

4066.

H.B. 274-99

A.S. 3/3/99

HEATING SURFACE

650 Tubes $2\frac{1}{2}$ Ext Dia \times 4'-6" Long = 3190 ff.
 6 Furnaces $4\frac{1}{2}$ Mean Dia. = 261 ff.
 T & S of Combustion Chamber = 168 ff.
 Back Tube Plates = 41 ff.
 Front = 62 ff.
 Total H.S. in one Boiler = 3452 ff.
 Two Boilers = 7504 ff.

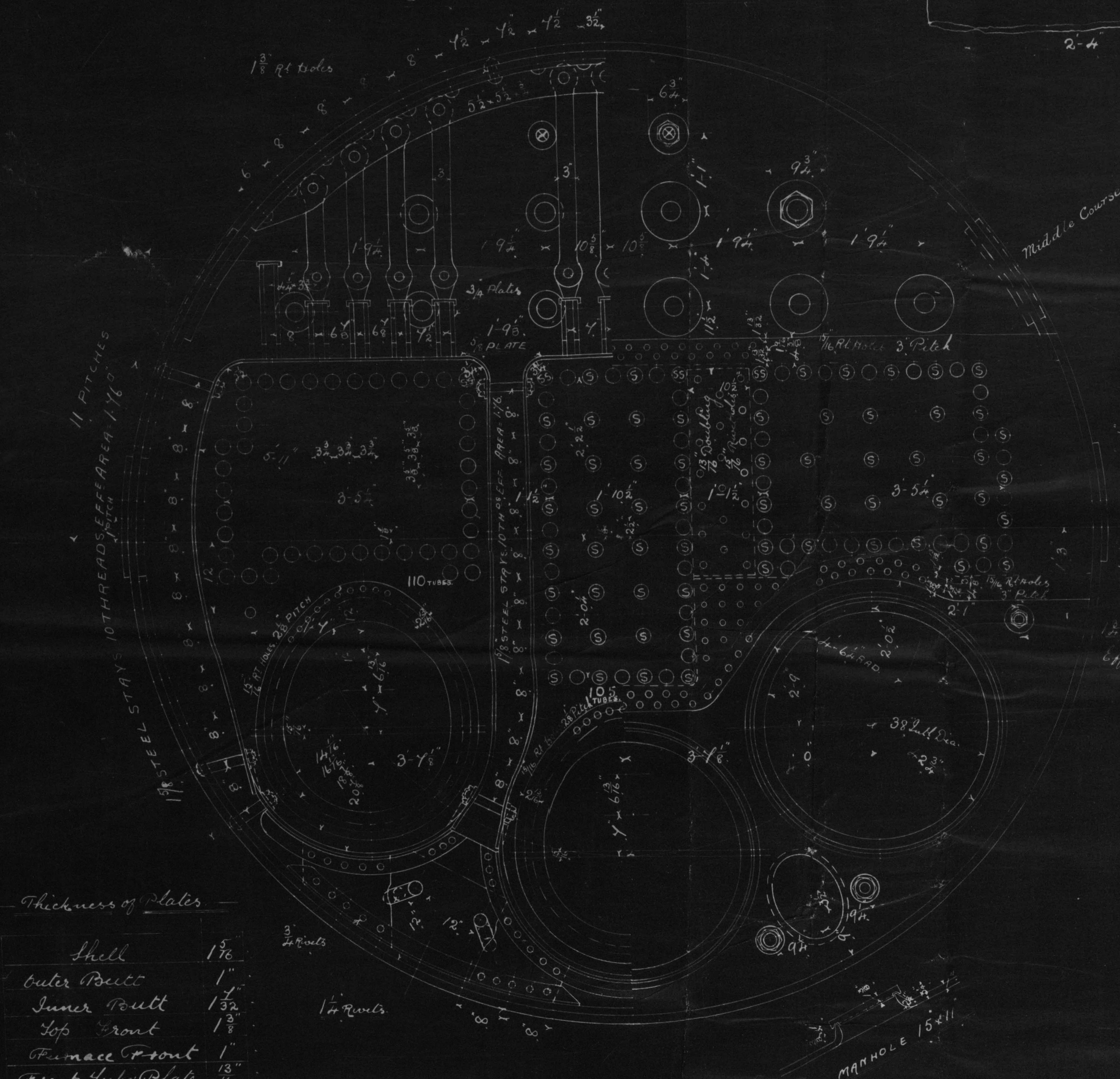
Plate Surface

6 Furnaces $3\frac{1}{2} \times 4 \times 10$ Bar = 91.57 ff.
 Total in Two Boilers = 183.14 ff.

$$\frac{H.S.}{G.S.} = 40.97 \quad \frac{T.S.}{G.S.} = 34.8$$

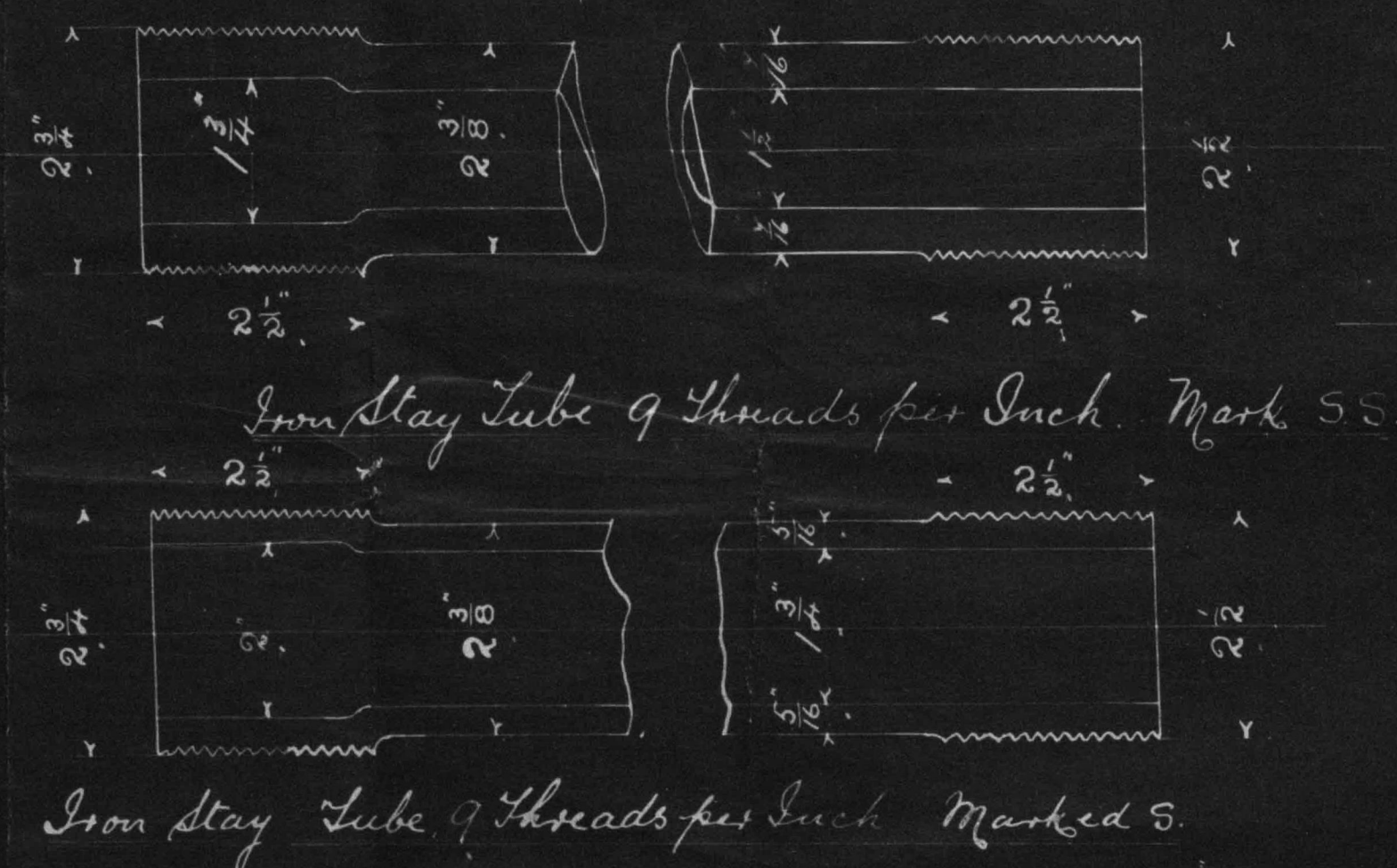
Steam Space Slugs

$$\begin{aligned} \text{3 1/2" Dia 6 1/2" Threads Eff. Area} &= 4.239 \text{ sq. ft.} \\ \text{8 2 1/2" 8" Threads Eff. Area} &= 3.431 \text{ sq. ft.} \end{aligned}$$



Thickness of Plates

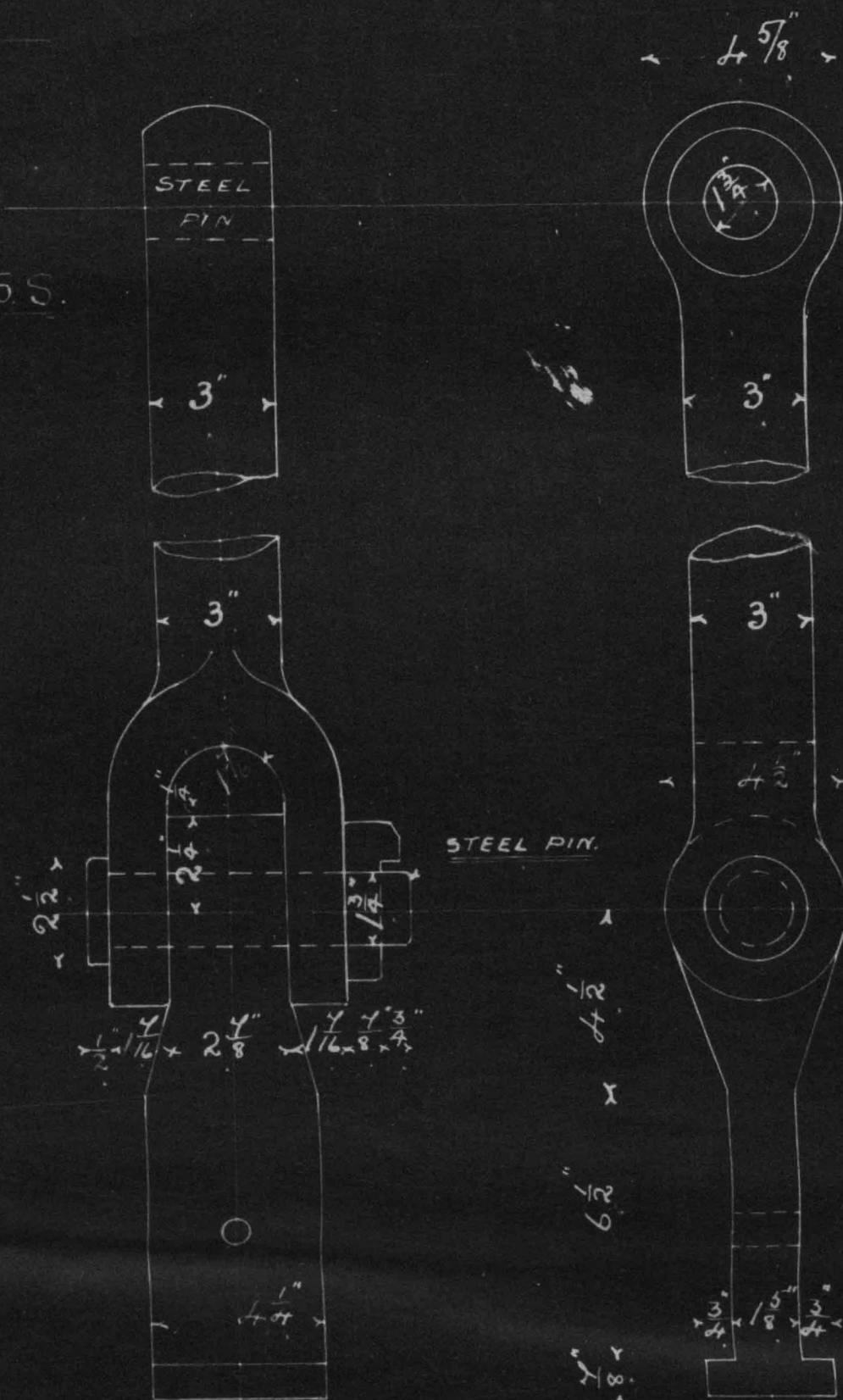
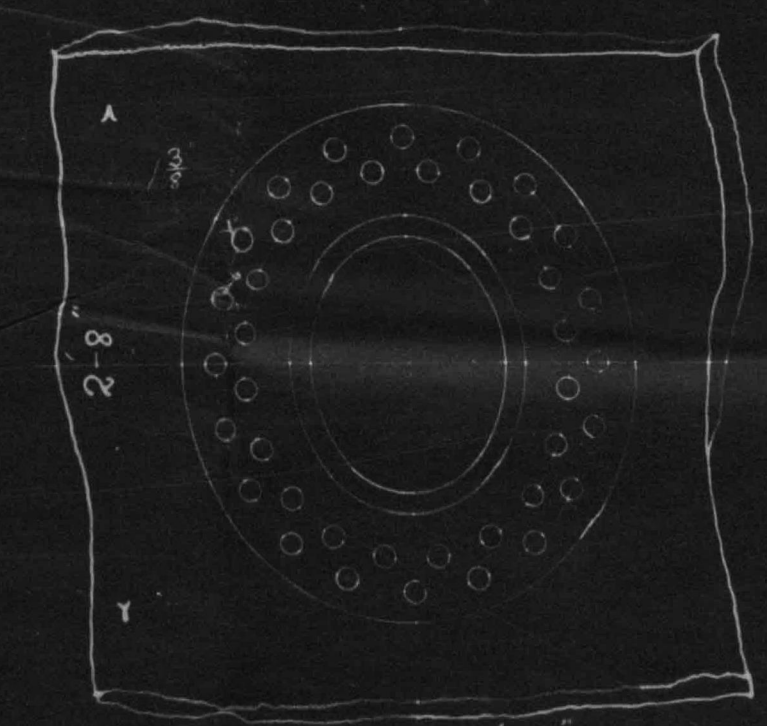
Shell	1 1/8"
Outer Plates	1 1/8"
Inner Plates	1 3/8"
Top Front	1 1/8"
Furnace Front	1 1/8"
Front Tube Plate	1 1/8"
Back Tube Plate	1 1/8"
T & S Comb. Cham	1 1/8"
Bottom	3/4"
Furnace	5/8"



Iron stay Tube 9 Threads per Inch Marked S.

NOTE: DO NOT COME RING

16 x 12 x 1/2"



STEEL PIN

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Longitudinal Joint

Plate $1\frac{1}{16}$ ", Rivet holes $1\frac{1}{8}$ ", Pitch $9\frac{1}{2}$ ", Butt Straps Center 1"
 Percentage of Plate = 85.5
 Rivets = 8 of T = 85.7, Lloyd's = 88.4
 Combined P & R = 85.7, Lloyd's = 88.4
 Working Pressure = 193 lbs. = 218 lbs.
 Factor of Safety = 4.5

Center Line Joint

Plate $1\frac{1}{16}$ ", Rivet holes $1\frac{1}{8}$ ", Pitch $9\frac{1}{2}$ "
 Percentage of Plate = 67.16
 Rivets 8 of T = 66.6, Lloyd's = 67.8

End Line Joint

Plate $1\frac{1}{16}$ ", Rivet holes $1\frac{1}{8}$ ", Pitch $9\frac{1}{2}$ "
 Percentage of Plate = 54.8
 Rivets 8 of T = 54.7, Lloyd's = 56.6

All Rivet holes Drilled in Place
 Tensile Strength of Shell Plates 28 to 32 Tons
 " " other Plates 26 to 30

STEEL MAIN BOILERS - 2 OFF

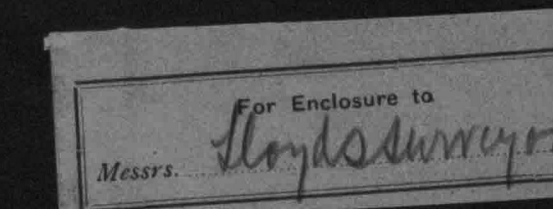
13'-6" DIAMETER \times 19'-0" LONG \times 190 LBS.

TO PASS BOARD OF TRADE & LLOYD'S SURVEYS

TUBES & VERTICAL STAYS TO BE OF IRON. ALL OTHER PARTS STEEL

SCALE - ONE INCH = ONE FOOT

Nº 167
 Nº 168



Belfast
W. H. K. Man. Clerk. S.S. 168
Main Railways
S.S. "Camoens"
Belf 5177

BEL70-0173



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Foundation