


12.655 Atms

All Plates Rivets Girders & Stays of Steel Tubes of Wrought Iron

Scale 1" = 1 foot

T.B.

F N C		FURNACES		DATE
728	3 OFF	Intended for Messrs Bartram & Sons.	S/S No 220	Morison's May 17 th 11
728	3 OFF	" " " " " " "	221	" " Aug 3. 11.



Heating Surface in
3 Boilers = 1275 ft

Stays				
Dia	THROATS PER INCH	EFF DIA	EFF AREA	TENSILE STRENGTH
1 1/2"	9	1.607	2.031	276.30 Tns 40.8 To 4.2 Kilos 28.5 sq" M
1 1/2"	9	1.857	1.45	276.32 Tns 42.5 to 50.4 Kilos per sq 28 to 30 in
2"	6	2.036	3.25	
3"	6	3.161	7.85	
2"	9	1.857	2.60	

Plain Tubes No 8 WG 407 M.
576 OFF 7-7" Long

Hand-drawn technical drawing of a rectangular plate. The drawing includes the following dimensions and features:

- Overall Dimensions:**
 - Length: 276 off (handwritten)
 - Width: 7-7 Long (handwritten)
- Internal Features:**
 - Two vertical rectangular sections on the left and right sides, each labeled "3 1/2" (handwritten).
 - A central horizontal section labeled "276" (handwritten).
 - A small square feature on the right side labeled "3" (handwritten).
- Handwritten Notes:**
 - "Stay Tubes 10 Thick" (handwritten)
 - "Screwed 10 threads per inch Eff Area 32-33" (handwritten)

Straps 18 Thick Rivet Holes $1\frac{5}{16}$ Dia Scale $1\frac{1}{2}" = 1 \text{ foot}$

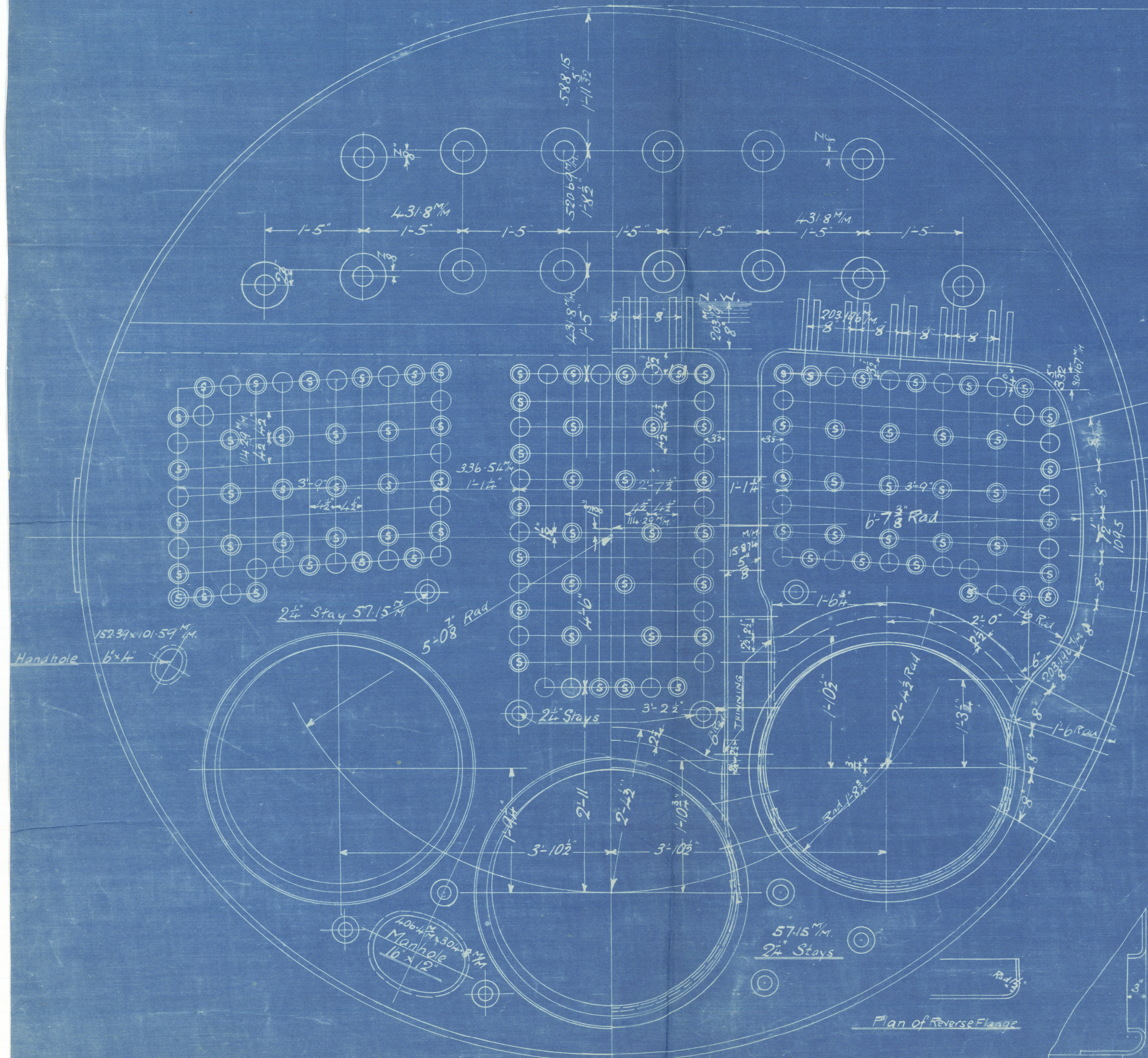
Tensile Strength of girders 28 to 32 Tons per sq. ft.

All other plates, & Furnaces 26 to 30 Tons per \square ^{40.8" 47.2" Tiles per sq. ft.}

Riveting. Tensile strength of rivets: 26 to 30 Tons per sq. in. 40.8 to 47.2 Tons per sq. in.

Front & Back Seams Double Stitched / 30.16 M/M 35.88 M/M 36.5 M/M

Form 2 Bolt Seams. Double Riveted 1/6 Rivet Holes 32 pitch 3/8 lap
Comb Chamf 3 Holes 15 238 M 15 6667 M 15 107.6 M



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J. Dickinson & Sons Ltd.

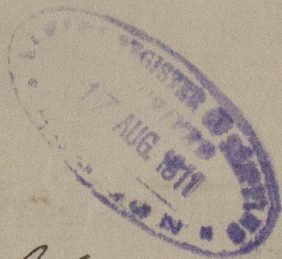
Main Boilers

No. 728

for

Bartram & Sons & Co 221

RETAIN



"Cheltonian"

Sld. Rpt. 25704

RETAIN



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Foundation

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