

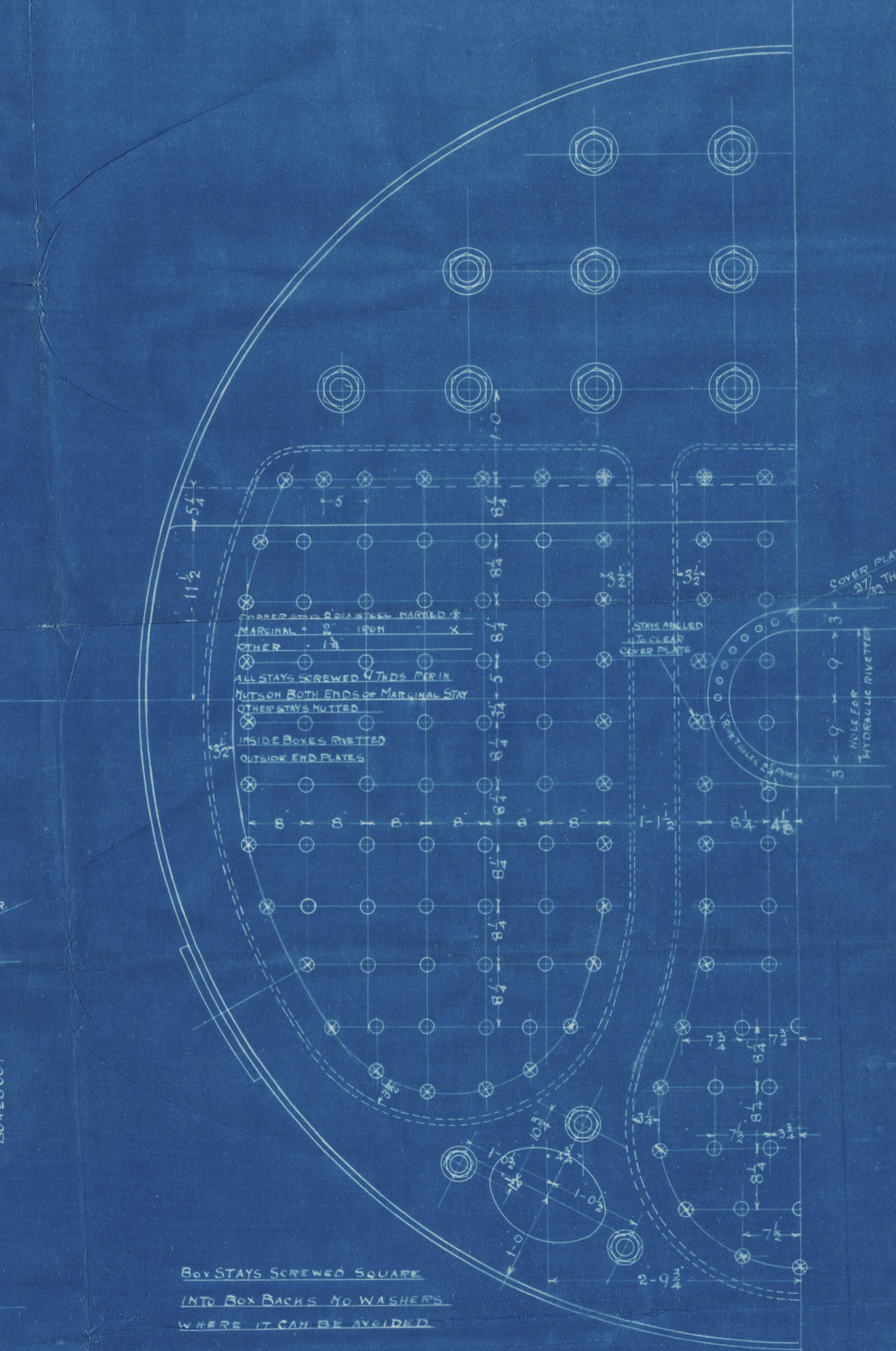
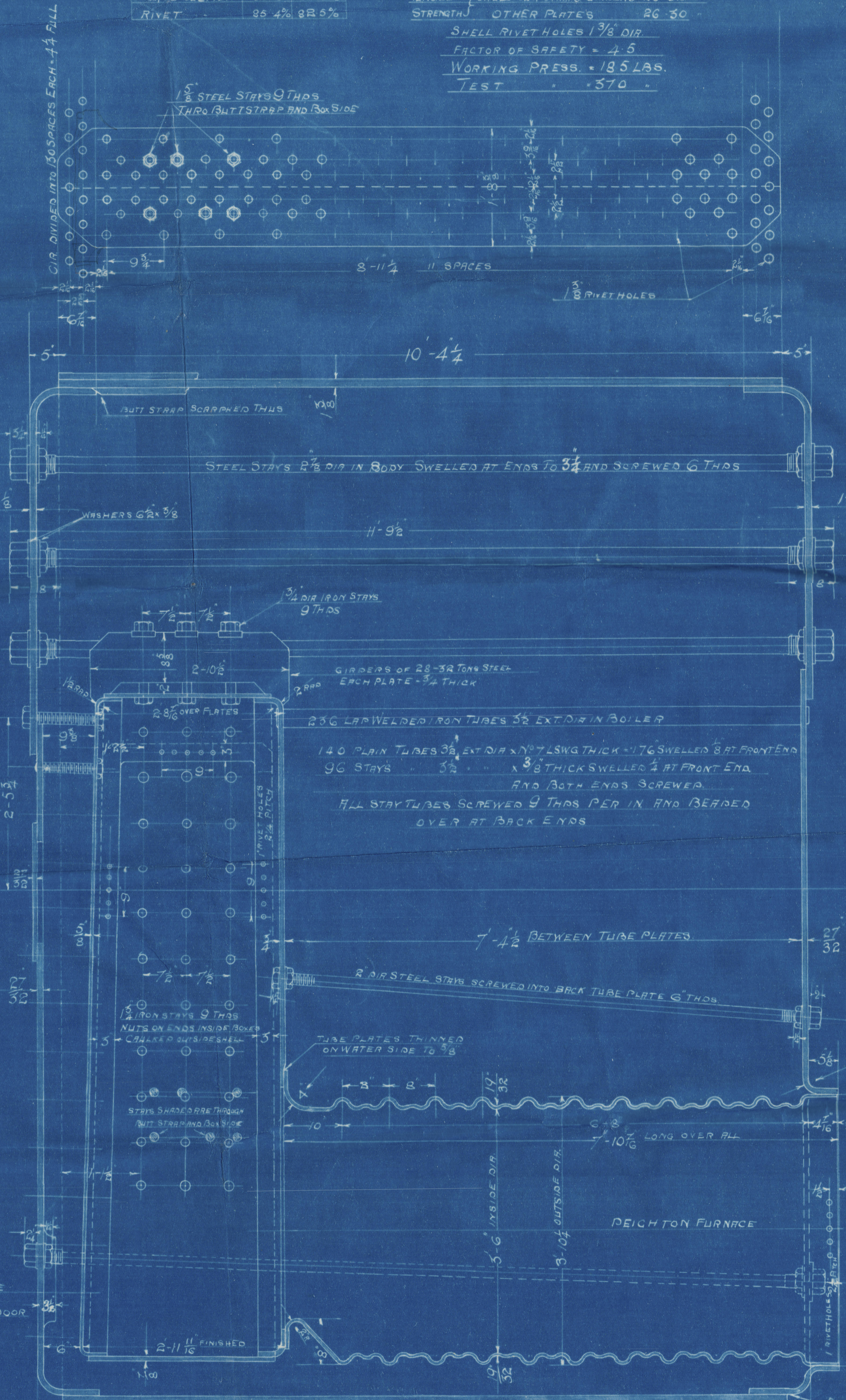
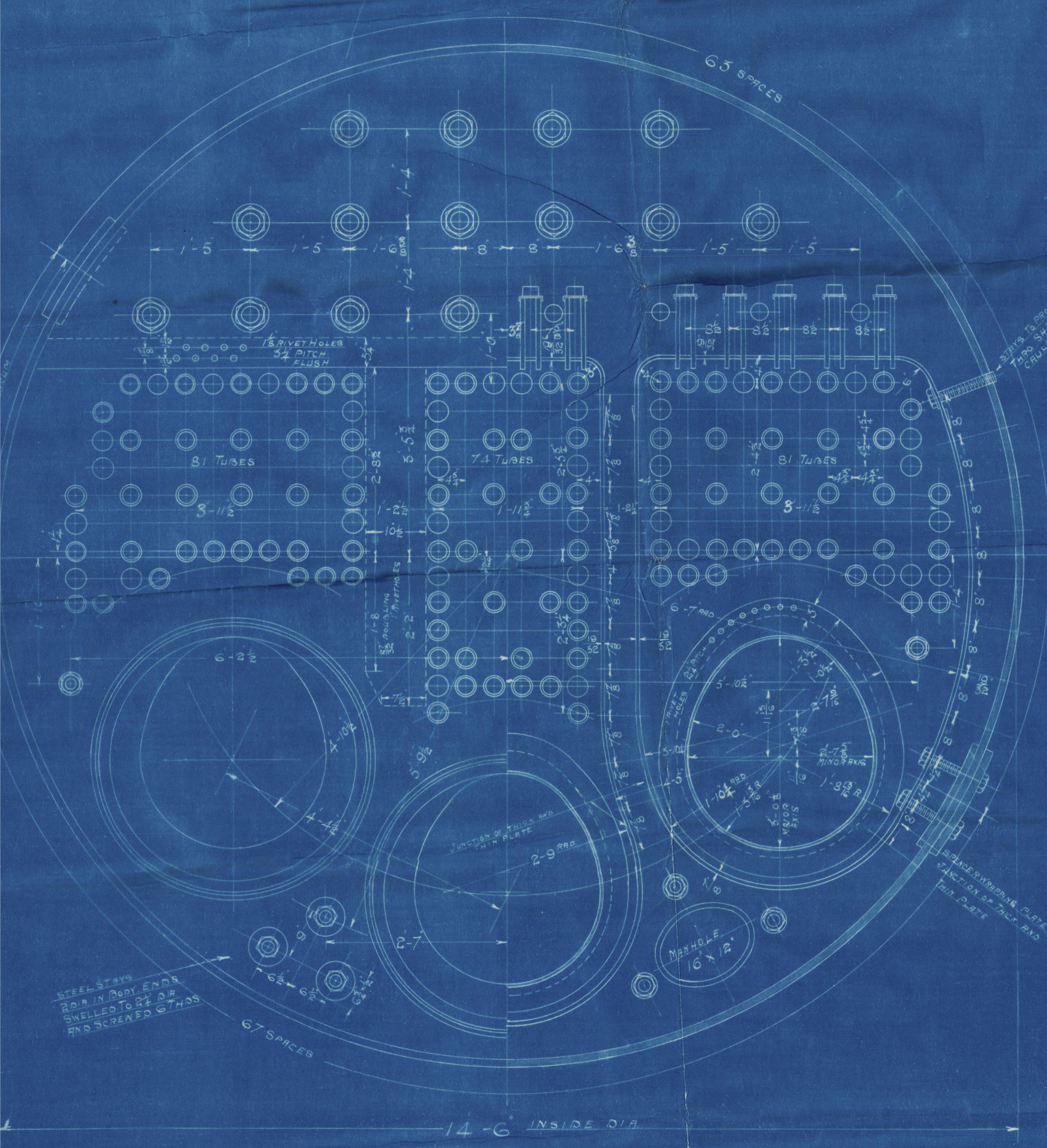
MATERIAL
ALL PLATES OF SIEMENS MARTIN STEEL
TUBES AND BOX STAYS OF IRON
ALL RIVETS OF STEEL

90 FEET OF 2" DIA IRON SCREWED STAY IN ONE BOILER
200 - 1/2"
15 - 1/32" STEEL

PERCENTAGES	B. O. T.	LLOYDS
PLATE SECTION	85.8%	85.8%
RIVET	85.4%	82.5%

SHELL PLATES - 5/8" THICK
BUTT STRAPS - 1 1/2"
TENSILE SHELL BUTT STRAP GIRDERS 28-32 TONS
STRENGTH OTHER PLATES 26.50
SHELL RIVET HOLES 1 3/8" DIA
FACTOR OF SAFETY - 4.5
WORKING PRESS - 185 LBS.
TEST - .570

HEATING SURFACE	
SURFACE IN TUBES	1595 SQ FT
FURNACES	132
BOX BACKS	73.3
SIDES	184.2
BOX TUBE PLATES	46
TOTAL HEATING SURF IN ONE BOILER	1983.5 SQ FT
GRATE	ONE 63 SQ FT
TWO	126
FIREBARS	6'-0" LONG FITTED WITH STURROCK BRIDGES
ONE PAIR SAFETY VALVES	3" DIA
RATIO GRATE HEATING	1 : 31.4
CLEAR AREA THRU TUBES	11.4 sq



2/9/14
DURDES

BOILERS 441
SS 241

WORKING PRESS - 185 LBS
TO PASS B. O. T. AND LLOYDS SURVEY

SCALE 1" = 1 FT
30th July 1914
B. A. 441



WTS-0060

CALEDON S. B. & F. C. L^{TD}.

AMENDED PLAN OF
2 MAIN BOILERS

SHIP N^o 241
ENG. & BR^S. N^o 441

S. S. "HIGHLANDER"

DUN. RPT. N^o 7928.

W. P. = 185 LBS.

TENSILE 28-32 TONS

W78-0060



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