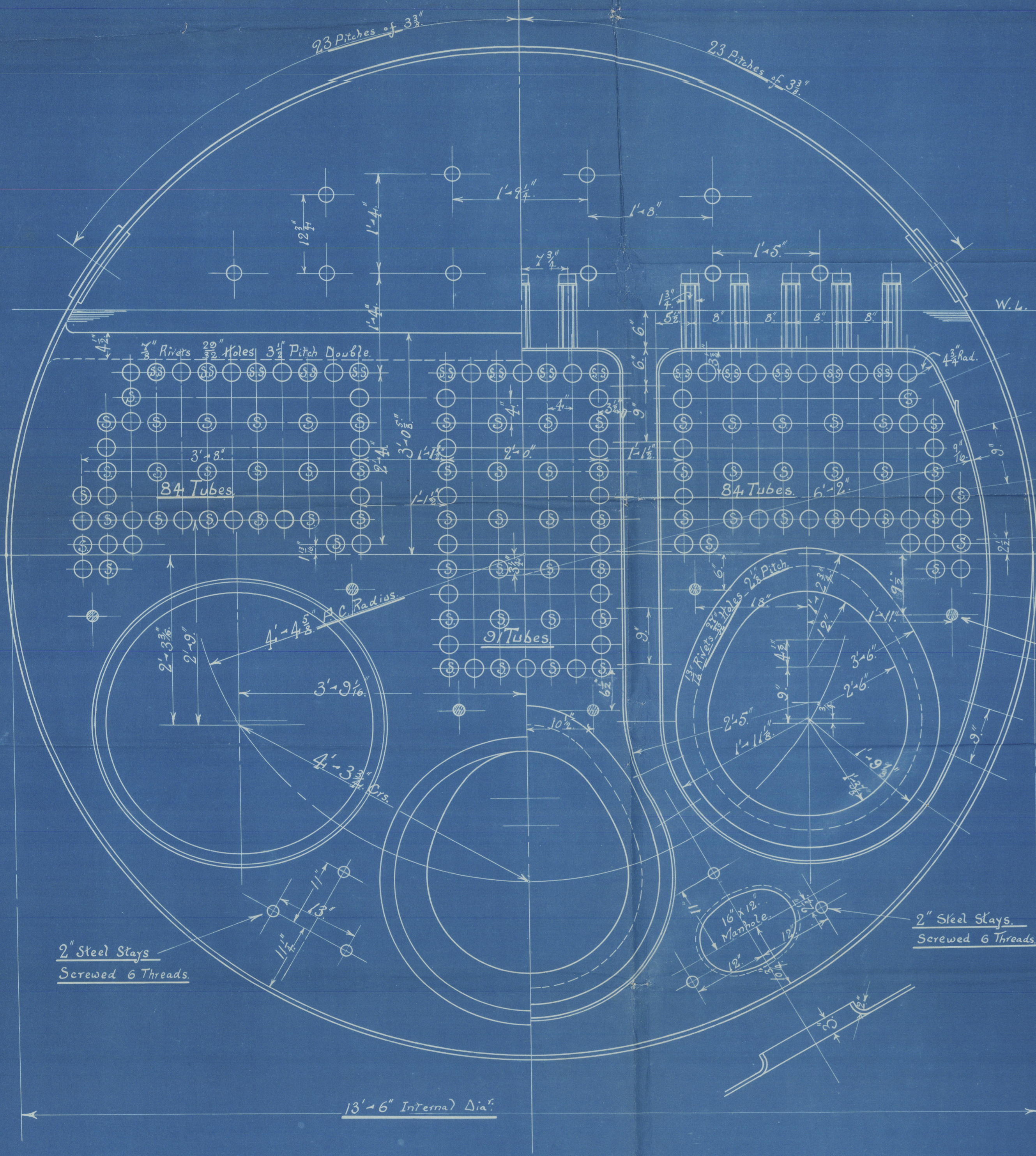


Surfaces	
Tubes.	1437.4 #
Fireboxes.	230.5 #
Furnaces.	142.8 #
Total Heating Surface.	1810.7 #
Grate Area. 5' 0" Bars.	52.5 #
Tube Area.	9.6 #
Steam Space.	300.3 C.F.
Grate Area: Heating Surface.	1: 34.4.
Tube Area: Grate Area.	1: 5.4.

Limits of Tensile Strength.	
Shell, Butt Straps.	28 to 32 tons.
End Plates, C.C. Plates & C. Stays.	26 " 30 "
Girders and Longit. Stays.	28 " 32 "
Furnaces.	26 " 30 "
Rivets.	26 " 30 "

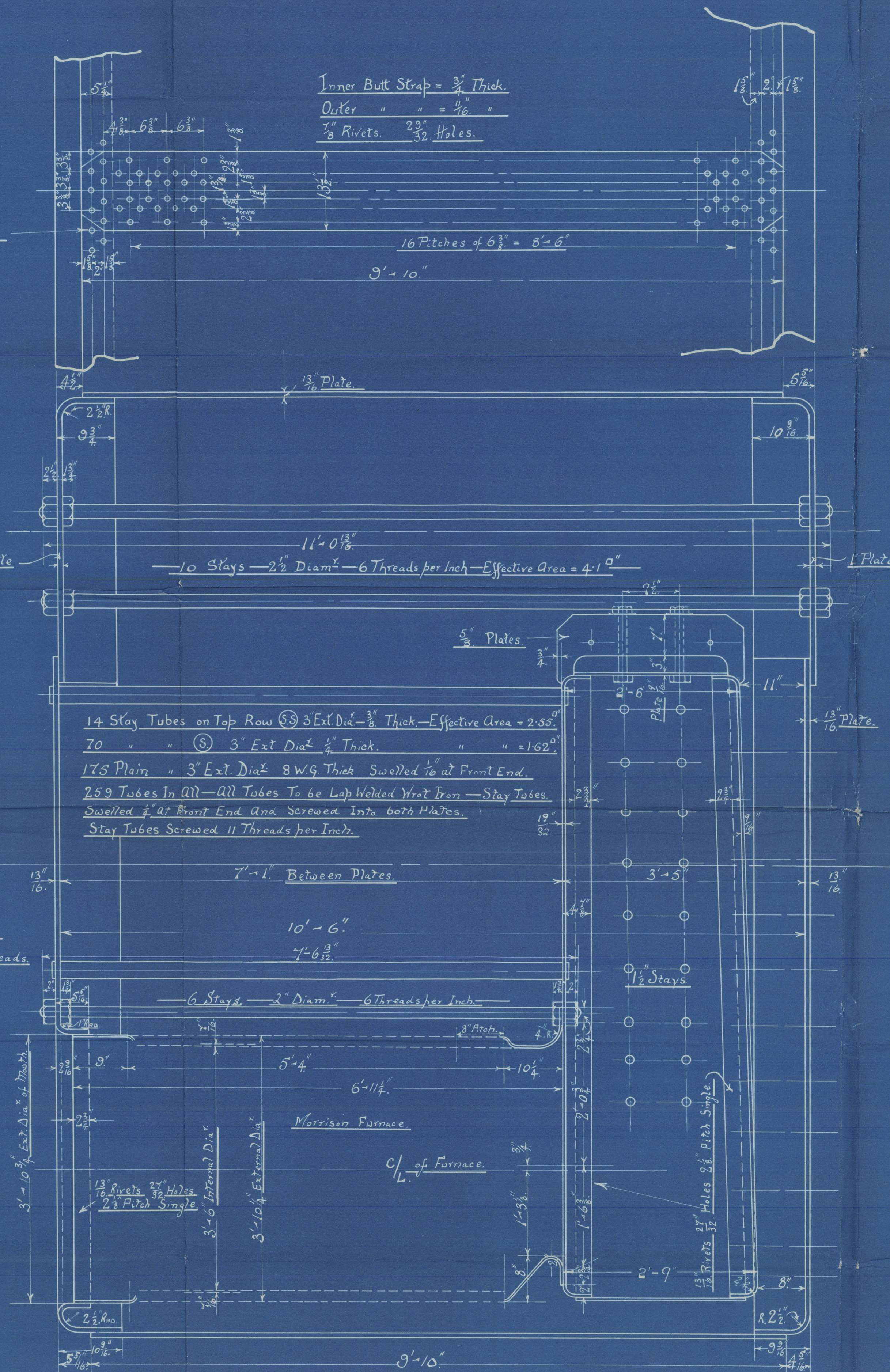
Percentages.	
Longitudinal Plate.	85.6 %.
Rivet.	92 %.
Circumferential Plate.	68 %.
Rivet.	54 %.



1" Rivets 1 1/2" Holes

2" Steel Stays  
Screwed 6 Threads

2" Steel Stays  
Screwed 6 Threads



Inner Butt Strap = 3/4" Thick.  
Outer " " = 1/2" "  
7/8" Rivets. 23 3/8" Holes.

1" Plate

14 Stay Tubes on Top Row 3" Ext. Dia. 3/8" Thick. — Effective Area = 2.55"  
70 " " 3" Ext. Dia. 1/2" Thick. " " = 1.62"  
175 Plain " 3" Ext. Dia. 8 W.G. Thick Swelled 1/8" at Front End.  
259 Tubes In All — All Tubes To be Lap Welded With Iron — Stay Tubes.  
Swelled 1/4" at Front End and Screwed Into both Plates.  
Stay Tubes Screwed 11 Threads per Inch.

7'-1" Between Plates

10'-6"

7'-6 3/8"

6 Stay Tubes — 2" Diam. — 6 Threads per Inch

5'-4"

6'-11 1/2"

Morrison Furnace

C/L of Furnace

9'-10"

Firebox Stays — Steel.			
Position.	Mark.	Dia.	Effect. Area.
Tops, Sides & Back	○	1 1/2"	1.47.
Marginal on Back	◎	1 3/4"	2.06.

— Stays Screwed 10 Threads per Inch — To Be Screwed Through Both Plates. —

Not On Both Ends. 1" Deep.

Bevel Washers Fitted in Fireboxes.

— MAIN BOILER N<sup>o</sup> 1093. —  
13'-6" INT. DIA X 10'-6" INT. LENGTH.  
LLOYD'S SURVEY.  
W.P. = 125 LBS./sq. TEST PRESS. = 250 LBS./sq.  
SCALE 1" = ONE FT.

Ms 80-0027 2/2  
F. 31.

BOW, McLACHLAN & CO., LTD.,  
PAISLEY.

© 3/4/20  
This enclosure to be sent to

19

Lloyd's Register  
Masses Lloyd's Register  
Foundation  
2/25/20

Bow M<sup>c</sup>Lachlan.

10 9 3.

Amended Plan—  
as approved.

1/5 "Bulmore."

GLASGOW REPORT No.

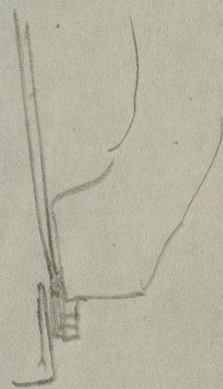
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