

1905
LLOYD'S REGISTER OF SHIPPING
LONDON

STEEL BOILER N° 497

WORKING PRESSURE = 200 LBS LLOYDS

SCALE 1 INCH = 1 FOOT

DIMENSIONS

LENGTH OF FIRE BARS	
AREA OF FIRE GRATE	
DIAM OF TUBES OUTSIDE	6 - 6 3/8
LENGTH OF TUBES	200
N° OF TUBES	817 4
AREA THROUGH TUBES	1090 4
SURFACE OF TUBES	1420 4
TOTAL HEATING SURFACE	
WORKING PRESSURE	200 LBS

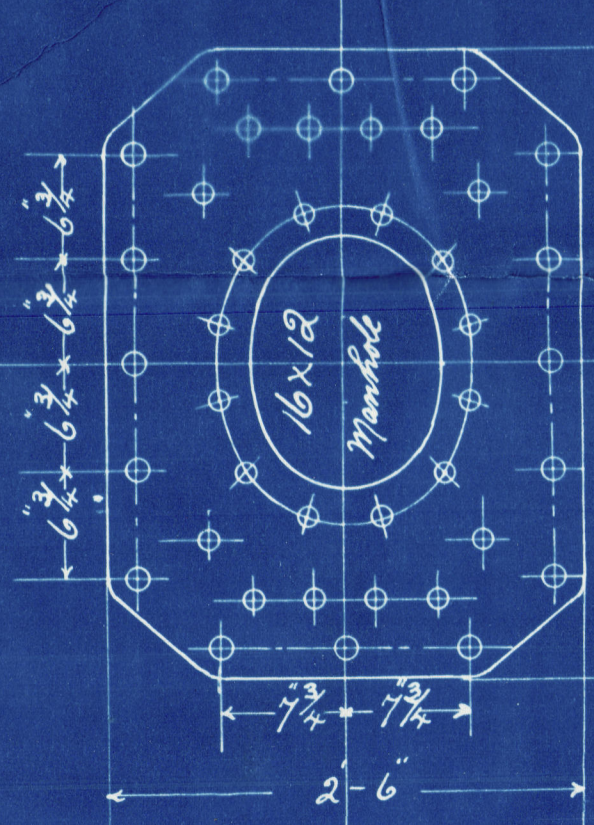
Note!

All plates stays + rivets to be of Siemens Martin Steel
all rivet holes throughout boiler to be drilled in place
after the plates are bent the screw stays are 1 3/8 x 1 3/4 x 13"
effective diam secured into both plates and nutted at each end
the nuts are to be filled under nuts inside of Comb Chambers
the tubes are of iron the ordinary tubes are 3 1/2" ext diam
x 1/8" S.S.G. thick the stay tubes are 3 1/2" int diam x 1/8" thick
effective 3/8" thick in body secured at ends to 3 1/2 x 3 1/2 diam
a manhole in shell 16 x 12 with plates rivet longitudinally
and a doubling plate 3 1/4 x 2 1/2 x 1 3/8 thick fitted round it

Makers of Plates + Stays Bars

Doubling Plate round Manhole

1 3/8 thick



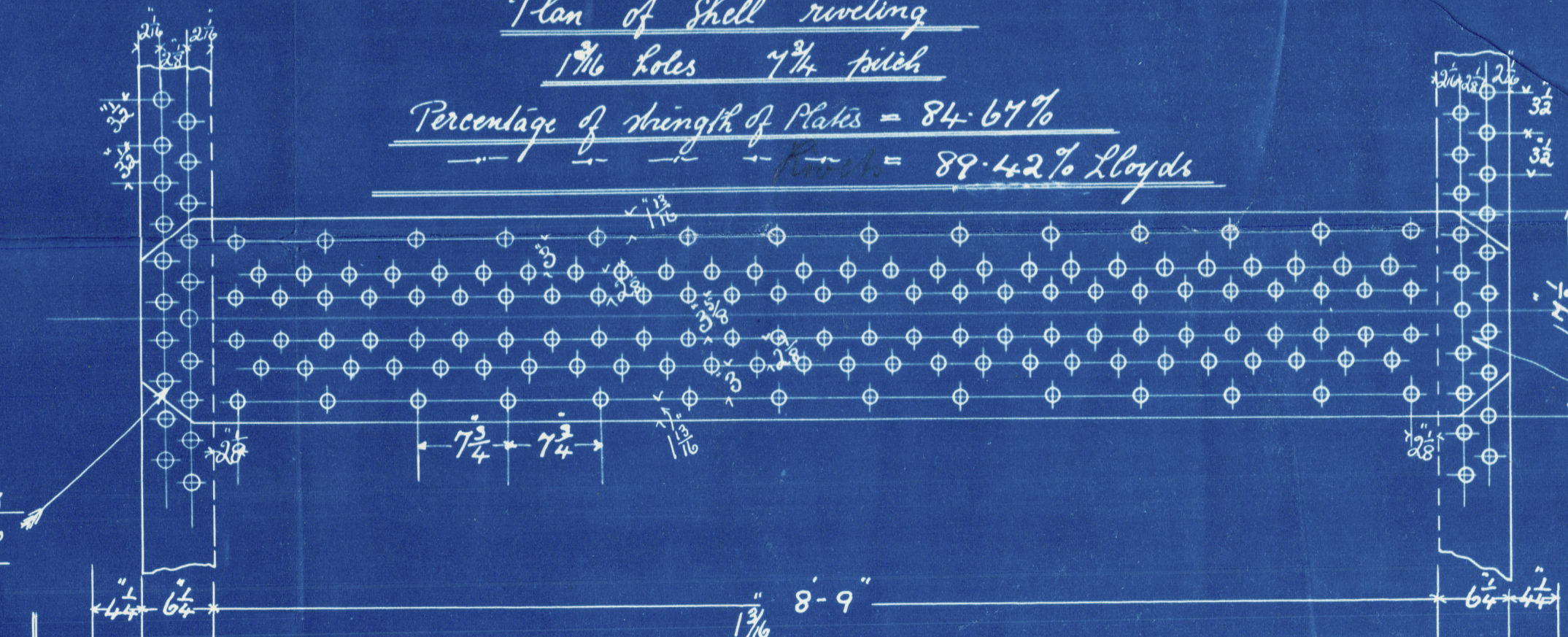
All 1 3/8 rivet holes
inner row countersunk
+ flush riveted

Shell 1 1/8 thick
Outside Butt straps 1 1/2 x 1 3/8 thick
Inside 1 1/2 x 1 3/8
Tensile strength of shell plates and
Butt straps not to be less than
38 tons per square inch

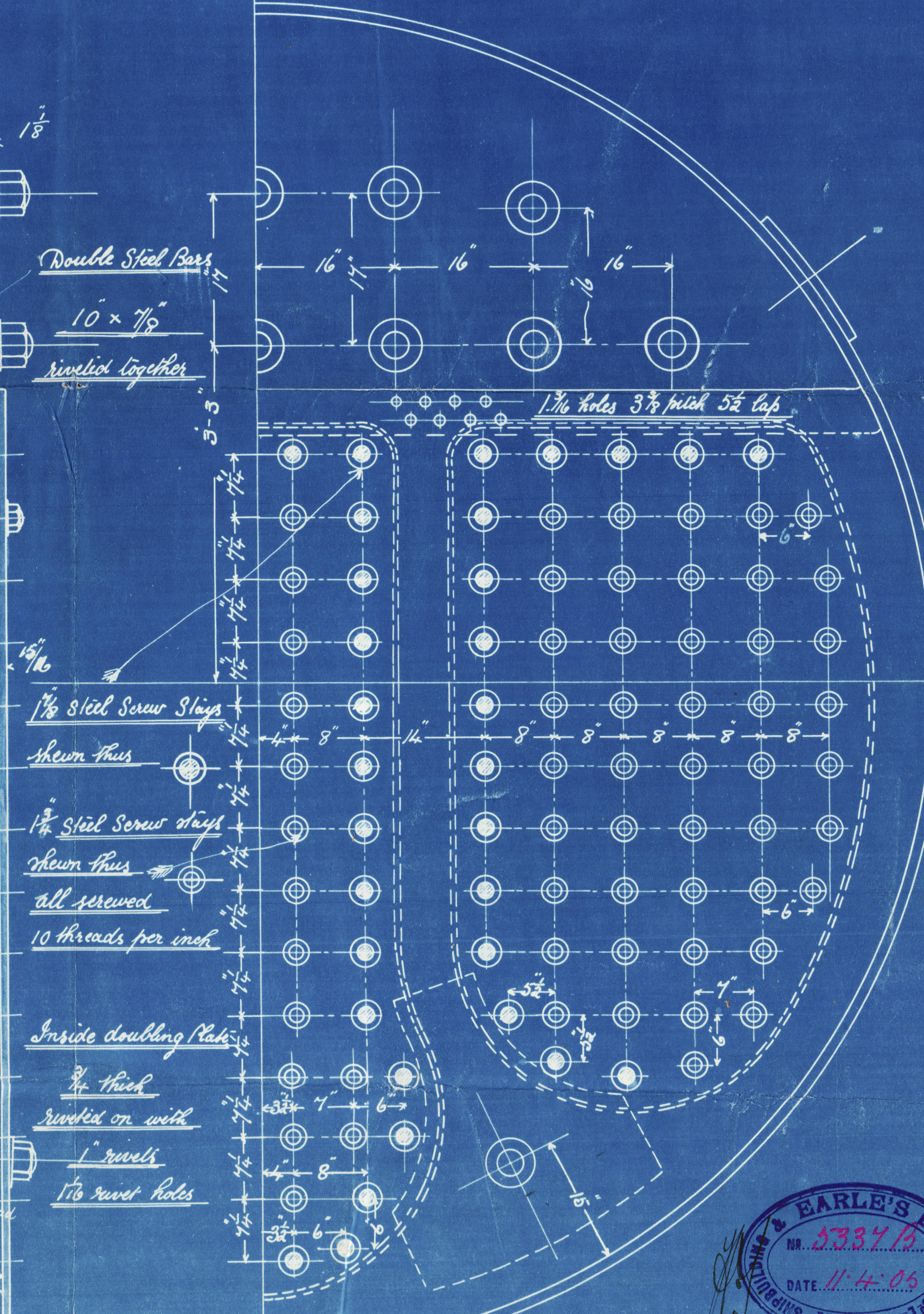
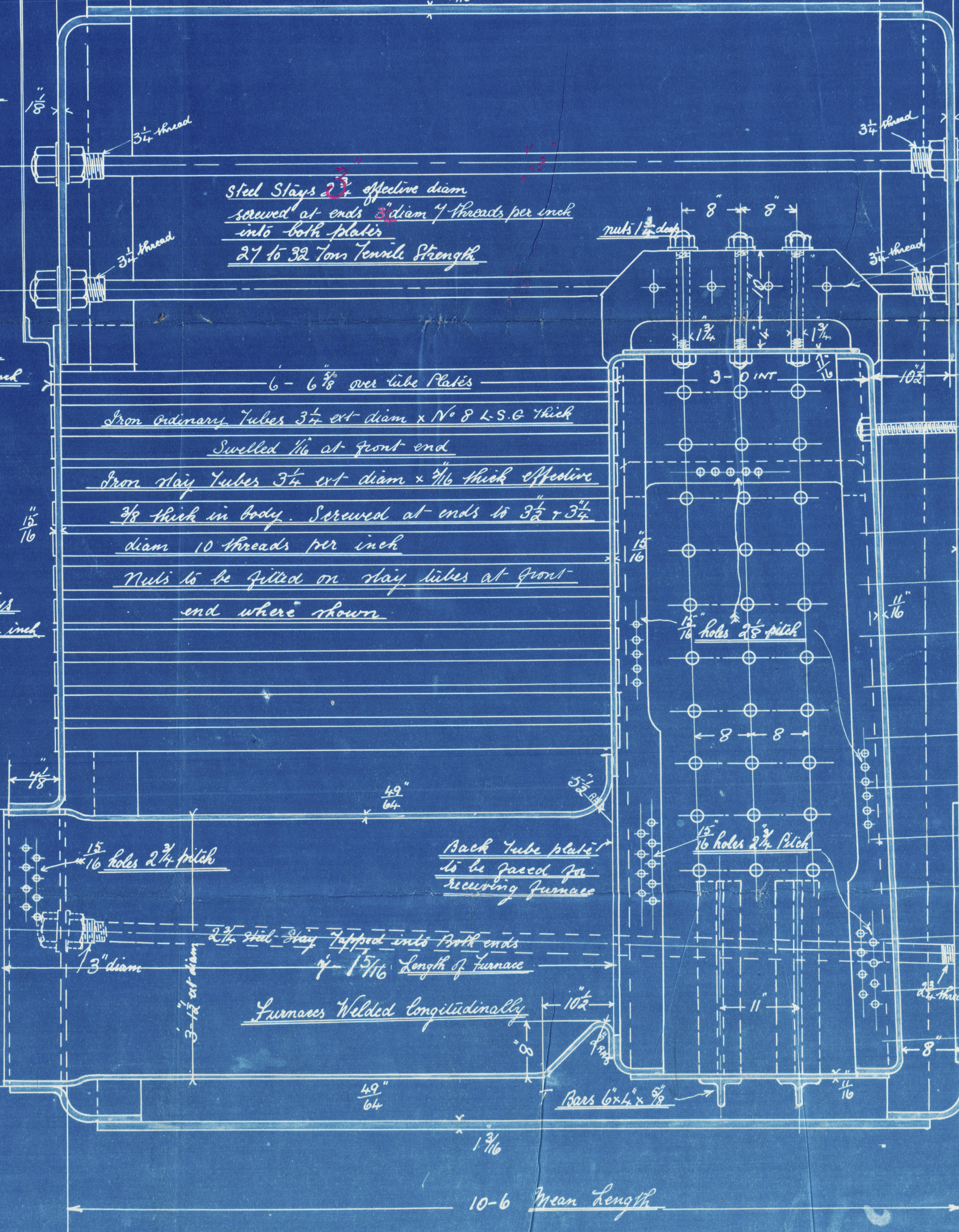
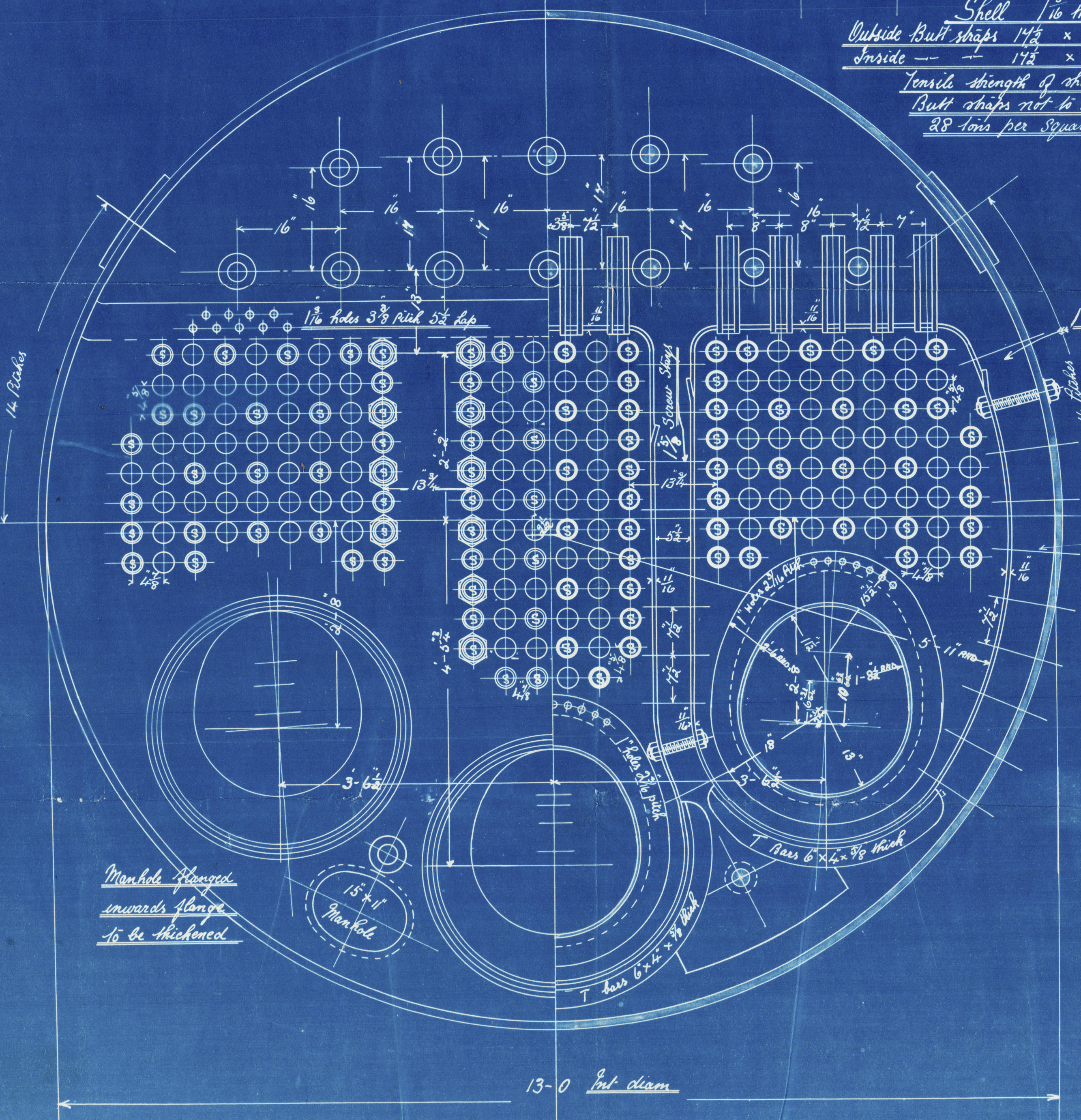
1 3/8 holes
3 1/2 pitch

Plan of Shell riveting

1 3/8 holes 7 1/2 pitch
Percentage of strength of Plates = 84.67%
= 89.42% Lloyds



1 3/8 holes
3 1/2 pitch



Double Steel Bars
10 x 7/8
riveted together

1 3/8 Steel Screw Stays
shown thus

1 3/8 Steel Screw stays
shown thus

all screwed
10 threads per inch

Inside doubling Plate
3/8 thick

riveted on with
1" rivets

1 3/8 rivet holes

88 M.
15-4-05

5330.6.
7-4-05

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OF SHIPPING
1 APR 1905
HULL

N° 497

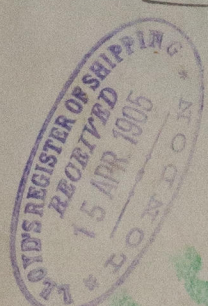
EARLE'S ENGINEERING
DATE 11-4-05
HULL

LLOYDS

Lloyds

Charles S. B. & Co
- No. 497 Bk -

200th



sp "Asia"
Hull Report No. 17243

RETAIN

W971-0164



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