

SUNDERLAND ENGINE WORKS

BOILER

TRACING 1042 SCALE.— 1 INCH TO A FOOT

SCHEDULE L

WRITTEN DIMENSIONS ONLY TO BE TAKEN



8.2.05

RIVET HOLES 1 1/2" DIA.

PLATE 1/32" T.K.
RIVET HOLES 1 1/2" DIA.
PITCH = 8"

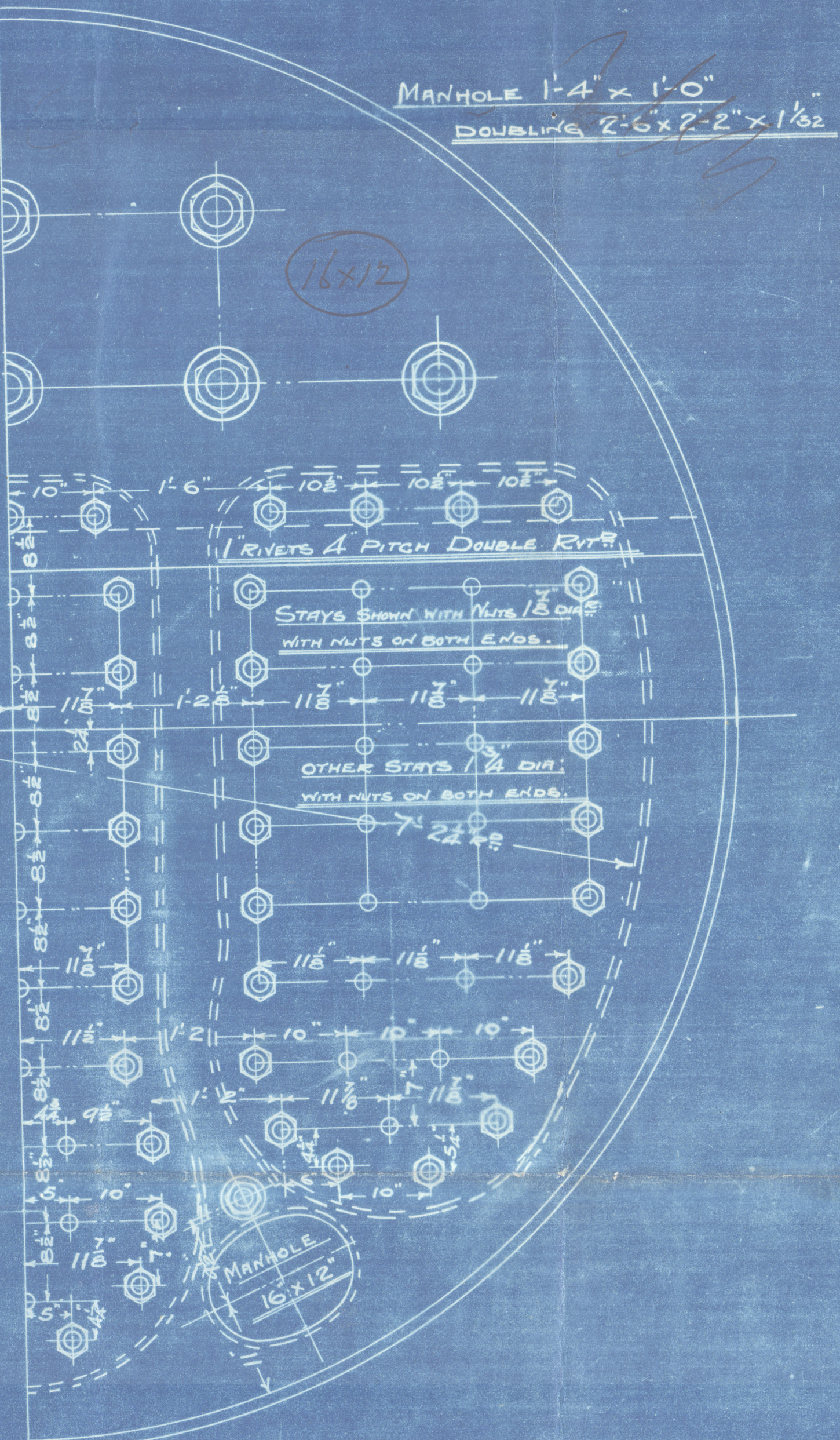
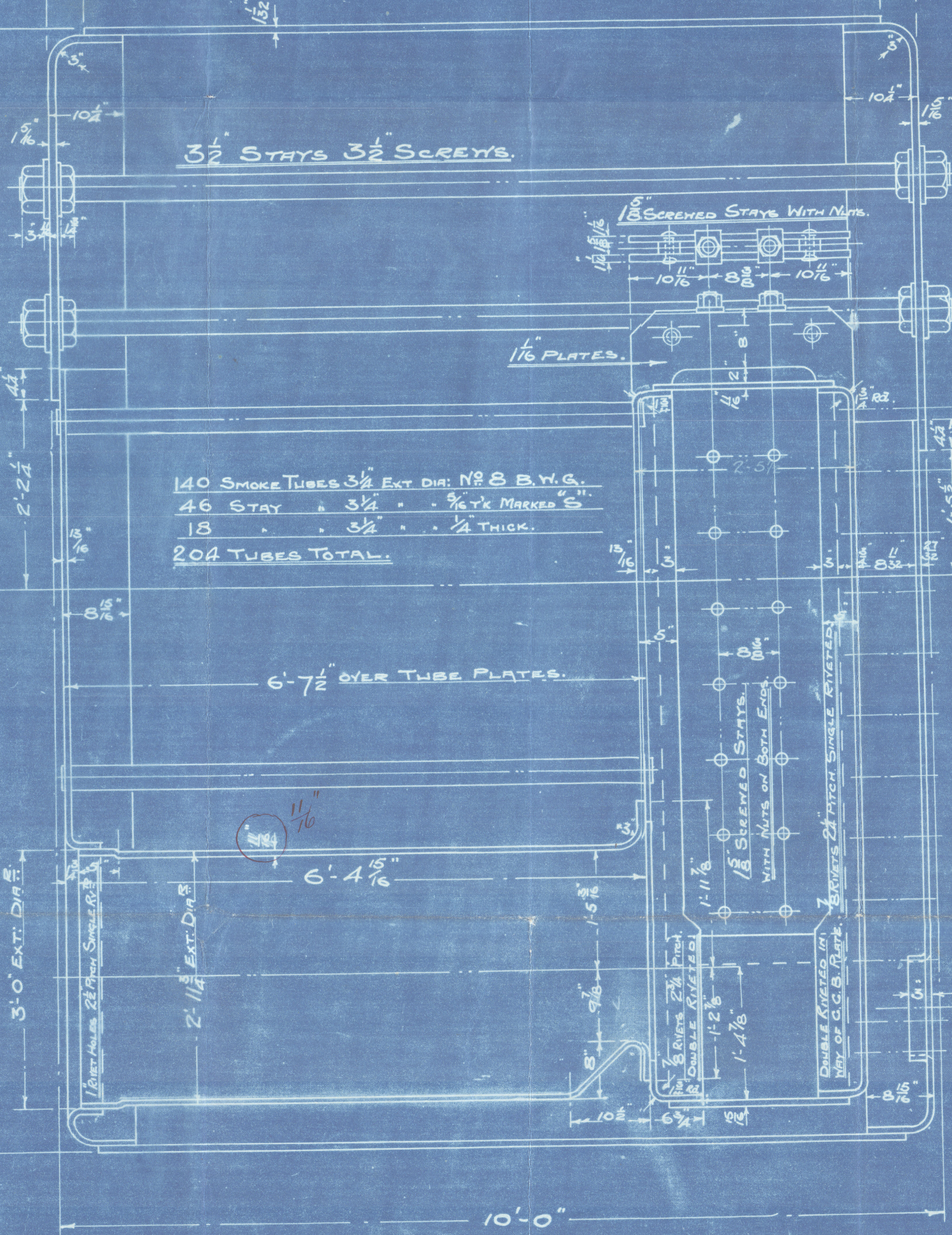
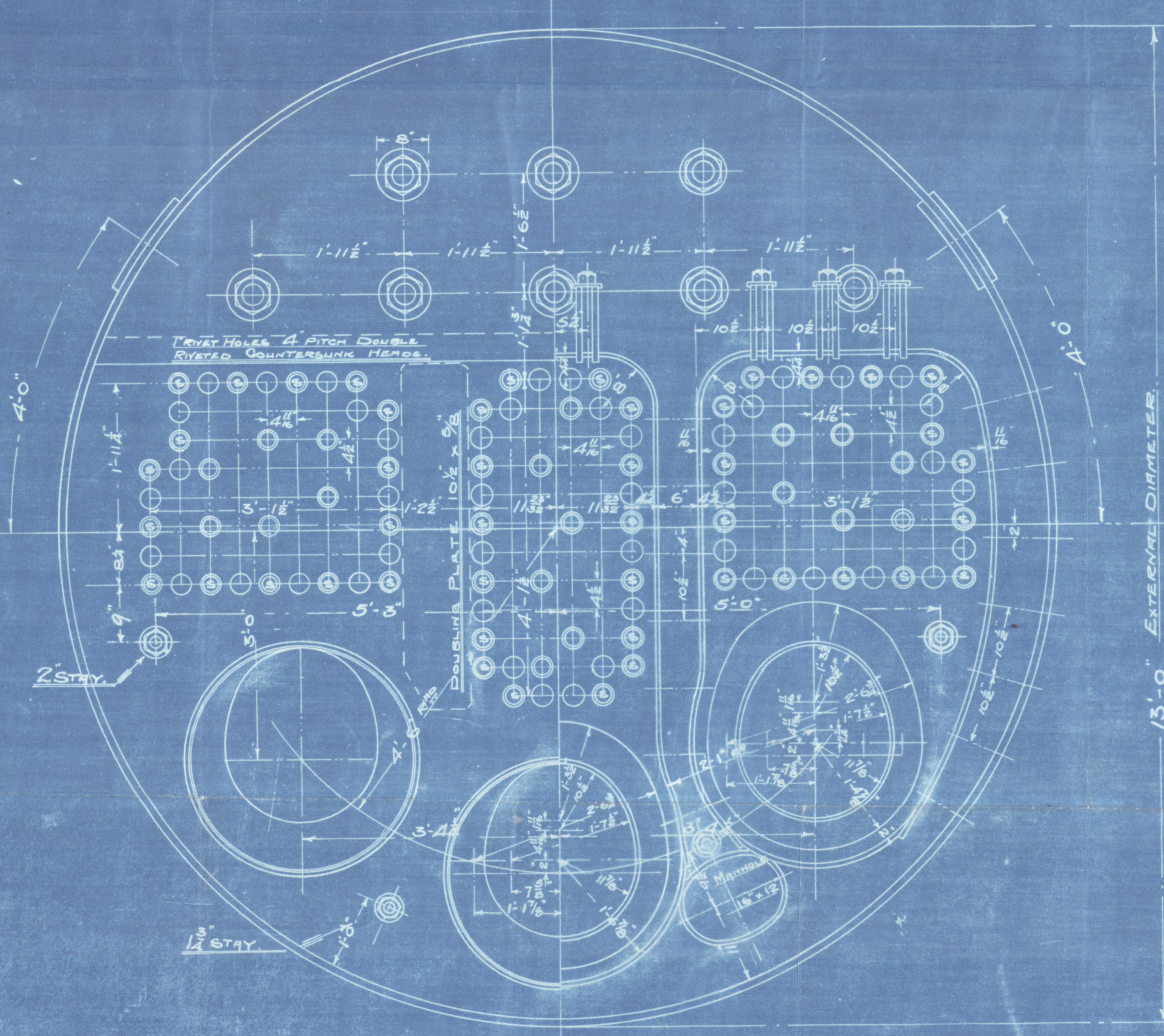
PLATE SECTION = 85.93 %
RIVET " = 89.6 %

RIVET HOLES 1 1/2" DIA.

BUTT STRAPS (INSIDE 1/32" OUTSIDE 1/32")

EVERY ALTERNATE RIVET TO BE LEFT OUT
ALL RIVETS TO BE PUT IN. INSIDE ROW, FOR 3/4 CIRCUMFERENCE TOP OF.
FRONT END OF BOILER. BOILER & ALL RIVETS TO BE PUT IN 1/4 CIRC.
BOTTOM: — AT BACK END OF BOILER

LLOYDS = $\frac{22.36 \times (16.5 - 2) 25.92}{133.9376}$	= 180.9 LBS.
WORKING PRESSURE =	180 LBS.
TEST " =	360 "
HEATING SURFACE ON TUBES.	1150 SQ. FT.
OTHER PARTS	352 "
TOTAL	1502 "
EX: FRONT TUBE PLATE	1470 "
EFFECTIVE AREA OF STAYS.	
3 1/2" STAY TUBES 7/16" T.K. 9 THREADS PER IN.	2.1759 sq. ins.
3 1/2" " " 1/4" " 9 " " "	1.64 " "
3 1/2" MAIN STAYS 6 " " " "	8.48 " "
2 " " 6 " " " "	2.51 " "
1 1/2" " 6 " " " "	1.86 " "
1 1/2" SCREWED " 11 " " " "	2.43 " "
1 1/2" " 11 " " " "	2.1 " "
1 1/2" " 11 " " " "	1.79 " "
ALL PLATES RIVETS & STAYS: — STEEL.	
TUBES — WROUGHT IRON.	
HOLES TO BE DRILLED IN PLACE AFTER BENDING.	
TENSILE STRENGTH OF SHELL PLATES NOT LESS THAN 20 TONS.	
" " " MAIN STAYS: " 27 " "	



DRAWN BY.....
CHECKED BY.....
TRACED BY.....
CHECKED BY.....
TRACING No. 1042 E

CONTRACT 1628 2 OFF.

Photo Processes
J. HALDEN & Co.

W1288-0396



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Lloyd's Register
Foundation

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

No. 1628.

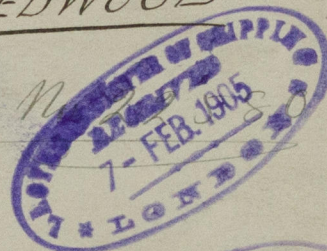
Boilers for
Osbourne, Graham & Co.

$\frac{3}{5}$ No 124

W. P. = 180 lbs

$\frac{5}{8}$ NEEDWOOD

Sld. J. E. M.



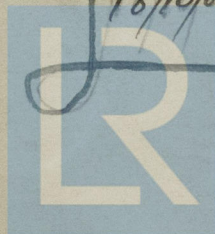
RETAIN

No 2434

Lloyds Test

360 lbs

18/10/05 A.B.



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