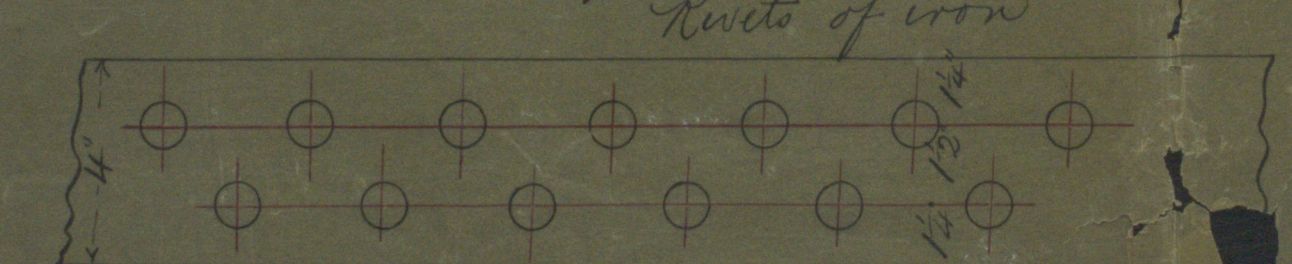


Sh. G. 2141 18/5/86

Riveting for front and back  
Diam of rivets 1", Pitch 3"  
Rivets of iron



Loft

Wm. Blackwood & Co.  
Printers

Boilers for Engine No 295 14x30x80 S.I. No 212

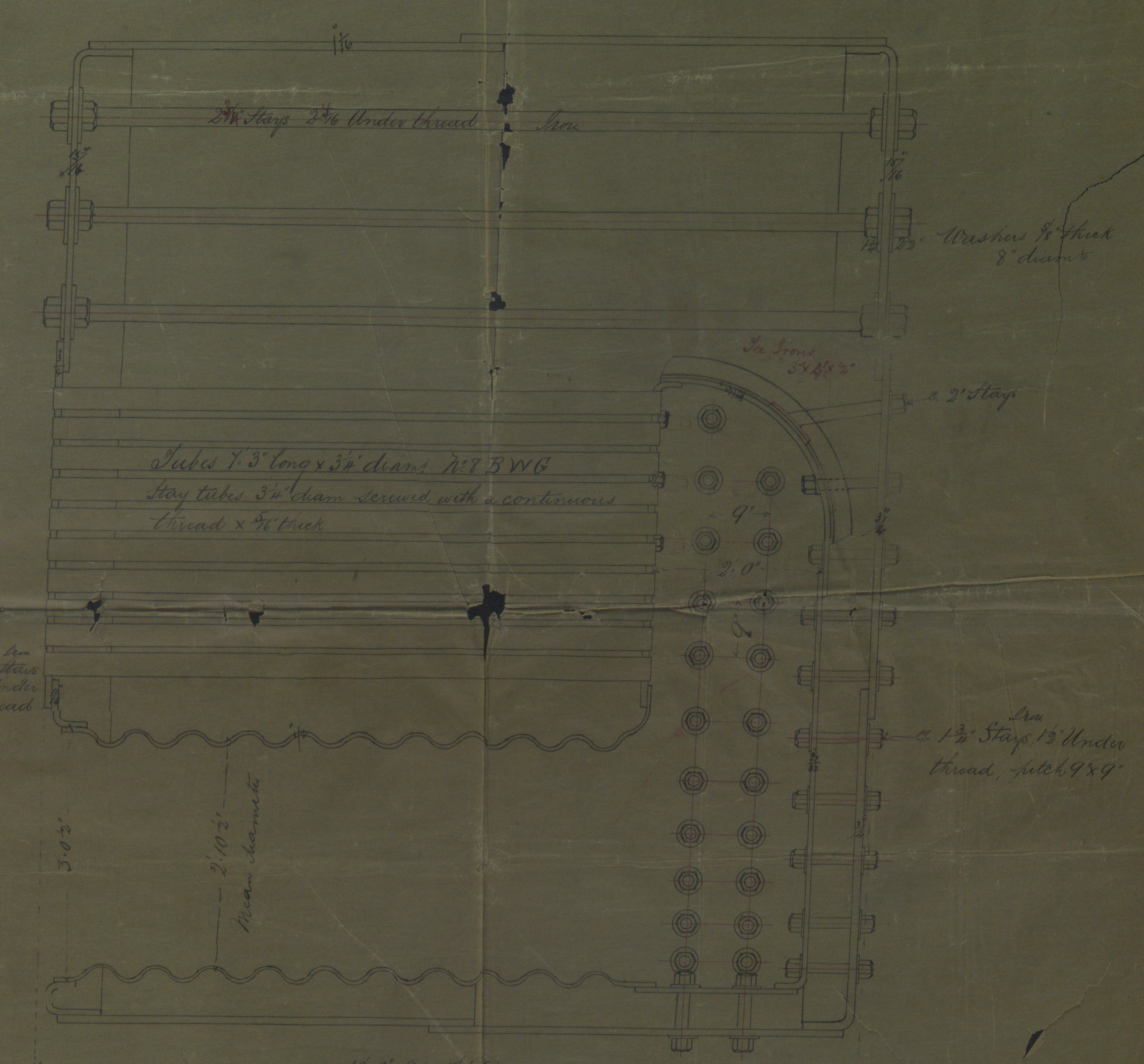
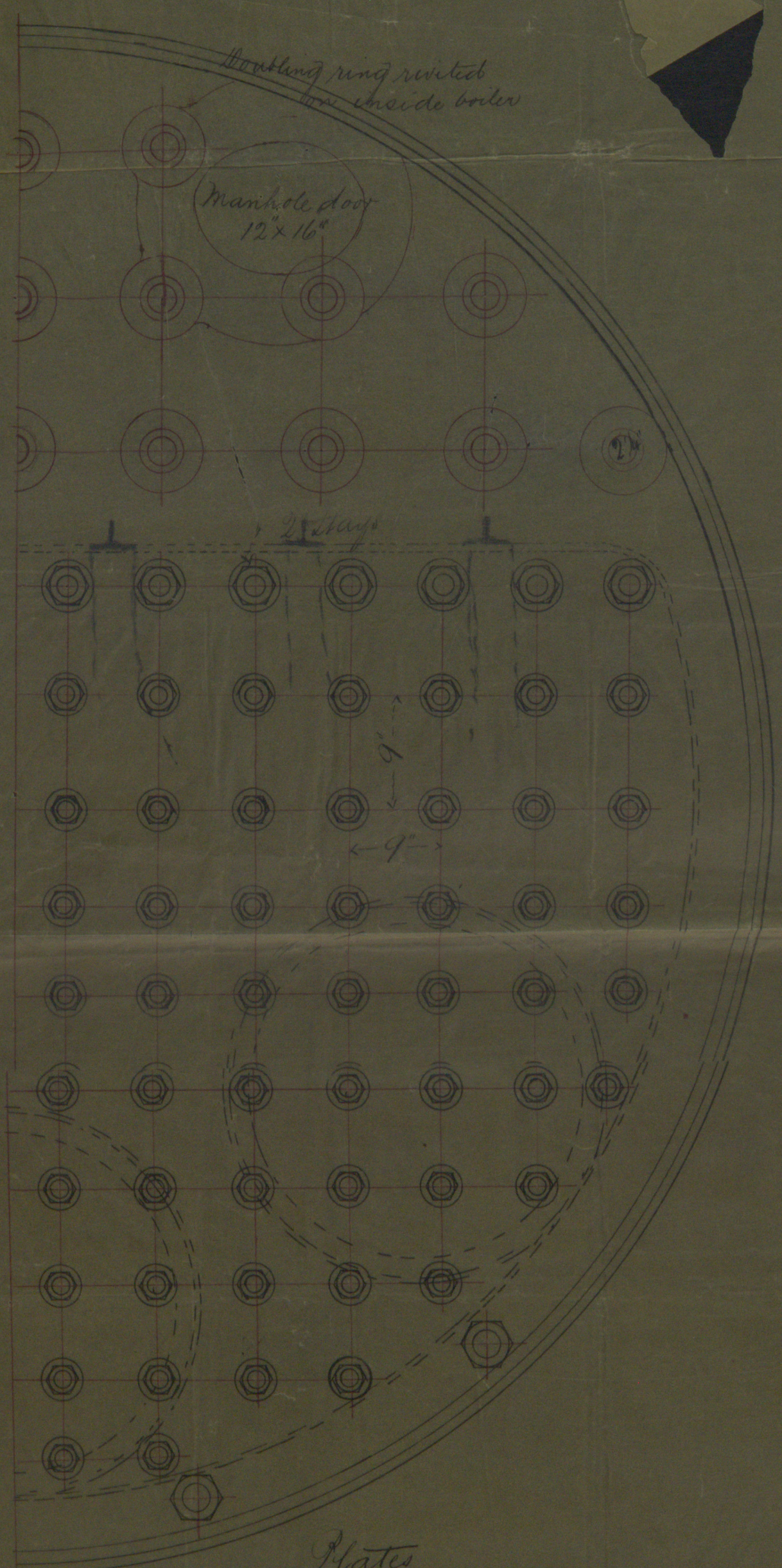
Board of Trade and Lloyd's Regulations for 150 lbs pressure per sq inch

All plates steel, rivets and stays iron

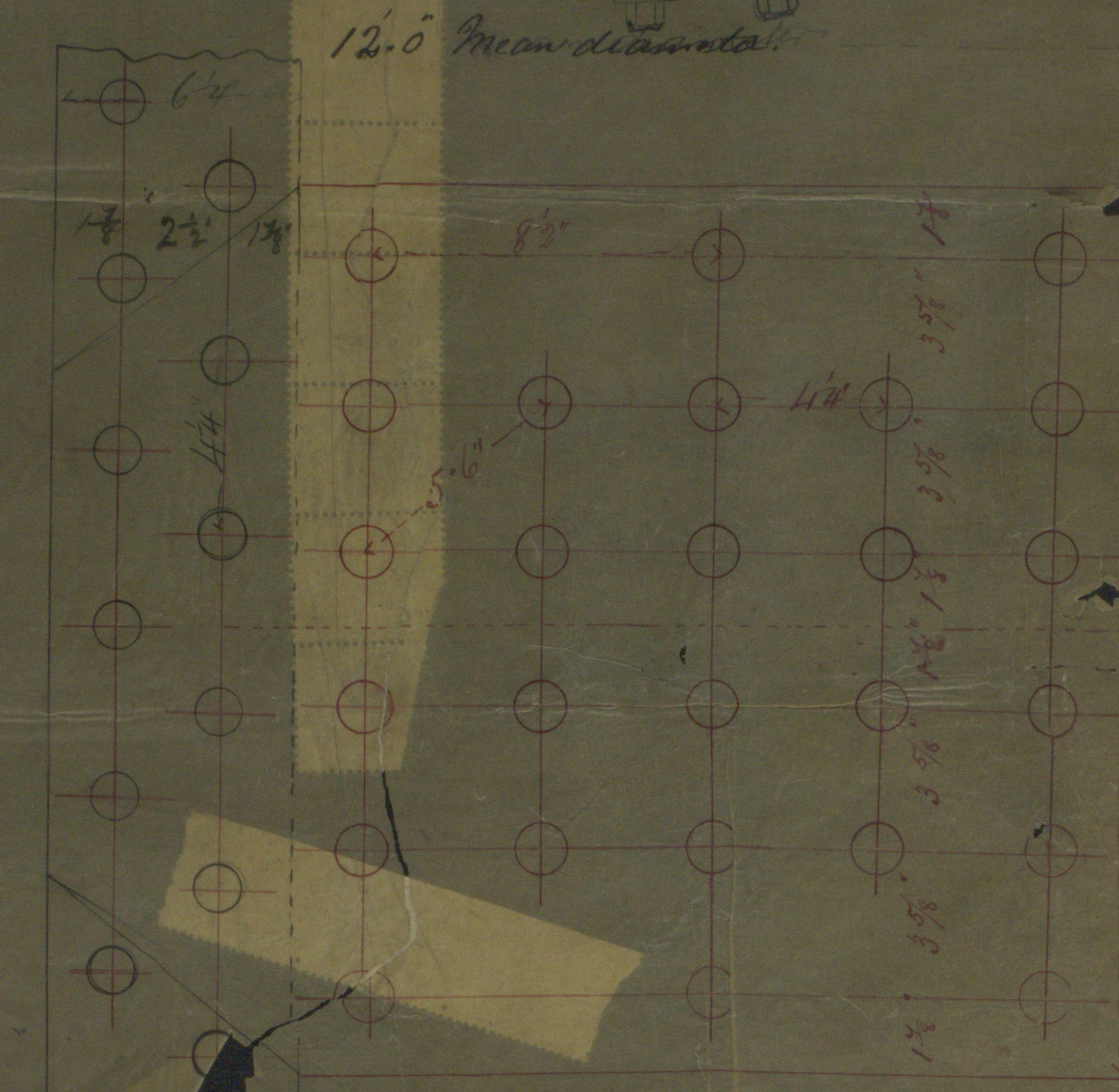
Shell rivets steel, 1 1/2" diam

Shell drilled all over

S.S. Australind:  
Greenock Report No 9223



Shell	A	12	12	8' x 5' 2" x 1 1/4"
Top front chord	B	4	13	6' x 4' 8" x 1 1/4"
Back middle	C	2	13	2' x 4' 8" x 1 1/4"
Bottom	D	2	12	6' x 4' 4 1/2" x 1 1/4"
Front	E	2	13	2' x 6' 3" x 1 1/4"
" tube plate	F	2	13	2' x 4' 4" x 1 1/4"
Back	G	2	11	8' x 4' 4" x 1 1/4"
Sides of fire box	H	4	11	6' x 2' 0" x 3 1/2"
Top	I	2	11	6' x 8' 4" x 3 1/2"
Back	J	2	11	6' x 5' 6" x 3 1/2"
Butt straps	K	24	5	2' x 1' 4" x 1 1/4"
Furnaces	L	6	to sketch	1 1/2"
Back of furnaces	M	2	11	6' x 5' 8" x 3 1/2"



Shell Riveting  
Double butt straps 1" thick  
Diameter of rivets 1 1/2" steel

Factor of Safety	5
A	15
G	15
J	1
L	1

Heat	Area
Tubes	97.13
Turned	148.5
Sub-plates	28.3
Combustion chamber	117.0
Front tube plates	32.0
	1318.93
Total for two boilers	2637.86 Sq feet

Amended Drawing  
exam 17/5/86.  
A.C.H.

D.P.  
18/5/86.

GRK 306

