

SURFACES	ONE BOILER	2 BOILERS
TUBES	2100	6300
FIREBOX TOP & SIDES	158	474
BACK	82	246
TUBEPLATE	55	165
FURNACES	161	483
TOTAL HEATING SURFACE	2556	7668
GRATE AREA (5" 6" BARS)	63.3	190
TUBE AREA	11.65	34.95
WATER	160	480
STEAM SPACE	514	1542
GRATE HEATING SURFACE	1:40.4	
TUBE	1:33.2	
AREA	5.43:1	
WATER	1:2.52	
STEAM SPACE	1:8.1	
% BOILER ABOVE FIREBOX	32.2	
WEIGHT OF WATER	26 TONS	79 TONS

RIVETING	LONG	BACK END CIRCLE	FRONT END CIRCLE
RIVET HOLE DIA	1 1/8"	1 1/8"	1 1/8"
PITCH	9 1/2"	9 5/4"	9 2/3"
% PLATE	85.6	63	63.3
% RIVET	88.3	51.9	46.5

LIMITS OF TENSILE STRENGTH & MATERIAL	28 TO 32 TONS
SHELL BUTTSTRAPS & GIRDERS	26 x 30
OTHER PLATES	26 x 30
FURNACES	26 x 30
CHAIN STAYS	26 x 30
SCREWED STAYS	26 x 30
RIVET BARS	26 x 30

ALL RIVET HOLES DRILLED IN PLACE
CHAIN STAYS SHELLED AT ENDS BY
HYDRAULIC PRESSURE AND ANNEALED

STAY BAR LIST			
NO	DESCRIPTION	LENGTH	DIA
30	STEAM SPACE	12'-8"	3 1/2"
6	MANHOLE TOP	12'-4"	2 1/2"
12	" SIDE	12'-4"	2 1/2"
18	TUBE PLATE	8'-6"	2 1/2"
9	FIREBOX	8'-0"	2 1/2"
19	"	8'-0"	2"
110	"	8'-0"	1 1/2"

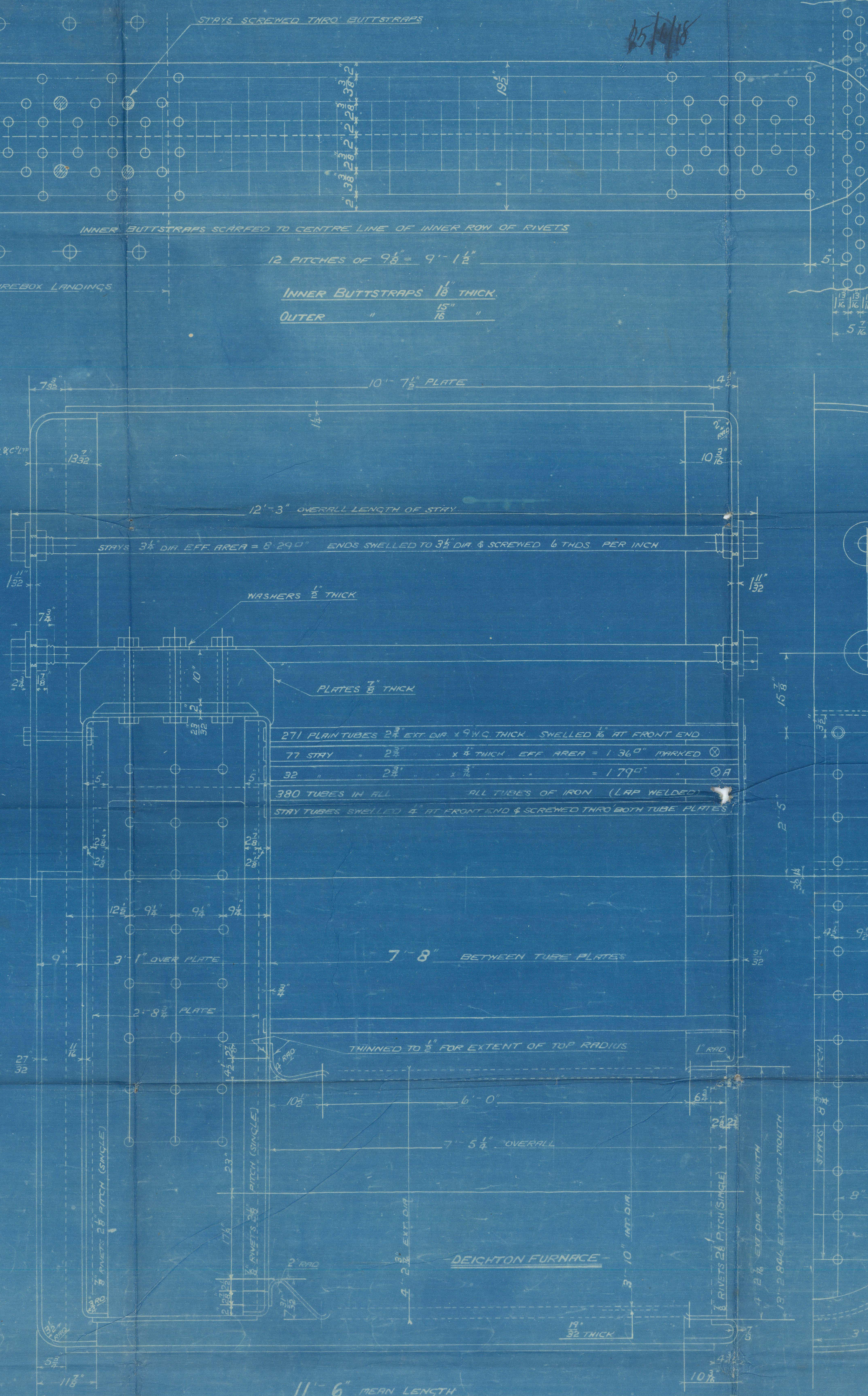
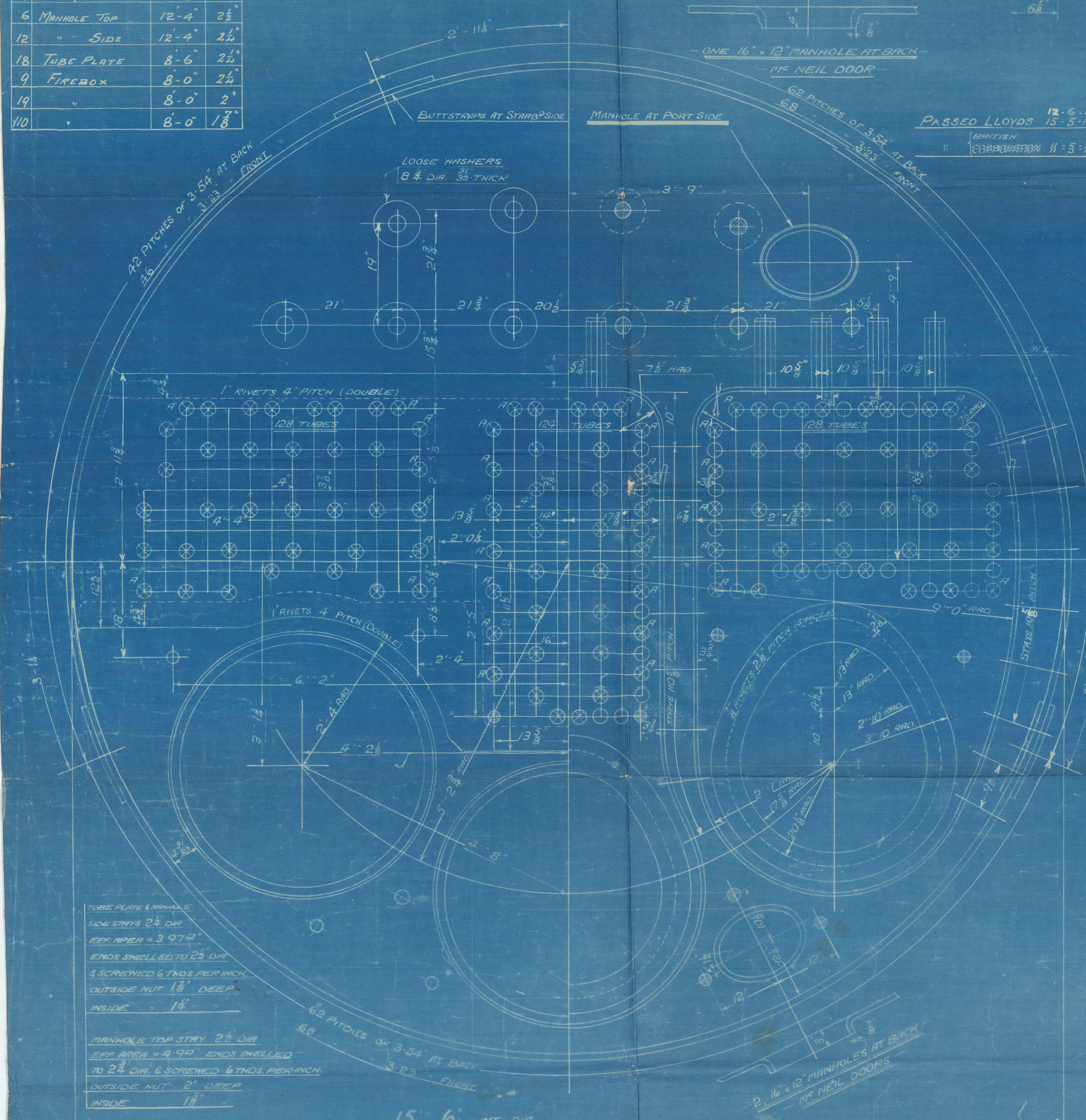


PLATE LIST	NO	DESCRIPTION	LENGTH	BREADTH	THICK
5	0	SHELL	12-5 1/2"	128"	1 1/4"
6	1	"	18-4 1/2"	"	"
9	2	BUTTS OUTER	10-7 1/2"	19 1/2"	1 1/8"
9	3	" INNER	10-0 1/2"	"	1 1/8"
60	4	GIRDERS	3-2"	14 1/2"	3 1/2"
3	5	FIREBOX WHEELER CS	25-8"	33 1/2"	3 1/2"
5	6	" HING	23-5"	"	"
3	7	TUBE PLATE CS	10-8 1/2"	58 1/2"	3"
6	8	" HING	8-7 1/2"	58 1/2"	1 1/2"
3	9	BACK CS	10-8 1/2"	58 1/2"	1 1/2"
6	10	" HING	8-7 1/2"	66"	3 1/2"
3	11	FRONT TUBE PLATE	17-1"	73"	3 1/2"
3	12	FRONT END TOP			1 1/2"
3	13	BACK END TOP			1 1/2"
3	14	FRONT END BOT			2 1/8"
3	15	BACK END BOT			2 1/8"

WORKMAN, CLARK & CO. LTD.
ENGINE DEPT BELFAST

DRAWING NO 21448 DATE 5-6-17
DRAWN BY D. P. G.
CHECKED BY
TRACING CHECKED BY

MAIN BOILER (SECOND SERIES)
3 OFF (THIRD DESIGN)

WORKING PRESSURE = 180 LBS PER SQ INCH
TO PASS LLOYDS SURVEY

SCALES 1" 9 1/2" = ONE FOOT

NOS 441-2-3-4-5 18/6/18

ALL FIREBOX STAYS SCREWED THRO' BOTH PLATES & NUT FITTED AT EACH END
EXCEPT STAYS FROM WING FIREBOX TO SHELL WHICH PROJECT 3/8" & ARE CHILLED
ALL 1 1/2" NUTS 1 1/2" DEEP EXCEPT ON GIRDER TOPS WHERE THE OUTSIDE NUTS ARE 1 1/2" DEEP

ALL 2" & 2 1/2" NUTS 1 1/2" DEEP

400 FT STANDARD VESSELS.

NOS 426-7



DAVID ROWE & CO'S
REFERENCE
O.T. 23500
TRACED 7th MARCH 1917

Belfast

Wankman Clark & Co

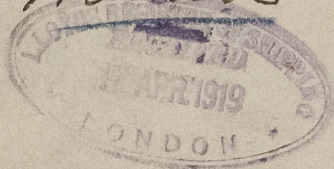
SS 441-2-3-4-5

Main Boiler:

B Standard Type

SS 426-7

S.S. Munera Bel 8138



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