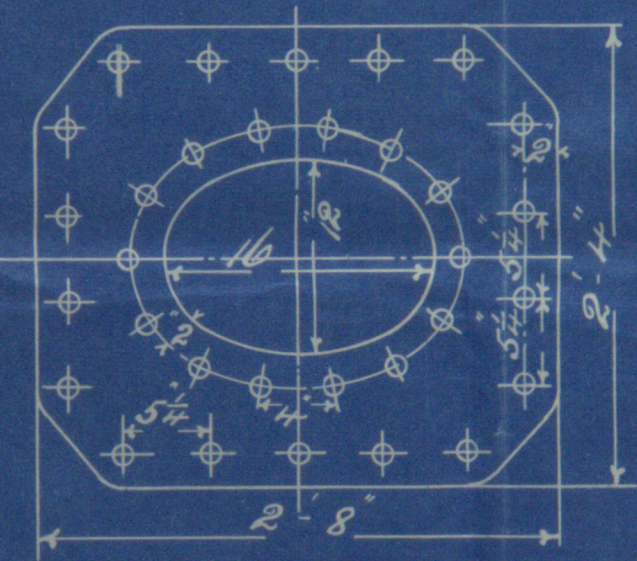


From AMOS & SMITH, HULL.
Enclosure for
M. J. Evans Esq.
Bristol.
81577-0542 (1/2)

DIA^r OF BOILER 11'-3" inside.
LENGTH OF DO 9'-9" between plates.
NUMBER OF TUBES 188.
LENGTH OF DO 6'-4" between plates.
DIA^r OF DO 3" AREA THRO TUBES 5'-68 1/2".
HEATING SURFACE IN TUBES 940 sq.
TOTAL HEATING SURFACE
FIRE BAR SURFACE
DIA^r OF SAFETY VALVES 3" double.
CUBIC FEET OF STEAM SPACE 203 at 6' above C.C.
WORKING PRESSURE 150 lbs. Factor of Safety 5.

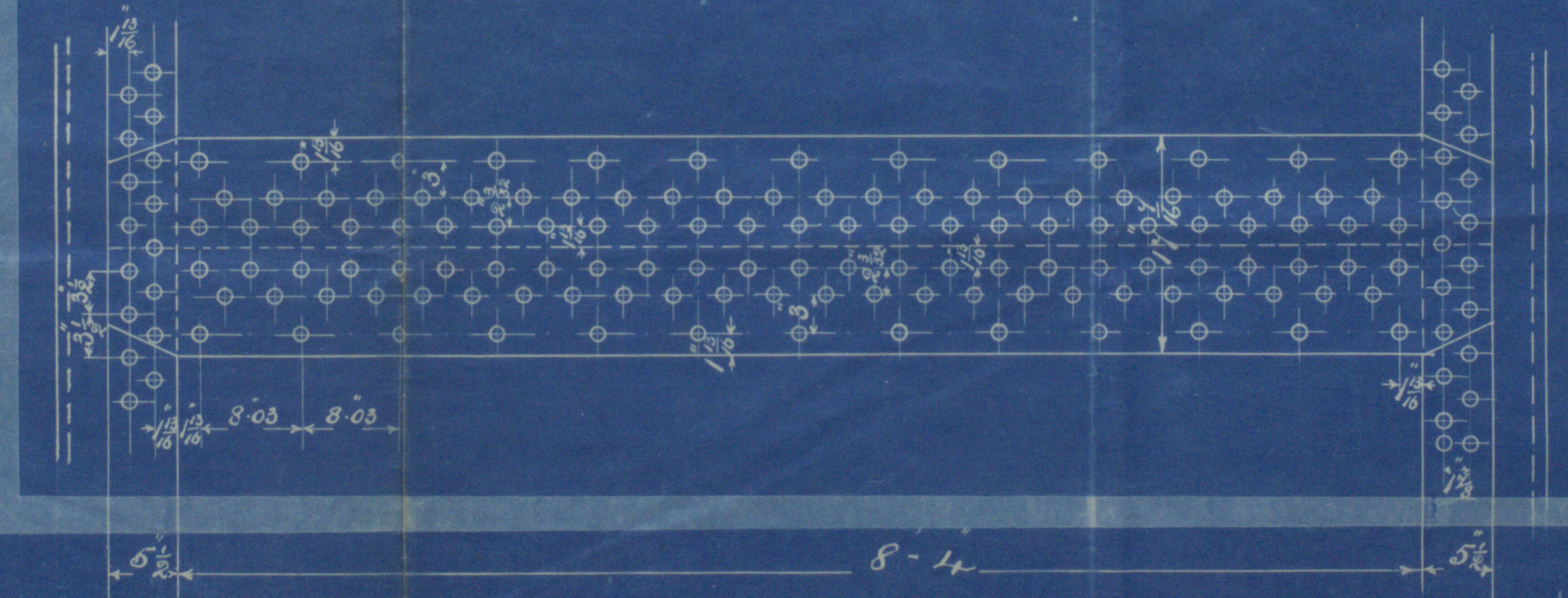
160

Manhole in shell placed with
shorter axis longitudinally.
Doubling plate 1 1/2" thick.
Rivets 1 1/2" dia.



Particulars of joints

Thickness of Butt Straps	1 3/4"
Space of all rivet holes in shell	1 1/2"
Space of all rivets in shell	1 1/2"
Plate of rivets	8-65
To Plate	85-2
To Rivet	90
	3 1/2
	66-4
	55

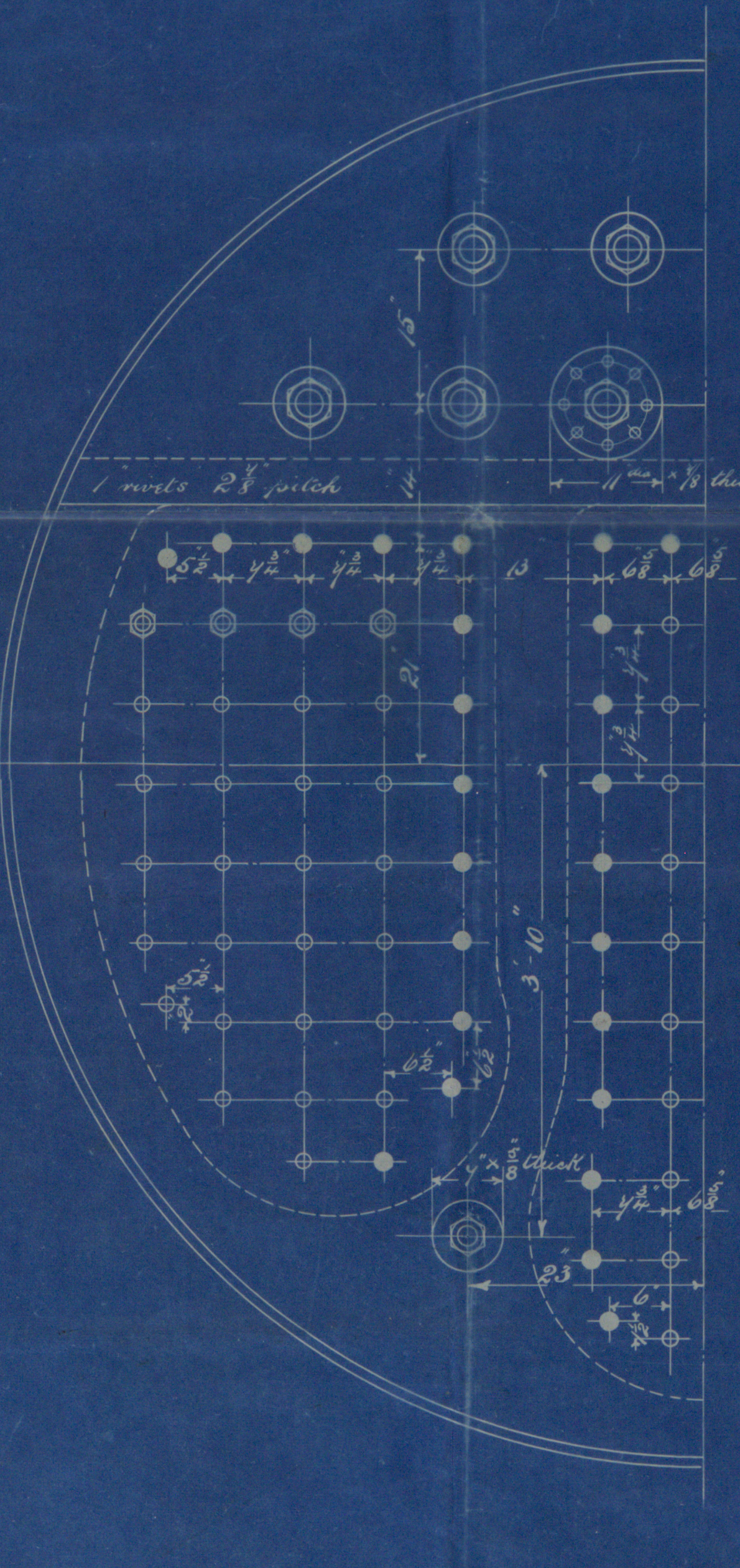
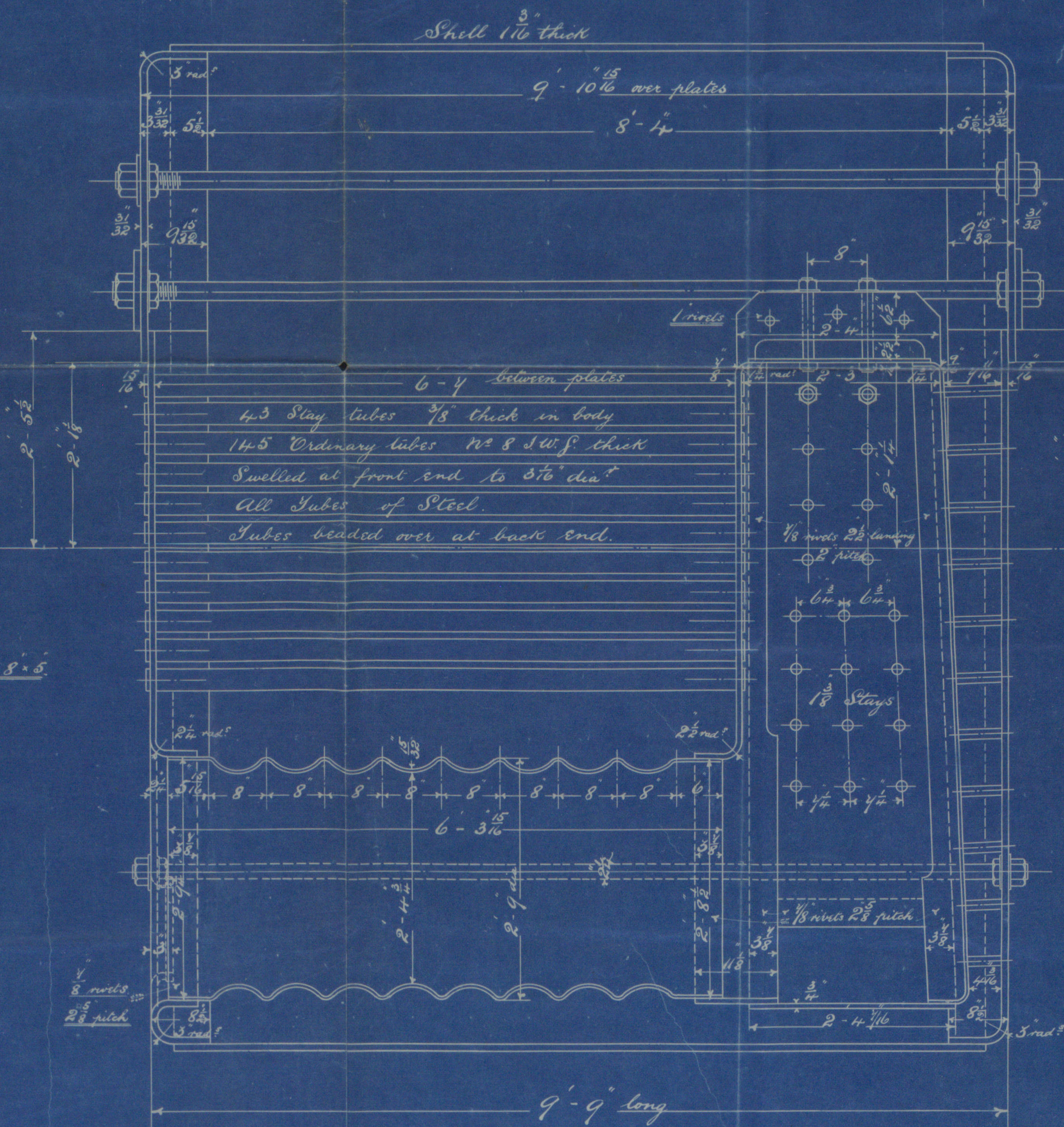
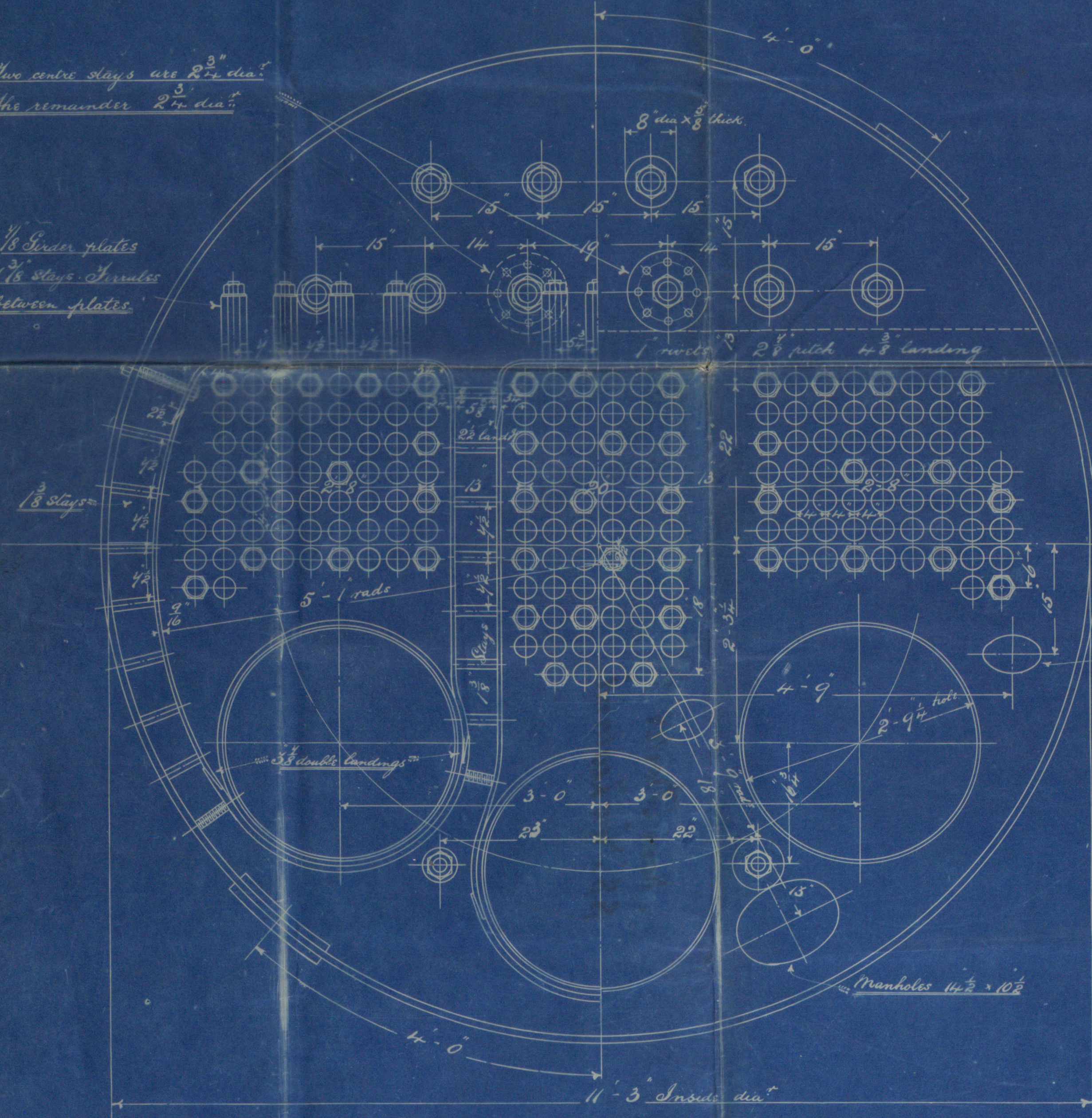


Note: The plates rivets & stays of steel by the Siemens Martin process.
All rivet holes drilled throughout the boiler those in shell after the plates are bent.
All flanged plates to be annealed after flanging.
Stays are not to be welded, or worked in fire.
All tubes to be of best solid drawn steel.
The tensile strength of the shell plates to be between 24 & 30 tons per sq. in., of the furnaces, and plates 7, 8, 9 plates between 24 & 24 tons 0.

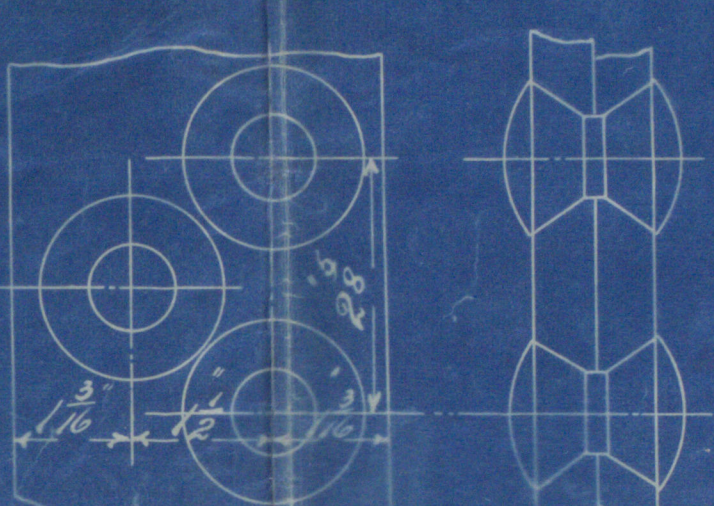
Stays	Dist ^r of Stays	No of threads at bottom per sq. in.	Effective area
Main Stays	2 1/2"	6	5.055 sq.
	2 1/2"	6	5.055 sq.
Bottom Stays	2 1/2"	8	5.4-3 sq.
Comb. Stays	1 3/4"	10	1.22
Stay Tubes	3"	9	2.06

Two centre stays are 2 3/4" dia.
The remainder 2 1/2" dia.

1/8" thicker plates
1/8" stays & rivets
between plates.



Half Size detail of
C.C. Rivetting for
Double Landings



Half Size detail showing method
of fitting Butt Straps.

AMOS & SMITH
ENGINEERS
ALBERT DOCK WORKS
HULL

STEEL BOILER Z37
SS NEW ZEALAND



TITLE Steel Boiler
FOR WHOMAS Ript (See General Explanation)
DATE March 6th 1900
ORDER N^o Z37
IF MADE Yes
SCALE 1" to one foot

6597

Main Boiler
S.S. "New Zealand"

BID 77-0512 (1/2)



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