

# STEEL BOILER

## Nº 495

WORKING PRESSURE 200 LBS = LLOYDS

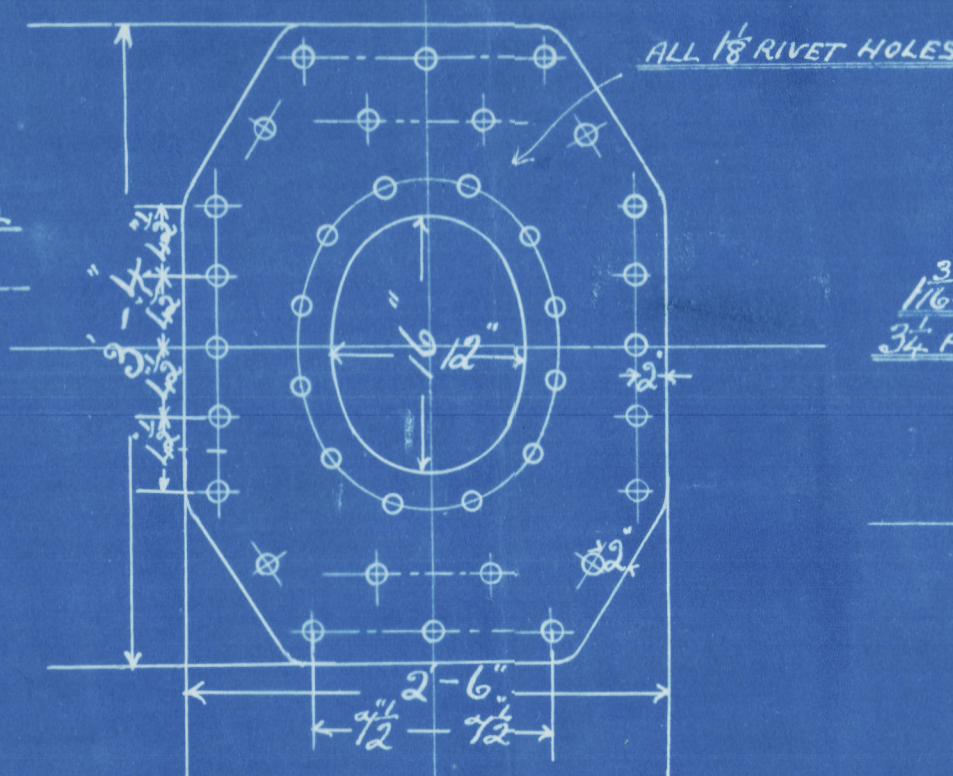
### DIMENSIONS.

LENGTH OF FIRE BARS	4'-6"
AREA OF FIRE GRATE	25.5
DIAM OF TUBES OUTSIDE	3 1/4"
LENGTH OF TUBES BETWEEN PLATES	6'-9"
Nº OF TUBES	112
AREA THROUGH TUBES	4.7
SURFACE OF TUBES	560
TOTAL HEATING SURFACE	450
WORKING PRESSURE	200 lbs

Note

ALL PLATES & STAYS RIVETS TO BE OF SIEMENS MARTIN STEEL  
 ALL RIVETS HOLES THROUGHOUT THE BOILER TO BE DRILLED IN PLACE  
 AFTER THE PLATES ARE BENT. THE SCREW STAYS ARE 1 1/8" - 1 1/2" - 1 3/8"  
 EFFEC DIAM SCREWED INTO BOTH PLATES AND NUTTED AT EACH END  
 NO WASHERS TO BE FITTED UNDER NUTS INSIDE COMB CHAMBERS  
 THE TUBES ARE OF IRON THE ORDINARY TUBES ARE 3 1/4" EXT DIAM  
 X NO 8 L.S.G. THICK. THE STAY TUBES ARE 2 1/2" INT DIAM X 9/16" THICK  
 EFFECTIVE SCREWED AT ENDS TO 3 1/2" X 3 1/4" DIAM. A MANHOLE IN SHELL  
 16" X 12" WITH SHORTER AXIS LONGITUDINALLY AND A DOUBLING PLATE  
 3'-4" X 2'-6" X 1" THICK FITTED ROUND IT

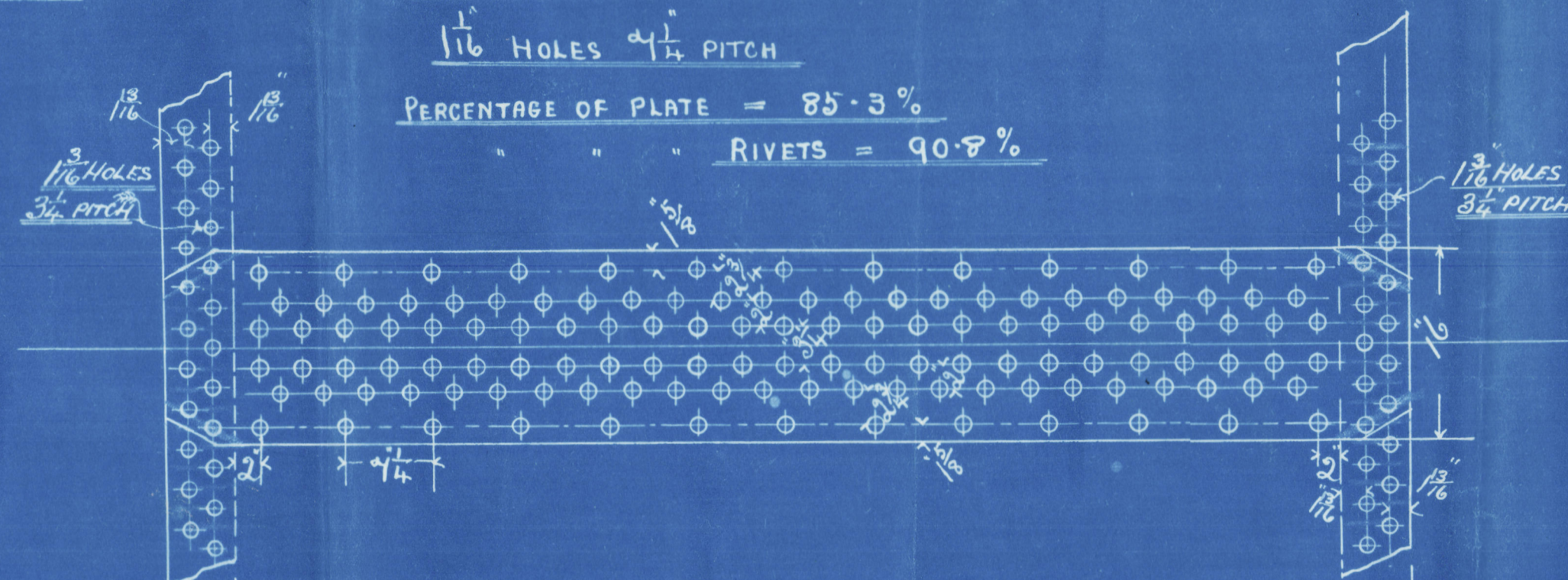
DOUBLING PLATE ROUND MANHOLE  
 1" THICK



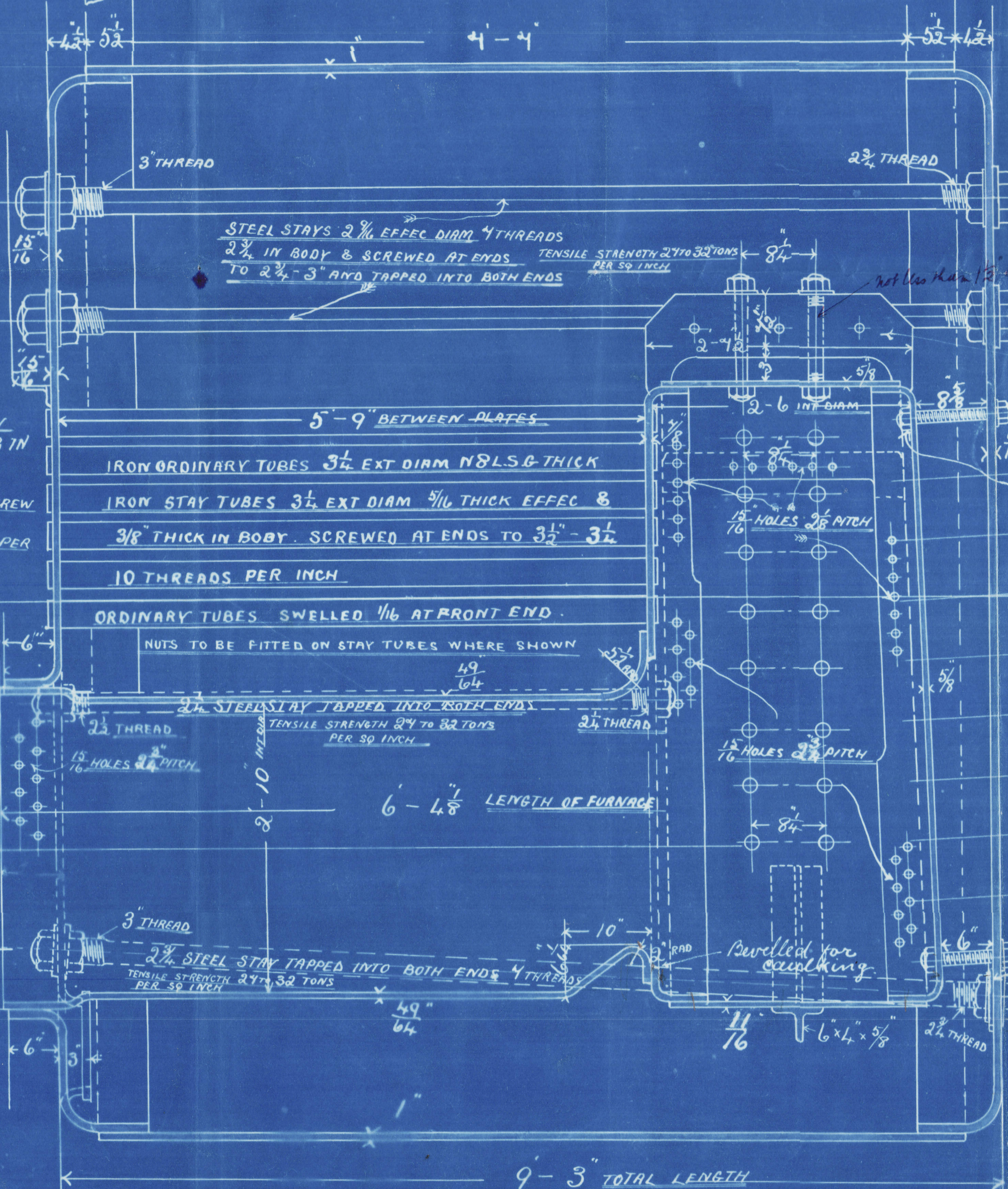
SCALE 1" = 1 FOOT

PLAN OF SHELL RIVETING

1 1/6" HOLES 2 1/4" PITCH  
 PERCENTAGE OF PLATE = 85.3 %  
 " " " RIVETS = 90.8 %



SHELL 1" THICK  
 INSIDE BUTT STRAP 1" THICK  
 OUTSIDE " 3/4" "  
 TENSILE STRENGTH = 27 TO 32  
 TONS PER SQ INCH



DOUBLE STEEL BARS  
 1/8" X 1 1/2"  
 RIVETED TOGETHER

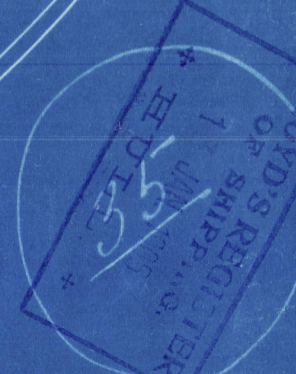
NVO WASHERS TO BE  
 FITTED UNDER NUTS  
 INSIDE COMB CHAMBER

ALL 1 1/2" STEEL STAYS  
 EXCEPT THOSE SHOWN  
 IN SECTION WHICH  
 ARE 1 3/4" DIAM  
 10 THREADS PER INCH

INSIDE WASHER  
 1 1/2" DIAM X 1/2" THICK



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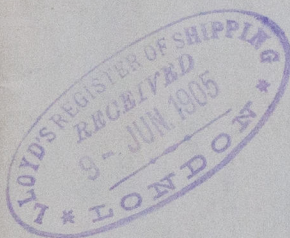
Earle's S & Co

— No. 495 Bl.

200th



s/s "Shaffa"  
Hull Report No 16857



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