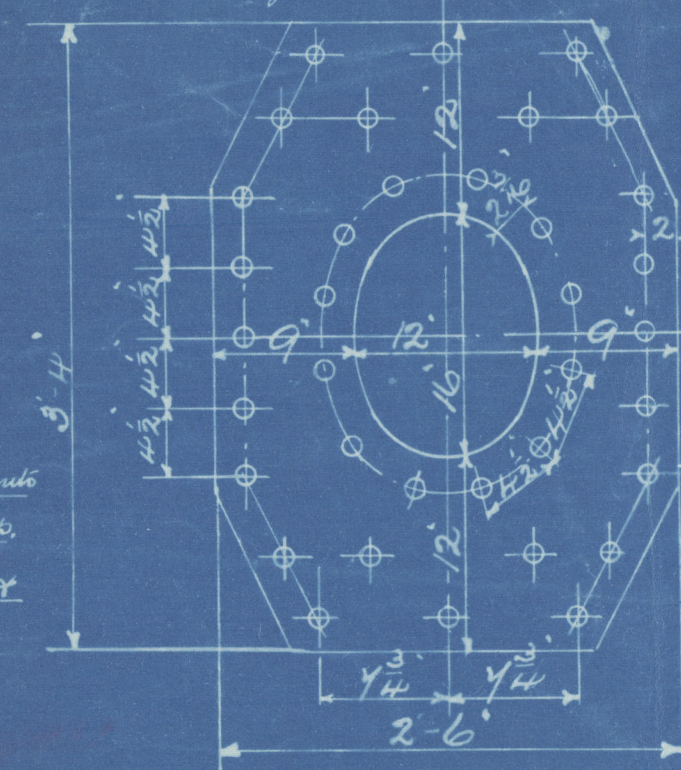


DIA OF BOILER 14'-0"  
 LENGTH OF DO 10'-6" inside  
 NUMBER OF TUBES 208  
 LENGTH OF DO 6'-4"  
 DIA OF DO 3 1/2" AREA THRO TUBE 11-1/2 sq ft.  
 HEATING SURFACE IN TUBES 1258  
 TOTAL HEATING SURFACE 1590  
 FIRE BAR SURFACE 44'-5 sq ft. Centre line of Manhole  
 DIA OF SAFETY VALVES  
 CUBIC FEET OF STEAM SPACE 35 Cu ft.  
 WORKING PRESSURE 180 lbs. LLOYDS.

2 building plates 1/2" thick  
 1/2" dia holes 1/2"  
 Silled outside shell with short  
 axis longitudinally



Circumferential seams 3/16 x 1/4 inch

1/2 Plate = 68.1 1/2 Tube = 40.4

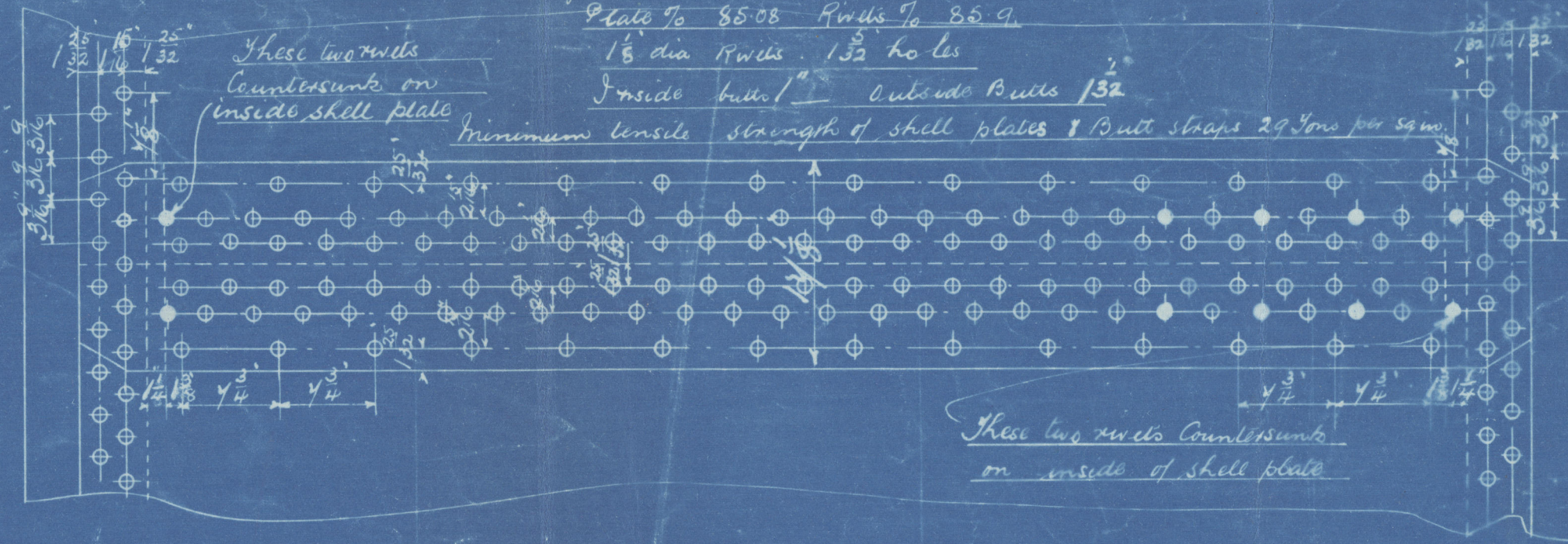
Longitudinal seams 1/2 inch

Plate to 85.08 Tube to 35.9

1 1/2 dia Holes 1/2 hole

Inside built Outside Built 1/2

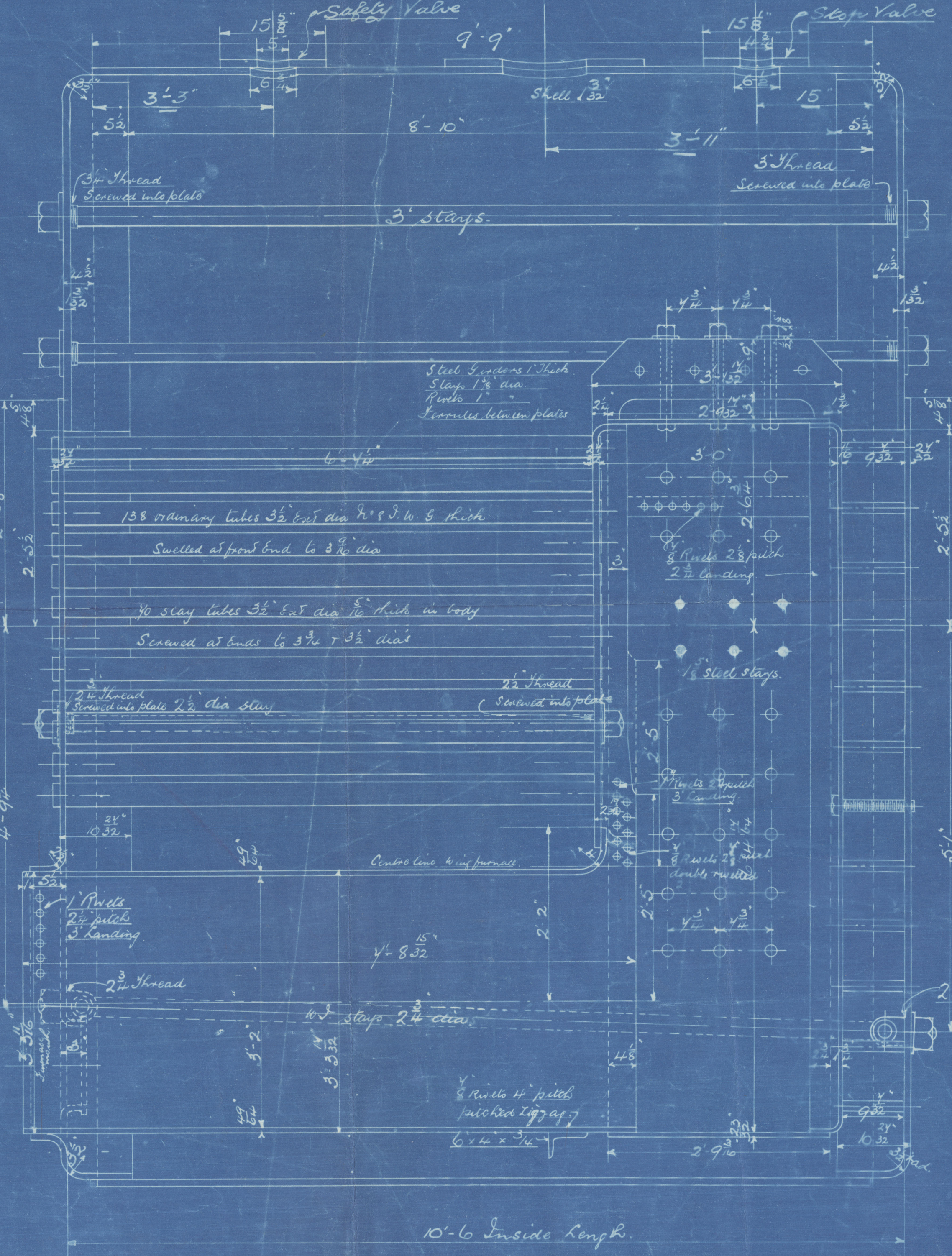
Minimum tensile strength of shell plates 1 Built straps 22 tons per sq in



27/7/11

Note! The plates, rivets & stays of steel by the Siemens Martens process  
 all holes drilled throughout the boiler, those in shell after the plates  
 are bent  
 All flanged plates to be annealed, after the plates are bent  
 Steel stays are not to be welded  
 The tensile strength of the shell plates & built straps, to be between  
 29,733 tons per sq inch  
 Combustion Chamber stays are screwed into both plates  
 no washers inside C.C.

Stay	Dist.	No of stays per inch	Area at top of thread
Steam space stay	3	6	6.10 sq inches
Bottom stay	2 1/4	10	5.055
C.C. stays	1 1/2	10	1.96
"	1 1/4	10	2.066
"	1 1/2	10	2.394
"	2	8	2.66
Support stay	2 1/2	6	4.108
Stay, Lugs	3 1/2	9	2.364



Note! All margin stays to be  
 fitted with a nut at both ends  
 of stay plate in the next to have  
 a nut on inside of combustion  
 chamber only

Care to be taken that  
 C.C. stays at the back  
 of the boiler are not  
 sufficiently clear of the  
 rounds so that full nuts  
 can be put upon the flat plates

ARR 27/7/11  
 27/7/11

A. SMITH  
 6526 25/1/11

STEEL BOILER N° 2064



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Enclosure for

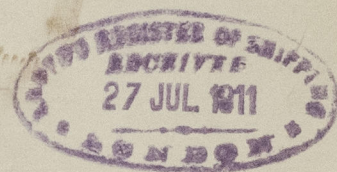
Lloyds Surveyors

Hull

W1311-0013 2/2



Amos Smith  
Boiler No 2064  
W.P. = 180 lbs



*Merisid.*

Hull Regt No: 24780.

RETAIN

