

13.5.05
LLOYD'S REGISTER OF SHIPBUILDERS
LONDON

SUNDERLAND ENGINE WORKS

BOILER

TRACING 1208 SCALE - 1 INCH TO A FOOT SCHEDULE 'L'

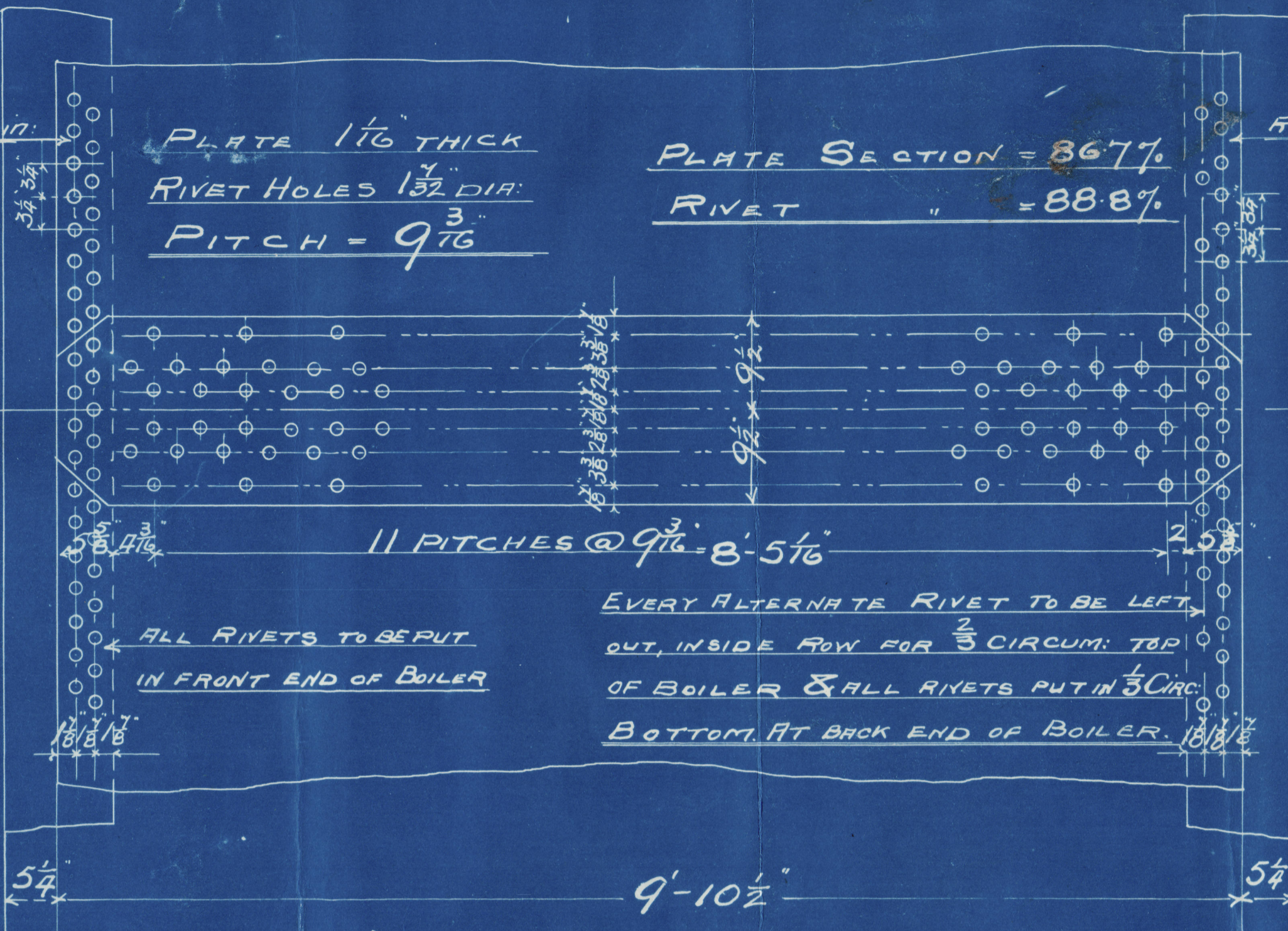
WRITTEN DIMENSIONS ONLY TO BE TAKEN



BUTT STRAPS
INSIDE 1 1/16
OUTSIDE 1 1/16

PLATE 1 1/16 THICK
RIVET HOLES 1 3/8 DIA.
PITCH = 9 3/16

PLATE SECTION = 86.7%
RIVET " = 88.8%



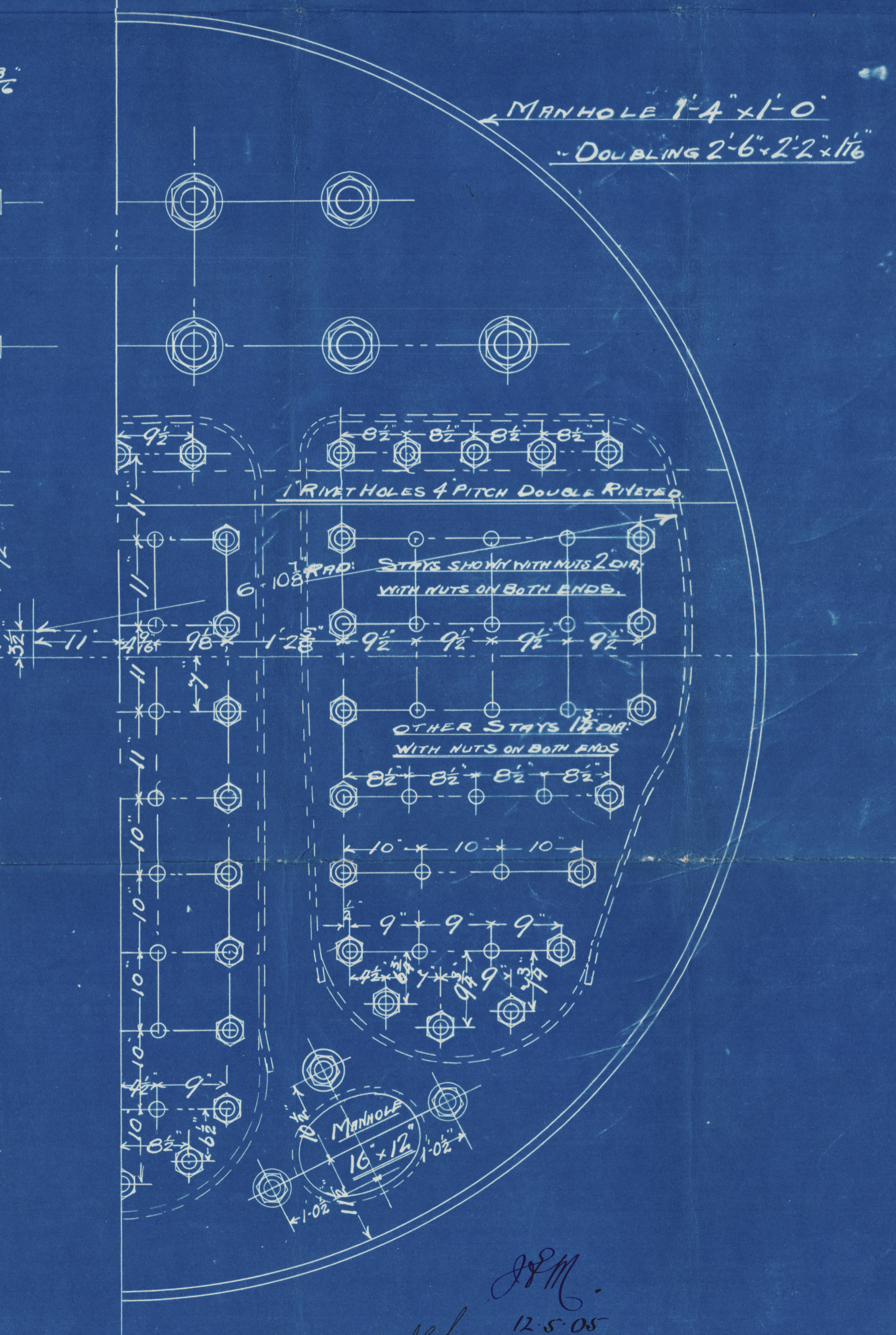
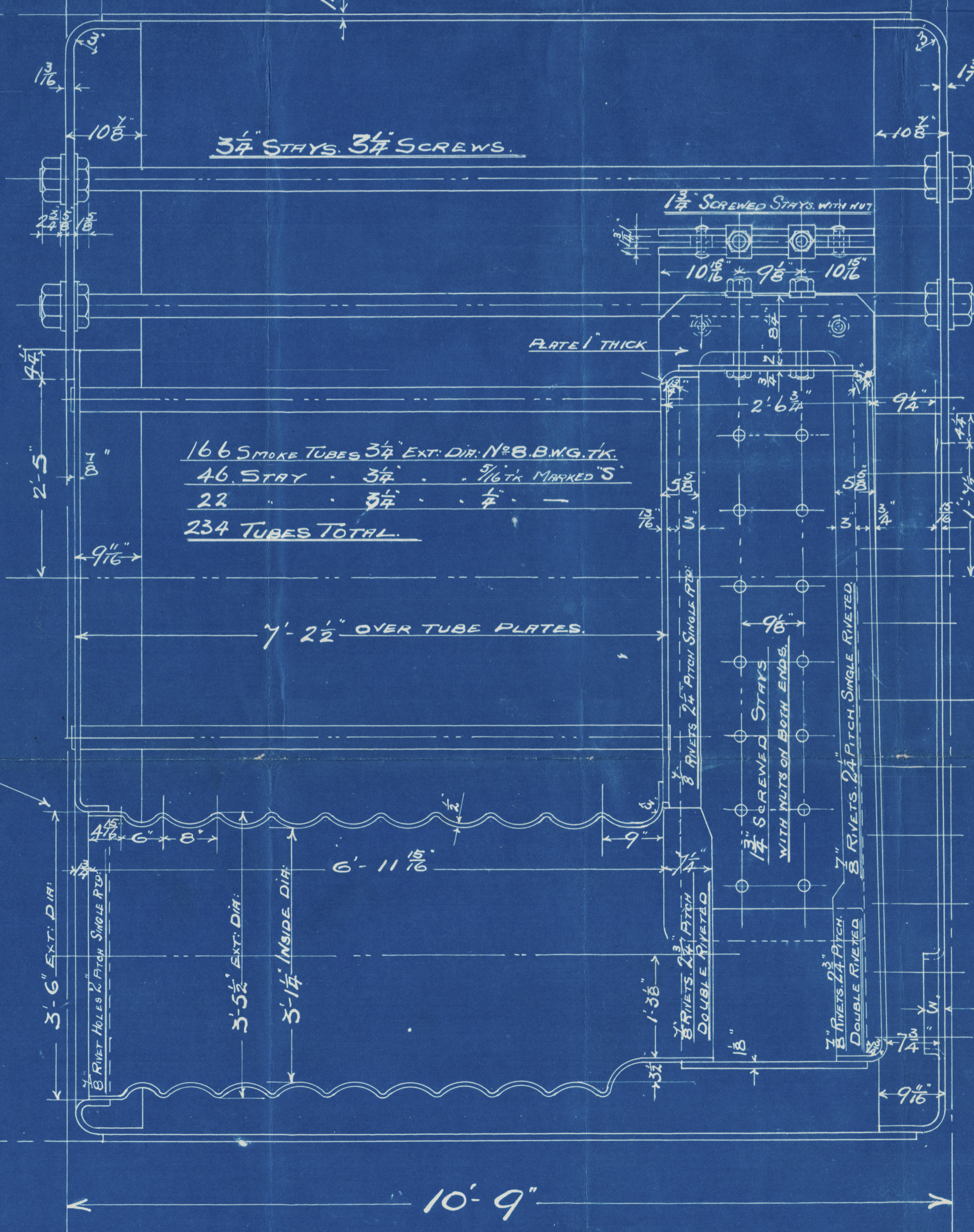
ALL RIVETS TO BE PUT
IN FRONT END OF BOILER

EVERY ALTERNATE RIVET TO BE LEFT
OUT, INSIDE ROW FOR 3 CIRCUM. TOP
OF BOILER & ALL RIVETS PUT IN 3 CIRC.
BOTTOM, AT BACK END OF BOILER.

LLOYDS 22.33 (17-2) 86.7	= 180	LBS. #
WORKING PRESSURE	180	
TEST	360	
HEATING SURFACE ON TUBES	1435	SQ. FT.
" OTHER PARTS	399	" "
TOTAL	1834	
EX. FRONT TUBE PLATE	1797	

EFFECTIVE AREA OF TUBES		
3 1/4" STAY TUBES 5 1/2" 9 THREDS PER IN.	2.17	SQ. INS.
3 1/4" " 4 " 9 " " "	1.64	" "
3 1/4" MAIN STAYS 6 " " "	7.24	" "
2" " 6 " " "	2.51	" "
1 1/2" " 6 " " "	1.85	" "
2" SCREWED 11 " " "	2.79	" "
1 1/2" " 11 " " "	2.1	" "

PLATES, RIVETS & STAYS - STEEL
TUBES - WROUGHT IRON -
HOLES TO BE DRILLED IN PLACE AFTER BENDING.
TENSILE STRENGTH OF SHELL PLATE NOT LESS THAN 27 TONS.
MAIN STAYS 2 1/2"



DRAWN BY J.A.S.
CHECKED BY G.D.S.
TRACED BY J.A.S.
CHECKED BY J.A.S.
TRACING No 1208

CONTRACT 1647.3 OFF
12.5.05
12.5.05

N. E. M. Eng. Co. Ltd.

No. 1547

Amended plan of
Boilers for

Sld S. B. Co's $\frac{7}{8}$ 233

W. P. = 180 lbs

S/S ATHENIC

Sld. F. L. No. 22617

No 2431

LLOYDS TEST

360 LBS

16/10/05 A.B.

