

# BLUE STAR LINE STEAMERS.

## SINGLE ENDED BOILERS.

### 3 D.E. & 2 S.E. BOILERS PER VESSEL.

612 B.B. IRON TUBES 2 1/2" EXT. DIA. x 8'-5 1/2" LONG. APPROX. (INCLUDING 168 STAY TUBES) PER S.E. BOILER.

HEATING SURFACE OF TUBES = 3300 sq. ft. x 2 = 6600 sq. ft.

" " FURNACES ETC 621 " " x 2 = 1242 " " GRATE AREA (5'-0" BARS) = 70 x 2 = 140 sq. ft.

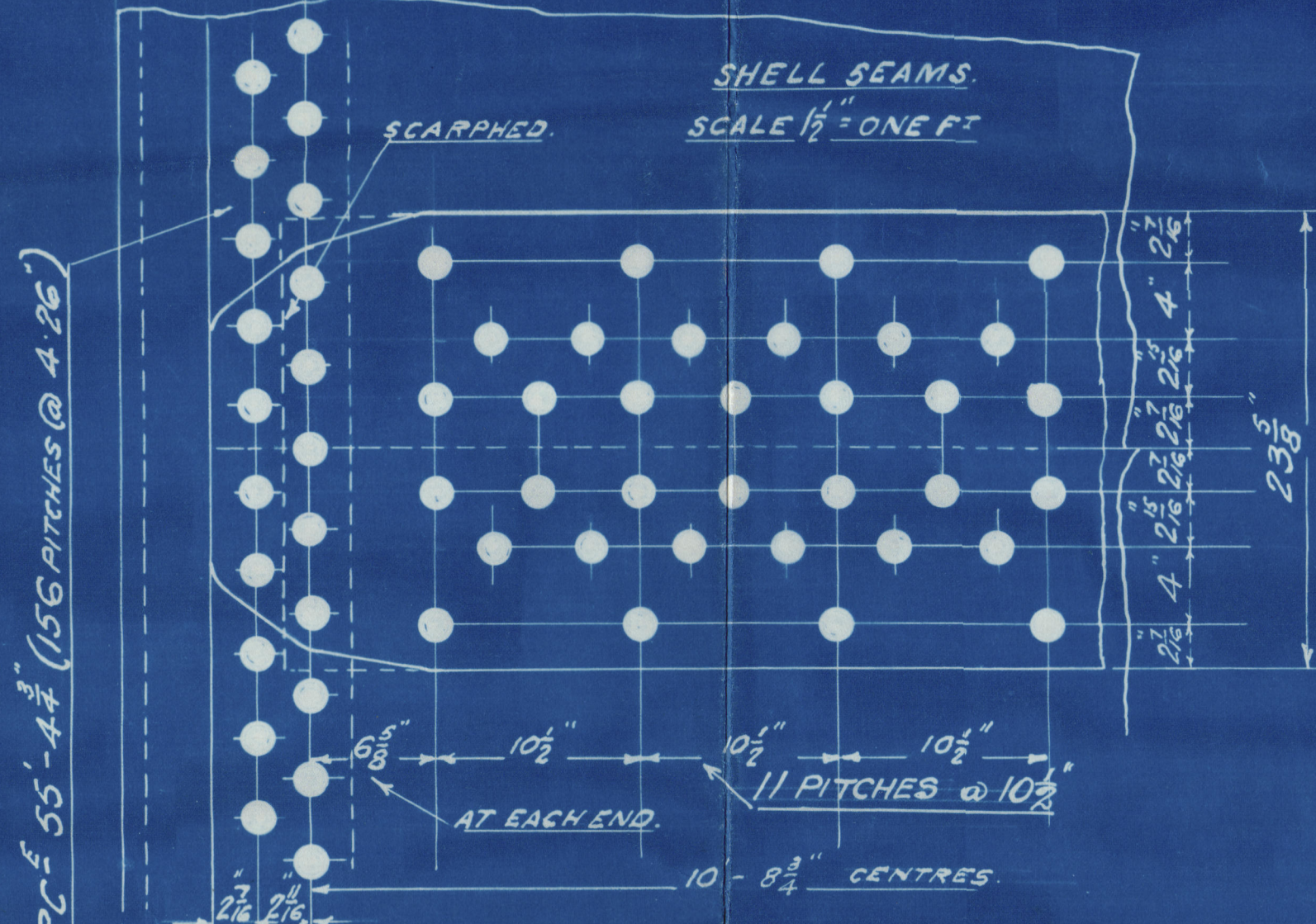
WORKING PRESSURE 200 LBS. PER SQ. INCH.

TEST " 350 " " " "

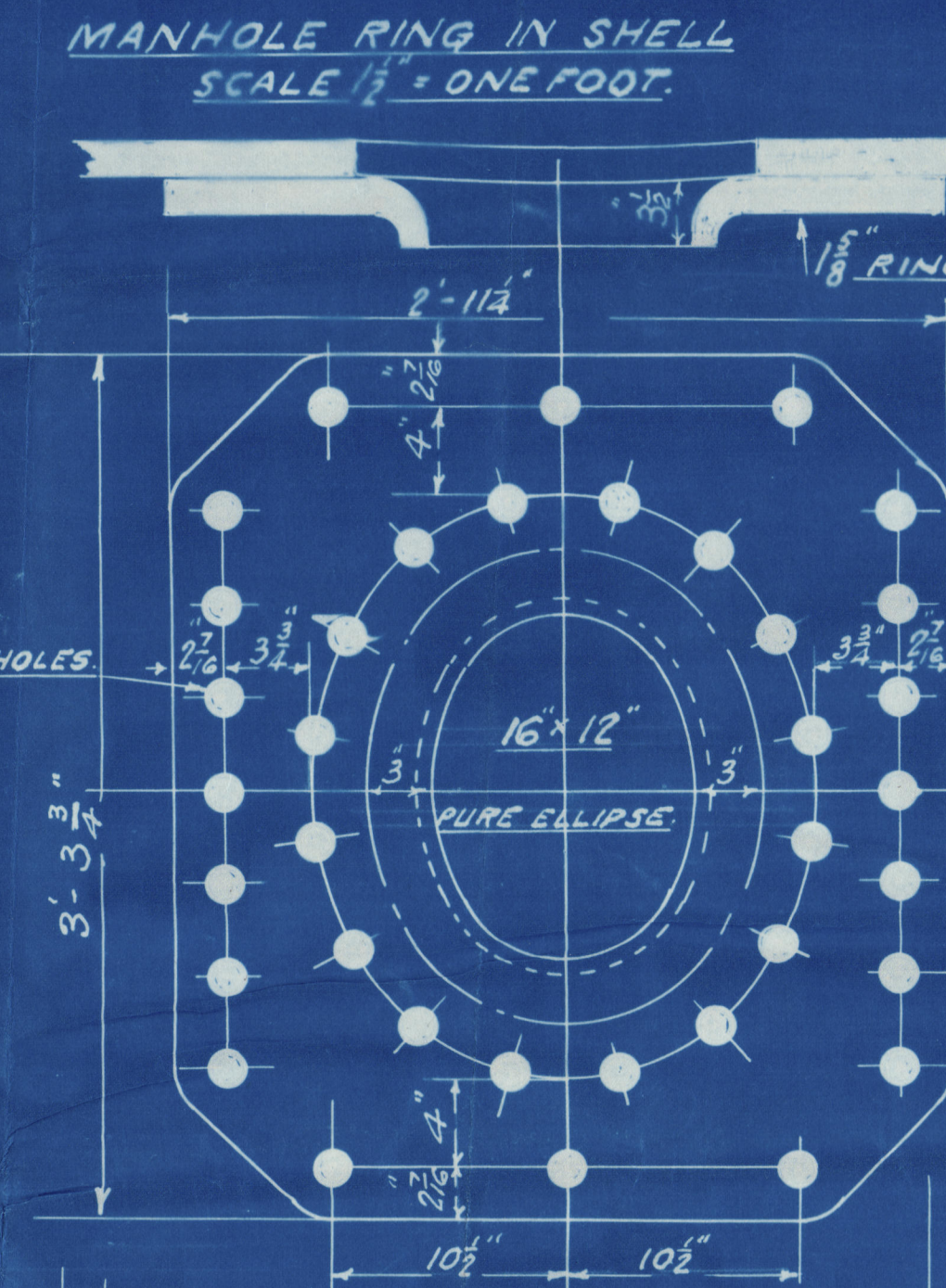
REQUIREMENTS & TESTS - BOARD OF TRADE & LLOYDS.

SUMMARY	
HEATING SURFACE D.E.	= 7586 sq. ft. x 3 = 22758
" S.E.	= 3921 " x 2 = 7842
" TOTAL	30600
GRATE AREA D.E.	= 140.80 sq. ft. x 3 = 422.4
" S.E.	= 70 " x 2 = 140
" TOTAL	562.4

16" x 12" MANHOLE IN SHELL FITTED WITH FLAT STEEL PLATE DOOR & COMPENSATING RING

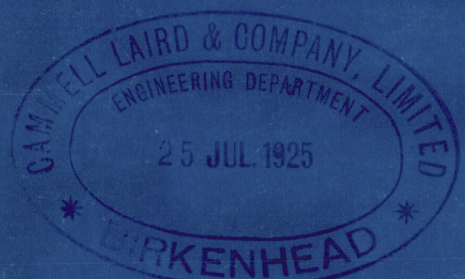


DIA. OF SHELL 17'-6" INSIDE. THICKNESS OF SHELL 1 1/2".  
 " " RIVET HOLES 1 1/8". ALL HOLES DRILLED IN PLACE.  
 LONG JOINT STRENGTH. PLATE 84.52% RIVET 95.48% COMBINED 89%  
 THICKNESS OF BUTTSTRAPS (1 1/4" OUTER) (1 1/8" INNER)

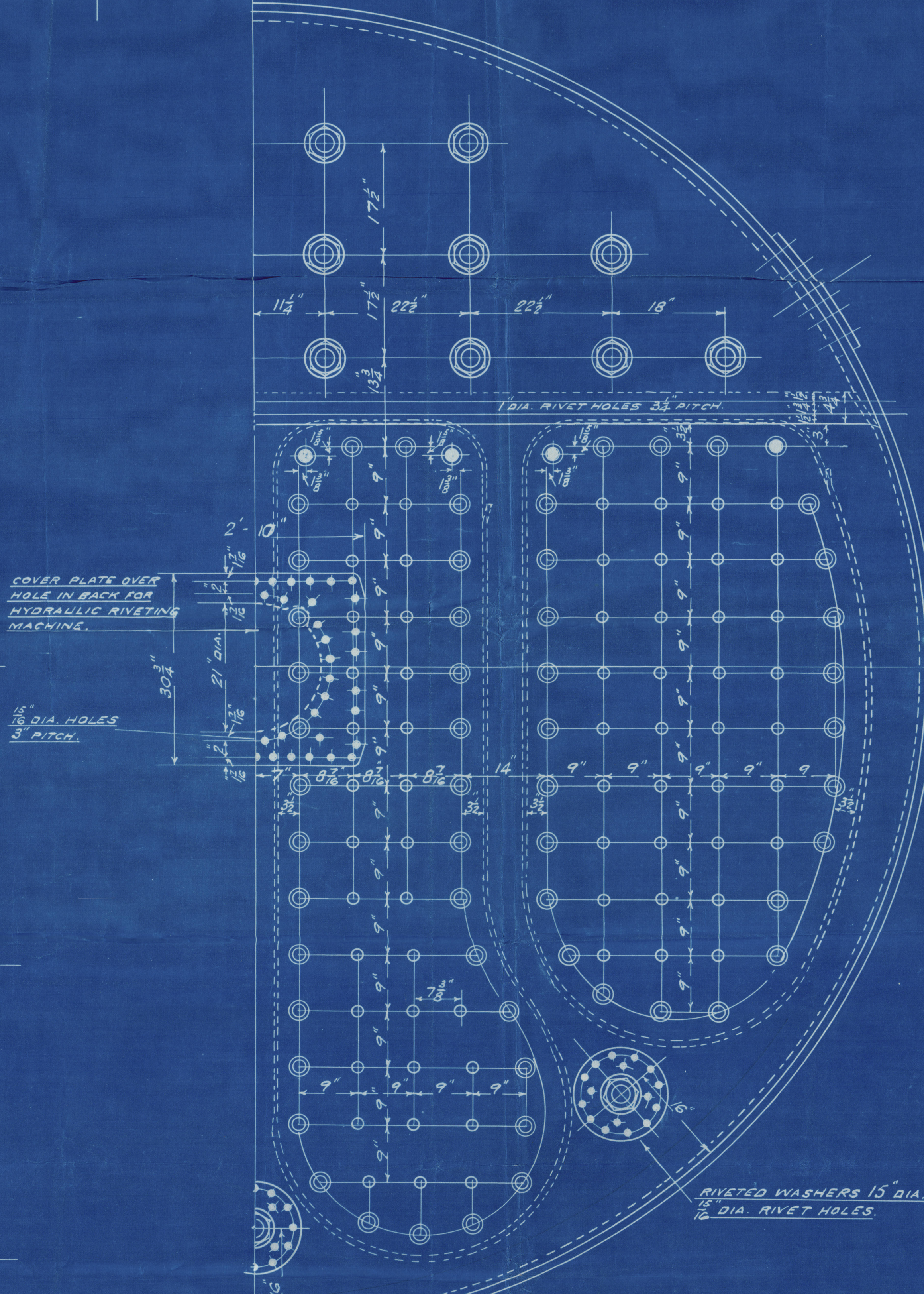
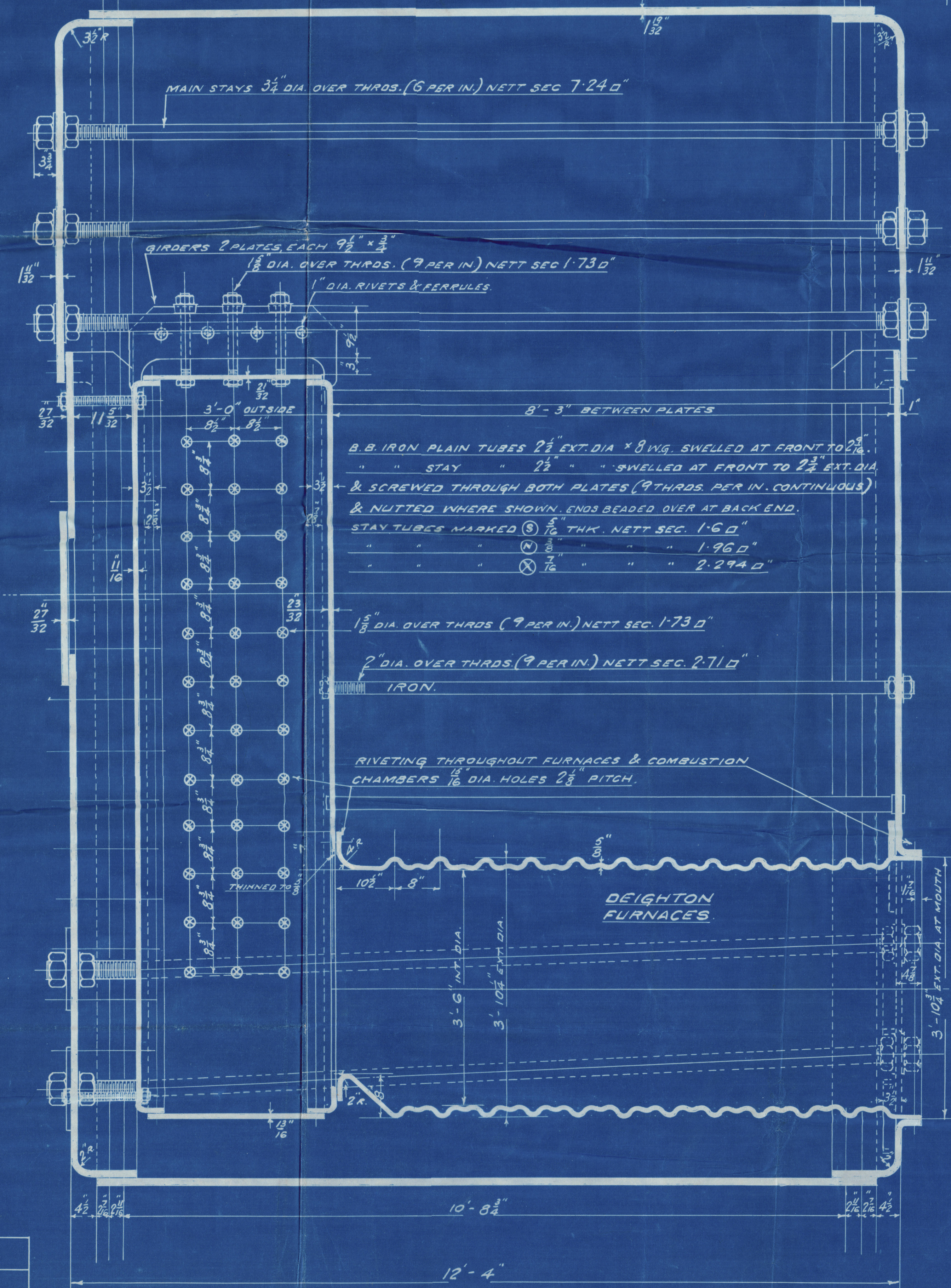
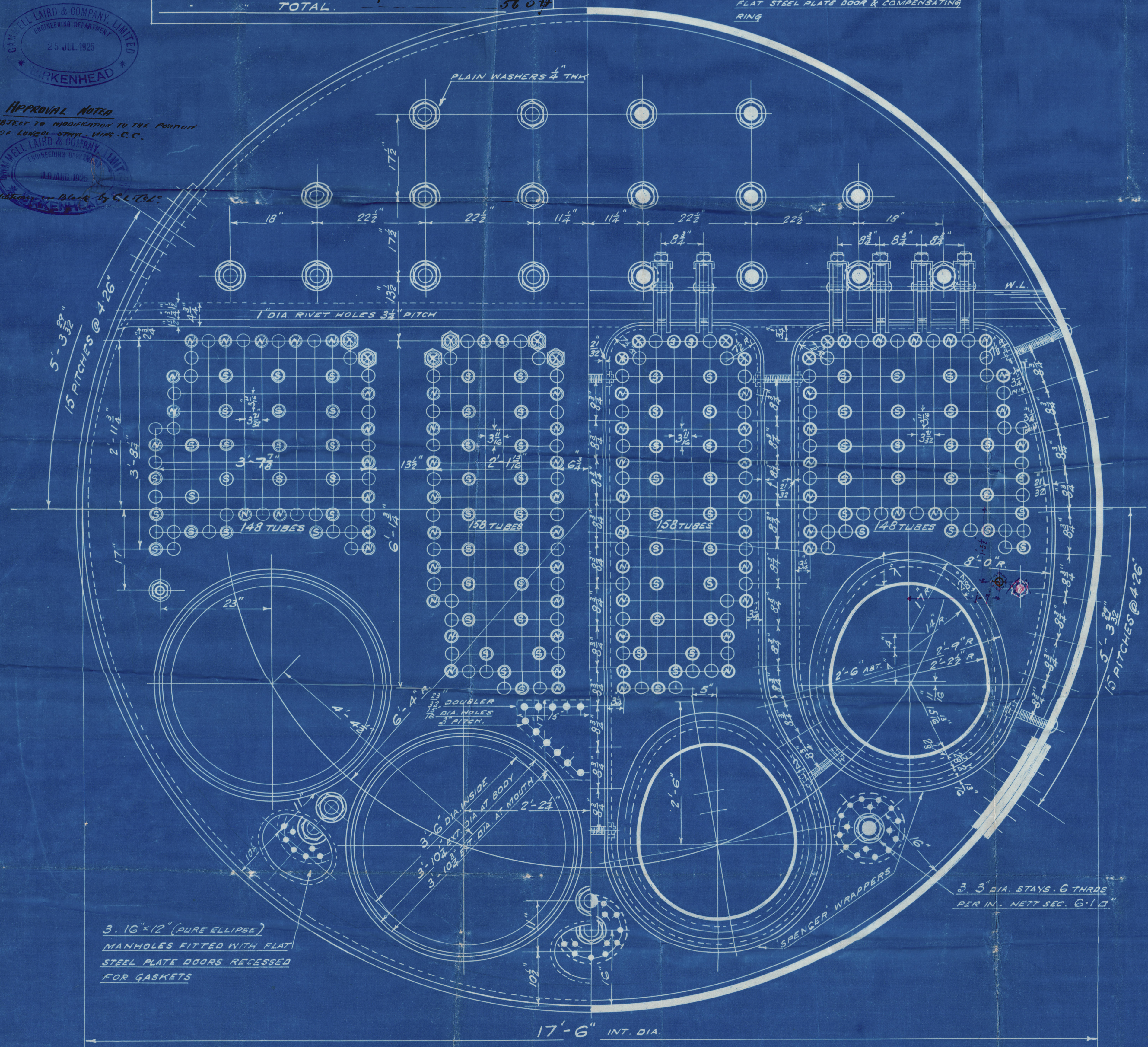


BOILERS N° 919.  
 REPEAT " 920.  
 " " 921.

158735



APPROVAL NOTES  
 SUBJECT TO MODIFICATION TO THE POSITION OF LONGER STAYS. MMS. C.C.



ALL COMBUSTION CHAMBER STAYS SCREWED THROUGH BOTH PLATES 7 THRS/IN. & EXCEPT AT SHELL, NUTTED  
 STAYS MARKED @ 1 1/8" DIA. OVER THRS. NETT SEC. 1.73 D"  
 " " @ 1 1/2" " " " " " 2.03 D"  
 " " @ 1 3/4" " " " " " 2.36 D"  
 " " @ 2" " " " " " 3.09 D"

SCALE 1" = ONE FOOT.

MATERIAL		
FOR	OF	T.S.
SHELL, BUTTSTRAPS, GIRDERS, MAIN STAYS & COVER PLATE	STEEL	28/32 TONS/D
BOILER ENDS, COMBUSTION CHAMBERS, FURNACES, SCREWED	"	26/30 "
STEEL RIVET BARS & MANHOLE RING	"	2 1/2 "

SHELL PLATES & BUTTSTRAPS 20% TON/100



158735-0026



Single Ended Boilers

Cammell Laird & Co

919-20-21

(919) S.S. "ALMEDA" STAR

LIVERPOOL

Report No. 91131

(920) S.S. Andaluca

LIVERPOOL

Report No. 91583

(921)

S.S. Andorra

LIVERPOOL

Report No. 92051

Lloyd's Register

W329 0226