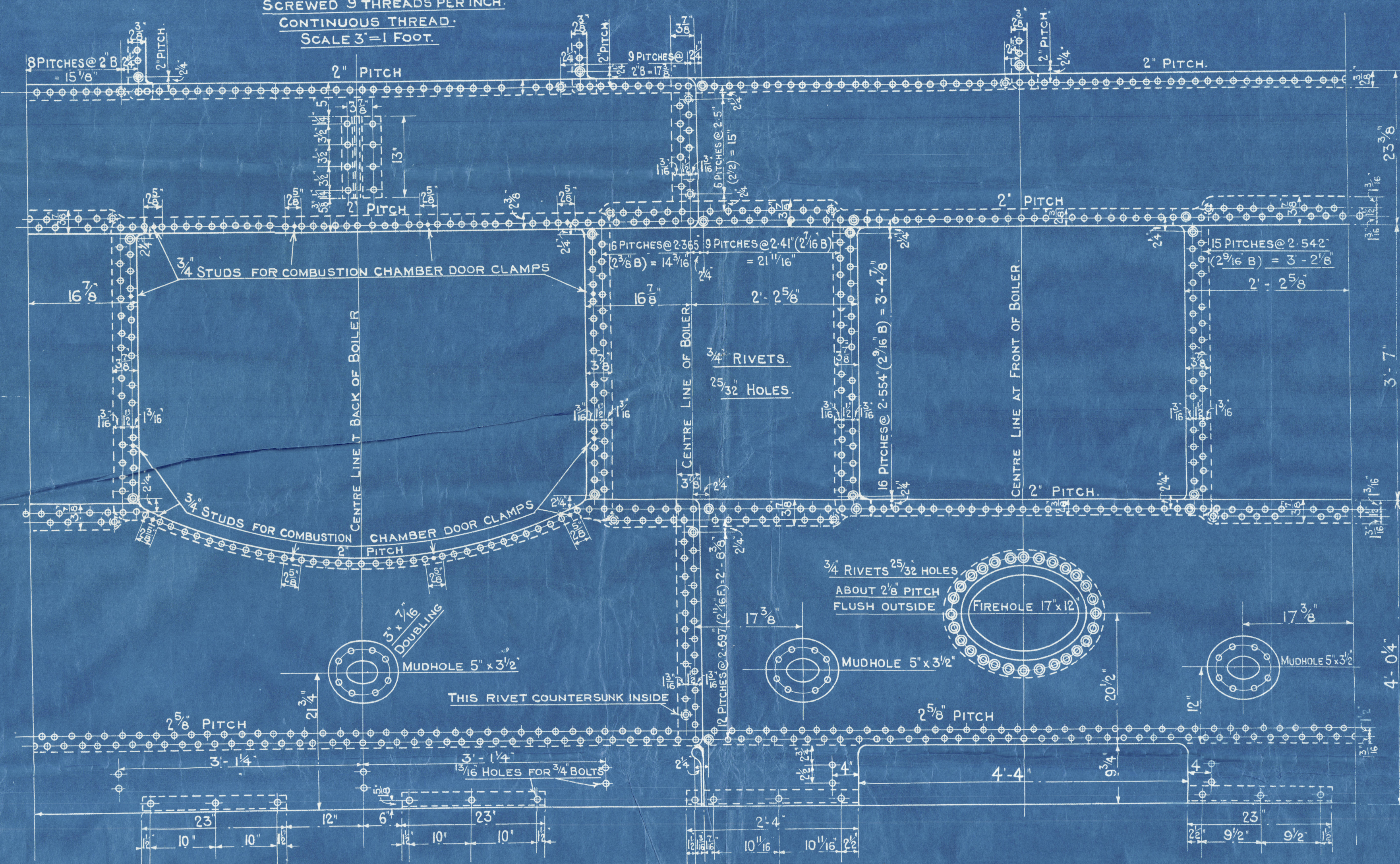
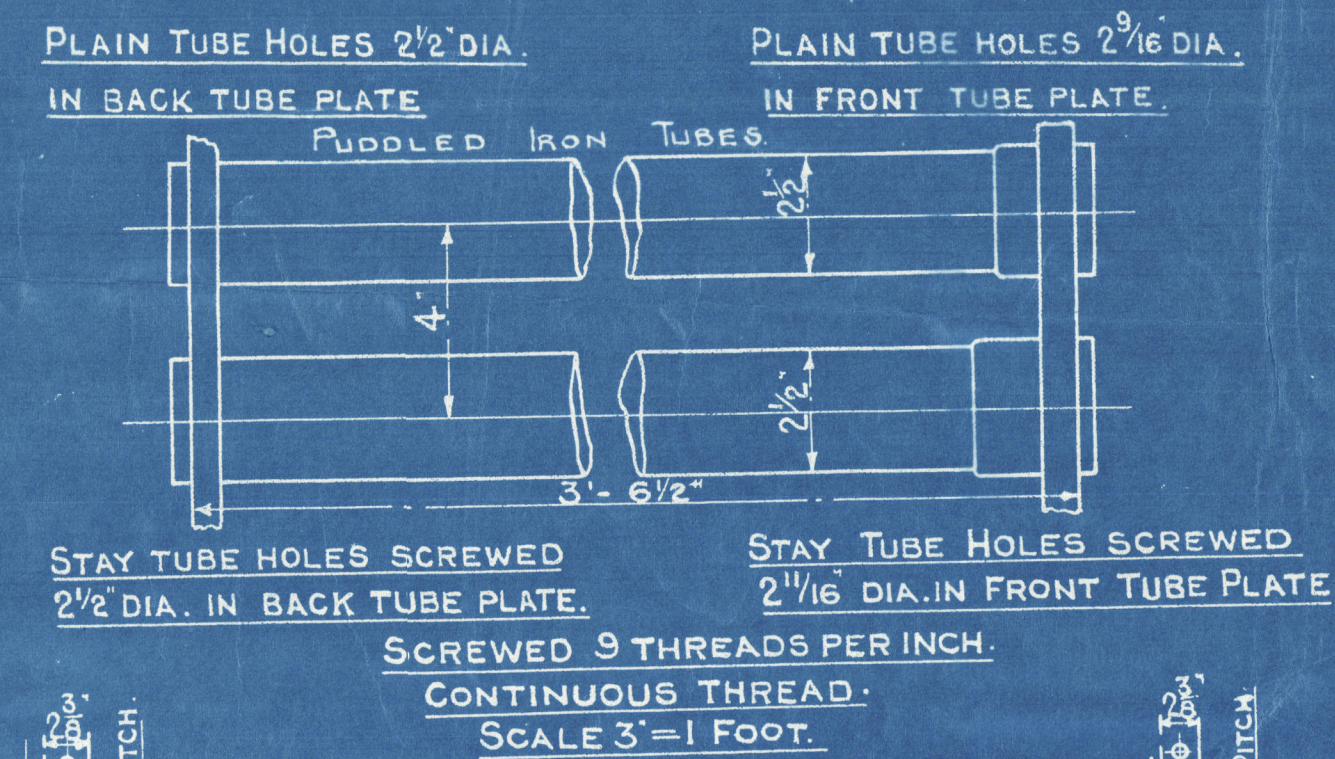


HORIZONTAL FLUE TUBES.



MANHOLE & MUDHOLE DOORS TO HAVE STUDS SCREWED THROUGH PLATES AND FITTED WITH NUTS INSIDE.

EVAPORATION FROM AND AT 212° F.

HEAVY STEAMING = 2600 LB. PER HOUR

EASY 17 = 1950

This Drawing similar to Dwg. N° 20857, approved in a
general way 21-6-35, but with Puddled Iron Tubes.

PATENT BOILER N^o ~~14098~~ 14109
5'-6" x 12'-3" x 300# x 100 LBS.

SCALE 1 INCH TO 1 FOOT.

SIEMENS MARTIN MILD STEEL PLATES.

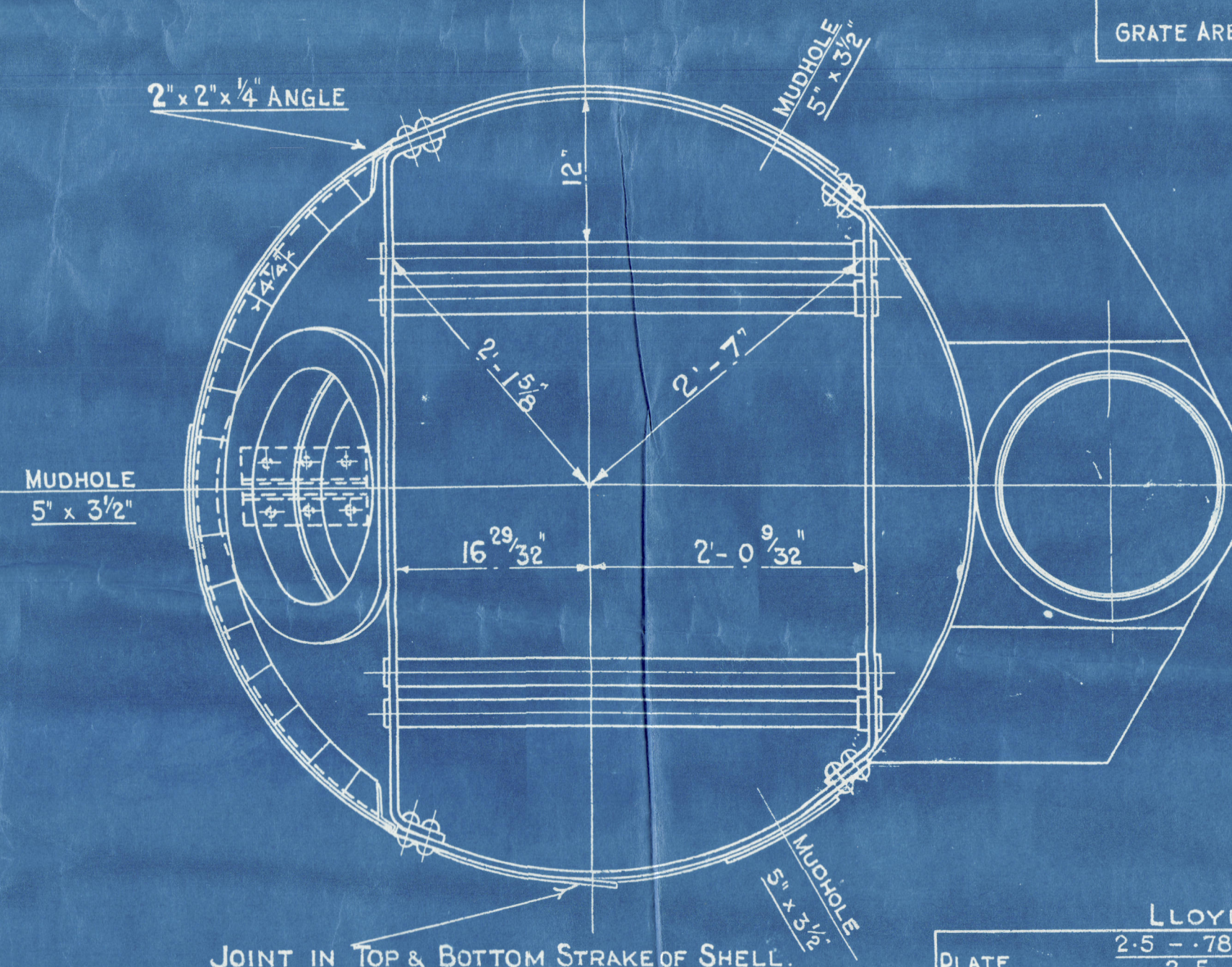
TENSILE TESTS.

PLATES NOT EXPOSED TO FLAME OR FLANGED:..... 28 TO 32 TONS.

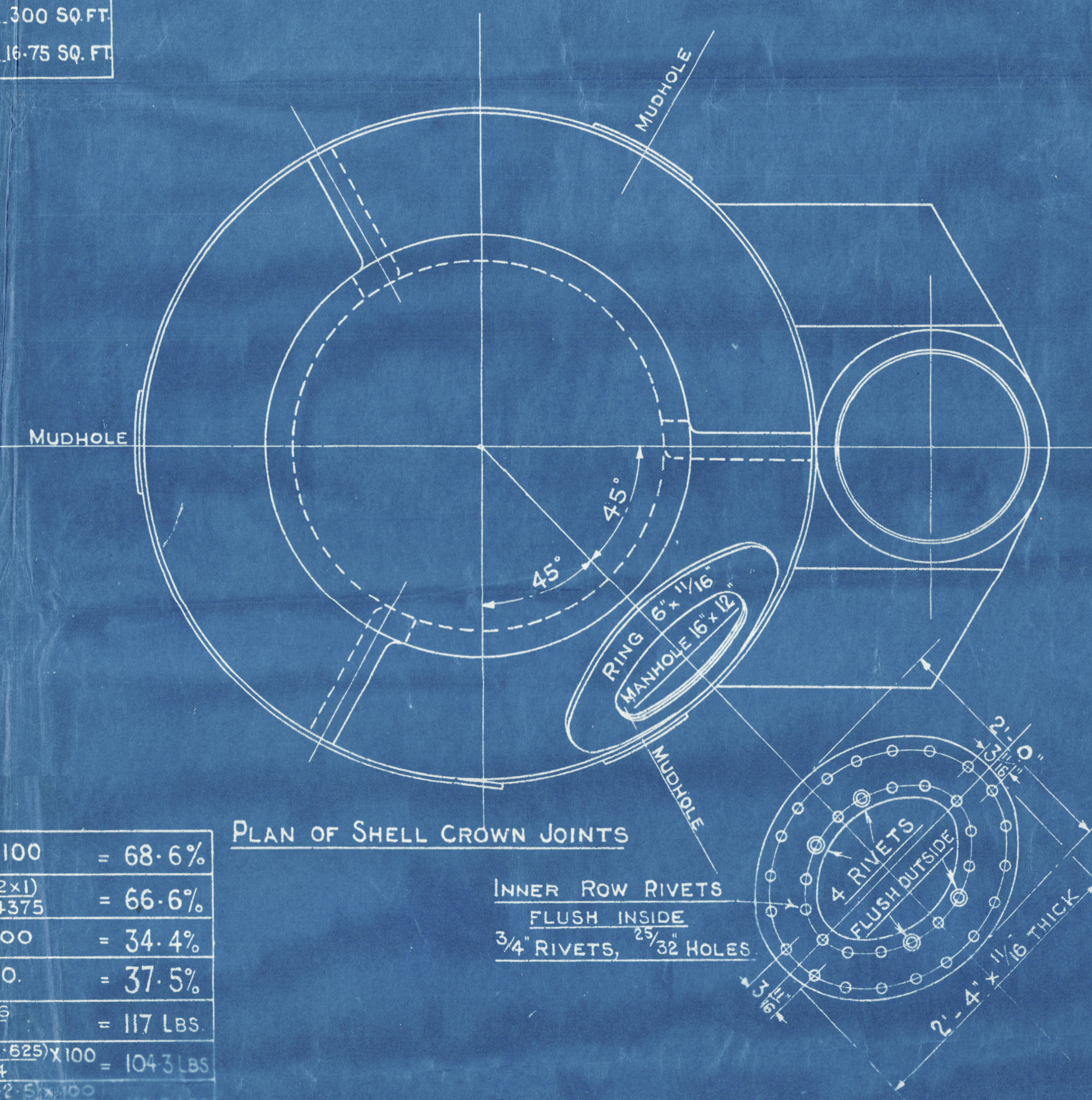
PLATES EXPOSED TO FLAME OR FLANGED & RIVETS 26 TO 30 TONS

DRAWING N° 20657

01657



PLAN OF FURNACE CROWN



PLAN OF SHELL CROWN JOINTS

Lays		
PLATE	$2.5 - 78125$ 2.5	$\times 100 = 68.6\%$
RIVETS	$100(23 \times 47937 \times 2 \times 1)$ $28 \times 6.697 \times 4.375$	$= 66.6\%$
FRONT TUBE PLATE	$4 - 2.625$ 2.5	$\times 100 = 34.4\%$
BACK TUBE PLATE	$4 - 2.5$ 2.5	$\times 100 = 37.5\%$
SHELL	$(4 - 2) \times 28 \times 6.6$ 2.9×66	$= 117 \text{ LBS}$
FRONT TUBE PLATE	$(23 \times 2) \times 4.7937 \times 2 \times 1$ $2.9 \times 68 \times 4$	$\times 100 = 104.3 \text{ LBS}$
BACK TUBE PLATE	$(28 \times 2) \times 6.697 \times 4.375$ $2.5 \times 512 \times 2.5$	$\times 100 = 151.8 \text{ LBS}$
FURNACE CROWN	143×125 28	$= 144.8 \text{ LBS}$
GEEG RING	143×125 $66 \times (66 - 57)$	$= 104 \text{ LBS}$

COCHRAN & CO ANNAN LTD
ENGINEERS & BOILERMAKERS
ANNAN SCOTLAND.

SURVEY:- LLOYDS.

14109

23319.



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Lloyd's Register

COCHRAN & CO., ANNAN, LD.

Boiler No. ~~14098~~
SUBSTITUTED 141098
Drawing No. 23319

Austin Tom

Yard no 350

s/s "Joseph Swan"

GLASGOW REPORT No 59854.

SUNDERLAND RPT. NO 32481

Letter with plan 141098



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