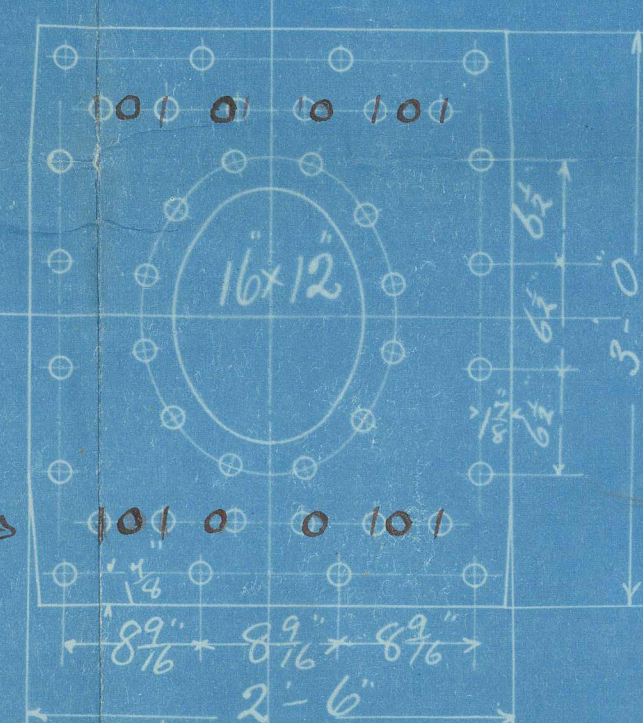


23/11/11

STEEL BOILER N^o A.155.

DOUBLING PLATE ROUND MANHOLE
1 5/32 THICK

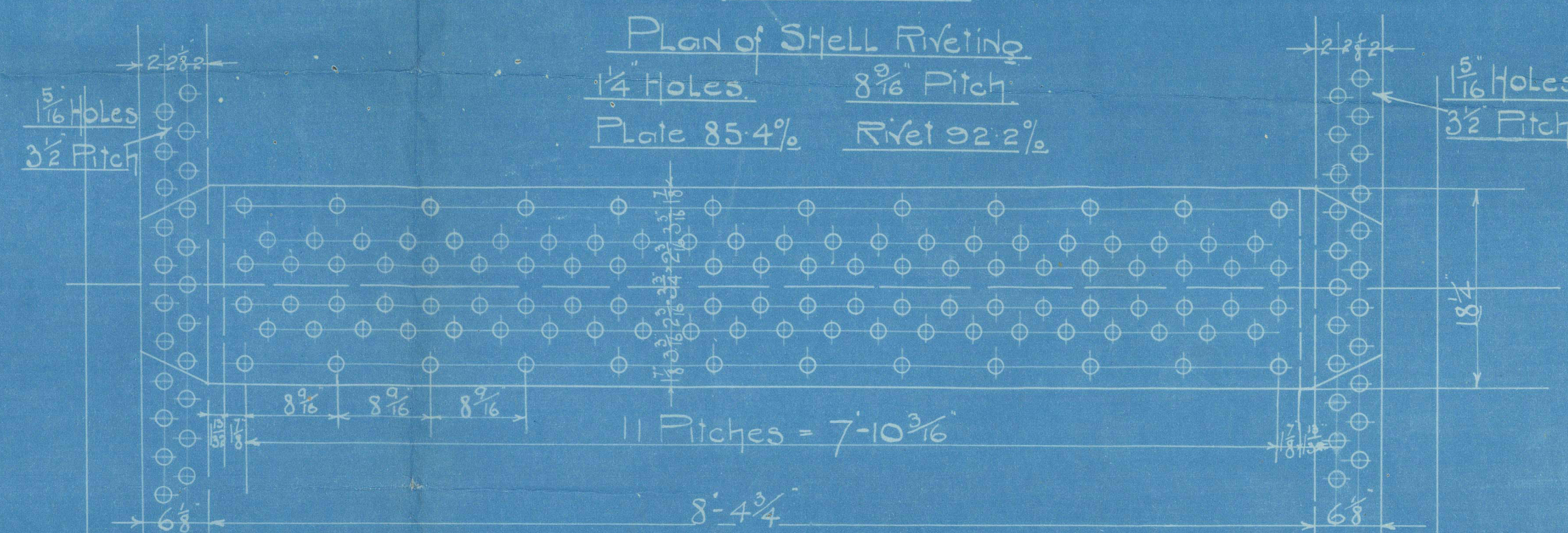


Flange rivets
in row
(long?)

ALL 1/4" RIVET HOLES
INNER ROW COUNTERSUNK.

WORKING PRESS = 200 lbs per sq. in.
TEST PRESS = 400 " " " " } Lloyds
SCALE 1" = 1 FOOT

Plan of Shell Riveting
1 1/4" Holes 8 3/8" Pitch
Plate 85.4% Rivet 92.2%

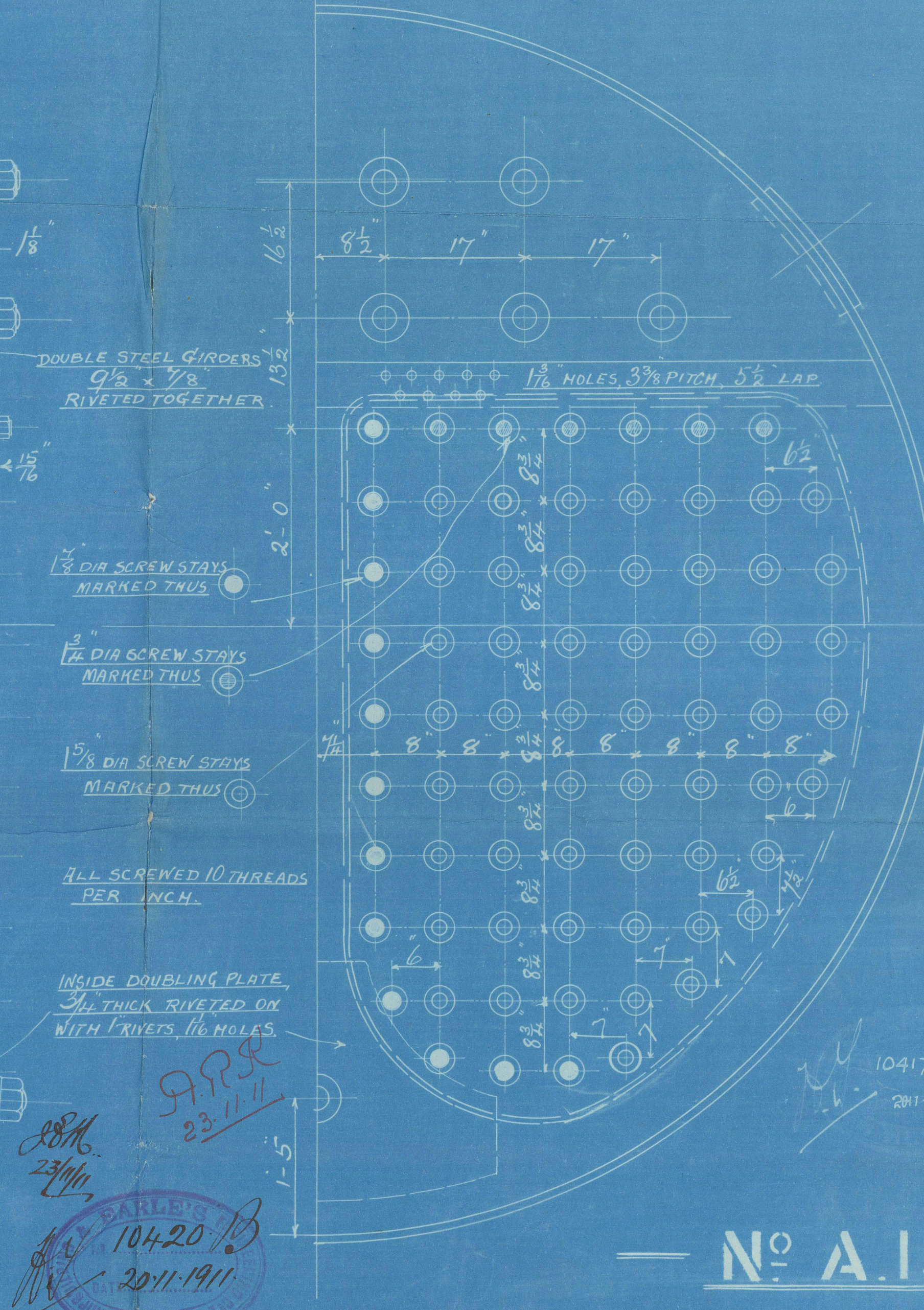
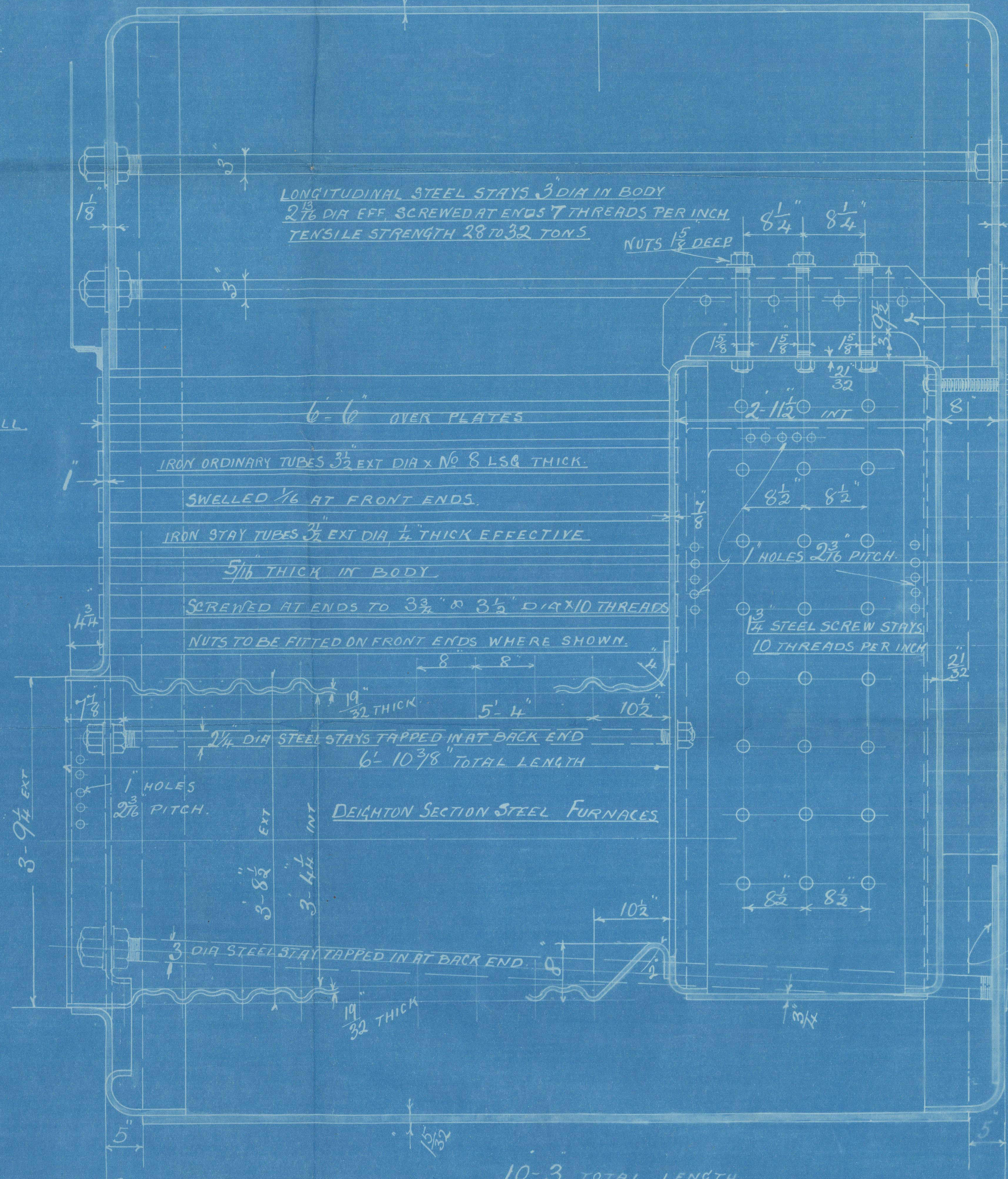
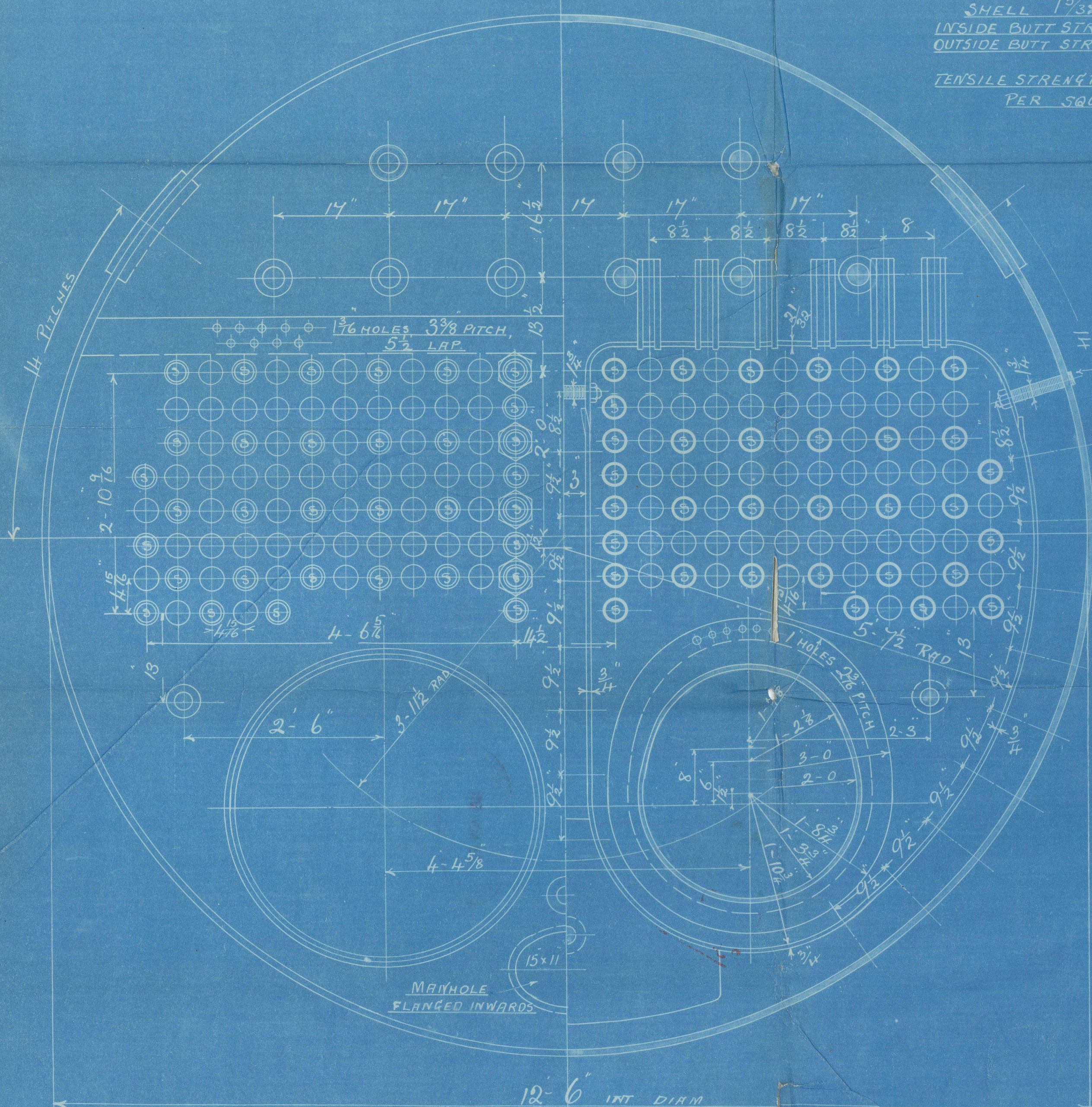


DIMENSIONS

LENGTH OF FIRE BARS	4'-9"
AREA OF FIRE GRATE	32 sq. ft.
DIAM OF TUBES OUTSIDE	3 1/2"
LENGTH OF TUBES OVER PLATES	6'-6"
N ^o OF TUBES	174
AREA THROUGH TUBES	9 sq. ft.
SURFACE OF TUBES	1020 sq. ft.
TOTAL HEATING SURFACE	1300 sq. ft.
WORKING PRESSURE	200 LBS

NOTE: ALL PLATES, STAYS AND RIVETS TO BE OF SIEMENS MARTIN STEEL, ALL RIVET HOLES TO BE DRILLED IN PLACE AFTER THE PLATES ARE BENT, ALL FLANGED PLATES TO BE ANNEALED AFTER FLANGING. THE SCREW STAYS ARE 1 1/2", 1 5/8" & 1 3/4" EFF. DIAM. SCREWED INTO BOTH PLATES & NUTTED WHERE SHOWN, ALL SCREWED 10 THREADS PER INCH. THE TUBES ARE OF IRON THE ORDINARY TUBES ARE 3 1/2" EXT DIA. x 1/4" THICK EFFECTIVE, SCREWED AT ENDS TO 3 3/4" & 3 1/2" DIA. 10 THREADS PER INCH. NUTS FITTED AT FRONT END WHERE SHOWN. A MANHOLE IN SHELL 16" x 12" WITH SHORTER AXIS LONGITUDINALLY AND A DOUBLING PLATE 3'-0" x 2'-6" x 1 5/32" THICK FITTED ROUND IT.

SHELL 1 5/32 THICK
INSIDE BUTT STRAPS = 1 5/32 THICK
OUTSIDE BUTT STRAPS = 7/8 THICK
TENSILE STRENGTH = 88 TO 32 TONS PER SQUARE INCH.



10417 B
20/11/11
Lloyds

N^o A.155.

Means

Excess A 185

Bowler

80

Lloyds List
400 lbs



RETAILED

Emmanuel

Hull Hgt No. 25276

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