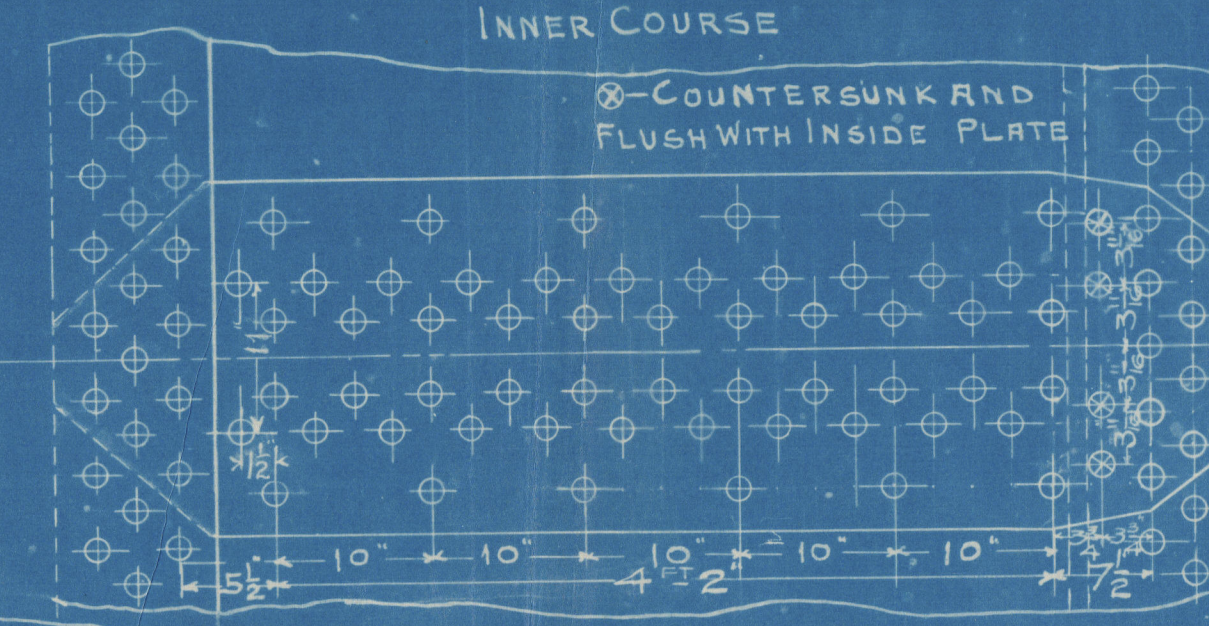


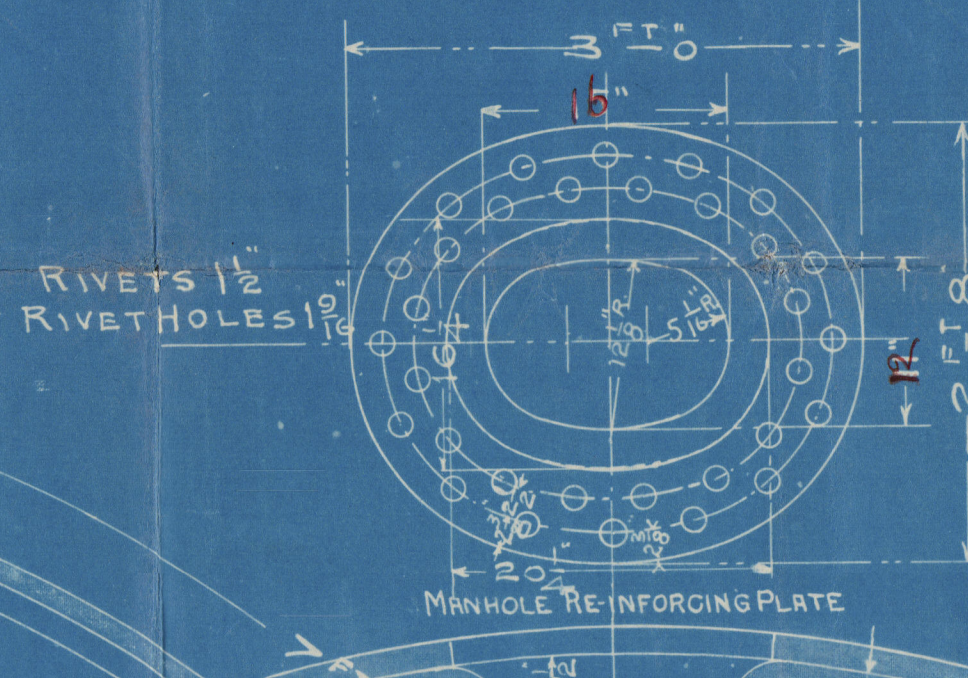
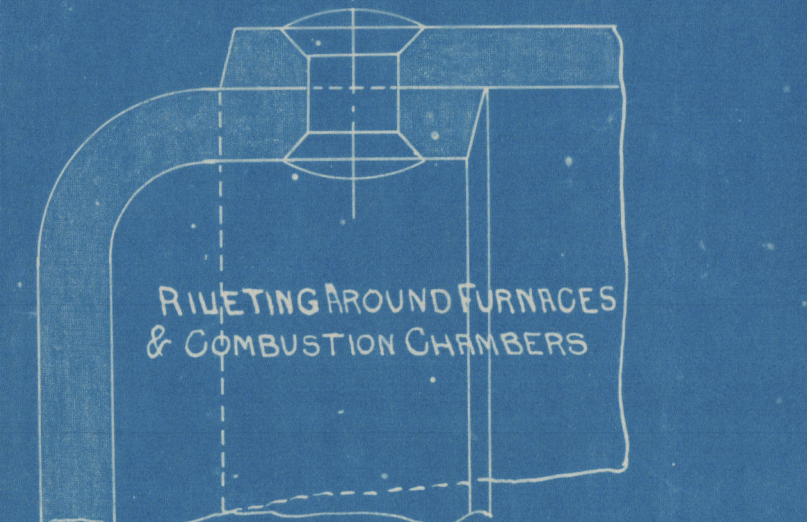
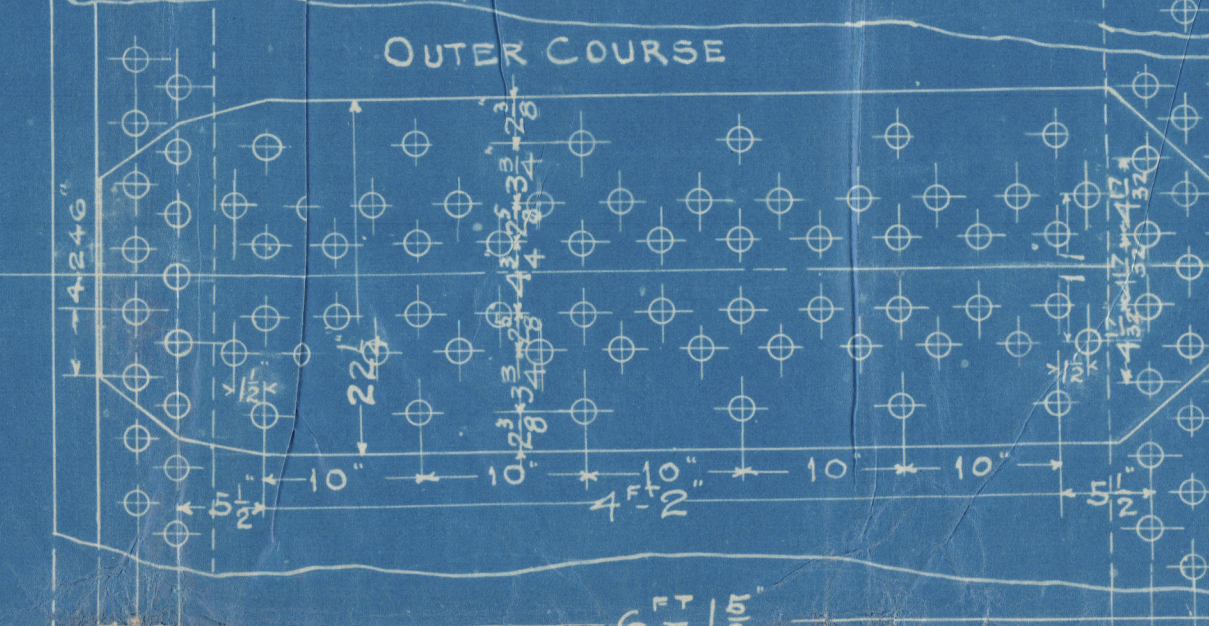
BOILER DATA	1 BOILER	4 BOILERS
TUBE HEATING SURFACE	1978	7912
C. CHAMBER	229	916
FURNACE	130	520
TOTAL	2337	9348
GRATE AREA	55.6	222.4
RATIO OF G.A. TO H.S.	1:42	-
DRAFT AREA OF TUBES	10.26	41.04
RATIO OF D.A. TO H.S.	1:227	-

END CIRCUMFERENTIAL JOINT
RIVETS - 2 RIVET HOLES - 1 1/16
4246 PCH - 120 PITCHES
PLATE % = $\frac{4246 \times 156}{4246 \times 100} = 63.2$
RIVET % = $\frac{2 \times 1917 \times 85}{4246 \times 875} = 87.72$

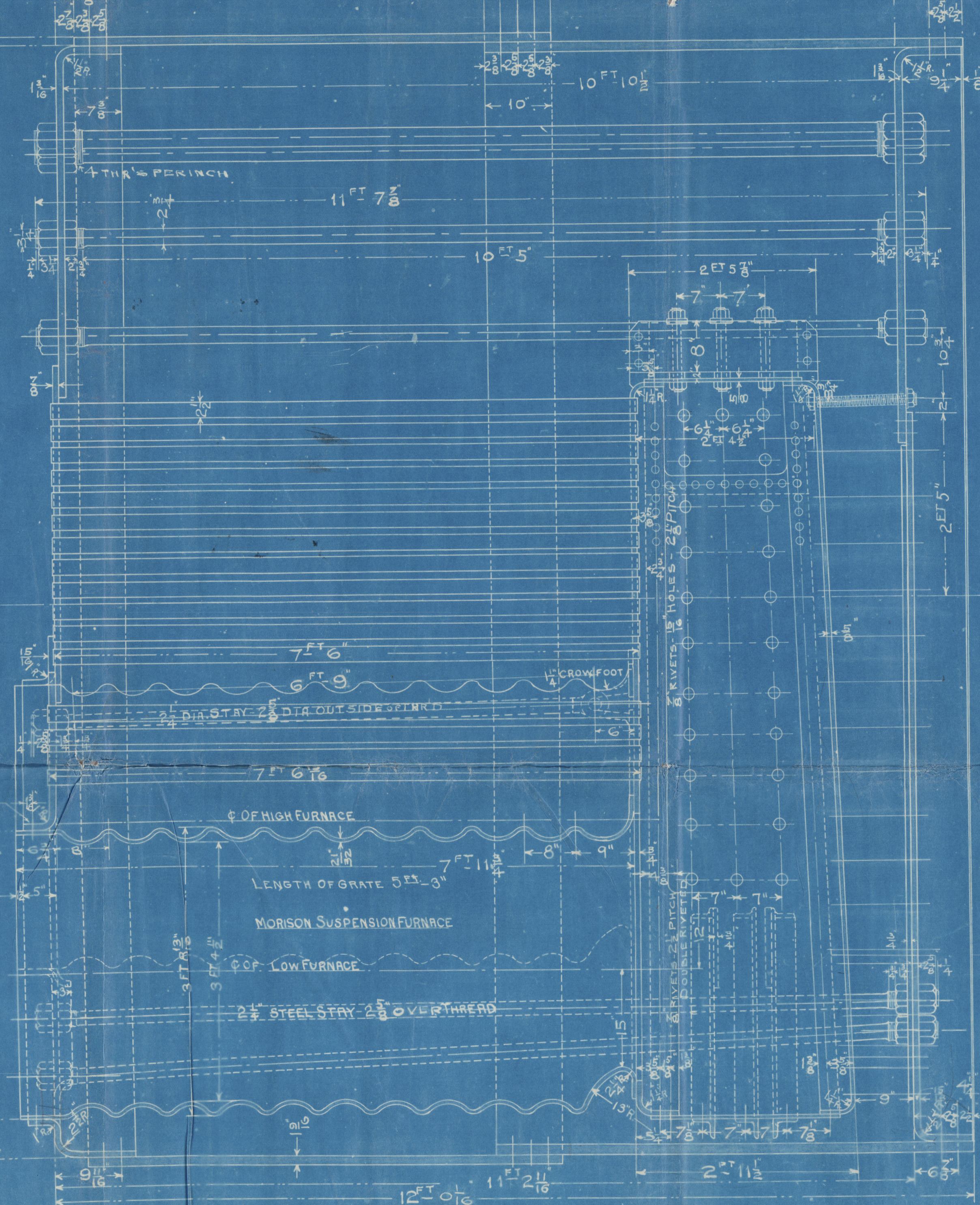
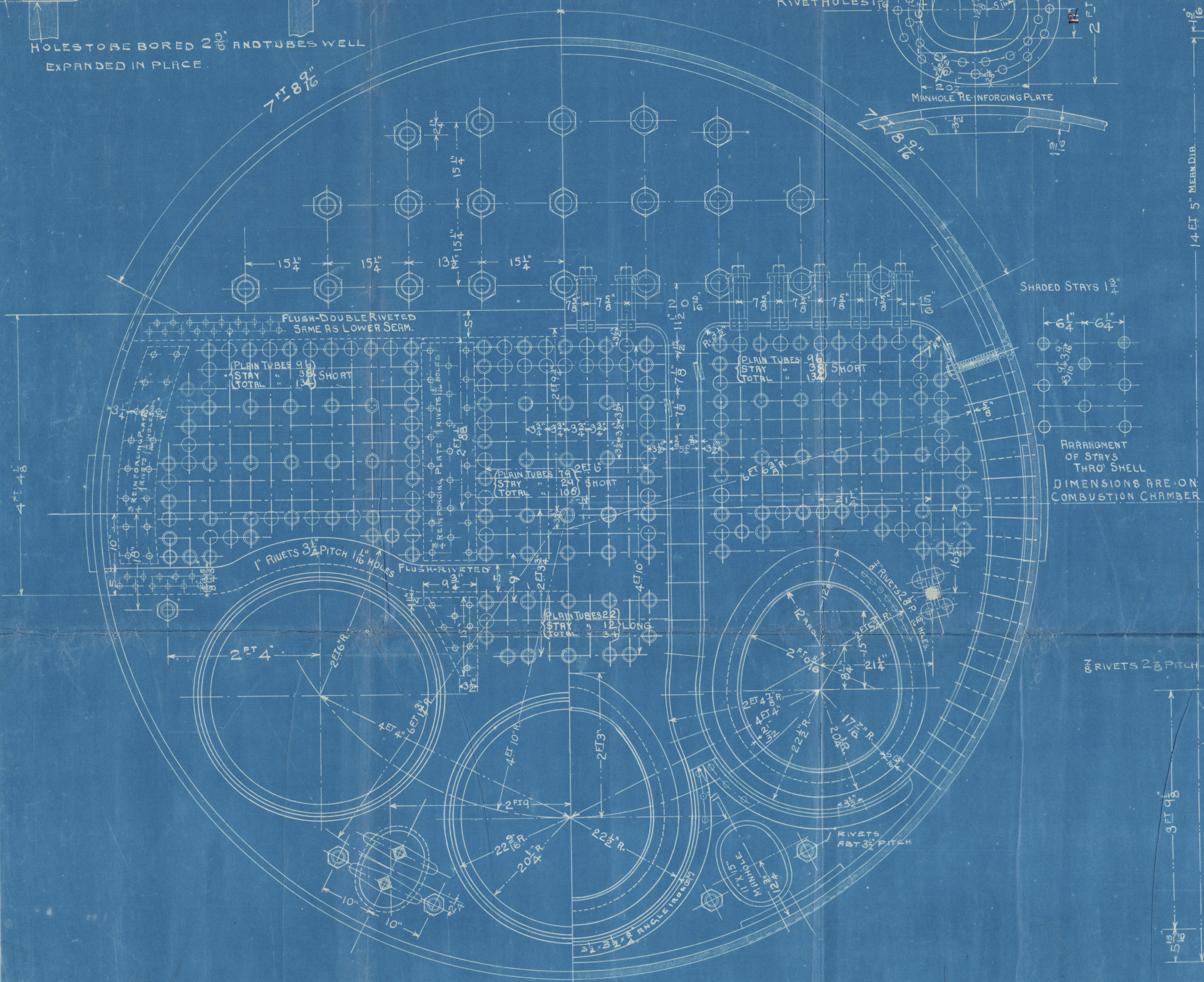
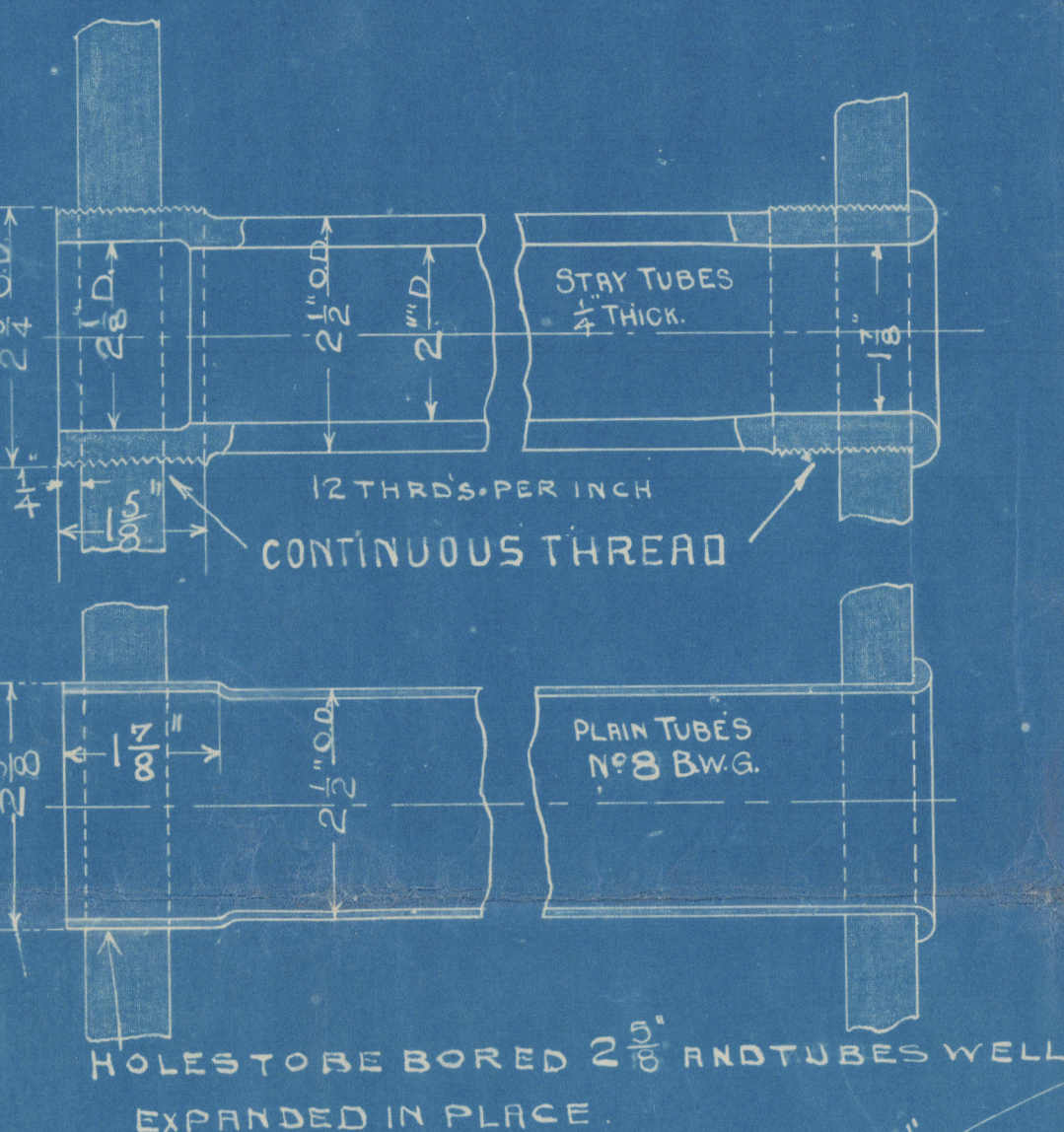
CENTRE CIRCUMFERENTIAL JOINT
RIVETS - 12 RIVET HOLES - 1 1/16
453 PITCH - 120 PITCHES
PLATE % = $\frac{453 \times 156}{453 \times 100} = 65.56$
RIVET % = $\frac{3 \times 1917 \times 85}{453 \times 875} = 69.16$



BUTT JOINT
INNER BUTT STRAP - 1 1/2
OUTER - 1 1/2
RIVETS - 12 RIVET HOLES 1 1/16
PLATE % = $\frac{10 \times 156}{10 \times 100} = 84.4$
RIVET % = $\frac{5 \times 1917 \times 85}{10 \times 875} = 91.3$



FULL SIZE DETAIL CROWN GIRDER STAY BOLT.
12 THREADS PER INCH



PARTS	UNITED STATES RULES	LLOYD'S
SHELL	$WP = \frac{15 \times T}{5 \times D} = \frac{1008 \times 56 \times 14}{865} = 218$	$WP = \frac{C \times (T-2)}{D} = \frac{21 \times 23 \times 84}{173} = 235$
FURNACES	$WP = \frac{16000 \times T}{D} = \frac{15000 \times 68}{1205} = 230$	$WP = \frac{1259 \times (T-2)}{D} = \frac{1259 \times 85}{4481} = 238$
HEAD PLATES	$WP = \frac{140 \times T^2}{P^2} = \frac{140 \times 26^2}{232.56} = 217$	$WP = \frac{C \times T^2}{P^2} = \frac{175 \times 26^2}{232.56} = 211$
HEAD STAYS	$STRESS = \frac{2.15 \times 15 \times 25}{593} = 8432$	Do
TUBE SHEET	$WP = \frac{140 \times T^2}{P^2} = \frac{140 \times 14^2}{81} = 249$	Do
CCCROWN PLATE	$WP = \frac{120 \times T^2}{P^2} = \frac{120 \times 100}{5357} = 224$	$WP = \frac{135 \times T^2}{P^2} = \frac{135 \times 100}{5357} = 252$
CCCWRAPPER PLATE	$WP = \frac{120 \times T^2}{P^2} = \frac{120 \times 100}{4988} = 240$	$WP = \frac{135 \times T^2}{P^2} = \frac{135 \times 100}{4988} = 270$
CCWRAPPER PLATE STAYS	$STRESS = \frac{58.57 \times 215}{1443} = 7982$	Do
CCBACK PLATE	$WP = \frac{120 \times T^2}{P^2} = \frac{120 \times 100}{5349} = 224$	$WP = \frac{135 \times T^2}{P^2} = \frac{135 \times 100}{5349} = 252$
CCBACK PLATE STAYS	$STRESS = \frac{58.57 \times 215}{1443} = 7957$	Do
STAY TUBES	$STRESS = \frac{(10.57 \times 147) \times 215}{4906 \times 3141} = 7154$	Do
C.C. GIRDERS	$WP = \frac{C \times T^2}{P^2} = \frac{825 \times 64 \times 1875}{228} = 228$	$WP = \frac{C \times T^2}{P^2} = \frac{9900 \times 64 \times 1875}{228} = 234$

ALL 1 1/2" SCREWED STAYS
TO HAVE 3/4" DIA HOLE BORED
TO DEPTH OF 1/2" BELOW INSIDE
SURFACE OF PLATE.
○ 1/2" STAYS, 12 THREADS, NUTS 1" DEEP
● 1/2" " 12 " " 1 1/2"

WP 215 LBS

LLOYD'S AND U.S. TREASURY SURVEY
TS. OF SHELL PLATES 60480 TO 1680 LBS
TS. OF FURNACE COMB. CHAMBER ETC. 58240 TO 67200 LBS

NOTE: ALL FLANGED EDGES TO BE MACHINED FOR GOOD CULKING EDGE
TO DIMENSIONS GIVEN. NO SUPERFLUOUS STOCK LEFT ON

CHARGE TO NO. 5 & 6-561
MAIN BOILER

R

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RECEIVED
JUL 23 1901
IN LIBRARY

N. Y. SHIPBUILDING CO.,
DR. 5-561-2
Made JUL 23 1901
Print No. 4
For John Bang

W1008-0055



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New York IBC

SS. NO 5-6

Main Boilers

★ ~ In "Panamanian"

S.E

W.P. 215 ~~th~~

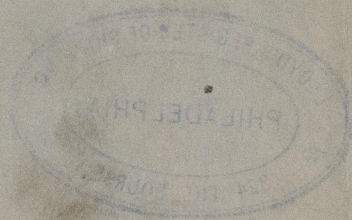
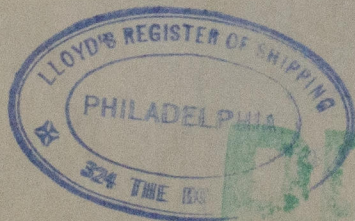
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s.s. Mongolia

PHILADELPHIA. Rpt. n° 1234

s.s. Manchuria

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