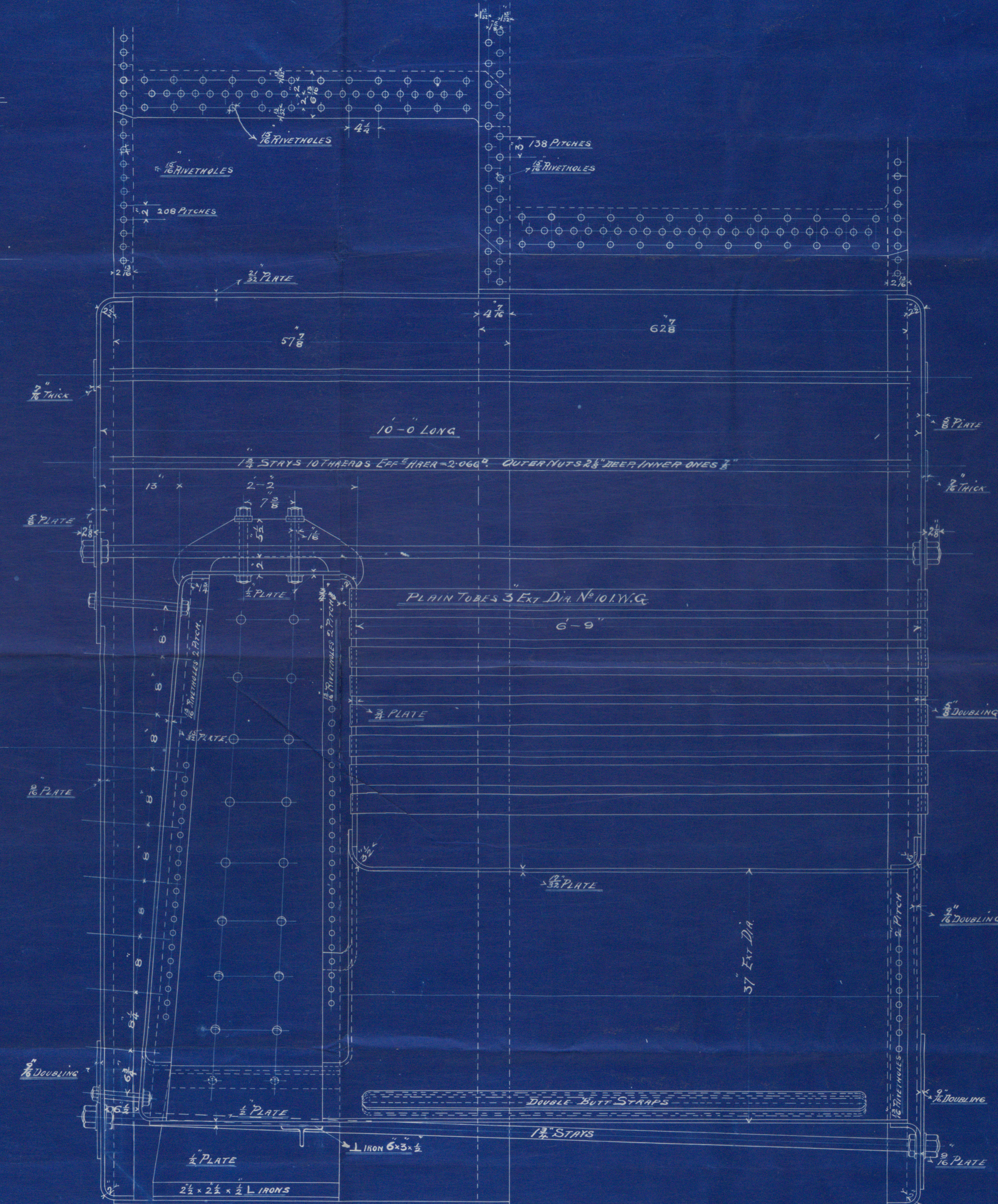
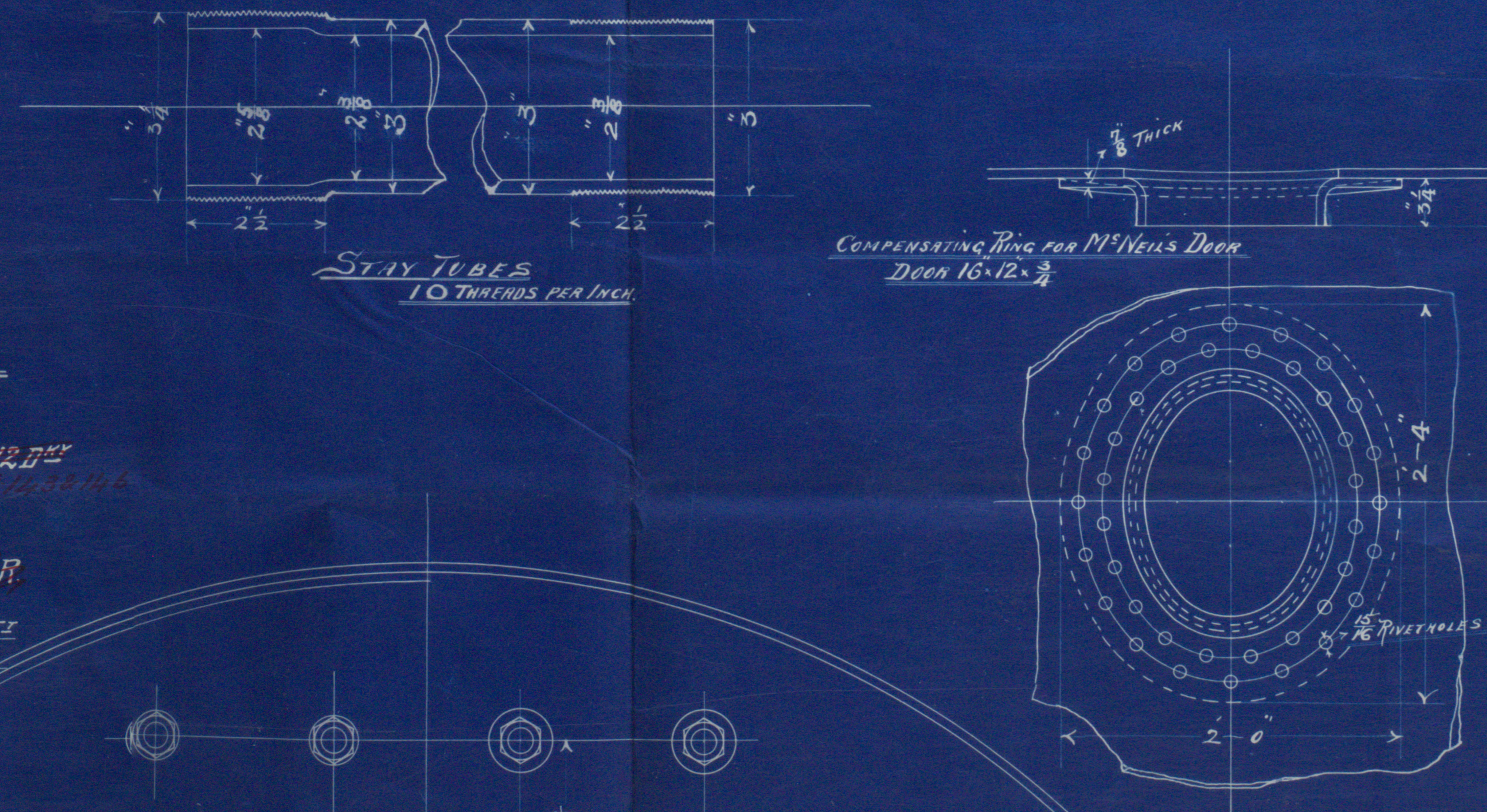


No 1222

**HEATING SURFACE**  
 180 TUBES 3" EXT. DIA. 6'-9" LONG = 954.0 ft.<sup>2</sup>  
 2 FURNACES 37" " " = 72.22  
 BACK OF FIRE-BOX " " = 31.5  
 T & S OF " " = 34.84  
 BACK TUBE PLATE " " = 27.25  
 FRONT " " = 18.25  
**TOTAL** = 1138.06

**GRATE SURFACE**  
 2 FURNACES 36" INT. DIA. 6'-0" BARS = 36.0 ft.<sup>2</sup>  
 HEATING SURFACE " " = 31.6  
 GRATE SURFACE " " = 31.6  
 FIRE BARS 5'-9" LONG FOR N<sup>o</sup> 1 R. = 10.8  
 GRATE AREA IN 4 FURNACES = 69.0 ft.<sup>2</sup>  
 N<sup>o</sup> 1 R. = 33  
 N<sup>o</sup> 2 R. = 33  
 STEAM SPACE IN ONE BOILER FROM 9" ABOVE FIRE-BOX = 189 Cub. Ft.  
 WEIGHT OF FRESH WATER (ONE BOILER) " " " = 13.6 TONS



**LONGITUDINAL JOINT**  
 PERCENTAGE OF PLATE = 77.94 OF RIVETS = 84.96 LBS. 847 BOLT  
 1/2" PLATE 4 1/2" PITCH 18 RIVETHOLES 2 BUTT PATTERN 14-8  
 WORKING PRESSURE BY LLOYD'S = 92.95 LBS. BY B.O.T. = 99.92 LBS

**CENTRE CIRCUM<sup>2</sup> JOINT**  
 PERCENTAGE OF PLATE = 68.75 OF RIVETS = 59.47  
 3/4" PLATE 3 PITCH 16 RIVETHOLES

**END CIRCUM<sup>2</sup> JOINT**  
 PERCENTAGE OF PLATE = 55.15 OF RIVETS = 44.6  
 3/4" PLATE 2 PITCH 16 RIVETHOLES

NOTE: BUILDER OF STEEL TUBES ONLY 1/2" DIA.  
 RIVETHOLES JOINED IN PLACE  
 TENSILE STRENGTH OF STEEL PLATE 27,500 LBS.  
 " " " " " " " 26,000 LBS.

PLATE LIST		
N <sup>o</sup>	DESCRIPTION	LENGTH BARS
2	SHELL	18'-0" x 63 1/2" x 3/4"
1	"	22'-6 1/2" x 58 1/2" x 3/4"
1	"	13'-0 1/2" x 58 1/2" x 3/4"
1	TOP FRONT	18'-0" x 63 1/2" x 3/4"
1	TOP BACK	18'-0" x 63 1/2" x 3/4"
1	FURNACE FRONT	18'-0" x 63 1/2" x 3/4"
1	BOTTOM BACK	18'-0" x 63 1/2" x 3/4"
1	BACK TUBE PLATE	10'-0" x 63 1/2" x 3/4"
1	" OF FIRE-BOX	9'-1 1/2" x 87 1/2" x 3/4"
1	T & S OF "	21'-4" x 27 1/2" x 3/4"
1	BOTTOM OF "	7'-8" x 28" x 3/4"
1	GUSSET	2'-8" x 19 1/2" x 3/4"
2	FURNACES	9'-7" x 90 1/2" x 3/4"
4	FURNACE BUTT STAMPS	6'-1" x 54" x 1/2"
1	GIRDERS	12'-3" x 26 1/2" x 1/2"
1	WISHERS	4'-9" x 25" x 1/2"
1	DOUBLING PLATE	5'-1" x 10 1/2" x 3/4"
1	" PLATES	4'-0" x 16 1/2" x 3/4"
1	" PLATES	5'-4" x 17 1/2" x 3/4"
1	" STAY BARS	5'-11" x 23" x 3/4"
18	BARS 10'-8" LONG 1 1/2" BARE DIA.	
5	" 10'-0" " 1 1/4" " "	
14	" 10'-0" " 1 1/8" " "	
2	" 10'-8" " 1 1/2" " "	

**No 12**  
 LLOYD'S  
 ONLY

**No 1 R.** (M.B.) 2 OFF

**No 143. 146.**

**STEEL DONKEY BOILER.**  
 11'-0" DIA 10'-0" LONG. 90 LBS PRESSURE  
 TO PASS LLOYD'S SURVEY  
 AND BOARD OF TRADE

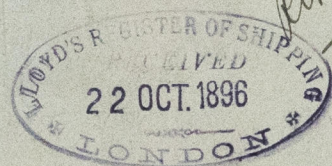
SCALE 1 1/2" INCH TO ONE FOOT



Belfast  
Messrs Workman  
Clark & Co's

Nos. 143 & 146

Donkey  
Boiler



Ref No 4869

<sup>4</sup>/<sub>4</sub> Beacon frange  
Ref. 4869

BEL68-0142



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Foundation