

# STEEL DONKEY BOILER

14'-0" x 7'-6"

WORKING PRESSURE 90 LBS.

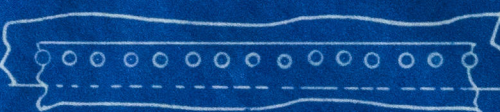
SCALE 1" INCH = 1 FOOT

VERTICAL BUTTS OF SHELL DOUBLE RIVETED.



1/8" STEEL RIVETS 2 1/8" PITCH.

VERTICAL SEAMS OF FURNACE AND HORIZONTAL SEAMS OF SHELL SINGLE RIVETED.



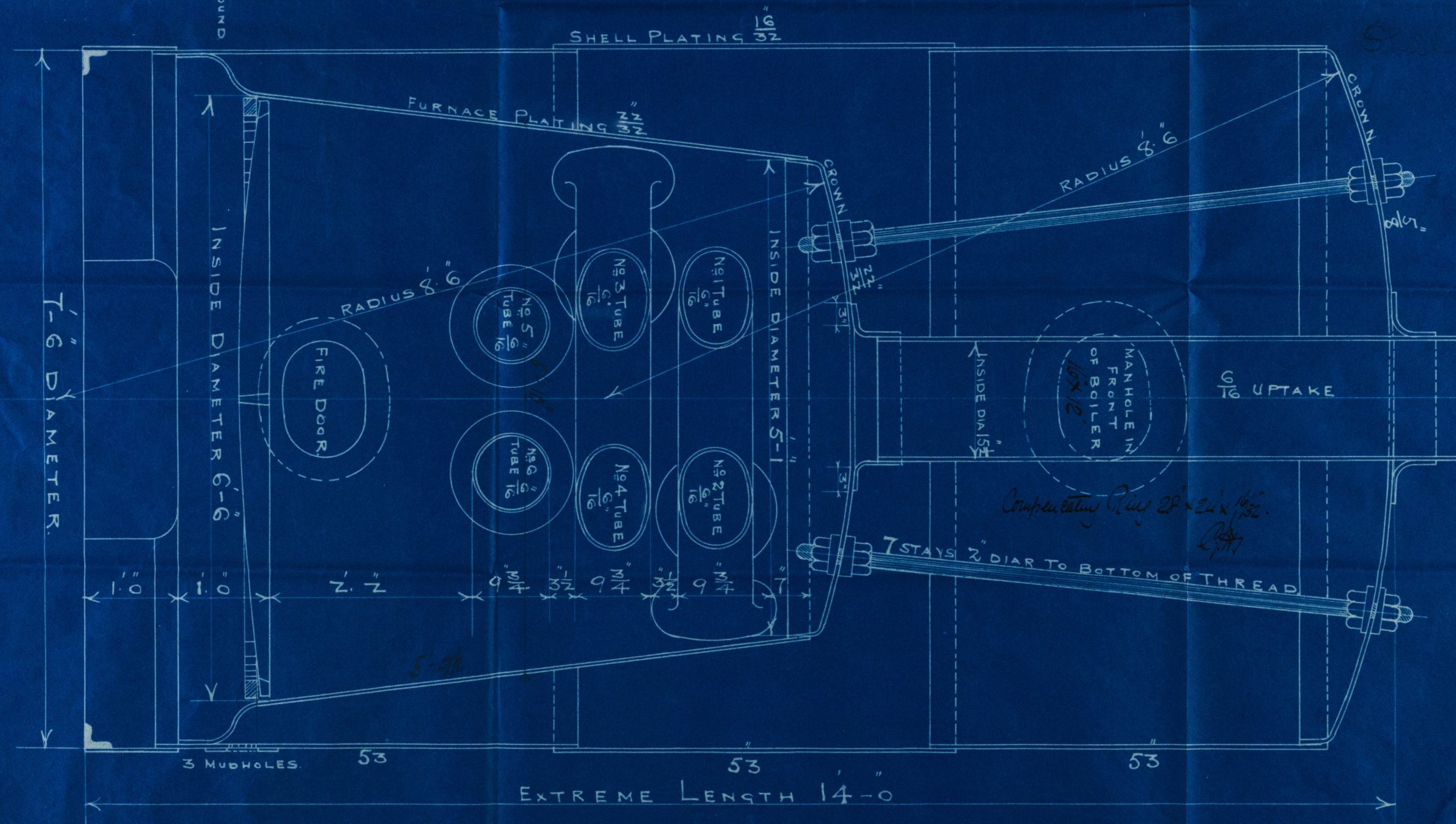
1/8" STEEL RIVETS 2 1/8" PITCH.

HORIZONTAL SECTION SHEWING UPTAKE STAYS AND TUBES.



NOTE. HANDHOLES TO BE CUT IN SHELL OF BOILER. OPPOSITE EACH END OF TUBES.

DOUBLE ROW OF RIVETS ROUND BOTTOM OF FIRE BOX.



TENSILE STRENGTH OF SHELL PLATES TO BE 28 TO 32 TONS PER SQUARE INCH.

PERCENTAGE OF STRENGTH FOR PLATES AT JOINT  $\frac{2.875 - .875}{2.875} \times 100 = 69.56\%$

PERCENTAGE OF STRENGTH FOR RIVETS AT JOINT  $\frac{2 \times .6013}{2.875 \times .5} \times 85 = 71.10\%$

16" 32 STEEL SHELL

$\frac{20.5 \times 6 \times 69.56}{90} = 95.06 \text{ LBS.}$

22" 32 STEEL FURNACE

$\frac{50 \times (300 \times .6875 - 70)}{75.5} = 90.23 \text{ LBS.}$

STOCK. S.5. ONE OFF

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W. Gray & Co. D.B.

Stock S. 5.

Working Purchase

90 lbs per D.

To be fitted on board the  
"S. Armande Amara"  
at Cardiff.

Appl. Report No. 13588.



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