

—SCALE $1\frac{1}{2}" = 1$ FOOT.

HEATING SURFACE	
TUBES	416 Sq.Ft.
PLATE	84 Sq.Ft.
TOTAL	500 Sq.Ft.
GRATE AREA	22.5 Sq.Ft.

—LLOYDS.—

PLATE	$\frac{2.583 - .84375}{2.583} \times 100$	=	67.3%
RIVETS	$\frac{(.5591 \times 2) - .85}{2.67 \times 5}$	=	71.1%
FRONT TUBE PLATE	$\frac{4 - 2.59375}{4} \times 100$	=	35.2%
BACK TUBE PLATE	$\frac{4 + 2.5}{4} \times 100$	=	37.5%
SHELL	$\frac{20.5(8 - 2)}{78}$	=	106 LBS.
FRONT TUBE PLATE	$\frac{20.5(13 - 2)}{2 \times 36.375} \times \frac{26}{28}$	=	101.3 LBS.
BACK TUBE PLATE	$\frac{20.5(11.5 - 2)}{2 \times 32.75} \times \frac{26}{28}$	=	103.5 LBS.
FURNACE	$\frac{10000 + 5625}{66}$	=	102.2 LBS.

PLATE	$\frac{.673 \times 2 \times 28 \times 2240}{78 \times 4} (5-.04)$	= 124.5 LBS
RIVETS	$\frac{2 (78 \times .5591 \times 24 \times 2240)}{78 \times 2 \times .67 \times 5}$	= 115.4 LBS
FRONT TUBE PLATE	$\frac{104.00 \times .8125 (4-.259375)}{23.875 \times 4}$	= 125 LBS
BACK TUBE PLATE	$\frac{104.00 \times .71875 (4-.25)}{23.875 \times 4}$	= 117.5 LBS
FURNACE	$\frac{600 (9-.3)}{33}$	= 109 LBS

Approved 11th Sept^r 1909

PATENT BOILER N° 5505

6'-6" x 14'-6" x 500# x 100 LBS.

SCALE 1 INCH TO 1 FOOT.

— SIEMENS MARTIN MILD STEEL PLATES —

TENSILE TESTS

PLATES NOT EXPOSED TO FLAME OR FLANGED	28 to 32 TONS
PLATES EXPOSED TO FLAME OR FLANGED, EXCEPT FCE CROWN	26 to 30 TONS
FURNACE CROWN	26 to 29 TONS

DRAWING R Lloyd's Register Foundation

SURVEY:-LLOYDS.
STANDARD.

COCHRAN & CO. ANNAN LTD.
ENGINEERS & BOILERMAKERS
ANNAN, SCOTLAND.

W186-0076 (2/2)

COCHRAN & CO., LIMITED, LD.

Coiler No. 5505

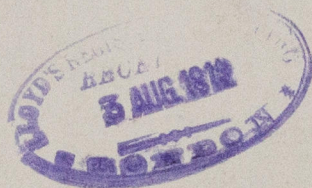
Drawing No. 7751

Messrs. Dunlop Bremner & Co.

E No. 270

GLASGOW REPORT No. 31262

"Kehrea"
St. Tregardt Ex 16301



W186 - 0076



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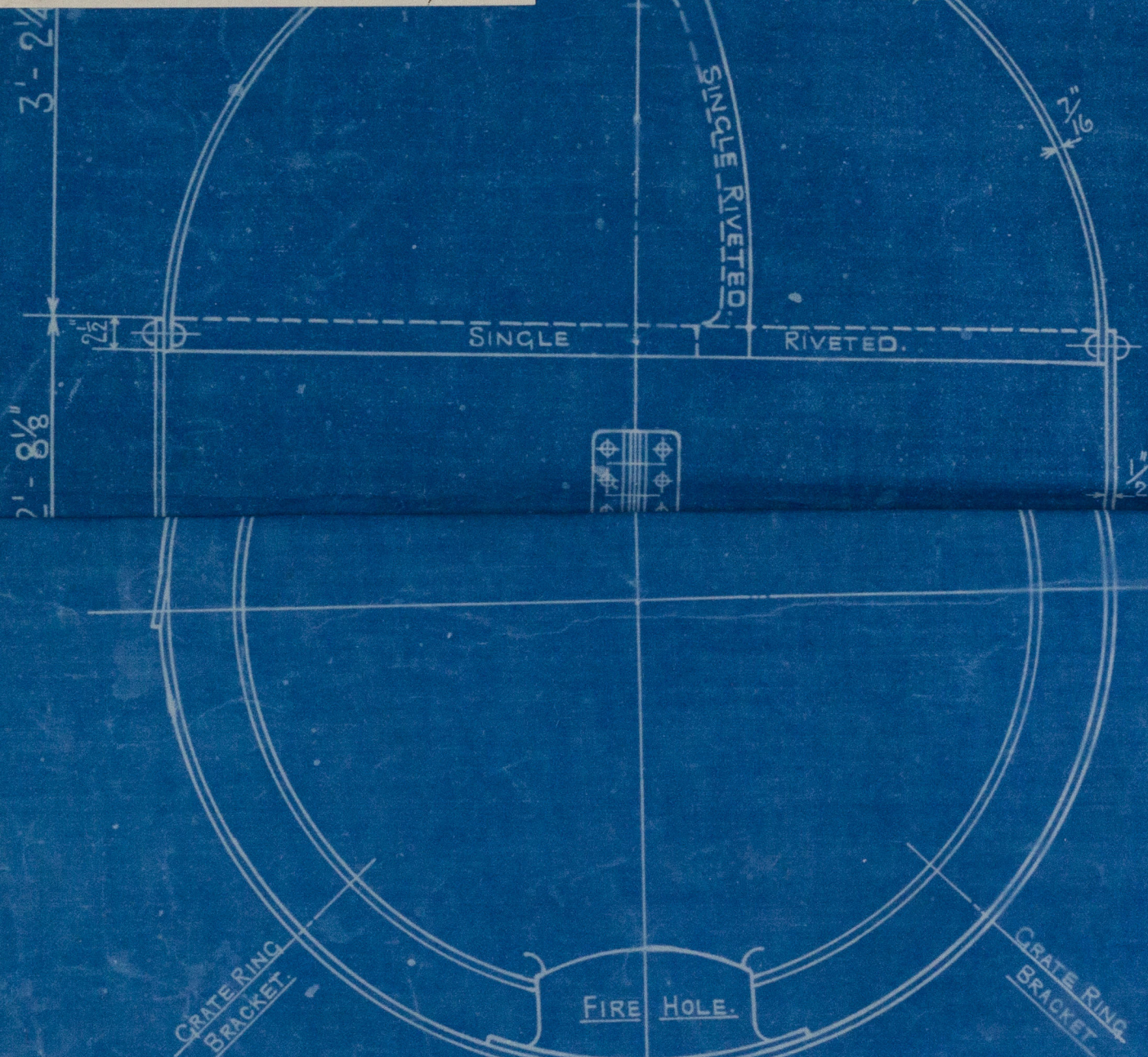
COCHRAN & Co., ANNAN, Ltd.

Enclosure.

FOR

Messrs

Lloyd's Registry



— PLAN OF FURNACE CROWN —

SURVEY:—LLOYDS.

STANDARD.



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