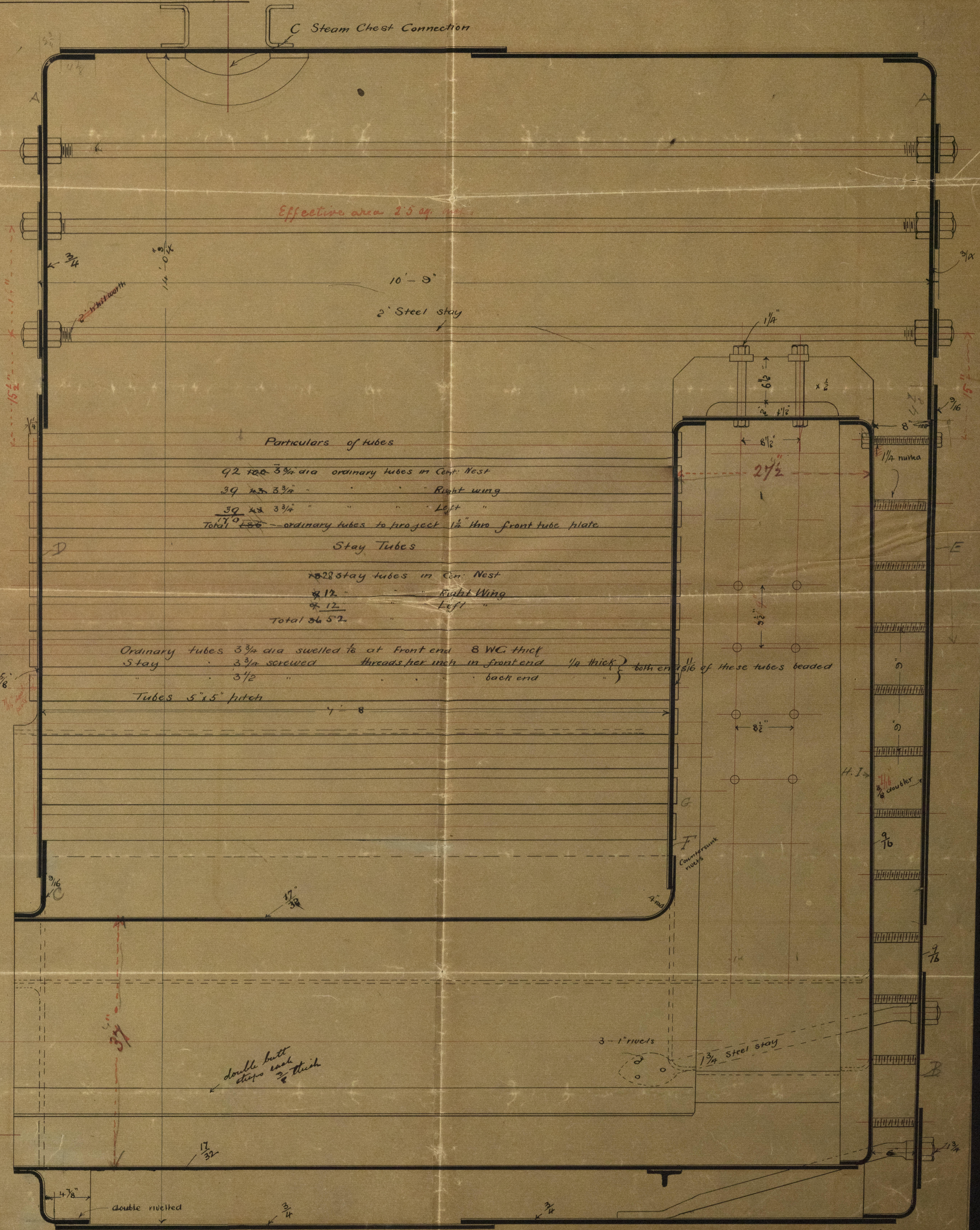
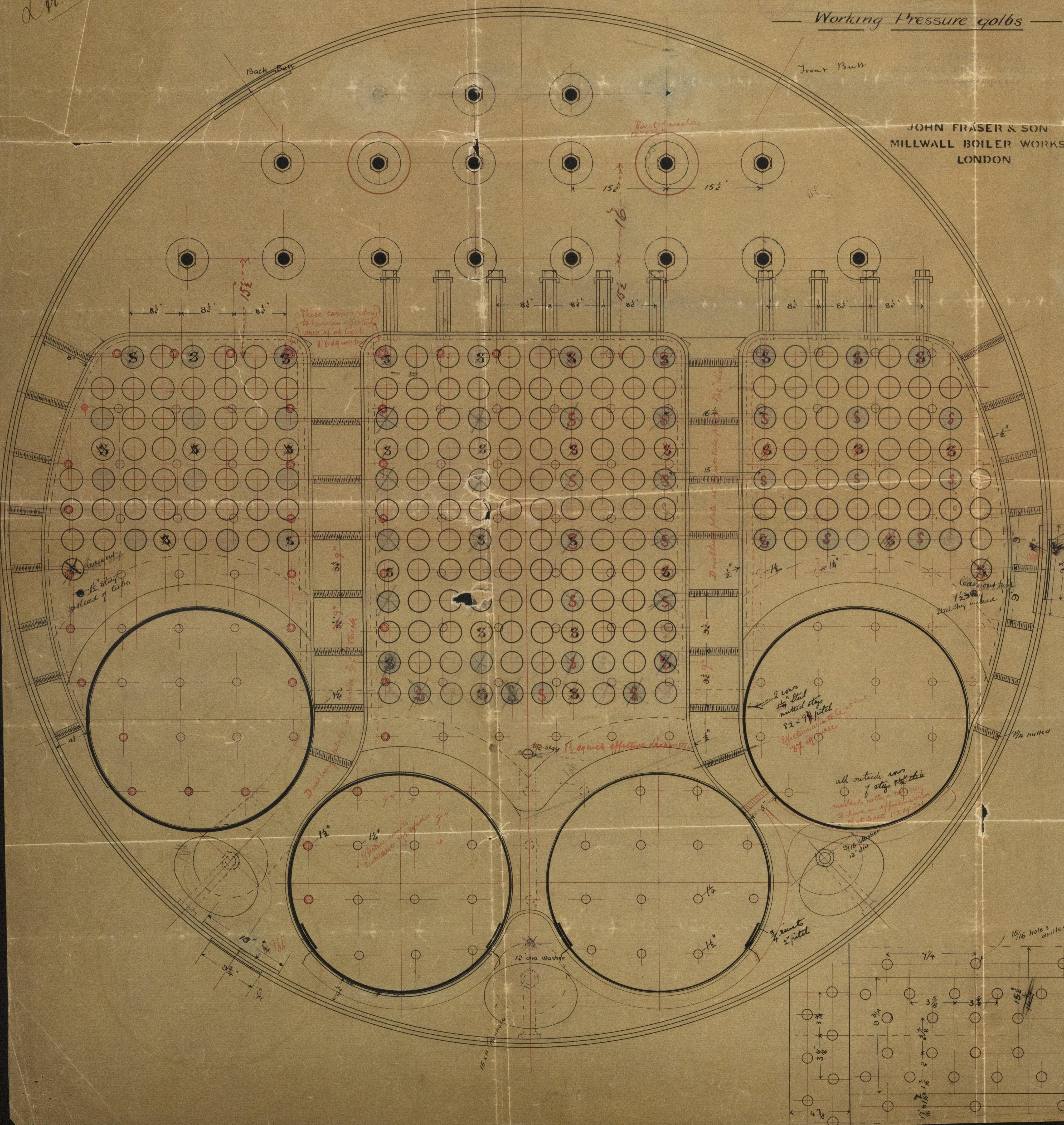


Dr. H. 10.92

*S.S. Grappler*  
14' 0" x 10' 9" marine Scale 1/2"

Working Pressure 90 lbs

JOHN FRASER & SON  
MILLWALL BOILER WORKS  
LONDON



# Particulars of tubes

92	2 3/4 dia	ordinary tubes in Cent. Nest
39	2 3/4	Right wing
39	2 3/4	Left
Total 170 — ordinary tubes to project 1 1/2" thru front tube plate		

## Stay Tubes

128	stay tubes in Cent. Nest
12	Right Wing
12	Left
Total 152	

Ordinary tubes 2 3/4 dia swelled 1/8" at front end 8 WG thick  
 Stay tubes 3 3/4 dia screwed threads per inch in front end 1/4 thick } both ends of these tubes beaded  
 back end

5' x 5' pitch

The diagram illustrates a vertical tube assembly. At the top, a horizontal dimension of 8 1/2" is indicated. Below this, a vertical dimension of 2 1/2" is shown. The main body of the tube is labeled with a vertical dimension of 1". At the bottom, there are two circular cross-sections of the tube, each with a vertical dimension of 1" between them. A bracket on the right side of the bottom section indicates that both ends of the tube are beaded.



50752-0024

bottom plates

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

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

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

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

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

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

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

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

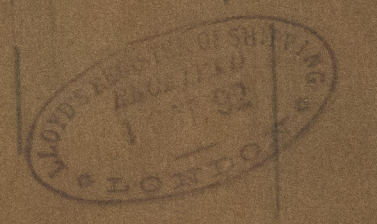
1/2" x 1/2" x 1/2"

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

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

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