

R.N. 21. 6.95

N^o 1016 Multitubular Boiler for
Messrs J P Pennoldson & sons N^o 168 7/8.
W. Pressure 165 lbs per sq inch
Scale 1" to 1 foot.

Tested to Lloyds & B. of Trade Requirements

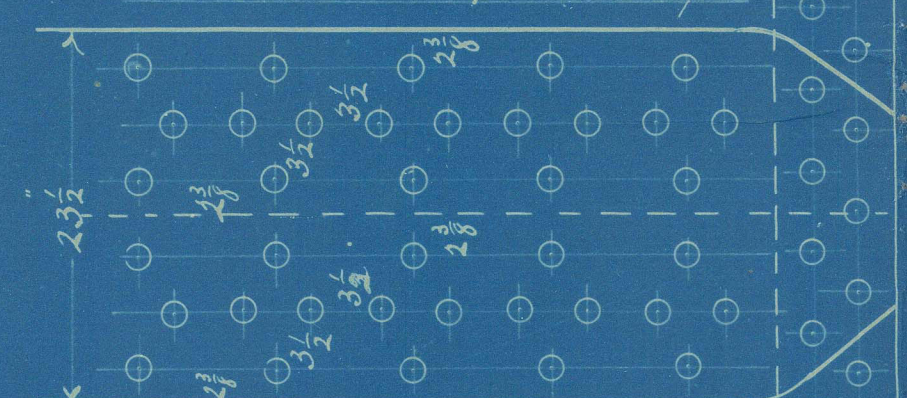
Material

all plates, rivets & stays
of steel. Tubes
of Iron.



Shell Rivetting

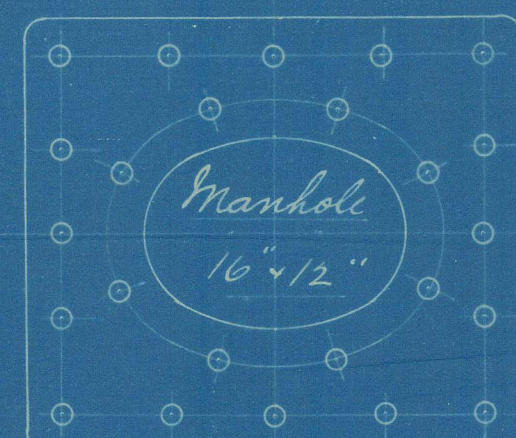
1 9/16" holes 8 3/4" apart & 2 1/2"



Inside & outside butt straps 1/2" thick
All holes in shell drilled in place
after bending shell plates to standard
tensile stress of 28 tons

Heating Surface

Tubes ----- 1945 sq feet
Furnaces ----- 208 "
6 Chambers ----- 290 "
Tube Plates ----- 88 "
Total = 2561 sq feet.



Ring 1 1/2" x 1 1/2"

Uptake 5.3 Square

Manhole
16" x 12"

Ring 1 1/2" x 1 1/2"

Uptake 5.3 Square

Shell 1 1/2"

Stays 2 3/4" off dia (6.1 in dia) (Solid)

11'-0"
Long.

2 plates
1 1/2" thick.

6 stay tubes 3 1/2" dia 1/2" thick.

32 " " " " " " " "

2 1/4 " " " " " " " "

2 1/4 " " " " " " " "

Stay tubes screwed into both plates & those

round the outside of each box, fitted with nuts at

4 one end only

16'-0"
dia

5/8" Plate

Stays 1 1/2" off

1/2" thick.

1" holes 3" apart

3/16" Plate +
1/16" doubling plate

2 1/2" off

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2 1/2" off

Stays 2 1/2" off dia

Washers 7/8"

Washers 7/8"

Washers 7/8"

Washers 7/8"

Washers 7/8"

Washers 7/8"

Washers 7/8"

Washers 7/8"

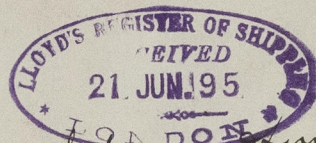
Washers 7/8"

Washers 7/8"

Washers 7/8"

J. J. M.
21/6/95

J. Y. Coltringham & Co
No 1016



Remitted to ss No 168

No 4691
Lloyds List-
320th
R. H
1-11-95

ss "Champion"

NWC Rpt No 32702



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Lloyd's Register
Foundation

NWC 844-0170