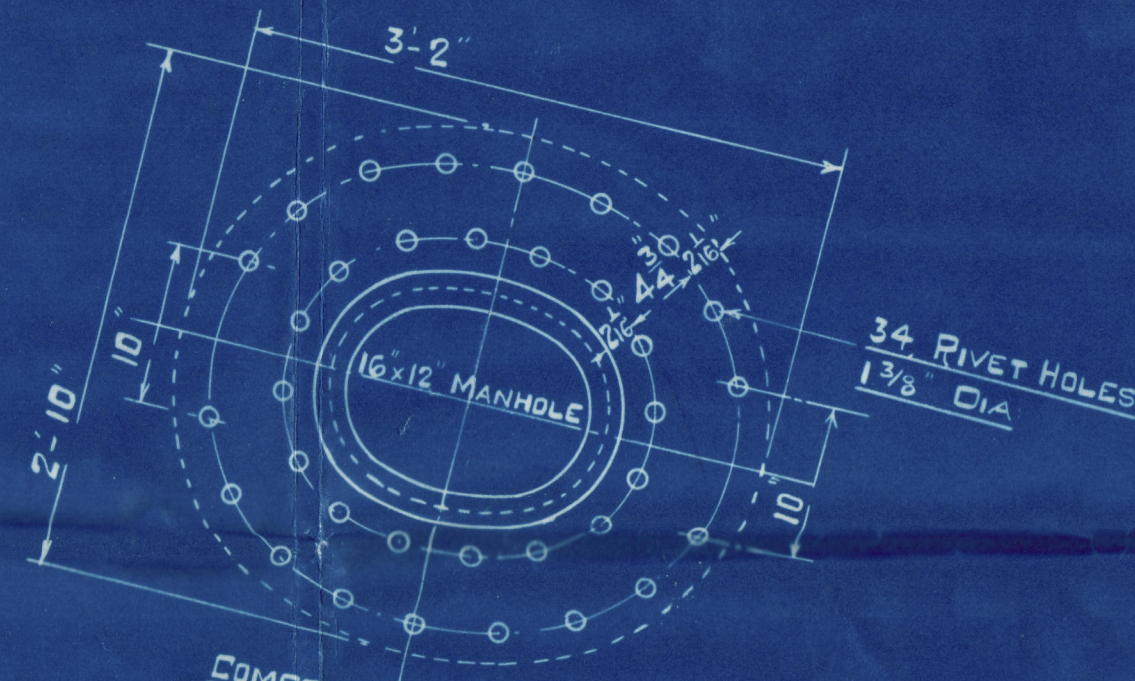
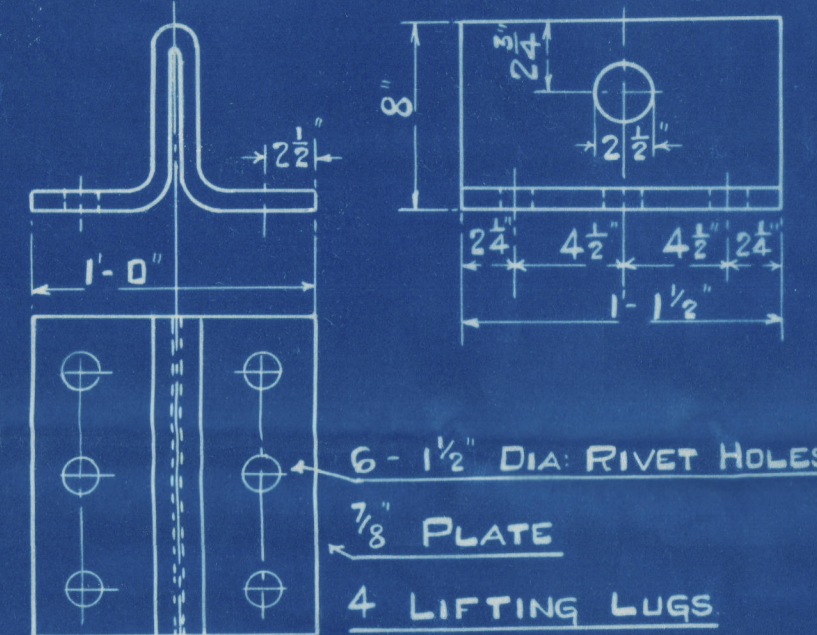


BOILER

14/9/36

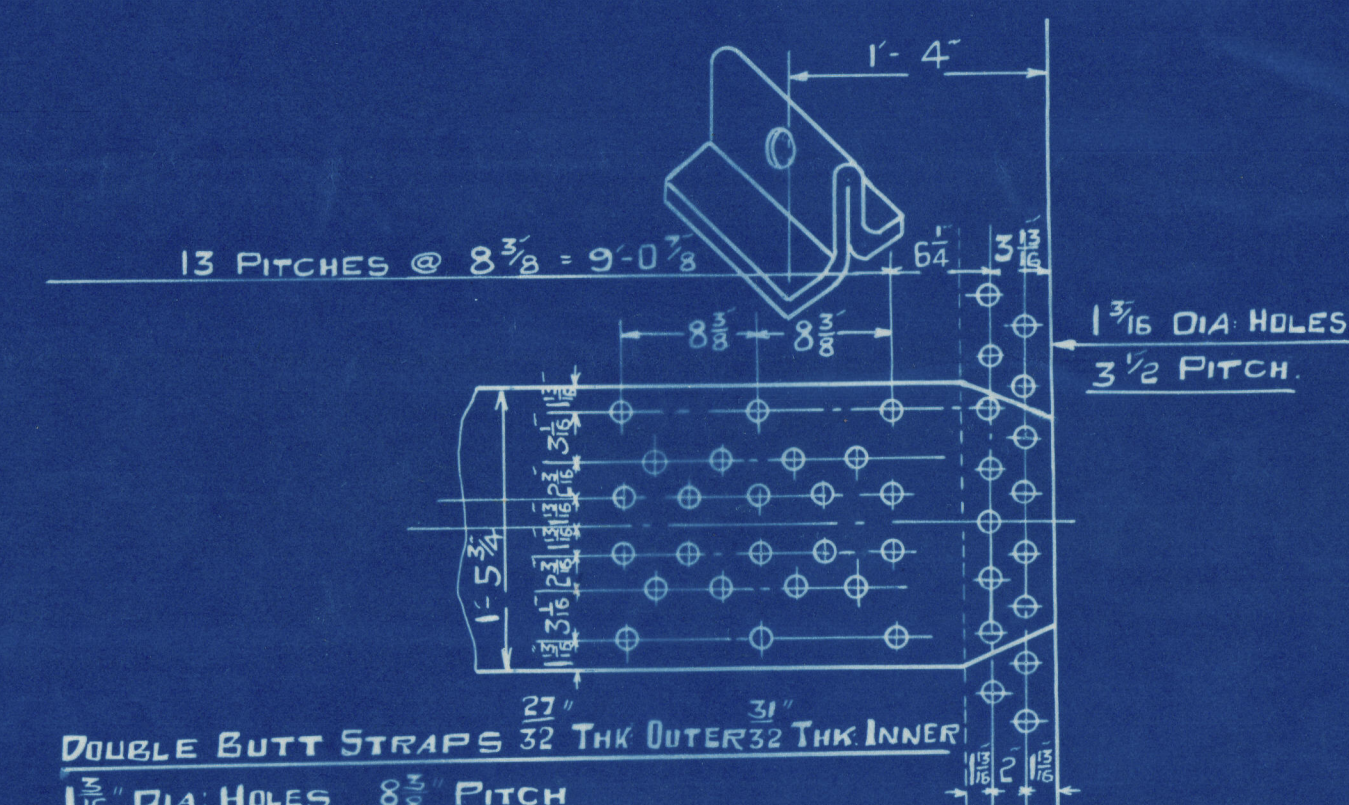


$$\text{PLATE \%} = \frac{(8.375 - 1.875) \times 100}{8.375} = 85.8\%$$

$$\text{RIVET \%} = \frac{100 \times 23 \times 1.075 \times 5 \times 1.875}{29 \times 8.375 \times 1.125} = 87.4 \%$$

$$\text{COMBINED \%} = \frac{100 \times (8.375 - 2.375)}{8.375} + \frac{85.8}{5} = 89\%$$

$$SHELL = \frac{(36-2) 29 \times 85.8\%}{2.75 \times 168.75} = 182 \text{ LBS/} \square'$$



DOUBLE BUTT STRAPS 32 THK OUTER 32 THK INNER

$\frac{1}{16}$ DIA HOLES $8\frac{3}{4}$ PITCH

ALL HOLES DRILLED IN PLACE

TENSILE STRENGTH OF SHELL & BUTT STRAPS 29-33 TONS/0"

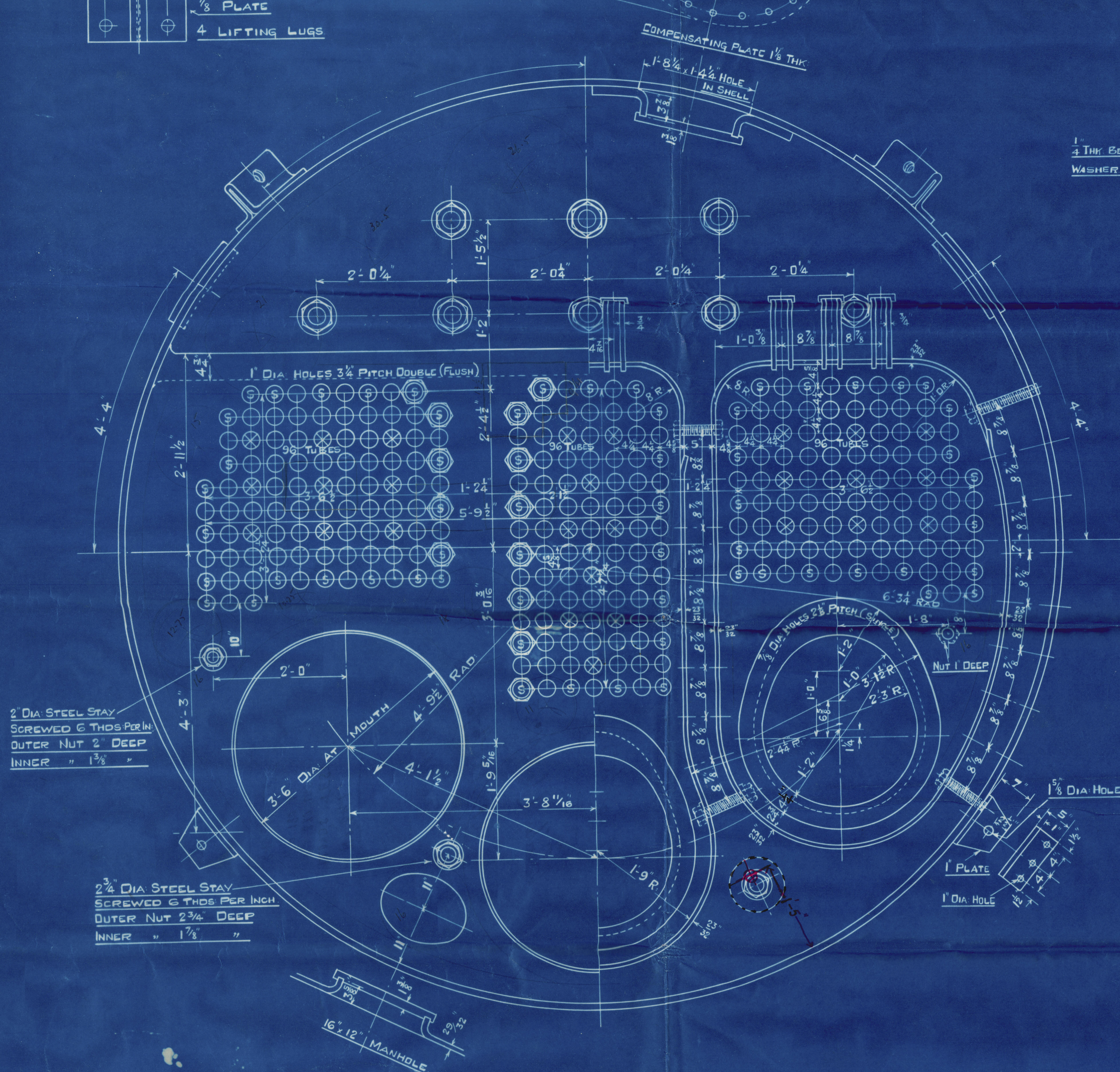
WORKING PRESSURE :- 180 LBS/0"

TEST " :- 320 LBS/0"

TO PASS LLOYDS SURVEY

PARTICULARS OF BOILER

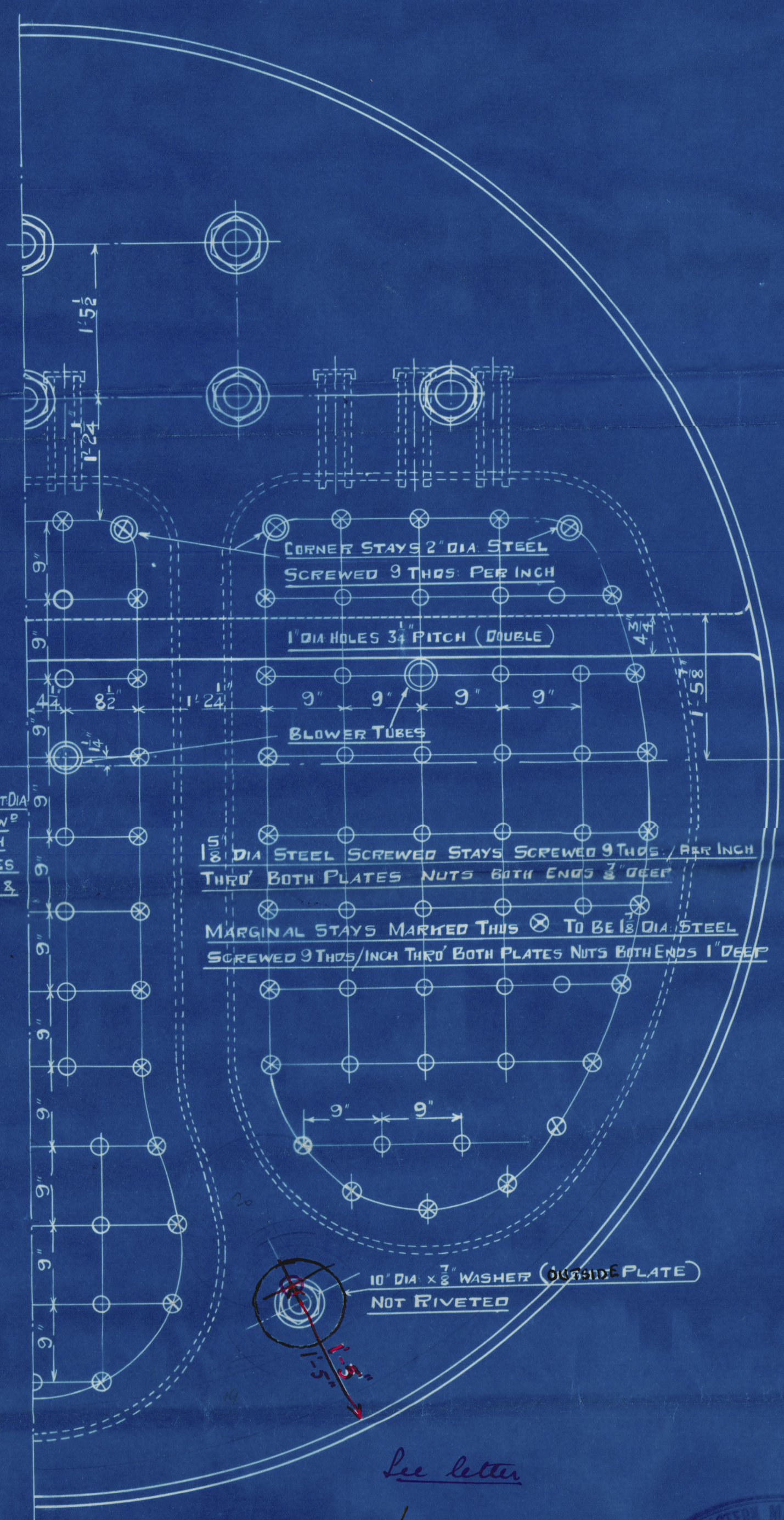
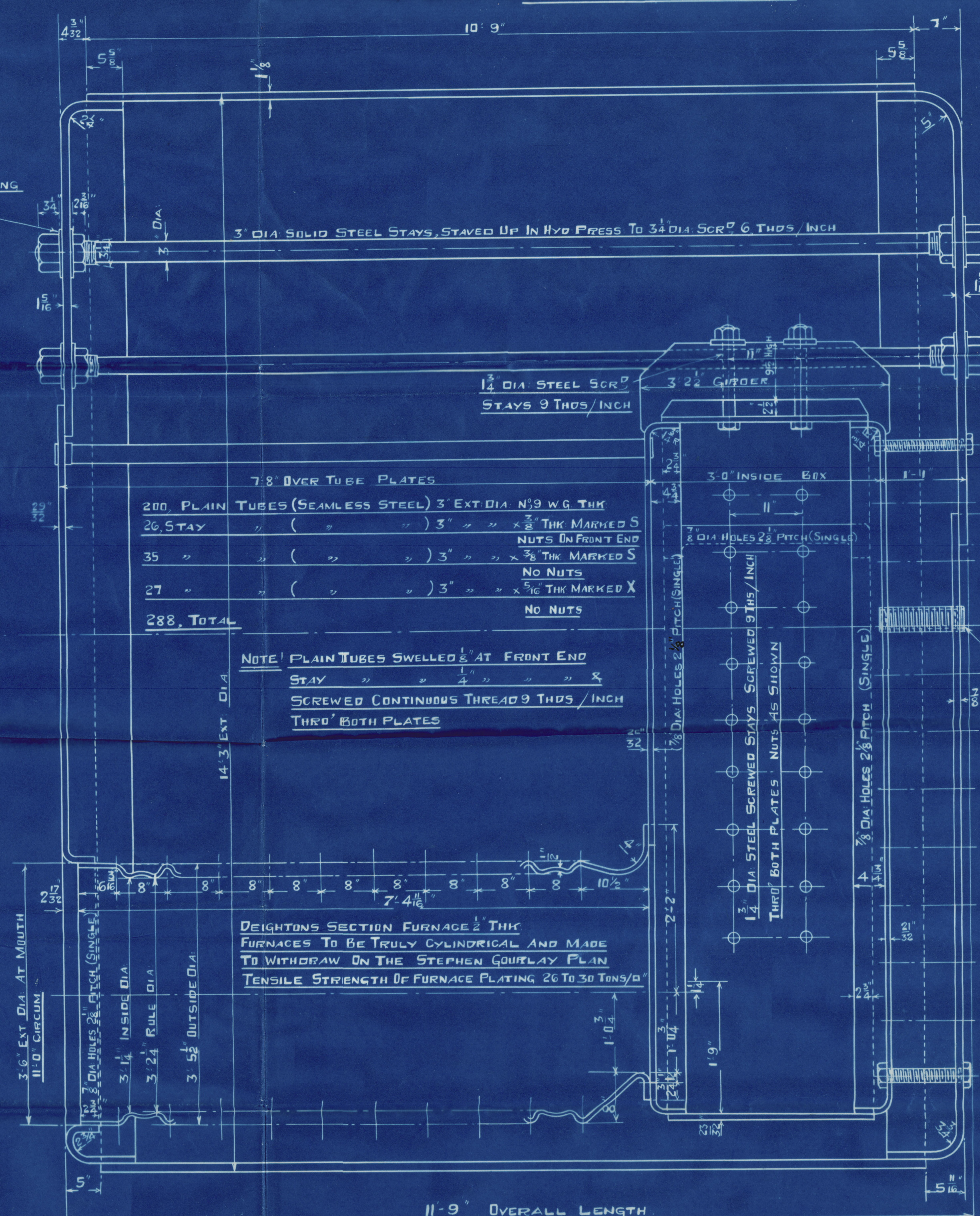
HEATING SURFACE TUBES	=	1697	♠
" " ELSEWHERE	=	528	♠
TOTAL	=	2225	♠
TUBE AREA	=	1014	♠
TESTS OF MATERIAL			
SHELL PLATES	29-33 TONS/0"		
BUTT STRAPS	" " " "		
GIRDERS	" " " "		
MANHOLE DOORS	" " " "		
ALL COMBUSTION C ¹ & FLANGING PLATES	26-30 TONS/0"		
FURNACES	26 TO 30 TONS/0"		
COMPENSATING PLATE	26 " 30 "		
SCREWED STAYS	26 " 30 " "		
LONGITUDINAL STAYS	28 " 32 " "		



		7.8 OVER TUBE PLATES							
200.	PLAIN TUBES (SEAMLESS STEEL)	3"	EXT DIA	N ^o 9	W.G	THK			
26.	5 TAY "	("	"	3' "	"	x 3/8 THK MARKED IN FRONTS OF NUTS			
35	" "	("	"	3' "	"	x 3/8 THK MARKED NO NUTS			
27	" "	("	"	3' "	"	x 5/8 THK MARKED NO NUTS			
288.	TOTAL								

NOTE: PLAIN TUBES SWELLED $\frac{1}{8}$ " AT FRONT END
STAY " " $\frac{1}{4}$ " " " " &
SCREWED CONTINUOUS THREAD 9 THDS / INCH
THRU BOTH PLATES

DEIGHTONS SECTION FURNACE 2" THK
FURNACES TO BE TRULY CYLINDRICAL AND MADE
TO WITHDRAW ON THE STEPHEN GOURLAY PLAN
TENSILE STRENGTH OF FURNACE PLATING 26 TO 30 TONS/SQ"



SCHEDULE "E"

ONE OFF

TRACING N^o 7 7 2.
CONTRACT 2 8 7 2.

The North Eastern Marine Eng. Co. Ltd

Boiler (Cont. N^o 2872)

W.P. 180 lb./sq"

For. Sp. "Stanafalt"

N^o 697
LLOYD'S TEST
320 LBS
W.P. 180 LBS
8-12-36 J.E.S.

3 1/2 dia S. Valve

ss. Stanafalt.

NEWCASTLE ON TYNE.

Report No. 18.9.36



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Approved 18.9.36

Foundation

M1060-0205