATE	$\frac{150 \times 13^2}{14.5} = 129.3\%$
STAY TUBES	$\frac{(446-5.93) \times 1450}{(11.5 \times 10) \times (2.25 \times 8.20)} = 134\%$
COMBUSTION CHAMBER TOPS & SIDES	$\frac{120 \times 8^2}{4.75^2} = 124.8\%$
" " BACKS	$\frac{120 \times 8^2}{4.75^2} = 124.8\%$
" " STAYS (ORDINARY)	$\frac{98 \times 8000}{7.75^2} = 130\%$
" " " (BACK MARGINAL)	$\frac{1.254 \times 8000}{10 \times 4.75} = 129\%$
" " GIRDESS	$\frac{9000 \times 5.25 \times 5.25 \times 1.5}{(2.5 \times 10) \times (1.5 \times 12.5 \times 1.5)} = 130\%$
FURNACES	$\frac{8000 \times 5.9375^2}{6.5 \times 37.1875} = 130\%$
" COMPRESSION	$\frac{8000 \times 5.9375}{37.1875} = 140\%$

HEATING SURFACE	
TUBES 104 @ 6'-6" BETWEEN PLATES	5455 SQ. FT.
FURNACES TO 3" BELOW CENTRE	698 " "
FIRE BOXES	88 " "
INNER TUBE PLATES	16 " "
TOTAL	748.8 SQ. FT.
GRATE SURFACE 4'-6" BARS	24 SQ. FT.

THICKNESS OF PLATING	
CIRCUMFERENTIAL SHELL	STEEL $\frac{11}{16}$ " THICK
STRAPS FOR " "	" $\frac{11}{16}$ "
END UPPER PLATE FRONT	" $\frac{11}{16}$ "
" " " BACK	" $\frac{25}{32}$ "
FRONT LOWER "	" $\frac{11}{16}$ "
BACK " "	" $\frac{11}{16}$ "
INNER TUBE "	" $\frac{11}{16}$ "
FIRE BOX SIDES, TOPS & BACKS	" $\frac{1}{2}$ "
" GIRDESS	TWO IRON $\frac{1}{2}$ "
FURNACES	STEEL $\frac{11}{16}$ "



ABN24-0172



Steel Main Bolts  
for

Prof. Hall Russell & Co

S.D. No 295 & 6

Duplicate of S.D. No  
294

125 lbs per sq. inch

" Craigellachie S.D. No 295-

" Craig Gowan S.D. No 296

Abn no 5120.

ABN24- 0172



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