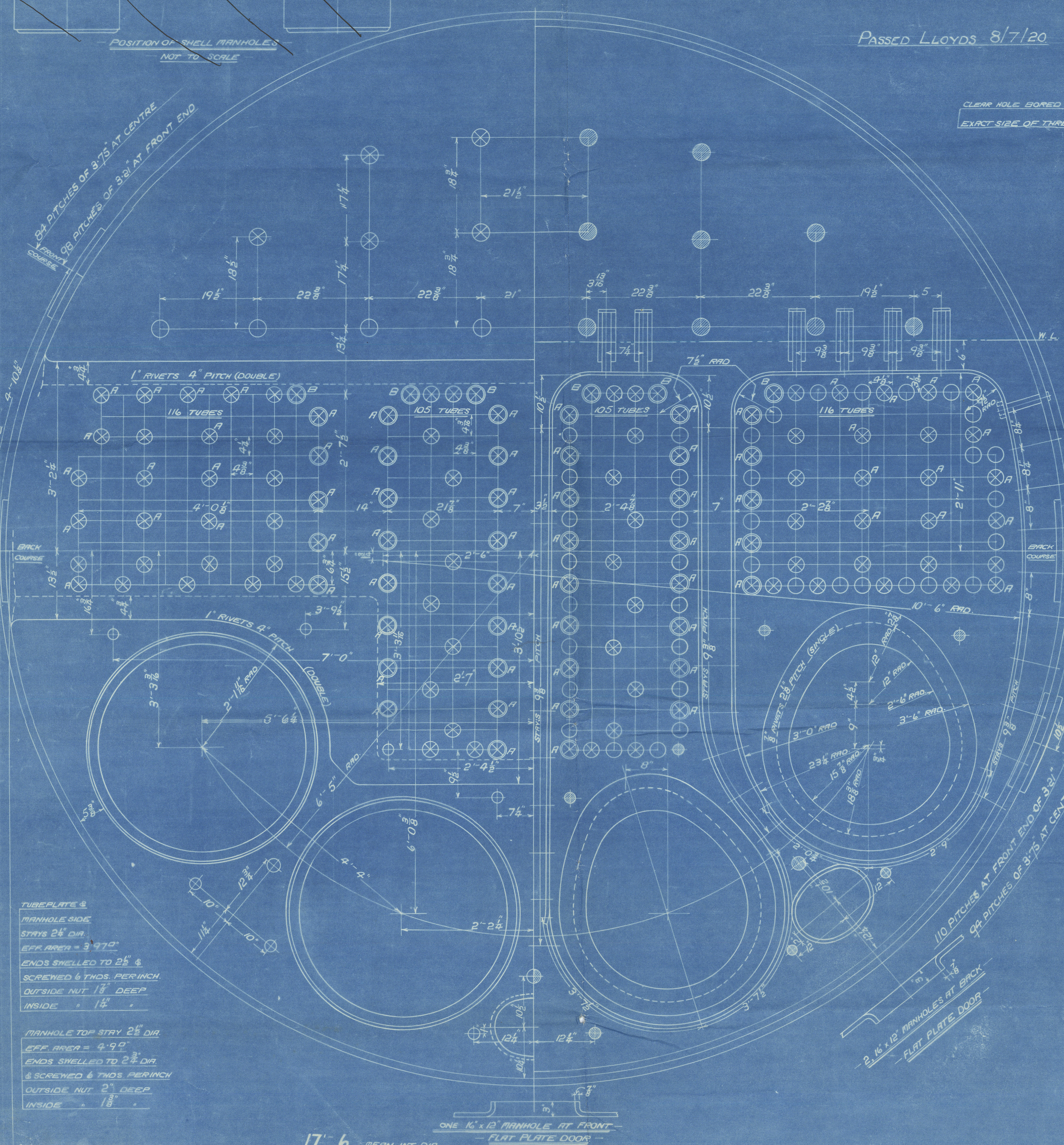
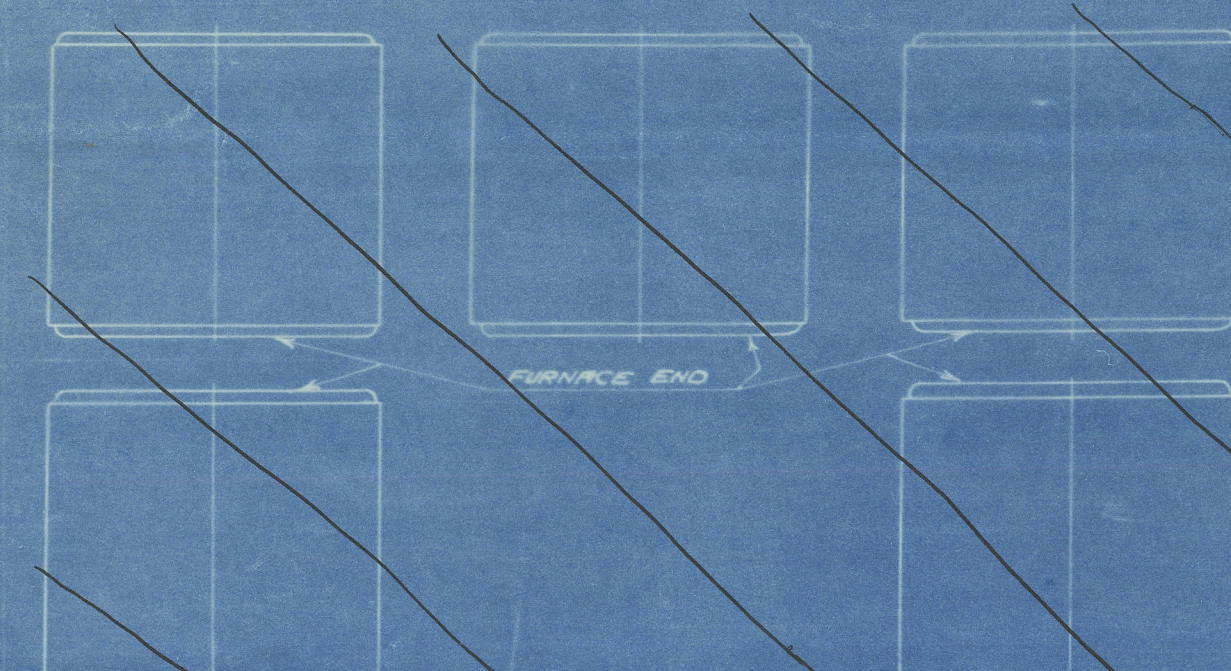


SURFACES	ONE BOILER	2 BOILERS
TUBES	2780	5560
FIREBOX TOP & SIDES	222	444
BACK	108	216
TUBESHEET	72	144
PLATE	206	412
TOTAL HEATING SURFACE	3388	6776
GRATE AREA (5' x 8' BARS)	77	154
TUBE AREA	164	328
WATER AREA	190	380
STEAM SPACE	728	1456
GRATE AREA	1	2
HEATING SURFACE	1	2
TUBE AREA	4.7	9.4
WATER AREA	1	2
STEAM SPACE	1	2
% BOILER ABOVE FIREBOX	33	66
WEIGHT OF WATER	34.2 TONS	68.4 TONS

RIVETING	LONG	BACK END CIRC	CENTRE CIRC	FRONT END CIRC
RIVET HOLE DIA	1 1/8"	1 1/8"	1 1/8"	1 1/8"
PITCH	9 3/16"	3 7/8"	3 7/8"	3 21/32"
% PLATE	85.23	65	65	63
% RIVET	90.3	47.2	47.2	44.3

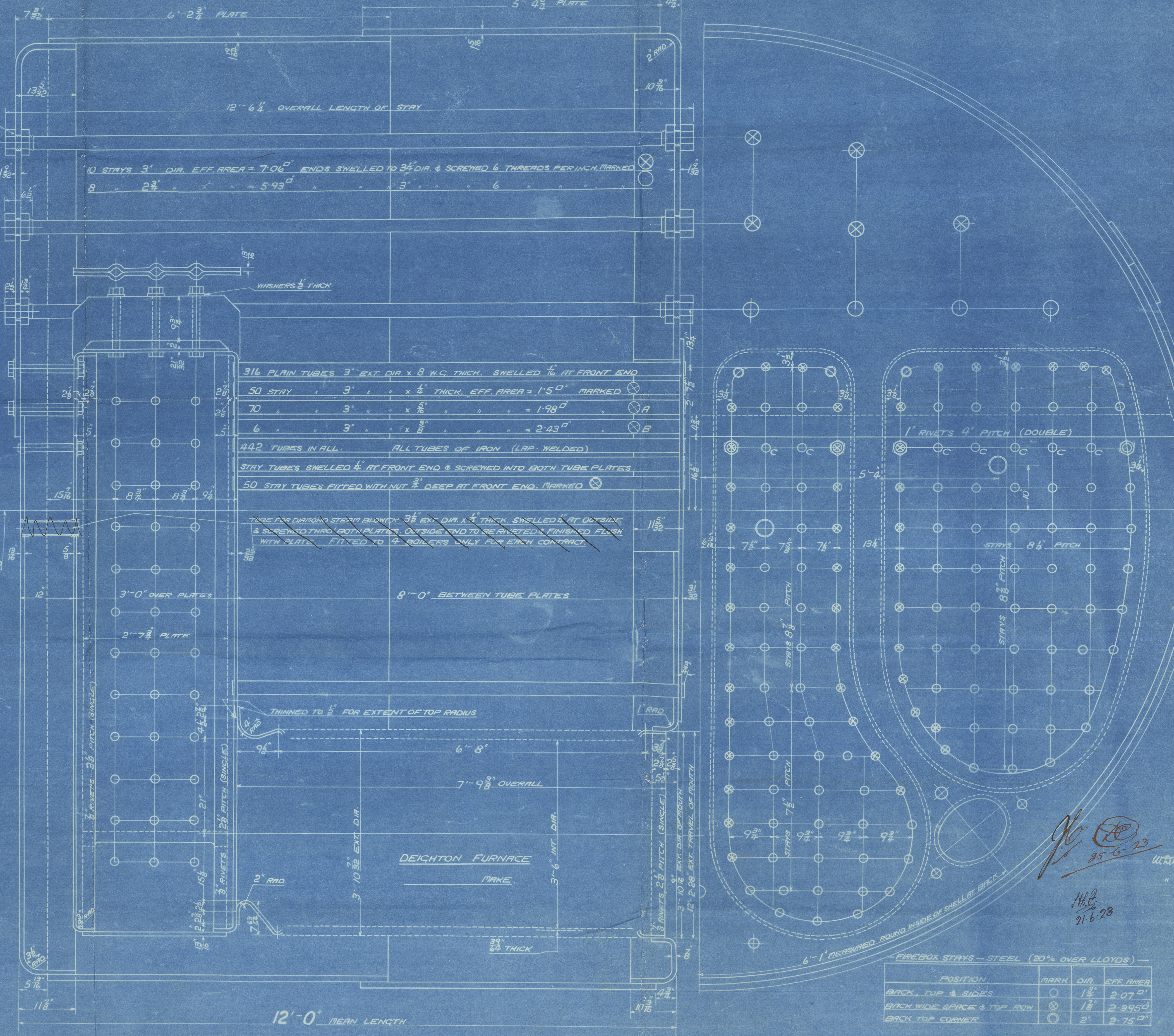
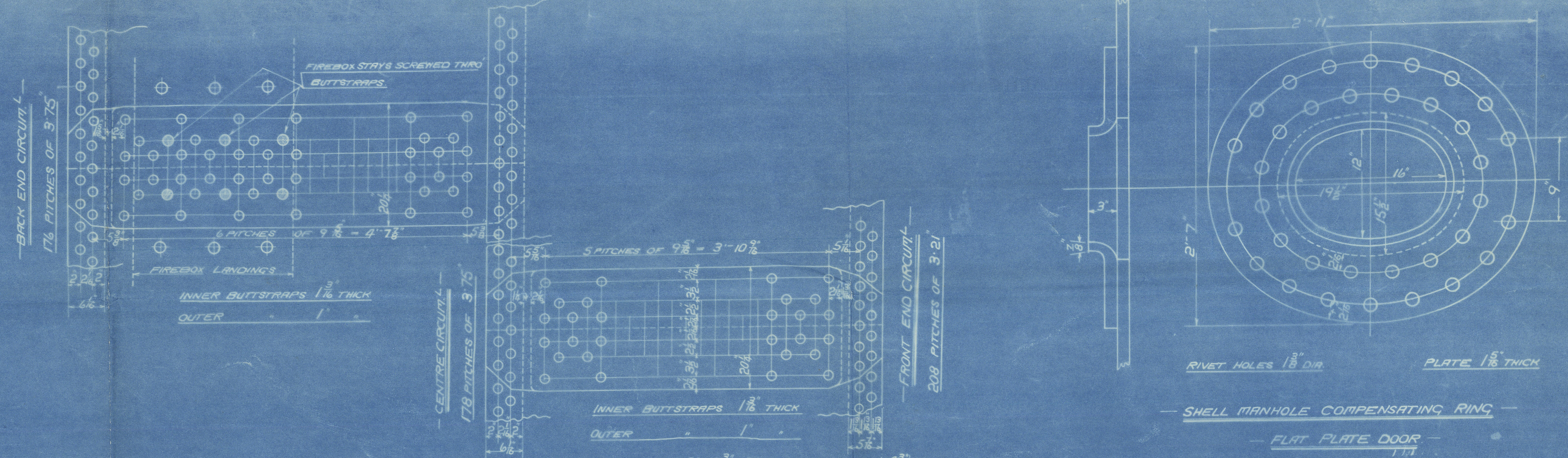
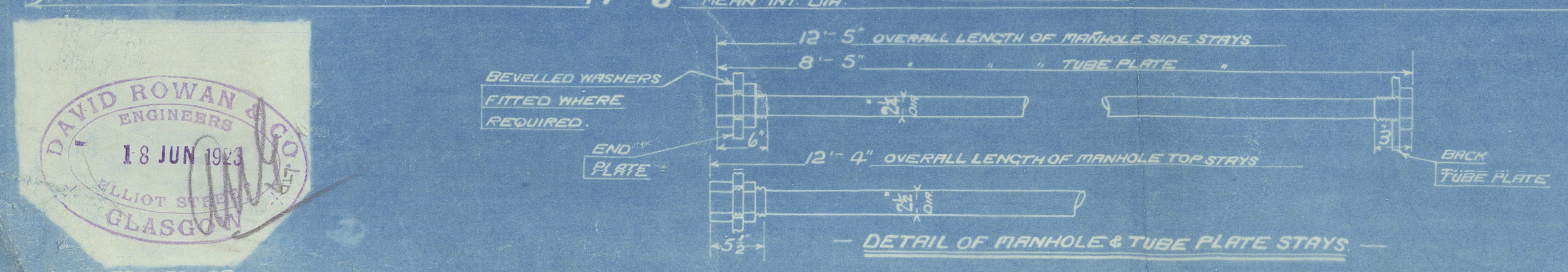
LIMITS OF TENSILE STRENGTH & MATERIAL	30 TO 34 TONS
SHELL & BUTSTRAPS	27
COMPENSATING RING	24
GIRDERS	24
OTHER PLATES	24
FURNACES	24
STAY STAYS	24
SCREENED STAYS	24
RIVET BARS	24

ALL RIVET HOLES DRILLED IN PLACE  
MAIN STAYS SHELL AT ENDS BY  
HYDRAULIC PRESSURE & ANNEALED



TUBESHEET & MANHOLE SIDE STAYS 2 1/2" DIA. EFF. AREA = 3.972" ENDS SWELLED TO 2 1/2" & SCREWED & NUTS PER INCH OUTSIDE NUT 1 1/2" DEEP INSIDE 1 1/2"

MANHOLE TOP STAY 2 1/2" DIA. EFF. AREA = 4.99" ENDS SWELLED TO 2 1/2" & SCREWED & NUTS PER INCH OUTSIDE NUT 2" DEEP INSIDE 1 1/2"



**MAIN BOILER**  
2 1/2" OFF FIREBOX CONTRACT  
CON<sup>TS</sup> N<sup>OS</sup> 671-674-788  
WORKING PRESSURE 180 LBS PER SQ INCH  
TO PASS LLOYDS SURVEY  
SCALE 1" = ONE FOOT

ALL FIREBOX BACK STAYS SCREWED THRU BOTH PLATES WITH NUT & WASHER FITTED AT EACH END, EXCEPT STAYS MARKED 'C' WHICH PROJECT 3" AND ARE CRANKED. ALL FIREBOX SIDE STAYS SCREWED THRU BOTH PLATES AND NUT FITTED AT EACH END, EXCEPT STAYS FROM WING FIREBOX TO SHELL WHICH PROJECT 3" AND ARE CRANKED. ALL 1 1/2" NUTS 1" DEEP EXCEPT ON GIRDER TOPS WHERE THE OUTSIDE NUT IS 1 1/2" DEEP. ALL 2" NUTS 1 1/2" DEEP.

O.T. 29926  
W1194-0003 2  
TRACED 28 JUNE 1920

DAVID ROWAN  
ENGINEERS  
18 JUN 1923  
GLASGOW



From DAVID ROWAN & CO., Ltd., Glasgow.

ENCLOSURE

FOR MESSRS.

*Layard*

W.1197-0003<sup>1</sup>/<sub>2</sub>

W1197-0003

D. Rowan & Co. Ltd.

Cont. N° 788

2 S. & B. Boilers

WP. 180 lbs/□"

W. HAMILTON & CO. LTD.

S/S N° 389

Boilers 2x674 (old Rules)

N° 16729

LLOYD'S TEST

320 LBS

WP-180 LBS

L.C.D. 16-2-25

M. V. Limerick "

GLASGOW REPORT No. 44830

RETAIN



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